



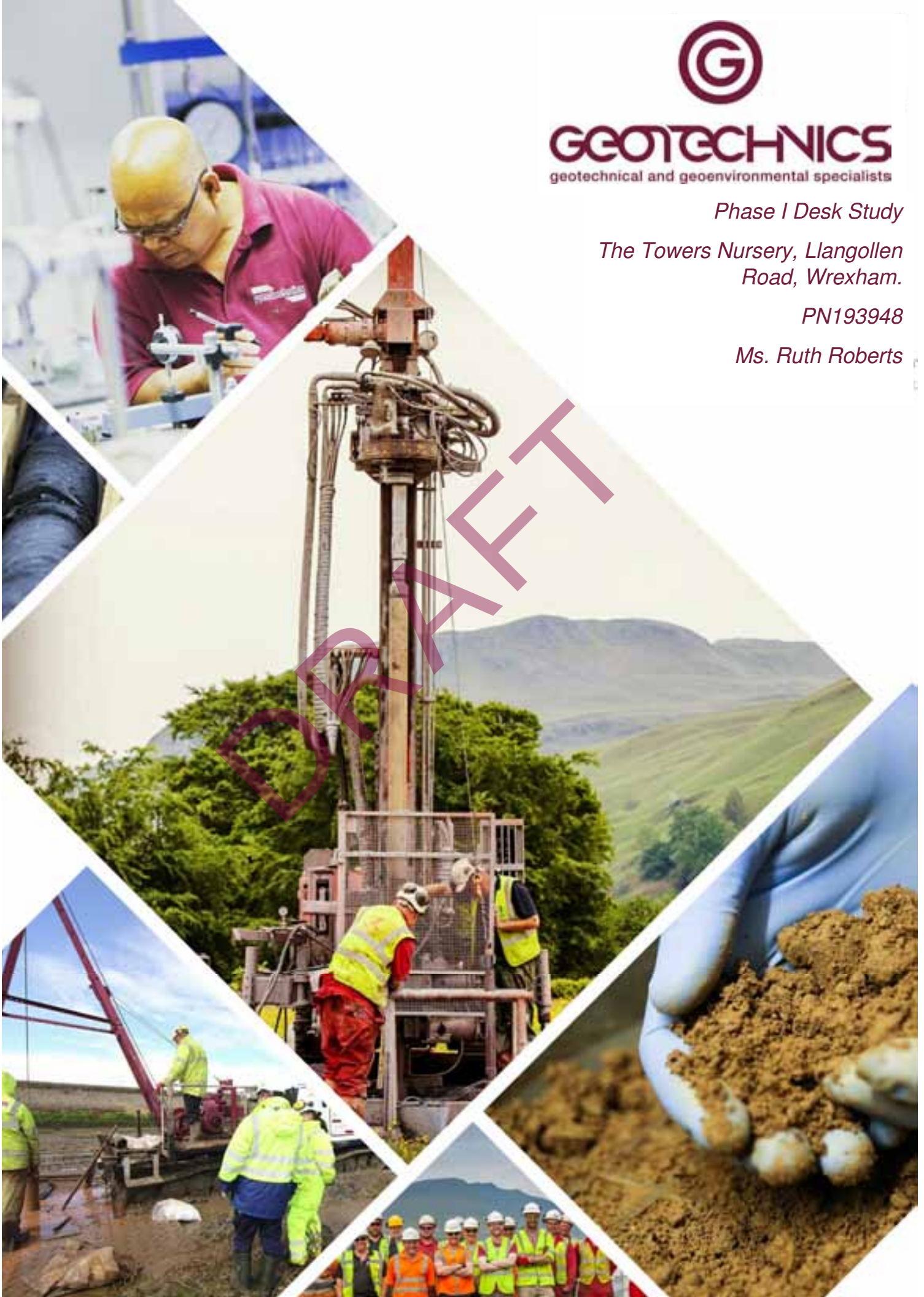
**GEOTECHNICS**  
geotechnical and geoenvironmental specialists

*Phase I Desk Study*

*The Towers Nursery, Llangollen  
Road, Wrexham.*

*PN193948*

*Ms. Ruth Roberts*



|                                     |                                                                                                                               |                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Project Reference:</b>           | PN193948                                                                                                                      |                                                                                           |
| <b>Title:</b>                       | Phase I Desk Study<br>The Towers Nursery, Llangollen Road, Wrexham.                                                           |                                                                                           |
| <b>Client:</b>                      | Ms. Ruth Roberts                                                                                                              |                                                                                           |
| <b>Date:</b>                        | 4 <sup>th</sup> February 2019                                                                                                 |                                                                                           |
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## EXECUTIVE SUMMARY

**Note** – The following summary is not exhaustive and is to be used for guidance purposes only. The full report should be consulted for full details.

### INTRODUCTION

#### The Site

The site is located off the south-western side of Tower Hill, a minor road heading north-west, up from its junction with the A539 Llangollen Road, in the Tref-y-nant area of Wrexham County Borough. The site lies about 25m south of Tref-y-nant Brook, a south-easterly flowing tributary stream of the River Dee. Nearby the Tref-y-nant Bridge carries the A539 Llangollen Road across the brook. Tref-y-nant lies midway between the villages of Acrefair to the north-west and Trevor to the south-east, and about 10km to the south-west of Wrexham Town Centre. The approximate National Grid Reference for the centre of the site is SJ 272 428.

#### Proposed Development and Client's brief

It is understood from the Client that it is proposed to construct a single-storey building which will form a garage and an office/learning space with welfare facilities, to be built on the site of the existing "Towers" Day Nursery car park. It is intended for the new building to be used in connection with, and ancillary to, the existing nursery operations.

#### Site History

The earliest OS map reviewed is the 1875 1:2,500 map which shows the site as part of an undeveloped agricultural field, with residential properties on opposite (north-west) side of Tower Hill (road). Small buildings were added adjacent to the site, with further residential properties built to the south-east of the site. The site remains undeveloped into the early 2000's where it was developed into a car park. Subsequently, a further residential property was built to the north-west of the site but the land to the south-west remains as a grassed field.

#### Surrounding Area

The site is bordered by residential properties to the north-west and south-east; to the south-west (rear) the land rises up into a grassed field used for sheep grazing. Further residential properties line the opposite side of the road, their rear gardens backing on to Tref-y-nant Brook. Further afield, the local area was historically dominated by industrial operational premises which have since ceased trading, although evidence of their former presence is still visible. The Pontcysyllte Aqueduct, a Grade I listed structure, is situated roughly 850m to the south of the site.

### MAIN FINDINGS

| Significant Contamination Sources              | Significant Pathways                                                                    | Significant Receptors                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Made Ground (on site)                          | Direct contact<br>Ingestion<br>Leaching and downward migration<br>Inhalation of vapours | Construction Workers<br>Future End Users<br>Structures and Foundations<br>Groundwater |
| Historic Edwards Brickyard Landfill Site       | Leaching of contaminants and downward migration                                         | Groundwater                                                                           |
| Former shallow mine workings and infilled land | Ground gas migration<br>Leaching of contaminants and downward migration                 | Construction workers<br>Future end users<br>Groundwater                               |

### CONCLUSIONS

#### Qualitative Risk Assessment:

| Potential Sources (distance)                | Potential Receptors     | Risk         | Mitigation Recommendations                                                                                                                |
|---------------------------------------------|-------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Made Ground (on site)                       | Humans/Structures/GW/SW | 8-9 Moderate | Ground investigation to determine existing conditions and presence/absence of hydrocarbons in the soils and groundwater beneath the site. |
| Former shallow workings and infilled ground | Humans/Groundwater      | 8-9 Moderate | Ground investigation to characterise gas regime on site from monitoring of installations in line with current guidance.                   |



## **RECOMMENDATIONS**

### **Proposed Ground Investigation Scope:**

The following are recommendations for intrusive investigation informed by the qualitative risk assessment undertaken in Section 6.4.

- Hand dug inspection pits to retrieve environmental samples
- Windowless (Dynamic) Sample Borehole and installation of ground gas monitoring standpipe
- Environmental Sampling
- Proposed testing would include but not be limited to the following;
  - a) heavy metals suite (comprising; As, Cd (low level), Cr, Vi, Pb, Hg, Se, Ni, Cu, Zn)
  - b) Organic Matter
  - c) Sulphates
  - d) pH
  - e) Speciated polycyclic aromatic hydrocarbons (PAH)
  - f) TPH CWG.
  - g) Asbestos testing within topsoil and Made Ground with quantification for positive samples.
- Should elevated determinant levels be encountered, additional leachate testing within soil and/or groundwater testing may be required.
- Gas Monitoring/Water Monitoring

Additional intrusive investigation may be required subject to this further assessment.

The scope of works should be agreed with the Local Authority prior to the intrusive ground investigation and as such may change.



## 1 INTRODUCTION AND CLIENT'S BRIEF

This Phase I Desk Study was carried out to the instructions of CB Architectural Design Limited, acting as Engineer on behalf of the Client, Ms Ruth Roberts. The purpose of the Desk Study was to determine the potential presence of contamination at the site and provide a contamination risk assessment relating to the proposed development.

It is understood from the Client that it is proposed to construct a single-storey building which will form a garage and an office/learning space with welfare facilities, to be built on the site of the existing "Towers" Day Nursery car park. It is intended for the new building to be used in connection with, and ancillary to, the existing nursery operations.

The objective of this report is to satisfy the requirements of the planning conditions as laid down by the relevant statutory authority and determine whether there is a potential for the land in question to be defined as contaminated under the definition of Part IIA of the Environmental Protection Act 1990, i.e. to determine on the basis of the available information, whether there is a potential to cause significant harm to designated receptors.

## 2 THE SITE

### 2.1 Site Location

The site is located off the south-western side of Tower Hill, a minor road heading north-west, up from its junction with the A539 Llangollen Road, in the Tref-y-nant area of Wrexham County Borough. The site lies about 25m south of Tref-y-nant Brook, a south-easterly flowing tributary stream of the River Dee. Nearby the Tref-y-nant Bridge carries the A539 Llangollen Road across the brook. Tref-y-nant lies midway between the villages of Acrefair to the north-west and Trevor to the south-east, and about 10km to the south-west of Wrexham Town Centre. The approximate National Grid Reference for the centre of the site is SJ 272 428. A Site Location Plan can be found in Appendix A.

### 2.2 Site Description

#### 2.2.1 Site

The site measures approximately 0.06 hectares (Ha) in total, and is situated adjacent to the existing "Towers" Day Nursery. The site was visited by a Geo-environmental Engineer on 23rd January 2019. Photographs taken during this visit are presented in Appendix A.

The site is roughly rectangular in shape and measures approximately 30m from WSW to ENE and approximately 20m from WNW to ESE. The ground slopes up gently towards the north and west. It was noted during the site visit that construction works on the site had already commenced, with the main building works (including excavations, foundations and brickwork) having already been completed. The rest of the site remains undeveloped and comprises a car park area surfaced in crushed limestone gravel.

#### 2.2.2 Surrounding Area

The site is bordered by residential properties to the north-west and south-east; to the south-west (rear) the land rises up into a grassed field used for sheep grazing. Further residential properties line the opposite side of the road, their rear gardens backing on to Tref-y-nant Brook. Further afield, the local area was historically dominated by industrial operational premises which have since ceased trading, although evidence of their former presence is still visible. The Pontcysyllte Aqueduct, a Grade I listed structure, is situated roughly 850m to the south of the site.



### 3 SITE HISTORY

A search of available historic maps was undertaken to establish the previous land uses of the site. The maps discussed below are presented in Appendix B of this report.

#### 3.1 Summary of Site History

##### 3.1.1 On Site

The following table summarises the significant changes in historical use on site:

| Date first shown                        | Feature                                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1875                                    | Site undeveloped. Assumed to be an agricultural field. Residential properties on opposite (north-east) side of Tower Hill (road).                                  |
| 1899                                    | Site undeveloped. The site is intersected by a field boundary. Small buildings adjacent to the site. Further residential properties to the south-east of the site. |
| 1912 – 1992                             | Site undeveloped. Land use immediately surrounding the site remains unchanged.                                                                                     |
| 2006-present<br>(Aerial<br>Photography) | Site developed into car park. Residential properties to north-west of the site. Field remains to the south-west of site.                                           |

##### 3.1.2 Surrounding Area

The following table summarises the significant changes in historical land uses surrounding the site:

| Date first shown | Distance and direction from site boundary | Feature                                                                                      |
|------------------|-------------------------------------------|----------------------------------------------------------------------------------------------|
| 1875             | 120m SSE                                  | Shaft (not shown by 1899)                                                                    |
|                  | 150m S                                    | Shaft (not shown by 1899)                                                                    |
|                  | 240m S                                    | Clay Pit (Presumed backfilled by 1899)                                                       |
|                  | 150m SSE                                  | Tref-y-nant Fire Clay Works (site shown to expand by 1899; site presumed demolished by 1962) |
|                  | 250m E                                    | Burial Ground (site converted to full cemetery by 1899; site still active in present day)    |
|                  | 100m NE                                   | Duke of Wellington Public House (still active)                                               |
|                  | 185m W                                    | North to south orientated railway (shown as dismantled by 1988)                              |
|                  | 270m NW                                   | Shaft (Presumed backfilled and capped by 1899)                                               |
|                  | 290m NW                                   | Old Brick Works (Presumed demolished by 1899)                                                |
|                  | 200m NNW                                  | Weir                                                                                         |
| 1899             | 420m NE                                   | Old Shaft (Coal) (Presumed capped by 1912)                                                   |
|                  | 400m NE                                   | Old Shaft (Coal) (Presumed capped by 1912)                                                   |
|                  | 150m SE                                   | Shaft (Identified as Clay Shaft in 1912; disused by 1962)                                    |
|                  | 290m S                                    | Old Shaft (Coal) (Presumed backfilled and capped by 1962)                                    |
|                  | 150m NNW                                  | Old Shaft (Coal) (Presumed backfilled and capped by 1962)                                    |
|                  | 350m NE                                   | Old Shaft (Coal) (Presumed backfilled and capped by 1962)                                    |
| 1962             | 330m SE                                   | Old Limekiln (Presumed demolished by 1962)                                                   |
|                  | 330m SSE                                  | Old Kiln (Presumed demolished by 1962)                                                       |
| 1962             | 330m SW                                   | Large residential development                                                                |
| 1963             | 220m NNE                                  | Large residential development                                                                |
| 1963             | 200m SSE                                  | Dismantled railway                                                                           |
| 1988 onwards     | Local area                                | Continued residential development                                                            |



## 4 GEOLOGY

The following section details information published by the British Geological Survey (BGS) on geological maps of the area. Where readily available and relevant, Geological memoirs and other literature have been consulted along with the BGS website ([www.bgs.ac.uk](http://www.bgs.ac.uk)).

### 4.1 Published Geology

The documented geology of the site is summarised below:

|                   | <b>Map Reference</b>                  | <b>Geology</b>                                                                                                                                                                                                                                                                                                           |
|-------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Drift</i>      | BGS 1:50,000 Sheet 121 Wrexham (1993) | <b>No drift deposits identified on site on the map consulted.</b><br><i>This is backed up by rock strata being noted directly below a thin topsoil layer in a cutting off the south-west side of Tower Hill (road), about 50m north-west of the site. This cutting is shown on 2009 Google Earth Streetview Imagery.</i> |
| <i>Solid</i>      | BGS 1:50,000 Sheet 121 Wrexham (1993) | <b>Pennine Lower Coal Measures Formation –</b><br>Mudstone, Siltstone and Sandstone<br><b>Cefn Rock Formation- Sandstone</b>                                                                                                                                                                                             |
| <i>Structural</i> | BGS 1:50,000 Sheet 121 Wrexham (1993) | Three (3 No.) faults situated within 250m of the site.                                                                                                                                                                                                                                                                   |

Superficial Geology



Bedrock Geology with faults



### 4.2 Geological Features

The presence of recorded geological features such as BGS Mineral Sites, Man Made Mining Cavities or natural cavities within 250m of site are summarised below. If entries are present in a wider radius than 250m, further details are presented in Appendix C.

| <b>Data type</b>           | <b>Entries (On site)</b> | <b>Entries (0-250m)</b> |
|----------------------------|--------------------------|-------------------------|
| BGS Recorded Mineral Sites | -                        | -                       |
| Man Made Mining Cavities   | -                        | -                       |
| Natural Cavities           | -                        | -                       |



#### 4.2.1 BGS Recorded Mineral Sites

There are no BGS Recorded Mineral Sites within 250m of site.

#### 4.2.2 Man Made Mining Cavities

There are no Man Made Mining Cavities within 250m of site.

#### 4.2.3 Natural Cavities

There are no Natural Cavities within 250m of the site.

#### 4.2.4 Artificial Ground/Made Ground

Whilst not shown on the maps consulted, a shallow thickness of Made Ground is expected to be present on site, associated with the construction of the existing car park.

#### 4.2.5 Radon

The site lies within 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.

#### 4.2.6 Coal

The site lies within an area affected by Coal Mining and as such a coal report was obtained.

The Coal Mining Report summarises the following:

- The site is not situated in a surface area that could be affected by any past or present recorded underground or opencast coal mining
- The site is not situated in an area where a coal abstraction licence has been applied for and is unlikely to be applied for in the future
- No notices have been given, under Section 46 of the Coal Mining Subsidence Act (1991), stating that the land is at risk of subsidence.
- There are no known coal mine entries within, or within 20m of the site boundary.
- The Coal Authority has no record of a mine gas emission requiring action.

#### 4.2.7 Brine

The site does not lie within an area affected by Brine subsidence and as such a Brine report was not obtained.

### 4.3 Hydrology

The presence of any hydrological licences and incidents within 250m of the proposed site is summarised below. If entries are present in a wider radius than 250m, further details are presented in Appendix C.

| Data type                                | Entries (On site) | Entries (0-250m) |
|------------------------------------------|-------------------|------------------|
| Discharge Consents                       | -                 | <b>1 No.</b>     |
| Pollution Incidents to Controlled Waters | -                 | <b>7 No.</b>     |
| Water Abstractions                       | -                 | -                |
| Groundwater Source Protection Zones      | -                 | -                |
| Nearest Surface Water Feature            | -                 | <b>1 No.</b>     |

#### 4.3.1 Discharge Consents

A single (1 No.) Discharge Consent was identified approximately 72m north of the site in Tref-y-nant Brook. The consent was revoked in 1993 by Natural Resources Wales.



#### 4.3.2 Pollution Incidents to Controlled Waters

There are Seven (7 No.) entries for Pollution Incidents to Controlled Waters within 250m of the site. The nearest entry relates to a garage off Station Road in Acrefair, 43m to the south-east of the site. Here, a run-off of light oil polluted the River Dee. This Category 3 – Minor Incident occurred on 30<sup>th</sup> December 1993.

#### 4.3.3 Water Abstractions

There are no Water Abstractions identified within 250m of the site.

#### 4.3.4 Groundwater Source Protection Zones

There are no entries for Groundwater Source Protections Zones.

#### 4.3.5 Nearest Surface Water Feature

The nearest surface water feature is the northwest to southeast orientated Tref-y-nant Brook which is situated approximately 25m north of the site.

#### 4.4 Hydrogeology:

The Groundwater Vulnerability map is summarised in the table below:

| Geology | Formation                                           | Aquifer Type  | Permeability |
|---------|-----------------------------------------------------|---------------|--------------|
| Drift   | Drift absent                                        | Drift absent  | Drift absent |
| Solid   | Pennine Lower Coal Measures<br>Cefyn Rock Formation | Secondary - A | High         |



## 5 ENVIRONMENTAL DATA

The following section details environmental data available for the site and the surrounding area. Full details can be found in the Envirocheck Report by Landmark located in Appendix C.

The tables below summarise the presence/absence of any waste, hazardous substance sites and/or industrial land uses within 250m of the proposed site with details provided. For entries present in a radius wider than 250m, further details are provided in Appendix C.

### 5.1 Pollution Controls/Registers

| Data Type                                                    | Entries (On site) | Entries (0-250m) |
|--------------------------------------------------------------|-------------------|------------------|
| Integrated Pollution Controls                                | -                 | -                |
| Integrated/Local Authority Pollution Prevention and Controls | -                 | -                |
| Prosecutions Relating to Authorised Processes                | -                 | -                |
| Registered Radioactive Substances                            | -                 | -                |
| Substantiated Pollution Incident Register                    | -                 | -                |

#### 5.1.1 Integrated/Local Authority Pollution Prevention and Controls

There are no Integrated/Local Authority Pollution Prevention and Controls within 250m of the site.

#### 5.1.2 Prosecutions Relating to Authorised Processes

There are no Prosecutions Relating to Authorised Processes within 250m of the site.

#### 5.1.3 Registered Radioactive Substances

There are no Registered Radioactive Substances within 250m of the site.

#### 5.1.4 Substantiated Pollution Incident Register

There are no Substantiated Pollution Incidents within 250m of the site.

### 5.2 Waste

| Data Type                                                                | Entries (On Site) | Entries (0-250m) |
|--------------------------------------------------------------------------|-------------------|------------------|
| BGS Recorded Landfill Sites                                              | -                 | -                |
| Historic Landfill Sites                                                  | -                 | <b>1 No.</b>     |
| Integrated Pollution Control Registered Waste Sites                      | -                 | -                |
| Licensed Waste Management Facilities (Landfill Boundaries and Locations) | -                 | -                |
| Local Authority Recorded Landfill Sites                                  | -                 | -                |
| Potentially Infilled Land (Non-Water)                                    | -                 | -                |
| Potentially Infilled Land (Water)                                        | -                 | -                |
| Registered Landfill Sites                                                | -                 | -                |
| Registered Waste Transfer Sites                                          | -                 | -                |
| Registered Waste Treatment or Disposal Sites                             | -                 | -                |

#### 5.2.1 BGS Recorded Landfill Sites

There are no entries for BGS Recorded Landfill Sites within 250m of the site.



### 5.2.2 Historic Landfill Sites

There is a single (1 No.) entry for a Historical Landfill Site, approximately 125m southeast of the site. The site was run by J C Edward at the former Edwards Brick Yard between 1987-1995, and was licensed to accept inert industrial and household waste.

### 5.2.3 Integrated Pollution Control Registered Waste Sites

There are no entries for Integrated Pollution Control Registered Waste Sites within 250m of the site.

### 5.2.4 Licensed Waste Management Facilities (Landfill Boundaries & Locations)

There are no entries for Licensed Waste Management Facilities (Landfill Boundaries & Locations) within 250m of the site.

### 5.2.5 Local Authority Recorded Landfill Sites

There are no entries for Local Authority Recorded Landfill Sites within 250m of the site.

### 5.2.6 Potentially Infilled Land (Non-Water)

There are no entries for Potentially Infilled Land (Non-Water) within 250m of the site. However, the historical maps indicate a number of Clay Pits to be present between 1872 – 1912 which are no longer shown by 1962. It is assumed that these areas have been backfilled, however the nature of the backfill material is not known.

### 5.2.7 Potentially Infilled Land (Water)

There are no entries for Potentially Infilled Land (Water) within 250m of the site.

### 5.2.8 Registered Landfill Sites

There are no entries for Registered Landfill Sites within 250m of the site.

### 5.2.9 Registered Waste Transfer Sites

There are no entries for Registered Waste Transfer Sites within 250m of the site.

### 5.2.10 Registered Waste Treatment or Disposal Sites

There are no entries for Registered Waste Treatment or Disposal Sites within 250m of the site.

## 5.3 Hazardous Sites

| Data Type                                                 | Entries (On Site) | Entries (0-1000m) |
|-----------------------------------------------------------|-------------------|-------------------|
| COMAH/Explosive sites/NIHHS/Planning Hazardous Substances | -                 | 13 No.            |

## 5.4 Industrial Land Uses

| Data type                                           | Entries (On Site) | Entries (0-250m) |
|-----------------------------------------------------|-------------------|------------------|
| Contemporary Trade Directory Entries                | -                 | 1 No.            |
| Fuel Station Entries                                | -                 | -                |
| 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 | -                 | -                |
| Gas Pipelines                                       | -                 | -                |



#### 5.4.1 Contemporary Trade Directory Entries

There is a single (1 No.) Contemporary Trade Directory entry within 250m of site, as detailed below.

| Map ID | Details                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 197    | <b>Contemporary Trade Directory Entries</b><br>Name: S E Jones (Acrefair) Ltd<br>Location: Trefynant Offices, Trefynant Park, Acrefair, Wrexham, Clwyd, LL14 3GR<br>Classification: Road Haulage Services<br>Status: Inactive<br>Positional Accuracy: Automatically positioned to the address | A135E (E)                              | 80                           | -       | 327307<br>342811 |

#### 5.4.2 Fuel Station Entries

There are no entries for Fuel Stations within 250m of the site.

#### 5.4.3 Points of Interest – Commercial Services

There are no entries for Points of Interest – Commercial Services within 250m of the site.

#### 5.4.4 Points of Interest – Education and Health

There are no entries for Points of Interest – Education and Health within 250m of the site.

#### 5.4.5 Points of Interest – Manufacturing and Production

There are no entries for Points of Interest – Manufacturing and Production within 250m of the site.

#### 5.4.6 Points of Interest – Public Infrastructure

There are no entries for Points of Interest – Public Infrastructure within 250m of the site

#### 5.4.7 Points of Interest – Recreational and Environmental

There are no entries for Points of Interest – Recreational and Environmental within 250m of the site

#### 5.4.8 Gas Pipelines

There are no entries for Gas Pipelines within 250m of site.



## 6 RISK ASSESSMENT

The main objective of this assessment is to determine whether there is a potential for the land in question to be defined as contaminated under the definition of UK legislation, Part IIA of the Environmental Protection Act 1990, i.e. "**Contaminated land** is land which, because of substances in, on or under it, presents a significant possibility of significant harm (SPOSH) to human health or other specified receptors."

The Model Procedures for the Management of Land Contamination (CLR11) provide guidance and the technical framework for the assessment of land potentially affected by contamination using a risk based approach. The legislation and guidance define risk in the following ways:

*"Risk means the combination of: (a) the likelihood that harm, or pollution of water, will occur as a result of contaminants in, on or under the land; and (b) the scale and seriousness of such harm or pollution if it did occur"* **Environmental Protection Act 1990 :Part 2A**

Or

*"Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence"* **CLR11 Model Procedures for the Management of Land Contamination DEFRA 2004**

The CLR11 guidance uses a Source – Pathway - Receptor model to generate a Preliminary Risk Assessment based on the probability of a source to contaminate and the consequence that land contamination might have on site specific receptors. Each component can be defined as follows:

(a) A "source" is a substance which has the potential to cause significant harm to a relevant receptors, or to cause significant pollution of controlled waters.

(b) A "receptor" is a feature that could be adversely affected by a contaminant, for example a person, an organism, an ecosystem, property, or controlled waters.

(c) A "pathway" is a linkage through which a receptor is or might be affected by a source.

For there to be Significant Possibility of Significant Harm linkages (Pathway's) must exist between the Source and the Receptor. If no linkage is proved then the risk can be deemed significantly reduced (Very low or low).

The principles set out within **CIRIA C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice** have been adopted in order to quantify potential risks via risk estimation and risk evaluation in the following site specific risk assessment.

Please refer to Appendix D to understand the assessment methodology for the following tables.



## 6.1 Potential site specific sources of contamination

The table below details the most significant sources of contamination, identified within the preceding Desk Study. The **probability** of contamination is therefore quantified:

| Source Distance/Direction                                                                       | Receptors                | Probability of Contamination Linkage | Discussion on Potential Source-Pathway Linkage                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>On Site</b>                                                                                  |                          |                                      |                                                                                                                                                                                                                                                                                 |
| Chemical contaminants from Made Ground (On Site)                                                | Construction Workers     | Likely (3)                           | Since construction has not been completed on the site, a contamination pathway could still exist for Construction workers.                                                                                                                                                      |
|                                                                                                 | Future Site users        | Likely (3)                           | Any potential pathway to future site users has been broken by the new concrete floor slab. Presumably hard cover will provide a barrier to contamination. Geotechnics Limited are not aware of any proposed soft landscaped areas on the site.                                  |
|                                                                                                 | Structures & Foundations | Likely (3)                           | No contamination testing data is currently available for the Made Ground currently present on site, therefore there is a potential for the material to be a source of contaminants including Heavy Metals, TPH, PAH, Asbestos and ground gases.                                 |
|                                                                                                 | Services                 | Likely (3)                           | Anticipated shallow Coal Measures bedrock increases risk of ground gas presence.                                                                                                                                                                                                |
|                                                                                                 | Groundwater Aquifer      | Likely (3)                           | The lack of superficial deposits forming an aquiclude at the site allows the potential for downward migration of contaminants from the site into the underlying aquifer.                                                                                                        |
|                                                                                                 | Controlled Surface Water | Low Likelihood (2)                   | It is not currently known where off-site drainage discharges to, and therefore leaching of contaminants into drainage pathways could still impact controlled surface waters.                                                                                                    |
| <b>Surrounding Area</b>                                                                         |                          |                                      |                                                                                                                                                                                                                                                                                 |
| Contaminated land and ground gas from historic landfill site (125m SE of site)                  | Construction Workers     | Unlikely (1)                         | The Edwards Brickyard Landfill Site was historically operated between 1987-1995 and was licensed to accept inert and household waste.                                                                                                                                           |
|                                                                                                 | Future Site Users        | Low Likelihood (2)                   |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Structures & Foundations | Unlikely (1)                         | The risk of direct contact with the potential contaminants by construction workers or future site users is considered to be unlikely.                                                                                                                                           |
|                                                                                                 | Services                 | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Groundwater Aquifer      | Likely (3)                           | There is currently no information available regarding the construction of the landfill site, which leaves open the possibility that the site was not suitably lined. It is considered that there is potential pathway for leachates to enter the underlying bedrock aquifer.    |
|                                                                                                 | Controlled Surface Water | Unlikely (1)                         | It is considered unlikely, due to the distance and difference in elevation between the landfill site and site, that there is a pathway for contaminant migration which will effect end-users.                                                                                   |
| Potential Chemical contaminants from Tref-y-nant Fire Clay (Brick) Works (150m SSE of the site) | Construction Workers     | Unlikely (1)                         | The Tref-y-nant Fire Clay (Brick) Works ceased operations in the mid-1950's, and its buildings and kilns were shown to be demolished by 1962.                                                                                                                                   |
|                                                                                                 | Future Site users        | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Structures & Foundations | Unlikely (1)                         | It is considered unlikely, due to the difference in distance and elevation between the former brickworks site and the site, that there is a clear pathway for contaminant migration which will effect end users.                                                                |
|                                                                                                 | Services                 | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Groundwater              | Unlikely (1)                         | The Glacial Till shown to be underlying the former brickworks site should act as an aquiclude, preventing downward migration of contaminants into the bedrock aquifer.                                                                                                          |
|                                                                                                 | Surface Water            | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |
| Ground gas and contaminants from Old Shafts and infilled land surrounding the site              | Construction Workers     | Likely (3)                           | Many of the old coal shafts and clay pits are not shown to be present beyond 1962 on the maps consulted and therefore are assumed to have been backfilled by this time.                                                                                                         |
|                                                                                                 | Future Site users        | Likely (3)                           |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Structures & Foundations | Unlikely (1)                         | The presence of former shallow workings near the site increases the possibility for ground gas to be present which will impact the future site users. The lack of superficial deposits at the site creates a pathway for mine gasses to migrate and vent on the site.           |
|                                                                                                 | Services                 | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |
|                                                                                                 | Groundwater              | Likely (3)                           | In addition, there is a potential for leachate contamination to be present as a result of the shallow workings and the backfill material used. Should these leachates be suitably mobile, it is considered likely that they could have impacted the underlying bedrock aquifer. |
|                                                                                                 | Surface Water            | Unlikely (1)                         |                                                                                                                                                                                                                                                                                 |



## 6.2 Sensitivity of potential receptors

The table below details receptors identified in the preceding Desk Study and the potential **Severity (Consequence)** of contamination:

| Receptors                                     | Potential Severity (Consequence) of Impact | Discussion on Potential Pathway – Receptor Linkage                                                                                                                                                                                                                                         |
|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Workers                          | Medium (3)                                 | Construction workers may have direct contact with contaminated Made Ground and may also be affected through inhalation of vapours or ground gas.                                                                                                                                           |
| Future Site users (Staff, Children, Visitors) | Medium (3)                                 | Future site users are likely to consist mainly of children and staff who could be exposed to indoor inhalation of ground gas or vapours, or direct dermal contact with or ingestion of contaminants within the Made Ground.                                                                |
| Structures & Foundations                      | Medium (3)                                 | Sulphates or aggressive compounds present within the Made Ground could attack buried concrete used in future building foundations.                                                                                                                                                         |
| Services                                      | Medium (3)                                 | Sulphates or aggressive compounds present within the Made Ground could detrimentally affect buried services in the ground.                                                                                                                                                                 |
| Groundwater                                   | Mild (2)                                   | Whilst it is considered unlikely that the bedrock aquifer underlying the site is going to be used as a potable water supply, the lack of superficial deposits forming an aquiclude at the site allows the potential for downward migration of contaminants from the site into the aquifer. |
| Surface Water                                 | Minor (1)                                  | There are no sources of surface water on site. However, It is not currently known where off-site drainage discharges to, and therefore leaching of contaminants from the Made Ground into drainage pathways could still impact controlled surface waters.                                  |



### 6.3 Conceptual Site Model

The following table considers the source-pathway-receptor relationships that have a **potentially active linkage** and quantifies the risk of each source causing significant harm to a designated receptor.

| Potential Sources (distance)                                                                    | Potential Pathways                          | Potential Receptors      | Probability of Contamination | Potential Severity | Risk                  |
|-------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------------------|--------------------|-----------------------|
| Chemical contaminants from Made Ground (on site)                                                | Direct dermal contact                       | Construction Workers     | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 | Ingestion                                   | Future Site users        | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 | Inhalation of vapours                       | Structures & Foundations | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 | vapours penetrating buildings               | Services                 | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 | Leaching into groundwater                   | Groundwater              | 3                            | 2                  | Moderate/Low Risk (6) |
|                                                                                                 | Attack on buried concrete / buried services | Surface Water            | 2                            | 1                  | Very Low Risk (2)     |
|                                                                                                 |                                             |                          |                              |                    |                       |
| Contaminated land and ground gas from historic landfill site (125m SE of site)                  | Inhalation of ground gas                    | Construction Workers     | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 |                                             | Future Site Users        | 2                            | 3                  | Moderate/Low Risk (6) |
|                                                                                                 | Ground gas penetrating buildings            | Structures & Foundations | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 |                                             | Services                 | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 | Leaching into groundwater                   | Groundwater              | 3                            | 2                  | Moderate/Low Risk (6) |
|                                                                                                 |                                             | Surface Water            | 1                            | 1                  | Very Low Risk (1)     |
| Potential Chemical contaminants from Tref-y-nant Fire Clay (Brick) Works (150m SSE of the site) | Direct dermal contact                       | Construction Workers     | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 | Ingestion                                   | Future Site Users        | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 | Leaching into Groundwater                   | Structures & Foundations | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 |                                             | Services                 | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 | Attack on buried concrete / buried services | Groundwater              | 1                            | 2                  | Very Low Risk (2)     |
|                                                                                                 |                                             | Surface Water            | 1                            | 1                  | Very Low Risk (1)     |
| Ground gas and contaminants from Old Shafts surrounding the site                                | Inhalation of vapours / ground gas          | Construction Workers     | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 |                                             | Future Site Users        | 3                            | 3                  | Moderate Risk (9)     |
|                                                                                                 | Vapours/gas penetrating building            | Structures & Foundations | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 |                                             | Services                 | 1                            | 3                  | Low Risk (3)          |
|                                                                                                 | Leaching of contaminants into groundwater   | Groundwater              | 3                            | 2                  | Moderate/Low Risk (6) |
|                                                                                                 |                                             | Surface Water            | 1                            | 1                  | Very Low Risk (1)     |
|                                                                                                 |                                             |                          |                              |                    |                       |



## 7 SCOPE OF GROUND INVESTIGATION

### 7.1 Objectives of the Ground Investigation

The objectives of the intrusive ground investigation will be to:

- Validate the 'Conceptual Site Model'.
- Validate the initial risk assessment.
- Benchmark the contamination status of the site.
- Provide data for the design of any remedial works that may be required.

### 7.2 Proposed Ground Investigation Scope

The following are recommendations for intrusive investigation informed by the qualitative risk assessment undertaken in Section 6.4.

- Hand dug inspection pits to retrieve environmental samples
- Windowless (Dynamic) Sample Borehole and installation of ground gas monitoring standpipe
- Environmental Sampling
- Proposed testing would include but not be limited to the following;
  - h) heavy metals suite (comprising; As, Cd (low level), Cr, Vi, Pb, Hg, Se, Ni, Cu, Zn)
  - i) Organic Matter
  - j) Sulphates
  - k) pH
  - l) speciated polycyclic aromatic hydrocarbons (PAH)
  - m) TPH CWG.
  - n) Asbestos testing within topsoil and Made Ground with quantification for positive samples.
- Should elevated determinant levels be encountered, additional leachate testing within soil and/or groundwater testing may be required.
- Gas Monitoring/Water Monitoring

Additional intrusive investigation may be required subject to this further assessment.

The scope of works should be agreed with the Local Authority prior to the intrusive ground investigation and as such may change.



## 8 REFERENCES

- 8.1 Investigation of Potentially contaminated sites BS10175:2011 +A2:2017.
- 8.2 Contaminated Land Risk Assessment; a Guide to Good Practice; CIRIA C552: 2001.
- 8.3 Assessment of risks to human health from land contamination: an overview of the development of guideline values and related research. EA, 2002.
- 8.4 CIRIA C665 'Assessing risks posed by hazardous ground gases for buildings' 2007 - for high rise residential / flats.
- 8.5 CLR11 'Model Procedures for the Management of Land Contamination' DEFRA 2004.
- 8.6 Department of the Environment, 1994, CLR Report No 1 'A framework for assessing the impact of contaminated land on groundwater and surface water'.
- 8.7 Department of the Environment, 1994, CLR Report No 2 'Guidance on Preliminary Site Inspection of Contaminated Land'.
- 8.8 Environmental Protection Act 1990: Part IIA, Contaminated Land Statutory Guidance, HM Government, April 2012.

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## APPENDICES

APPENDIX A – Site Location Plan & Site Walkover Photos

APPENDIX B – Historical Mapping

APPENDIX C – Envirocheck Report + Coal Mining Report

APPENDIX D – Contaminated Land Risk Assessment Methodology based on CIRIA 552:2001 (Tables)

APPENDIX E – Limitations

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## APPENDIX A

### Site Location Plan & Site Walkover Photos



The Site: Towers Day Nursery,  
Wrexham. LL14 3SG.  
National Grid Reference: SJ 272 428



Site entrance (looking south-west from Tower Hill Road)



Site entrance (looking north-east toward Tower Hill Road)



Existing gravel car park (looking south-east)



Existing structure on site (looking south-west towards read of site)



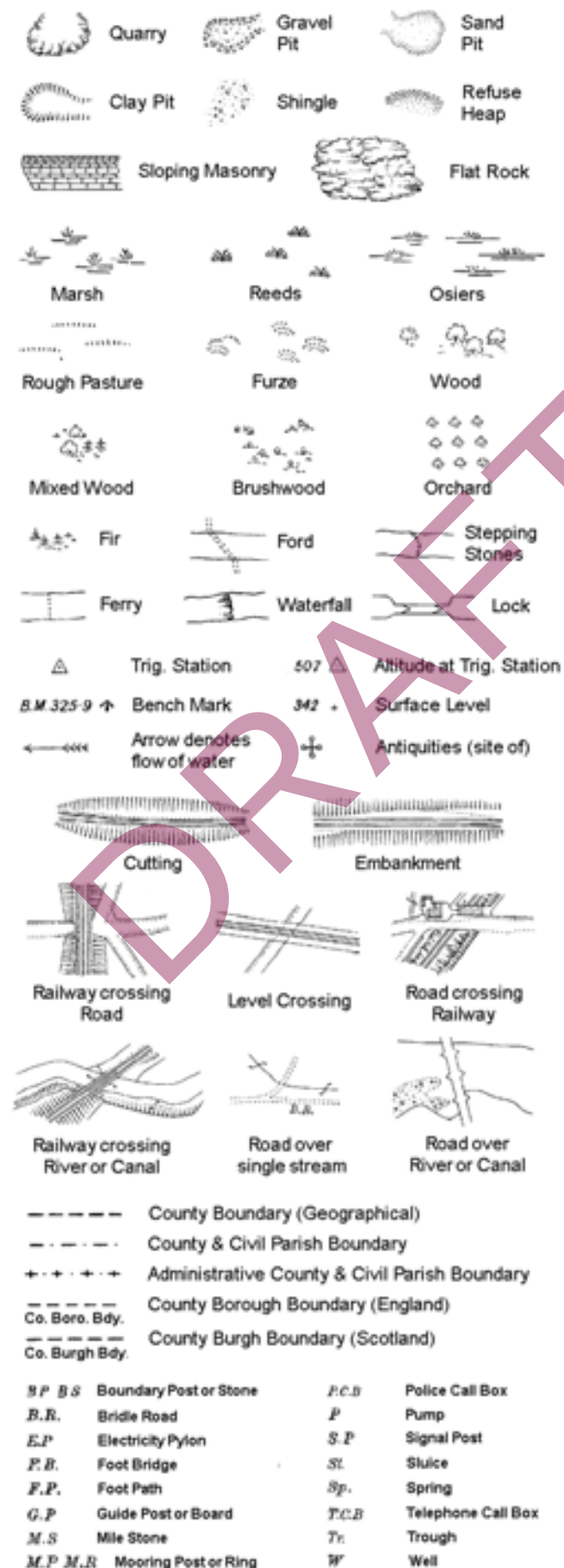
Stockpiles of excavated soil and construction materials at eastern boundary of the site

APPENDIX B  
Historical Mapping

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# Historical Mapping Legends

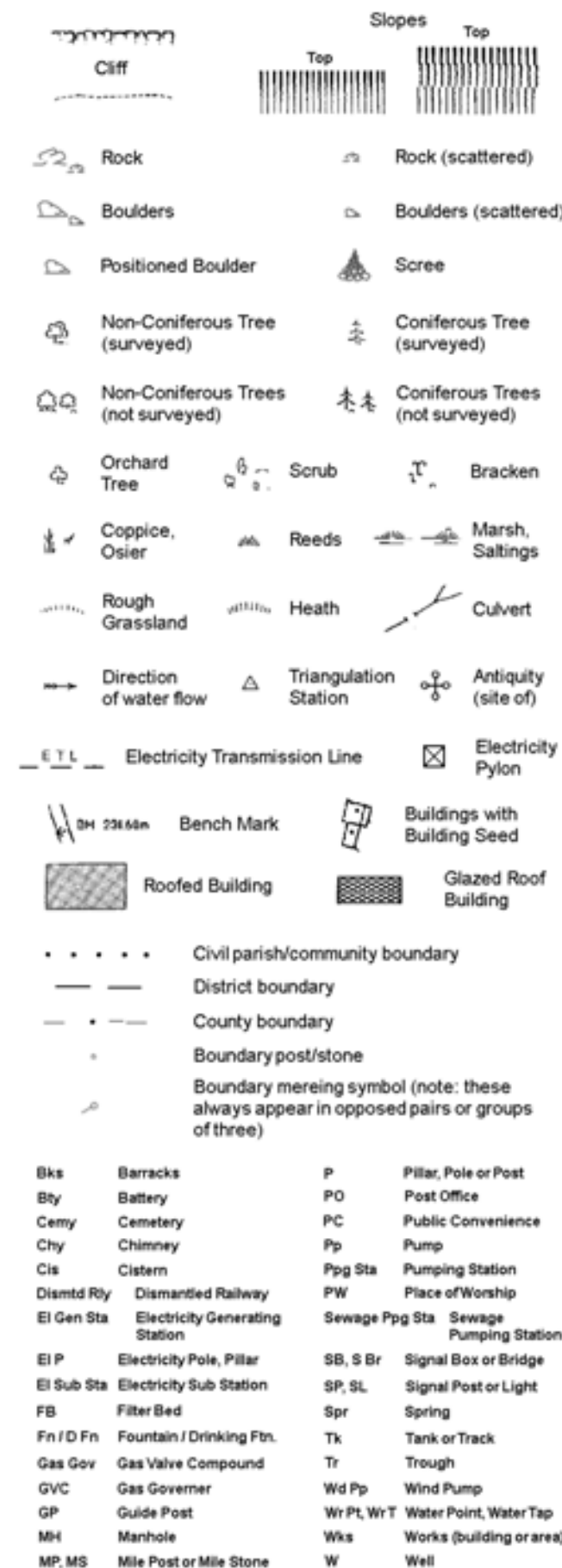
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



## Large-Scale National Grid Data 1:2,500 and 1:1,250

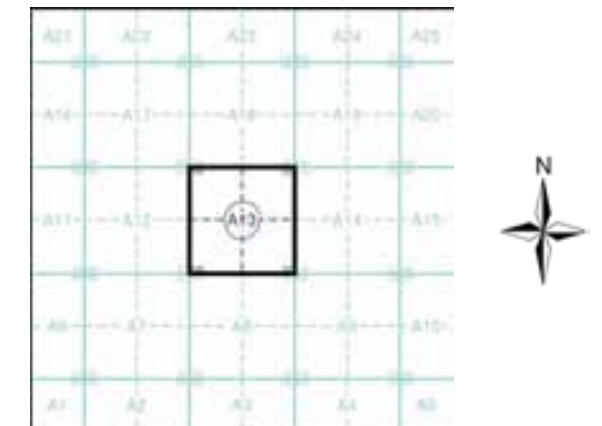


geotechnics

## Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Denbighshire                   | 1:2,500 | 1874 - 1875 | 2  |
| Denbighshire                   | 1:2,500 | 1899        | 3  |
| Denbighshire                   | 1:2,500 | 1912        | 4  |
| Ordnance Survey Plan           | 1:2,500 | 1962 - 1963 | 5  |
| Additional SIMs                | 1:2,500 | 1962 - 1963 | 6  |
| Additional SIMs                | 1:2,500 | 1988 - 1991 | 7  |
| Additional SIMs                | 1:2,500 | 1992        | 8  |
| Large-Scale National Grid Data | 1:2,500 | 1994        | 9  |

## Historical Map - Segment A13



## Order Details

Order Number: 191649715\_1\_1  
Customer Ref: PN193946  
National Grid Reference: 327220, 342840  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG

Landmark  
INFORMATION GROUP

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

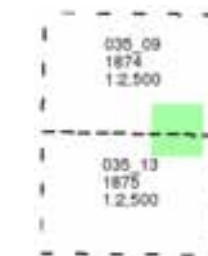
## Denbighshire

Published 1874 - 1875

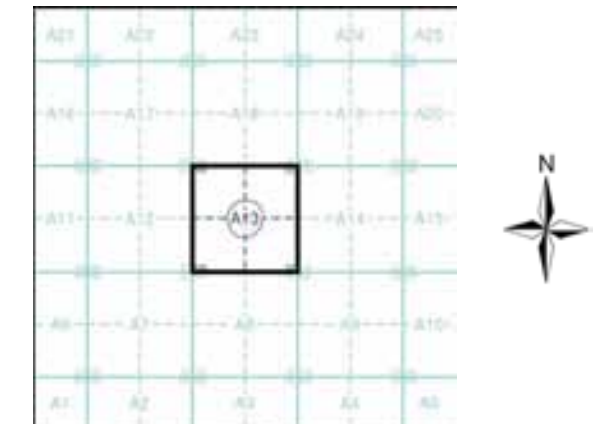
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

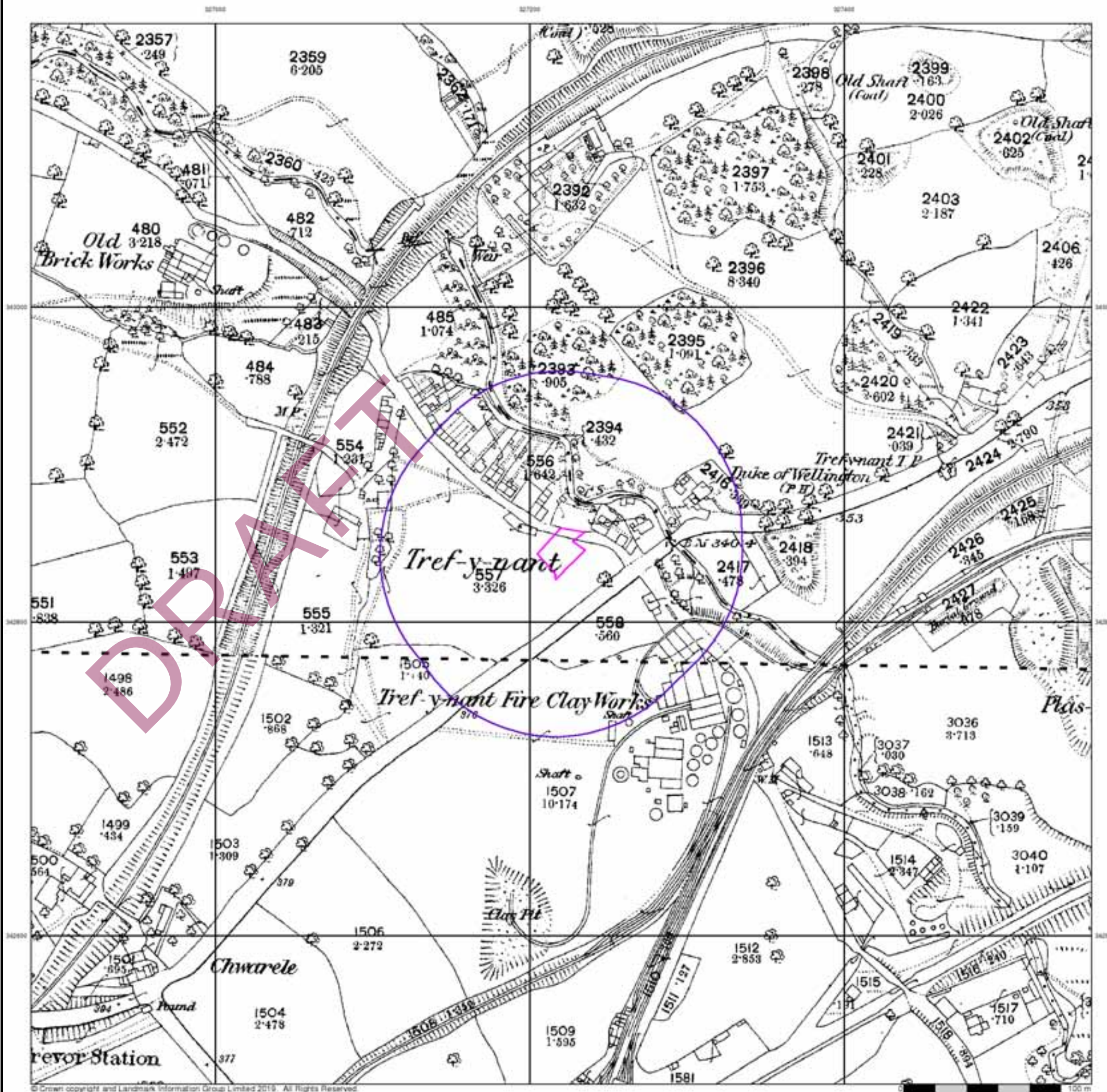


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 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 100

### Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



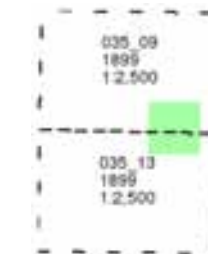
## Denbighshire

Published 1899

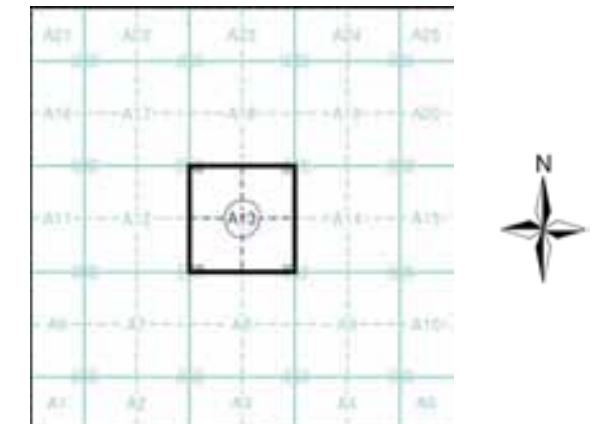
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### Map Name(s) and Date(s)



### Historical Map - Segment A13

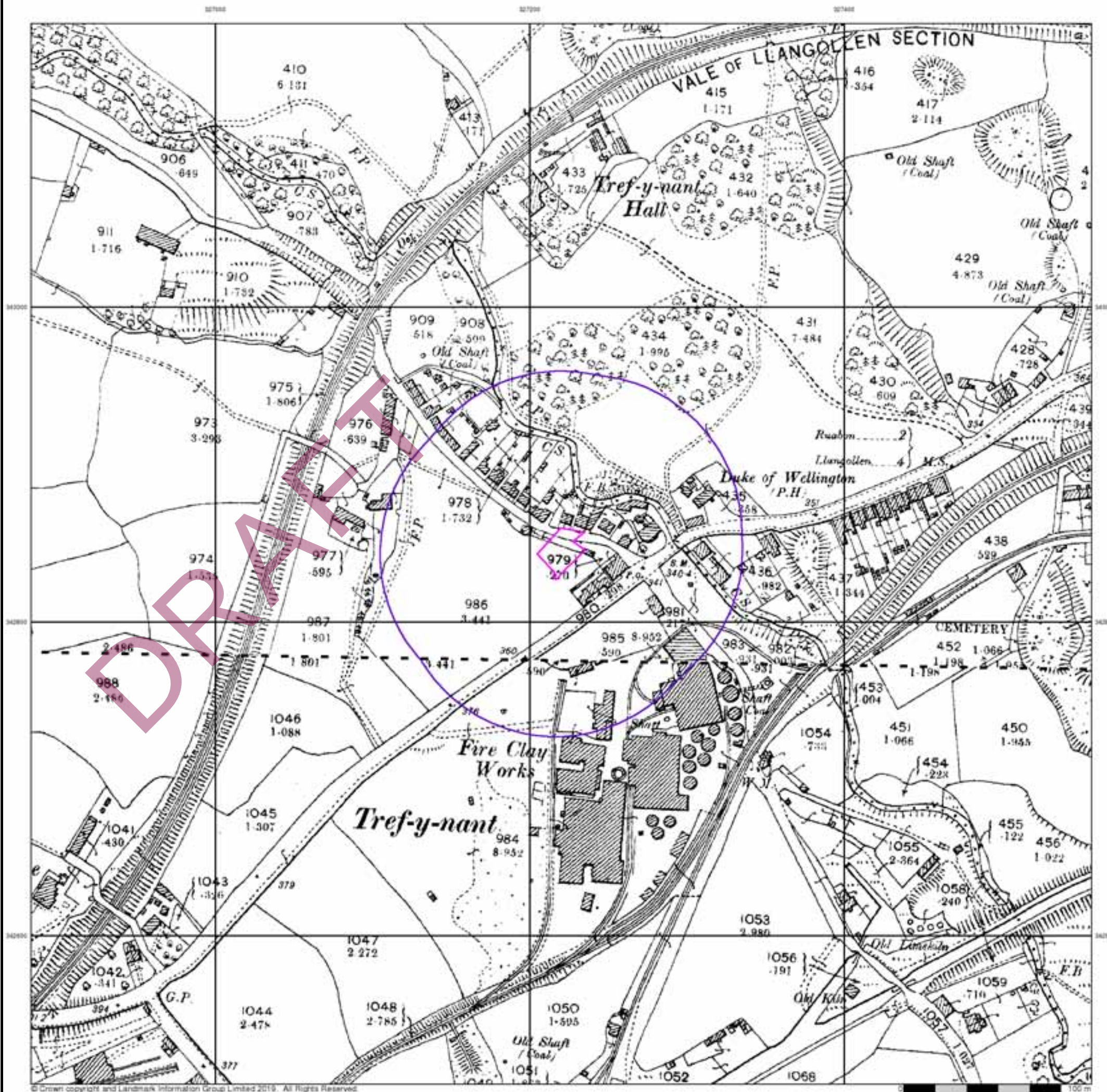


### Order Details

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 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 100

### Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



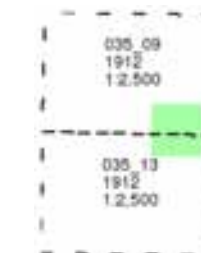
## Denbighshire

Published 1912

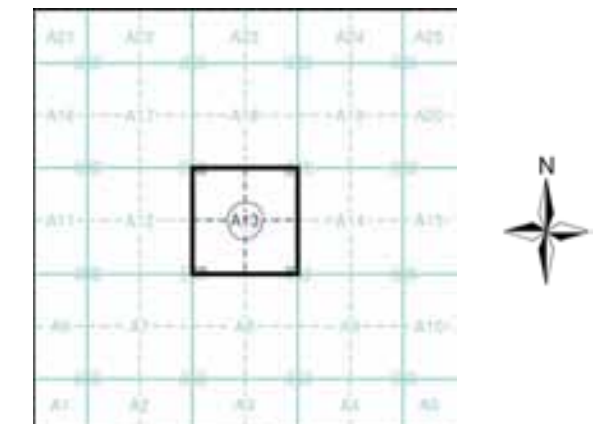
Source map scale - 1:2,500

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### Map Name(s) and Date(s)



### Historical Map - Segment A13

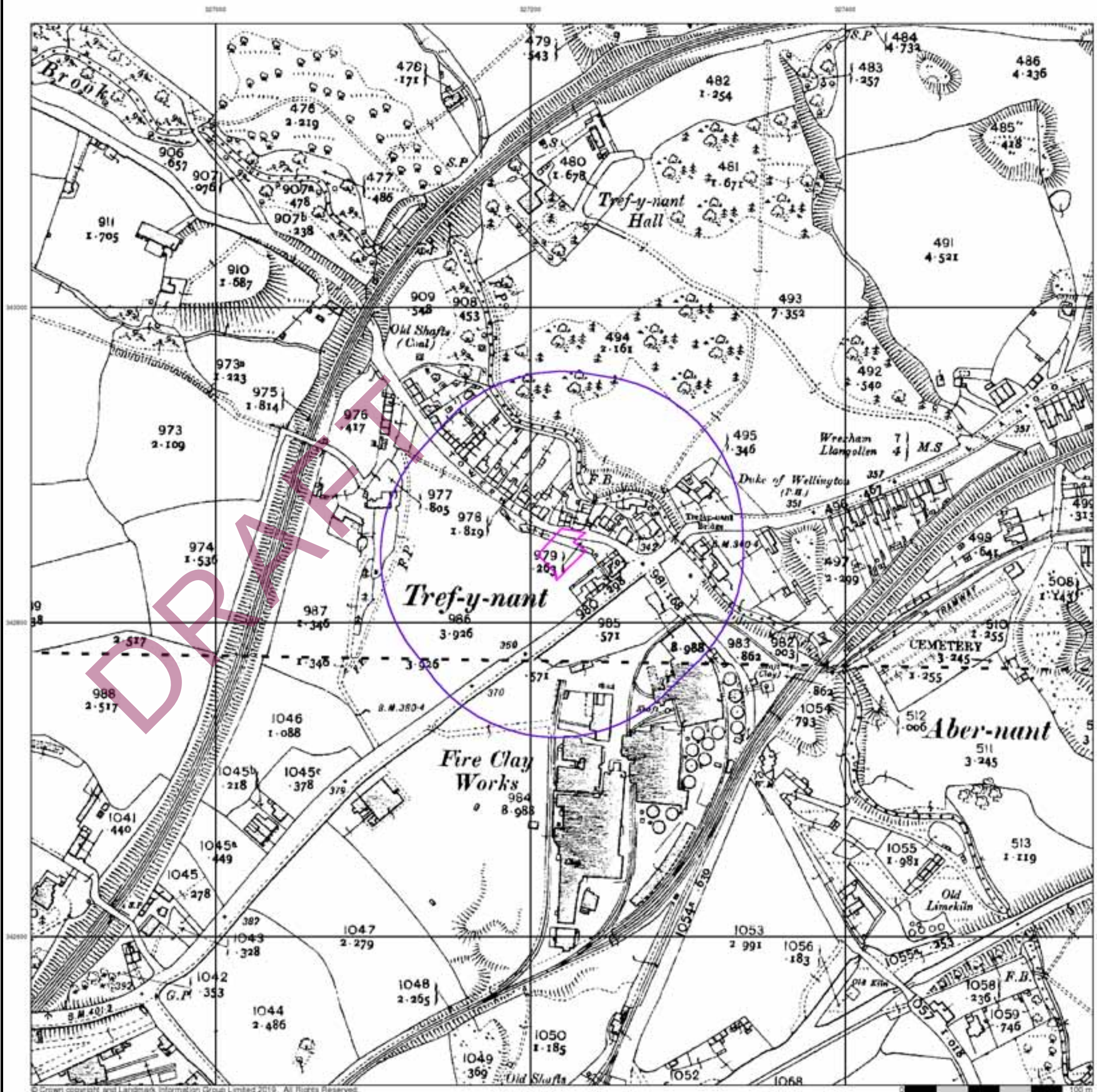


### Order Details

Order Number: 191649715\_1\_1  
Customer Ref: PN193946  
National Grid Reference: 327220, 342840  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

### Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



## Ordnance Survey Plan

Published 1962 - 1963

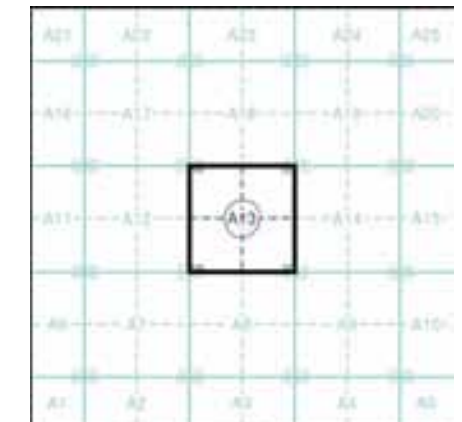
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)

|        |        |
|--------|--------|
| SJ2643 | SJ2743 |
| 1962   | 1962   |
| 12,500 | 12,500 |
| SJ2642 | SJ2742 |
| 1963   | 1963   |
| 12,500 | 12,500 |

## Historical Map - Segment A13

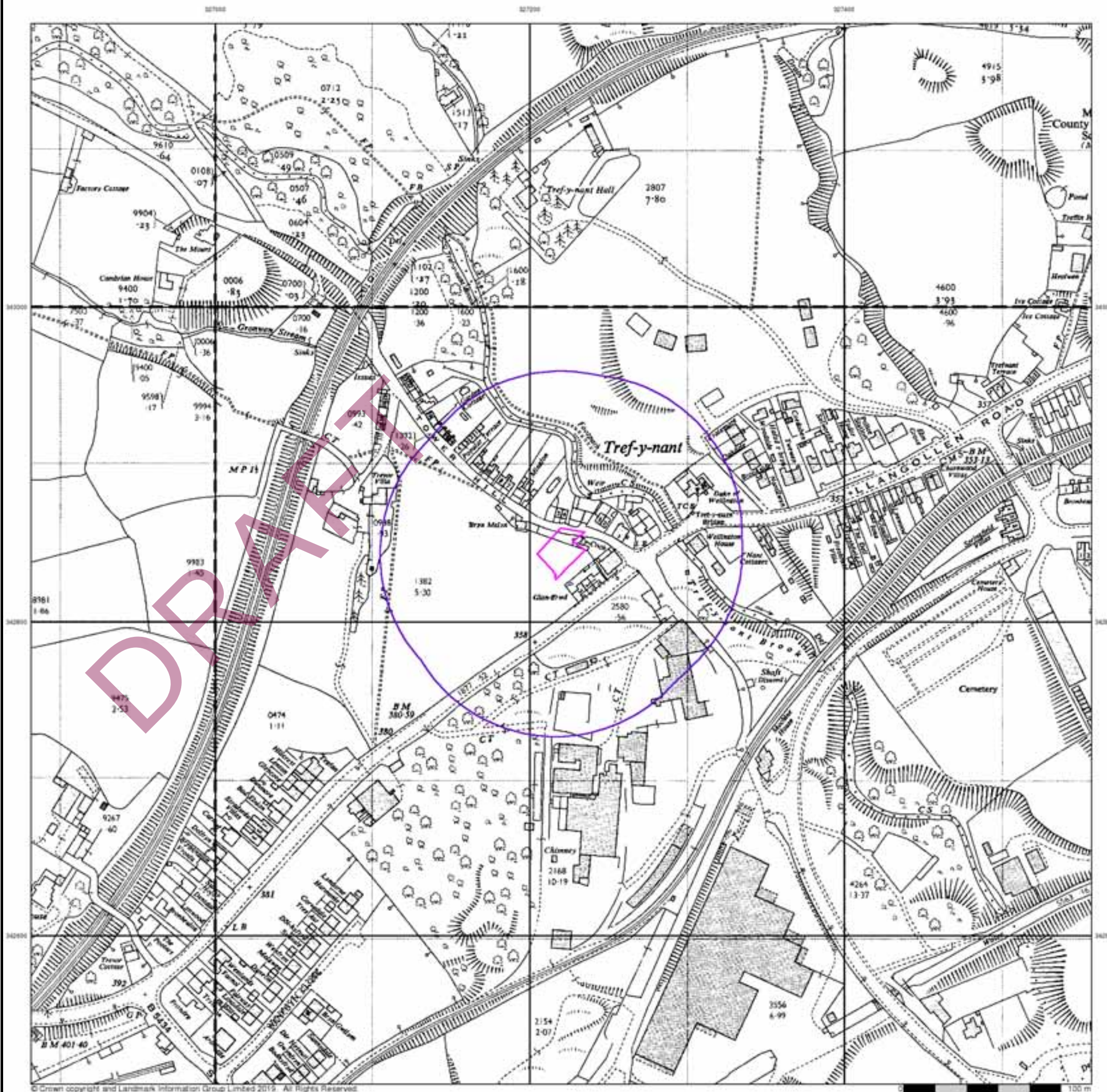


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 National Grid Reference: 327220, 342840  
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 Site Area (Ha): 0.06  
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The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



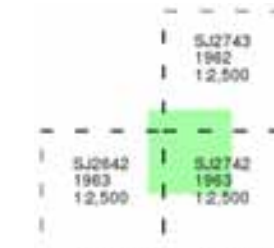
## Additional SIMs

Published 1962 - 1963

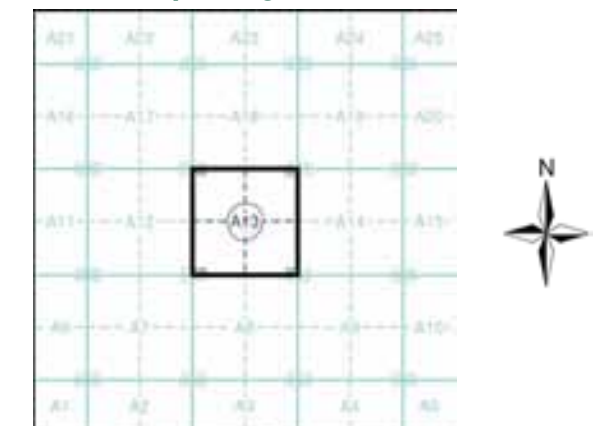
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13

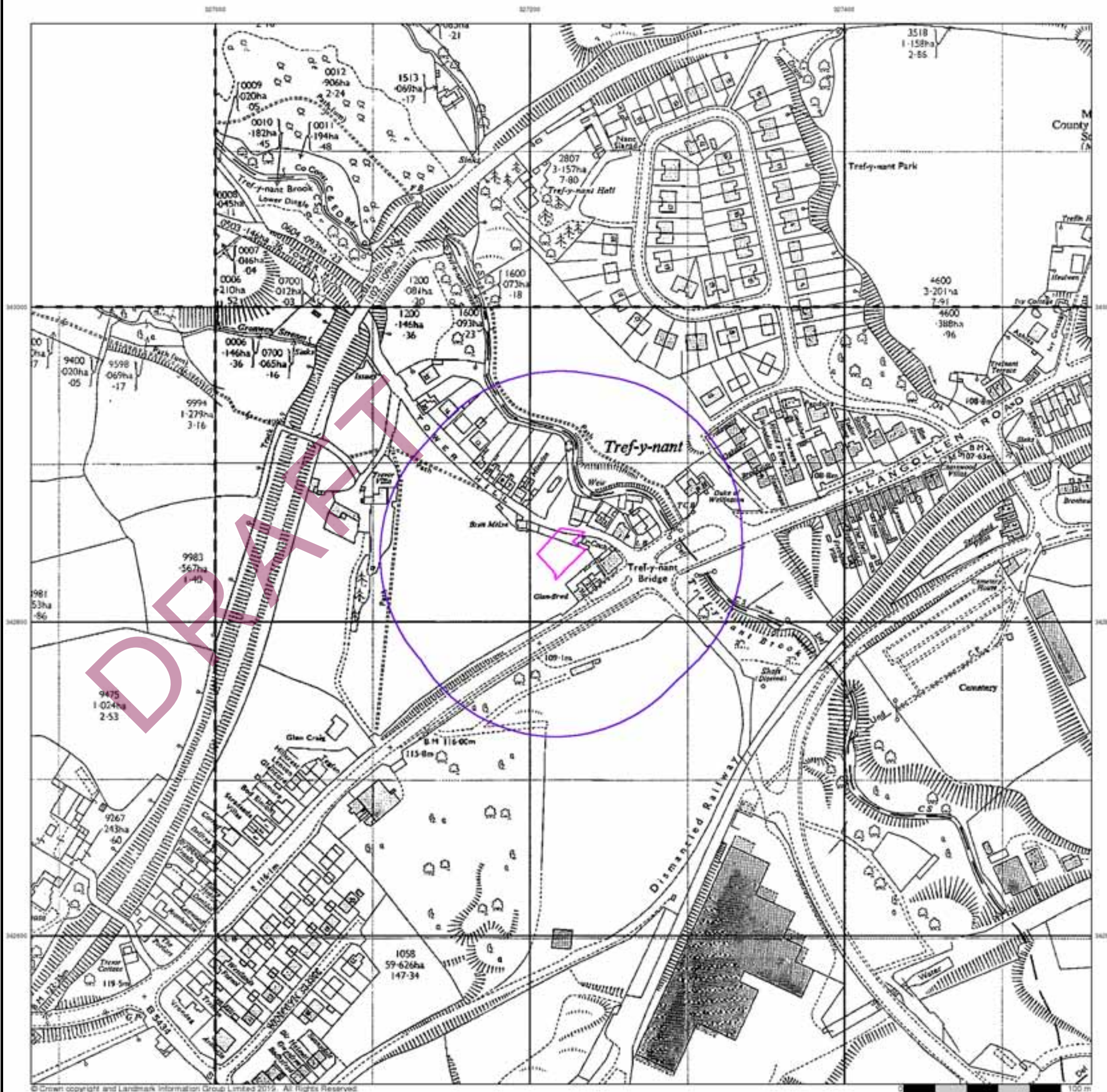


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## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



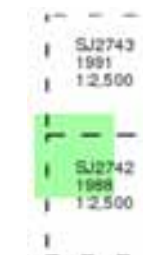
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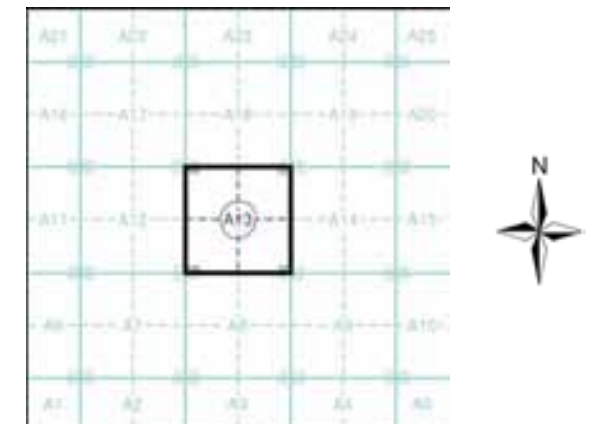
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13

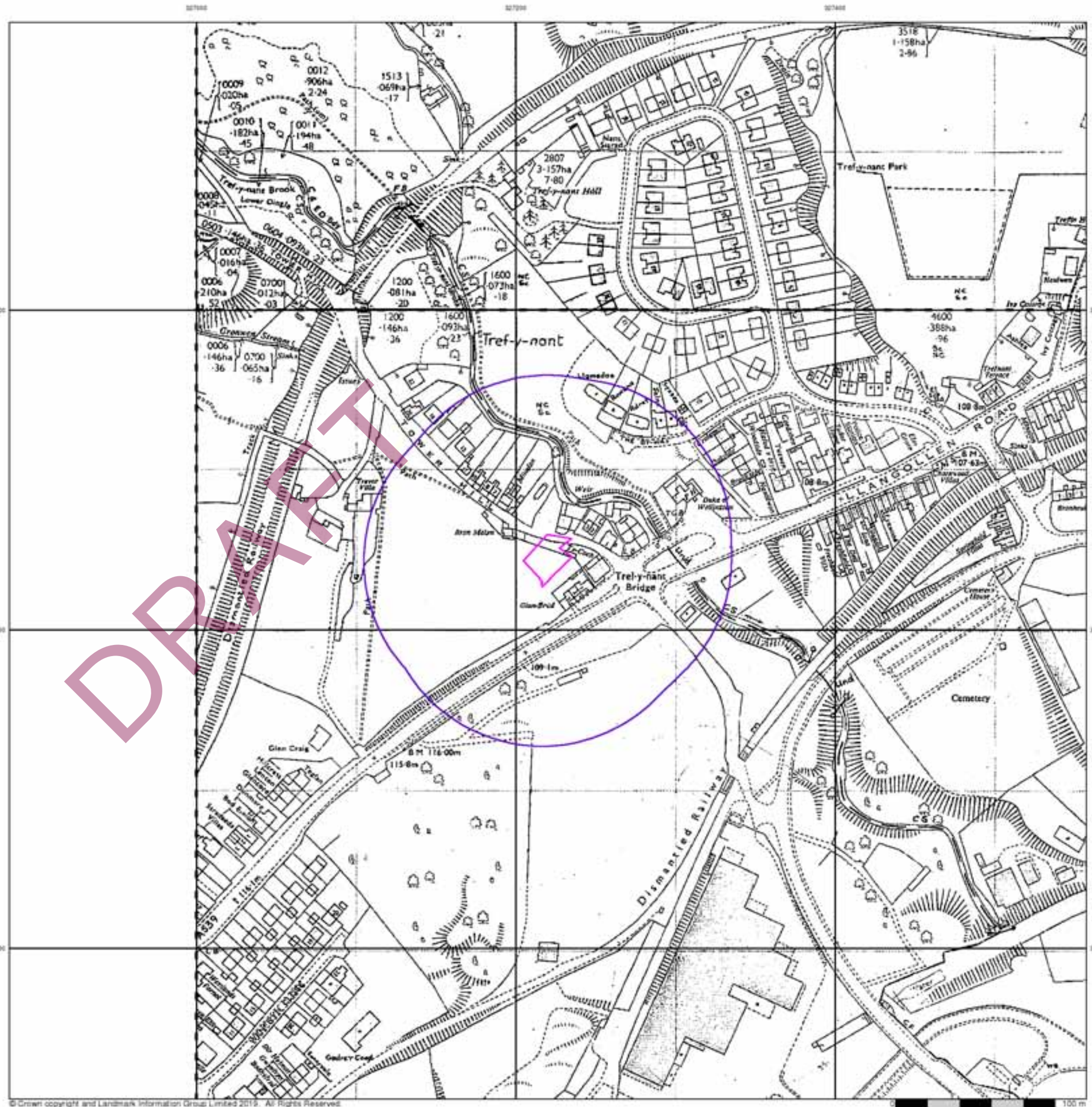


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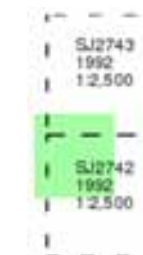
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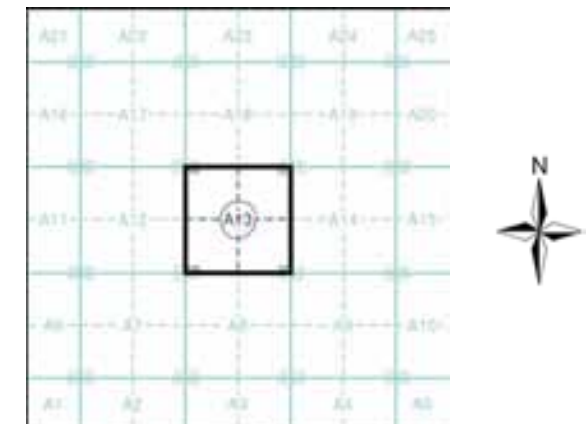
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

Order Number: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 100

## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG

## Large-Scale National Grid Data

Published 1994

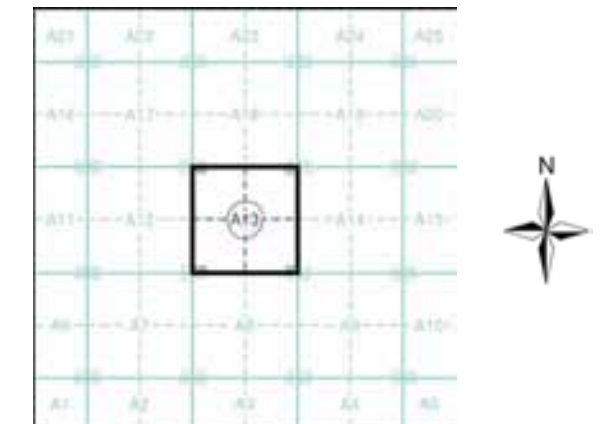
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|        |        |
|--------|--------|
| SJ2643 | SJ2743 |
| 1994   | 1994   |
| 12,500 | 12,500 |
| SJ2642 | SJ2742 |
| 1994   | 1994   |
| 12,500 | 12,500 |

### Historical Map - Segment A13

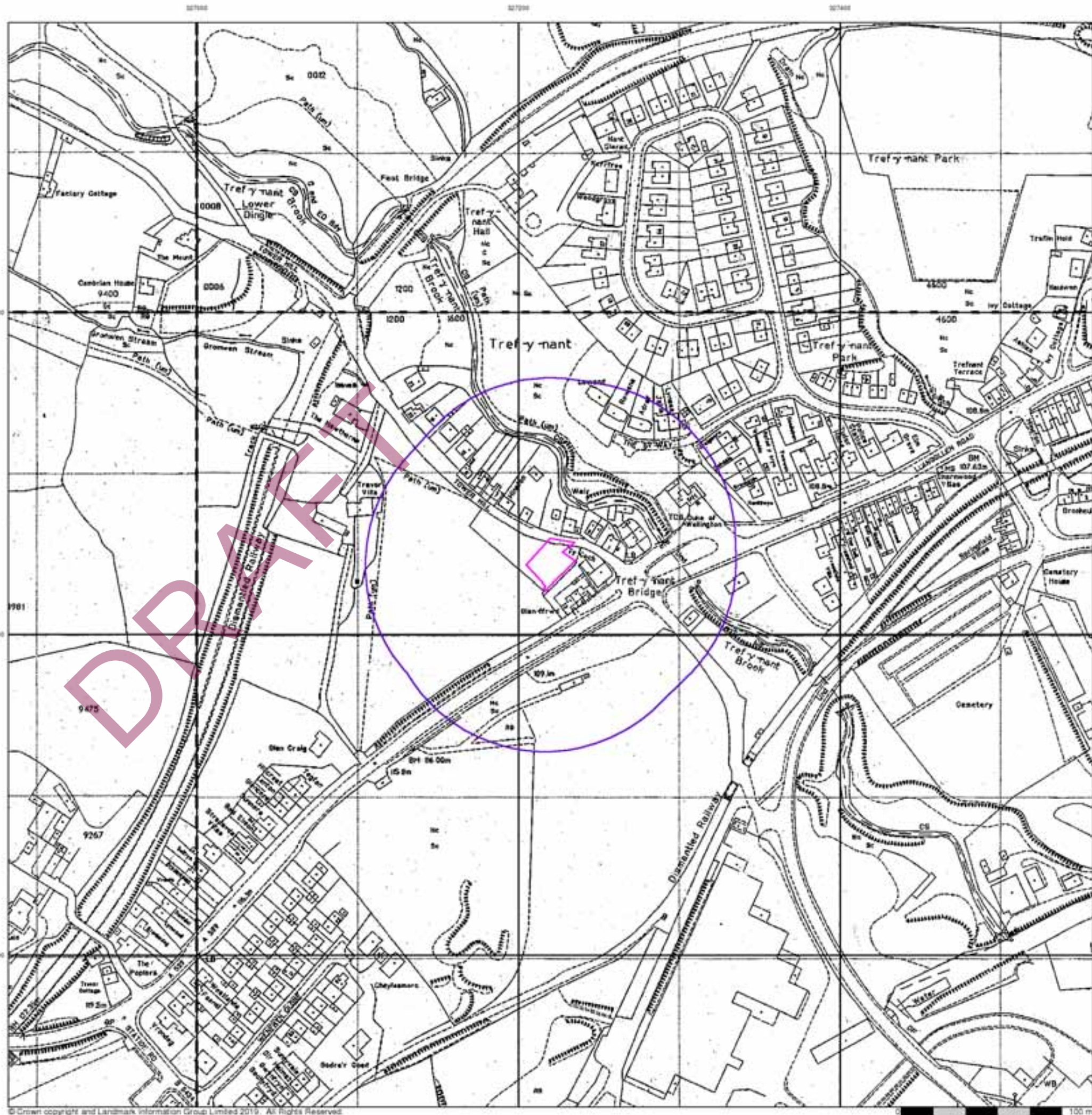


### Order Details

Order Number: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 100

### Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



## APPENDIX C

Envirocheck Report  
Coal Authority Report

DRAFT

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

191649715\_1\_1

**Customer Reference:**

PN193946

**National Grid Reference:**

327220, 342840

**Slice:**

A

**Site Area (Ha):**

0.06

**Search Buffer (m):**

1000

#### Site Details:

The Towers Day Nursery Ltd, Llangollen Road  
Acrefair  
WREXHAM  
LL14 3SG

#### Client Details:

Mr J Booth  
Geotechnics Ltd  
The Geotechnical Centre  
Unit 1 Borders Industrial Park  
River Lane  
Saltney  
CH4 8RJ

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 43          |
| Hazardous Substances  | 46          |
| Geological            | 48          |
| Industrial Land Use   | 56          |
| Sensitive Land Use    | 58          |
| Data Currency         | 61          |
| Data Suppliers        | 66          |
| Useful Contacts       | 67          |

## 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

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       | Yes         | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            | pg 2        |         | 1         | 2           | 20                          |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           | pg 8        |         |           | 3           |                             |
| Integrated Pollution Controls                                 | pg 8        |         |           | 23          |                             |
| Integrated Pollution Prevention And Control                   | pg 12       |         |           | 20          |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 17       |         |           |             | 1                           |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 17       |         | Yes       |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 17       |         | 7         | 4           | 19                          |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             |             |         |           |             |                             |
| River Quality                                                 | pg 22       | 1       |           |             | 4                           |
| River Quality Biology Sampling Points                         | pg 23       |         |           |             | 2                           |
| River Quality Chemistry Sampling Points                       | pg 25       |         | 1         | 1           | 1                           |
| Substantiated Pollution Incident Register                     | pg 27       |         |           |             | 2                           |
| Water Abstractions                                            | pg 28       |         |           |             | 7 (*6)                      |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability                                     | pg 31       | Yes     | n/a       | n/a         | n/a                         |
| Drift Deposits                                                |             |         | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 31       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 31       | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       |             |         |           |             |                             |
| Extreme Flooding from Rivers or Sea without Defences          | pg 31       |         | Yes       | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  | pg 31       |         | Yes       | 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 31       |         | 11        | 21          | 65                          |

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                             |
| Historical Landfill Sites                                           | pg 43       |         | 1         |             | 5                           |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                             |
| Local Authority Landfill Coverage                                   | pg 44       | 1       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             | pg 44       |         |           |             | 2                           |
| Registered Landfill Sites                                           | pg 44       |         |           |             | 4                           |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     | pg 46       |         |           | 3           |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) | pg 46       |         |           | 1           |                             |
| Planning Hazardous Substance Consents                               | pg 46       |         |           | 8           | 1                           |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 48       | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          | pg 48       |         |           | 5           | 31                          |
| CBSCB Compensation District                                         |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          | pg 54       | Yes     | n/a       | n/a         | n/a                         |
| Mining Instability                                                  | pg 54       | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            |             |         |           |             |                             |
| Natural Cavities                                                    |             |         |           |             |                             |
| Non Coal Mining Areas of Great Britain                              | pg 54       | Yes     |           | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 54       | Yes     |           | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 |             |         |           | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  |             |         |           | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 55       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 55       | Yes     |           | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 55       | Yes     |           | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              | pg 55       | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         | pg 55       | Yes     | n/a       | n/a         | n/a                         |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                             |
| Contemporary Trade Directory Entries | pg 56       |         | 1         | 6           | 15                          |
| Fuel Station Entries                 | pg 57       |         |           |             | 1                           |
| Gas Pipelines                        |             |         |           |             |                             |
| Underground Electrical Cables        |             |         |           |             |                             |
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     | pg 58       |         | 2         |             | 18                          |
| Areas of Adopted Green Belt          |             |         |           |             |                             |
| Areas of Unadopted Green Belt        |             |         |           |             |                             |
| Areas of Outstanding Natural Beauty  | pg 59       |         |           | 1           |                             |
| 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 59       |         |           |             | 1                           |
| Special Areas of Conservation        | pg 59       |         |           |             | 1                           |
| Special Protection Areas             |             |         |           |             |                             |
| World Heritage Sites                 | pg 59       |         | 2         | 2           |                             |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NE (E)                              | 16                           | 1       | 327250<br>342850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SE (S)                              | 27                           | 1       | 327221<br>342800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SE (SE)                             | 43                           | 1       | 327250<br>342800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SE (SE)                             | 114                          | 1       | 327300<br>342750 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SE (S)                              | 127                          | 1       | 327221<br>342700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SE (S)                              | 132                          | 1       | 327250<br>342700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (N)                              | 144                          | 1       | 327250<br>343000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (W)                              | 155                          | 1       | 327050<br>342850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (W)                              | 165                          | 1       | 327050<br>342900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SE (S)                              | 177                          | 1       | 327221<br>342650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SE (S)                              | 181                          | 1       | 327250<br>342650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (N)                              | 191                          | 1       | 327221<br>343050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NW (W)                              | 205                          | 1       | 327000<br>342844 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NW (NW)                             | 232                          | 1       | 327000<br>342950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SW (W)                              | 259                          | 1       | 326950<br>342800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13SW (S)                              | 278                          | 1       | 327200<br>342550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NW (W)                              | 305                          | 1       | 326900<br>342850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (W)                              | 323                          | 1       | 326900<br>342950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NW (NW)                             | 326                          | 1       | 327000<br>343100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A8NE (S)                               | 327                          | 1       | 327221<br>342500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12NE (W)                              | 360                          | 1       | 326850<br>342900 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A12NE (W)                              | 371                          | 1       | 326850 342950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A13NW (NW)                             | 397                          | 1       | 326950 343150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A13NW (NW)                             | 399                          | 1       | 326900 343100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A8NW (S)                               | 428                          | 1       | 327200 342400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A12SE (SW)                             | 430                          | 1       | 326850 342600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A8NW (SW)                              | 455                          | 1       | 326900 342500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A12SE (W)                              | 465                          | 1       | 326750 342750 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A12NE (W)                              | 468                          | 1       | 326750 342950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A12NE (NW)                             | 480                          | 1       | 326800 343100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A12NE (W)                              | 482                          | 1       | 326750 343000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A8NW (S)                               | 482                          | 1       | 327150 342350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A8NW (S)                               | 491                          | 1       | 327100 342350 |
| 1      | <b>Discharge Consents</b><br>Operator: Wrexham Maelor Borough Council<br>Property Type: Undefined Or Other<br>Location: Trefynant Park Trefor Near Wrexham<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0084501<br>Permit Version: 1<br>Effective Date: 8th January 1979<br>Issued Date: 8th January 1979<br>Revocation Date: 6th January 1993<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Trefynant Brook<br><b>Status:</b> Consent expired<br>Positional Accuracy: Located by supplier to within 10m                                                                            | A13NE (N)                              | 72                           | 2       | 327230 342930 |
| 2      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Cefn Monsanto - Sso, LI14 3sn<br>Authority: Natural Resources Wales<br>Catchment Area: TREFNANT BROOK<br>Reference: Cm0175201<br>Permit Version: 2<br>Effective Date: 8th September 2010<br>Issued Date: 8th September 2010<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant Brook<br><b>Status:</b> Effective<br>Positional Accuracy: Located by supplier to within 100m | A13NE (E)                              | 269                          | 2       | 327500 342900 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 2      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Cefn Monsanto - Sso, LI14 3sn<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0175201<br>Permit Version: 1<br>Effective Date: 20th October 1989<br>Issued Date: 20th October 1989<br>Revocation Date: 7th September 2010<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                            | A13NE (E)                              | 269                          | 2       | 327500<br>342900 |
| 3      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Trefor Isaf - Sso<br>Authority: Natural Resources Wales<br>Catchment Area: TREFNANT BROOK<br>Reference: Cm0172401<br>Permit Version: 3<br>Effective Date: 14th September 2006<br>Issued Date: 14th September 2006<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant<br><b>Status: Effective</b><br>Positional Accuracy: Located by supplier to within 100m                                                                       | A8NE (SE)                              | 599                          | 2       | 327500<br>342300 |
| 3      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Trefor Isaf - Sso<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0172401<br>Permit Version: 2<br>Effective Date: 31st March 2009<br>Issued Date: 21st January 2005<br>Revocation Date: 13th September 2006<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant<br><b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 100m | A8NE (SE)                              | 599                          | 2       | 327500<br>342300 |
| 3      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Trefor Isaf - Sso<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0172401<br>Permit Version: 1<br>Effective Date: 20th October 1989<br>Issued Date: 20th October 1989<br>Revocation Date: 30th March 2009<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Tref Y Nant<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                     | A8NE (SE)                              | 599                          | 2       | 327500<br>342300 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 4      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Pumping Staions<br>Location: Cefn Ps, LI14 3nh<br>Authority: Natural Resources Wales<br>Catchment Area: TREFNANT BROOK<br>Reference: Cm0191101<br>Permit Version: 2<br>Effective Date: 8th September 2010<br>Issued Date: 8th September 2010<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant Brook<br><b>Status: Effective</b><br>Positional Accuracy: Located by supplier to within 100m                                                                         | A9NW (SE)                              | 735                          | 2       | 327600<br>342200 |
| 4      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Pumping Station - Water Company<br>Location: Cefn Ps, LI14 3nh<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0191101<br>Permit Version: 1<br>Effective Date: 19th October 1989<br>Issued Date: 19th October 1989<br>Revocation Date: 7th September 2010<br>Discharge Type: Sewage Discharges - Pumping Station - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tref Y Nant Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m | A9NW (SE)                              | 735                          | 2       | 327600<br>342200 |
| 5      | <b>Discharge Consents</b><br>Operator: Mr G Evans<br>Property Type: Domestic Property (Single)<br>Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0180801<br>Permit Version: 2<br>Effective Date: 21st April 1994<br>Issued Date: 21st April 1994<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Land/Soakaway<br>Environment:<br>Receiving Water: Land<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 10m          | A8SW (SW)                              | 784                          | 2       | 326900<br>342110 |
| 5      | <b>Discharge Consents</b><br>Operator: Mr M Pickles<br>Property Type: Domestic Property (Single)<br>Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0180801<br>Permit Version: 2<br>Effective Date: 21st April 1994<br>Issued Date: 21st April 1994<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Land/Soakaway<br>Environment:<br>Receiving Water: Land<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 10m        | A8SW (SW)                              | 784                          | 2       | 326900<br>342110 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 5      | <b>Discharge Consents</b><br>Operator: Mr D Lake<br>Property Type: Domestic Property (Single)<br>Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0180801<br>Permit Version: 2<br>Effective Date: 21st April 1994<br>Issued Date: 21st April 1994<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Land/Soakaway<br>Environment:<br>Receiving Water: Land<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m | A8SW (SW)                              | 784                          | 2       | 326900 342110 |
| 5      | <b>Discharge Consents</b><br>Operator: Mr & Mrs Green<br>Property Type: Domestic Property (Single)<br>Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0180801<br>Permit Version: 1<br>Effective Date: 12th April 1989<br>Issued Date: 12th April 1989<br>Revocation Date: 20th April 1994<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Land<br><b>Status: Authorisation revoked</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                           | A8SW (SW)                              | 784                          | 2       | 326900 342110 |
| 5      | <b>Discharge Consents</b><br>Operator: Mr John Evans<br>Property Type: Domestic Property (Single)<br>Location: Pontcysyllte Jeffrey'S Terrace Hous, Jeffrey'S Terrace House<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0057201<br>Permit Version: 1<br>Effective Date: 22nd May 1969<br>Issued Date: 22nd May 1969<br>Revocation Date: 19th July 1996<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Dee<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                                            | A8SW (S)                               | 804                          | 2       | 326920 342080 |
| 6      | <b>Discharge Consents</b><br>Operator: Mr John Williams<br>Property Type: Domestic Property (Single)<br>Location: Pant Dedwydd, Dolydd Lane, Cefn Mawr, Wrexham, L14 3nf<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Eprp3923gx<br>Permit Version: 1<br>Effective Date: 7th March 2012<br>Issued Date: 7th March 2012<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Trefy Nant Brook<br><b>Status: New issued under EPR 2010</b><br>Positional Accuracy: Located by supplier to within 10m                          | A8SE (S)                               | 817                          | 2       | 327525 342071 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 6      | <b>Discharge Consents</b><br>Operator: John Williams<br>Property Type: Domestic Property (Single)<br>Location: Pant Dedwydd, Dolydd Lane, Cefn Mawr, Wrexham, L14 3nf<br>Authority: Natural Resources Wales<br>Catchment Area: TREFNANT BROOK<br>Reference: Rp3923gx<br>Permit Version: 1<br>Effective Date: 7th March 2012<br>Issued Date: 7th March 2012<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Trefy Nant Brook<br><b>Status: Effective</b><br>Positional Accuracy: Located by supplier to within 10m                                     | A8SE (S)                               | 817                          | 2       | 327525<br>342071 |
| 7      | <b>Discharge Consents</b><br>Operator: Monsanto Plc<br>Property Type: Spec. Chemicals, Household Use<br>Location: Cefn Mawr - Monsanto Plc Ruabo<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0041901<br>Permit Version: 1<br>Effective Date: 24th May 1967<br>Issued Date: 24th May 1967<br>Revocation Date: 16th May 1995<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Trefynant Brook<br><b>Status: Revoked and replaced by IPC Authorisation</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                             | A9SW (SE)                              | 822                          | 2       | 327600<br>342100 |
| 8      | <b>Discharge Consents</b><br>Operator: Mr Trevor Evans<br>Property Type: Domestic Property (Single)<br>Location: Penybryn Cottage Bowers Road Acrefa, Bowers Road Acrefair Wrexham<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0024901<br>Permit Version: 1<br>Effective Date: 17th October 1964<br>Issued Date: 17th October 1964<br>Revocation Date: Not Supplied<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Un-Named W'Course Flow To Tref<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m | A18NE (N)                              | 860                          | 2       | 327400<br>343700 |
| 9      | <b>Discharge Consents</b><br>Operator: Company Secretary<br>Property Type: Water Treatment Works<br>Location: Sugn-Y-Pwll Wtw(Acrefair)<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0108701<br>Permit Version: 1<br>Effective Date: 29th March 1965<br>Issued Date: 29th March 1965<br>Revocation Date: 12th January 1996<br>Discharge Type: Trade Effluent<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Trefynant Brook<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                                                     | A17SW (NW)                             | 869                          | 2       | 326500<br>343350 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 10     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewage Disposal Works<br>Location: Froncysyllte Stw<br>Authority: Natural Resources Wales<br>Catchment Area: DEE - CEIRIOG TO ALWEN<br>Reference: Cm0101501<br>Permit Version: 4<br>Effective Date: 1st January 2010<br>Issued Date: 26th June 2009<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Dee<br><b>Status: Effective</b><br>Positional Accuracy: Located by supplier to within 10m                                                                         | A8SW (S)                               | 874                          | 2       | 327110 341960 |
| 10     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Froncysyllte Stw<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0101501<br>Permit Version: 3<br>Effective Date: 31st December 2005<br>Issued Date: 31st December 2005<br>Revocation Date: 31st December 2009<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Dee<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 10m | A8SW (S)                               | 874                          | 2       | 327110 341960 |
| 10     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Froncysyllte Stw<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: CM0101501<br>Permit Version: 2<br>Effective Date: 30th January 1985<br>Issued Date: 30th January 1985<br>Revocation Date: 30th December 2005<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Dee<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m             | A8SW (S)                               | 874                          | 2       | 327110 341960 |
| 10     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Froncysyllte Stw<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0101501<br>Permit Version: 1<br>Effective Date: 17th October 1981<br>Issued Date: 17th October 1981<br>Revocation Date: 29th January 1985<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Dee<br><b>Status: Authorisation revoked</b><br>Positional Accuracy: Located by supplier to within 10m                                                            | A8SW (S)                               | 874                          | 2       | 327110 341960 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 11     | <b>Discharge Consents</b><br>Operator: The Occupier<br>Property Type: Undefined Or Other<br>Location: Wrexham Pontcysylltec Cam-Yr-Afon , Pontcysylltec Cam-Yr-Afon Dee V, Cam-Yr-Afon Dee View<br>Authority: Natural Resources Wales<br>Catchment Area: River Dee<br>Reference: Cm0023901<br>Permit Version: 1<br>Effective Date: 25th August 1964<br>Issued Date: 25th August 1964<br>Revocation Date: 5th April 1995<br>Discharge Type: Unspecified<br>Discharge: Not Supplied<br>Environment:<br>Receiving Water: Dee<br><b>Status: Consent expired</b><br>Positional Accuracy: Manually corrected supplier location | A7SE (SW)                              | 992                          | 2       | 326670<br>342000 |
| 12     | <b>Prosecutions Relating to Controlled Waters</b><br>Location: Tref-Y-Nant Brook, Ruabon Works, Cefn Mawr, Wrexham, LL14 3sl<br>Prosecution Text: A Corroded Storage Tank Spilled 225 Tonnes Of Acidic Effluent Into The Nearby Watercourse<br>Prosecution Act: Wra91 S85(1) & S85(6)<br>Hearing Date: 14th August 2003<br>Verdict: Guilty<br>Fine: 10000<br>Cost: 6800<br>Positional Accuracy: Manually positioned to the address or location                                                                                                                                                                           | A13SE (SE)                             | 304                          | 3       | 327498<br>342694 |
| 13     | <b>Enforcement and Prohibition Notices</b><br>Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL<br>Permit Reference: Not Given<br>Enforcement Date: 2nd February 1995<br>Details: Press Release HM137, Exceeded authorised limits for ammonia and suspended solids, into the River Dee; under EPA90.<br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                        | A14SW (E)                              | 397                          | 3       | 327632<br>342840 |
| 13     | <b>Enforcement and Prohibition Notices</b><br>Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL<br>Permit Reference: Not Given<br>Enforcement Date: 15th February 1995<br>Details: Press Release HM145, Exceeded release levels of cresol on two separate occasions; under EPA90.<br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                           | A14SW (E)                              | 402                          | 3       | 327637<br>342840 |
| 13     | <b>Enforcement and Prohibition Notices</b><br>Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL<br>Permit Reference: Not Given<br>Enforcement Date: 1st March 1995<br>Details: Press Release HM158, Unauthorised release of Hydrogen Sulphide and Carbon Disulphide due to a fractured pipe; under EPA90.<br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                   | A14SW (E)                              | 407                          | 3       | 327642<br>342840 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AY1242<br>Dated: 2nd July 1997<br>Process Type: IPC major (substantial) variation<br>Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                                   | A14SW (E)                              | 402                          | 3       | 327637<br>342836 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BD8738<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                         | A14SW (E)                              | 403                          | 3       | 327637<br>342831 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BC7612<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.4 A (B) processes involving Halogens within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                             | A14SW (E)                              | 403                          | 3       | 327637 342826 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BC6799<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation revoked</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                  | A14SW (E)                              | 403                          | 3       | 327637 342821 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AN9000<br>Dated: 28th November 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 407                          | 3       | 327642 342836 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: Bv4070<br>Dated: 6th August 2003<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Revoked - Now IPPC</b><br>Positional Accuracy: Automatically positioned to the address                                                                                             | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BI5008<br>Dated: 20th March 2003<br>Process Type: IPC major (substantial) variation<br>Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry<br><b>Status: Revoked - Now IPPC</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                   | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BI6454<br>Dated: 31st August 2001<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.4 A (B) processes involving Halogens within the Chemical Industry<br><b>Status: Revoked - Now IPPC</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                        | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: Bj8774<br>Dated: 21st May 2001<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.4 A (B) processes involving Halogens within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                       | A14SW (E)                              | 408                          | 3       | 327642 342831 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: Bj5198<br>Dated: 30th November 2000<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                              | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: Bj0951<br>Dated: 31st August 2000<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.4 A (B) processes involving Halogens within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                                | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BC6772<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                                                             | A14SW (E)                              | 408                          | 3       | 327642 342821 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AK5750<br>Dated: 23rd February 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AK5768<br>Dated: 21st February 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 408                          | 3       | 327642 342826 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AA2127<br>Dated: 2nd April 1992<br>Process Type: IPC new application<br>Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry<br><b>Status: Authorisation certificate surrendered by operator</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                         | A14SW (E)                              | 408                          | 3       | 327642 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AB5709<br>Dated: 3rd March 1992<br>Process Type: IPC new application<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation certificate surrendered by operator</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                         | A14SW (E)                              | 408                          | 3       | 327642 342826 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AL7618<br>Dated: 1st June 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.4 A (B) processes involving Halogens within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address                  | A14SW (E)                              | 412                          | 3       | 327647 342836 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BH0810<br>Dated: 31st August 2000<br>Process Type: IPC major (substantial) variation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Revoked - Now IPPC</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                        | A14SW (E)                              | 413                          | 3       | 327647 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BC6764<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Revoked - Now IPPC</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                 | A14SW (E)                              | 413                          | 3       | 327647 342821 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AK5784<br>Dated: 23rd February 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 413                          | 3       | 327647 342831 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AK5792<br>Dated: 16th February 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation superseded by a substantial or non substantial variation</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 413                          | 3       | 327647 342826 |
| 14     | <b>Integrated Pollution Controls</b><br>Name: Solutia UK Ltd<br>Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: AK5776<br>Dated: 16th February 1994<br>Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status: Authorisation certificate surrendered by operator</b><br>Positional Accuracy: Automatically positioned to the address                                    | A14SW (E)                              | 417                          | 3       | 327652 342840 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 14     | <b>Integrated Pollution Controls</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: BC6756<br>Dated: 24th November 1998<br>Process Type: IPC minor (non-substantial) variation to previous variation<br>Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry<br><b>Status:</b> Authorisation superseded by a substantial or non substantial variation<br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                                                                                                                                  | A14SW (E)                              | 418                          | 3       | 327652 342821 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Ruabon Chemical Works<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: NP3335GR<br>Original Permit Ref: Np3531zh<br>Effective Date: 28th November 2017<br><b>Status:</b> Effective<br>Application Type: Bespoke<br>App. Sub Type: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 5.4 PART A (1) A) (II)<br>Activity Description: Not Supplied<br>Primary Activity: Y                                                                                                                                                                                                                                                                                                                                                              | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works Epr/Np3335gr/V007, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: NP3531ZH<br>Original Permit Ref: Np3335gr<br>Effective Date: 25th March 2013<br><b>Status:</b> Effective<br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 5.4 A(1) a) (ii)<br>Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Primary Activity: Y                                                                                                                                                                                                                                                                                              | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Air Products Electronics Advanced Materials Europe Limited<br>Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: UP3731ZY<br>Original Permit Ref: Bv2689ie<br>Effective Date: 22nd March 2013<br><b>Status:</b> Superseded By Variation<br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y<br>Activity Code: 5.4 A(1) a) (ii)<br>Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Primary Activity: N<br>Activity Code: 0.0 Associated Process<br>Activity Description: Associated Process<br>Primary Activity: N | A14SW (E)                              | 406                          | 2       | 327640 342830 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr., Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: NP3437CY<br>Original Permit Ref: Np3335gr<br>Effective Date: 26th October 2012<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons<br>Primary Activity: N | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr., Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: YP3534TY<br>Original Permit Ref: Np3335gr<br>Effective Date: 3rd November 2010<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons<br>Primary Activity: N<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr., Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: EP3035TW<br>Original Permit Ref: Np3335gr<br>Effective Date: 1st April 2010<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Minor<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons<br>Primary Activity: N    | A14SW (E)                              | 406                          | 2       | 327640 342830 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Dupont Air Products Nanomaterials Limited<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: FP3939KF<br>Original Permit Ref: Fp3939kf<br>Effective Date: 31st August 2009<br><b>Status: Superseded By Variation</b><br>Application Type: Transfer<br>App. Sub Type: Part with FAPP<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containg Compounds Eg Halocarbons<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: FP3439KB<br>Original Permit Ref: Np3335gr<br>Effective Date: 31st August 2009<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Standard<br>Positional Accuracy: Located by supplier to within 10m<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containg Compounds Eg Halocarbons<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N                                 | A14SW (E)                              | 406                          | 2       | 327640 342830 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Solutia Uk Ltd<br>Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: DP3134TV<br>Original Permit Ref: Np3335gr<br>Effective Date: Not Supplied<br><b>Status: Valid</b><br>Application Type: Surrender<br>App. Sub Type: Part<br>Positional Accuracy: Located by supplier to within 100m<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containg Compounds Eg Halocarbons<br>Primary Activity: N<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N                                                                      | A14SW (E)                              | 406                          | 3       | 327640 342830 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Air Products Electronics Advanced Materials Europe Limited<br>Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: UP3838AC<br>Original Permit Ref: Bv2689ie<br>Effective Date: 14th July 2015<br><b>Status: Surrender Effective</b><br>Application Type: Surrender<br>App. Sub Type: Whole<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y<br>Activity Code: 5.4 A(1) a) (ii)<br>Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Primary Activity: N<br>Activity Code: 0.0 Associated Process<br>Activity Description: Associated Process<br>Primary Activity: N | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Dupont Air Products Nanomaterials Limited<br>Location: Ruabon Chemical Works Eaeprbv2689iev003, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: TP3836KW<br>Original Permit Ref: Fp3939kf<br>Effective Date: 15th June 2010<br><b>Status: Revoked</b><br>Application Type: Variation<br>App. Sub Type: Simple Standard Variation<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y                                                                                                                                                                                                                                                                                   | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Air Products Electronics Advanced Materials Europe Limited<br>Location: Ruabon Chemical Works Eaeprbv2689iev003, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: KP3536KS<br>Original Permit Ref: Bv2689ie<br>Effective Date: 7th May 2010<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Standard<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y<br>Activity Code: 5.3 A(1) (C) (II)<br>Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment<br>Primary Activity: N                                                                                                           | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Dupont Air Products Nanomaterials Limited<br>Location: Ruabon Chemical Works Eaeprbv2689iev004, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: GP3539KM<br>Original Permit Ref: Bv2689ie<br>Effective Date: 1st September 2009<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Standard<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y                                                                                                                                                                                                                                                                                         | A14SW (E)                              | 408                          | 2       | 327642 342831 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr., Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: EP3738GP<br>Original Permit Ref: Bq4173ik<br>Effective Date: 19th January 2009<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Standard<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons<br>Primary Activity: N | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Clariant Uk Ltd<br>Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: CP3833XG<br>Original Permit Ref: Bv1950iq<br>Effective Date: 17th December 2008<br><b>Status: Surrender Effective</b><br>Application Type: Surrender<br>App. Sub Type: Whole<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Dupont Air Products Nanomaterials Limited<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: YP3931MV<br>Original Permit Ref: Bv2689ie<br>Effective Date: 6th June 2007<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Simple Standard Variation<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: DP3232MG<br>Original Permit Ref: Bq4173ik<br>Effective Date: 24th May 2007<br><b>Status: Superseded By Variation</b><br>Application Type: Variation<br>App. Sub Type: Simple Standard Variation<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: N<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (VI)<br>Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons<br>Primary Activity: N<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y            | A14SW (E)                              | 408                          | 2       | 327642 342831 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Chemical Works Ea/Epr/Bq4173ik/V005, Ruabon Works, Cefn Mawr., Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: Bq4173ik<br>Original Permit Ref: Bq4173ik<br>Effective Date: 13th April 2004<br><b>Status: Superseded By Variation</b><br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (III)<br>Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides<br>Primary Activity: Y | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Clariant Uk Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: Bv1950iq<br>Original Permit Ref: Bv1950iq<br>Effective Date: 13th April 2004<br><b>Status: Superseded By Variation</b><br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.1 A(1) (A) (II)<br>Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols<br>Primary Activity: Y                                                              | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Dupont Air Products Nanomaterials Limited<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Authority: Natural Resources Wales<br>Permit Reference: Bv2689ie<br>Original Permit Ref: Bv2689ie<br>Effective Date: 13th April 2004<br><b>Status: Superseded By Variation</b><br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 4.2 A(1) (A) (V)<br>Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide<br>Primary Activity: Y                                         | A14SW (E)                              | 408                          | 2       | 327642 342831 |
| 16     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Air Products plc<br>Location: Cefn Mawr, WREXHAM, Clwyd, LL14 3HW<br>Authority: Wrexham County Borough Council, Environmental Health Department<br>Permit Reference: WMBC/HJB/03/033<br>Dated: Not Supplied<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/23 Coating of metal and plastic<br><b>Status: Not Supplied</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                         | A19SE (E)                              | 962                          | 4       | 328139 343184 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A13NE (NE)                             | 24                           | -       | 327243 342879 |
| 17     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Garage, Station Road, ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Light Oil<br>Note: River Dee; Run-Off<br>Incident Date: 30th December 1997<br>Incident Reference: 34604<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Neglect<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                                              | A13SE (SE)                             | 43                           | 3       | 327250 342800 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 18     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Road (Lost Load)<br>Location: Way Acrefair, WHALLEYS<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Sewage Debris/Litter<br>Note: Accidental Spillage/Leakage<br>Incident Date: 9th October 1994<br>Incident Reference: 21379<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Leakage<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (NE)                             | 79                           | 3       | 327300<br>342900 |
| 19     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Crude Sewage<br>Note: Tref-Y-Nant Brook; Overflow<br>Incident Date: 11th June 1997<br>Incident Reference: 32841<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Weather<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                      | A13NW (N)                              | 138                          | 3       | 327200<br>342995 |
| 19     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Crude Sewage<br>Note: Weather<br>Incident Date: 11th June 1997<br>Incident Reference: 32841<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Overflow<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                         | A13NW (N)                              | 143                          | 3       | 327200<br>343000 |
| 20     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Ww Pumping Station<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Crude Sewage<br>Note: Tref-Y-Nant Brook; Overflow<br>Incident Date: 3rd October 1997<br>Incident Reference: 33947<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Blocked Sewer<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                    | A13SE (SE)                             | 152                          | 3       | 327300<br>342700 |
| 21     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Bridge, Off Llangollen Road<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Mud/Clay/Soil<br>Note: Not Supplied<br>Incident Date: 13th August 1991<br>Incident Reference: 3121<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m                          | A13SE (E)                              | 155                          | 3       | 327380<br>342790 |
| 22     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Adjacent To, Duke Of, WELLINGTON<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 23rd August 1995<br>Incident Reference: 25964<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                | A13NE (E)                              | 171                          | 3       | 327400<br>342900 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 23     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Foden Garage, ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Oils - Petrol<br>Note: Poor Management Control<br>Incident Date: 4th March 1996<br>Incident Reference: 27921<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Leakage<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                | A13NW (NW)                             | 256                          | 3       | 327000<br>342995 |
| 23     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Miscellaneous Premises: Surface Runoff<br>Location: Foden Garage, ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Oils - Petrol<br>Note: Poor Operational Practise<br>Incident Date: 4th March 1996<br>Incident Reference: 27921<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Leakage<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NW (NW)                             | 259                          | 3       | 327000<br>343000 |
| 24     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Monsanto<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Mud/Clay/Soil<br>Note: Not Supplied<br>Incident Date: 27th May 1995<br>Incident Reference: 24210<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                          | A13SE (SE)                             | 303                          | 3       | 327500<br>342700 |
| 25     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Lido Pool<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 27th May 1997<br>Incident Reference: 32425<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                               | A14SW (SE)                             | 440                          | 3       | 327600<br>342600 |
| 26     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Trevor Basin<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Miscellaneous - Vegetation/Cuttings<br>Note: Natural Causes<br>Incident Date: 19th August 1994<br>Incident Reference: 20985<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Natural Causes<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                    | A8NW (S)                               | 528                          | 3       | 327200<br>342300 |
| 27     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Domestic/Residential<br>Location: Ponty, Aquaduct<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Farm Effluent/Slurry<br>Note: Deliberate Act<br>Incident Date: 26th September 1994<br>Incident Reference: 21106<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Direct Discharge<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                | A7NE (SW)                              | 530                          | 3       | 326800<br>342500 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 28     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Trefnant Farm<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Agricultural: Carcasses<br>Note: Accidental Spillage/Leakage<br>Incident Date: 30th June 1996<br>Incident Reference: 29072<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Natural Causes<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                            | A17SE (NW)                             | 537                          | 3       | 326800<br>343195 |
| 28     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Cattle Beef Farming: Yards<br>Location: Trefnant Farm<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Agricultural: Silage Liquor<br>Note: Accidental Spillage/Leakage<br>Incident Date: 30th June 1996<br>Incident Reference: 29072<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Natural Causes<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A17SE (NW)                             | 540                          | 3       | 326800<br>343200 |
| 29     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Water Company Sewage: Sewerage<br>Location: Treatment Plant<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Mud/Clay/Soil<br>Note: Not Supplied<br>Incident Date: 25th March 1995<br>Incident Reference: 23044<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                    | A9NW (SE)                              | 574                          | 3       | 327600<br>342400 |
| 30     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Trefnant Brook<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Sewage Fungus<br>Note: Not Supplied<br>Incident Date: 28th January 1997<br>Incident Reference: 31086<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                        | A8NE (SE)                              | 603                          | 3       | 327500<br>342295 |
| 31     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Water Company Sewage: Sewage Treatment Works<br>Location: Road Trevor Isaf<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Unknown<br>Note: Emergency Overflow<br>Incident Date: 24th March 1995<br>Incident Reference: 23301<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Overflow<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                    | A9NW (SE)                              | 644                          | 3       | 327700<br>342400 |
| 32     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Location Description Not Available<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Industrial Solid Waste<br>Note: Not Supplied<br>Incident Date: 4th February 1992<br>Incident Reference: 4164<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m                      | A7NE (SW)                              | 727                          | 3       | 326850<br>342200 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 33     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: 32 Aled, Plas Madoc Estate, ACREFAIR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Miscellaneous - Fire water / Foam<br>Note: River Dee<br>Incident Date: 6th September 1997<br>Incident Reference: 33512<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                              | A14NE (E)                              | 778                          | 3       | 328000<br>342995 |
| 33     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Miscellaneous Premises: Surface Runoff<br>Location: Plas Madoc Estate, WREXHAM<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Crude Sewage<br>Note: Vandalism<br>Incident Date: 10th October 1994<br>Incident Reference: 21389<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Runoff<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                  | A14NE (E)                              | 779                          | 3       | 328000<br>343000 |
| 34     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Dolyth Cottage<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Crude Sewage<br>Note: Tref-Y-Nant Brook; Overflow<br>Incident Date: 18th March 1998<br>Incident Reference: 35141<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                          | A8SE (S)                               | 793                          | 3       | 327480<br>342080 |
| 35     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Water Company Sewage: Storm Overflow<br>Location: Up Stream Of Dee<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Chemicals - Other Organic<br>Note: Emergency Overflow<br>Incident Date: 24th August 1994<br>Incident Reference: 20993<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Bypass Of Treatment Facilities<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A8SE (S)                               | 832                          | 3       | 327300<br>342000 |
| 36     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Miscellaneous Premises: Surface Runoff<br>Location: Welsh Street, Cefn, Mawr-Coach<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Unknown<br>Note: Accidental Spillage/Leakage<br>Incident Date: 8th August 1995<br>Incident Reference: 25328<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Runoff<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                   | A9NE (SE)                              | 840                          | 3       | 328000<br>342500 |
| 37     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Cattle Grazing Land<br>Location: Bowers Road<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Farm Effluent/Slurry<br>Note: Not Supplied<br>Incident Date: 9th February 1995<br>Incident Reference: 22508<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                        | A18NE (N)                              | 845                          | 3       | 327300<br>343700 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 38     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Pontcysyllte B, Oont Trevor<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Rubble/Litter Or Solids<br>Note: Not Supplied<br>Incident Date: 31st August 1991<br>Incident Reference: 1985<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                            | A8SW (S)                               | 855                          | 3       | 327000<br>342000 |
| 39     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Land<br>Location: 83 Heol, Avon Cefn, Mawr<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Mud/Clay/Soil<br>Note: Vandalism<br>Incident Date: 11th February 1996<br>Incident Reference: 27850<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Spillage<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                             | A9NE (SE)                              | 860                          | 3       | 327900<br>342300 |
| 39     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Outside 83 Heol, At White Mill, Mawr, LLANGOLLEN<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Mud/Clay/Soil<br>Note: Vandalism<br>Incident Date: 11th February 1996<br>Incident Reference: 27850<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Spillage<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                | A9NE (SE)                              | 863                          | 3       | 327900<br>342295 |
| 40     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Road (Lost Load)<br>Location: Port Bridge In, Trevor Near, LLANGOLLEN<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Miscellaneous - Fire water / Foam<br>Note: Accidental Spillage/Leakage<br>Incident Date: 26th March 1995<br>Incident Reference: 23034<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Runoff<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A7SE (SW)                              | 882                          | 3       | 326800<br>342050 |
| 41     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Up Stream Of Monsanto, Pumping Station<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Sewage - Septic Tank Effluent<br>Note: Not Supplied<br>Incident Date: 10th April 1995<br>Incident Reference: 23401<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                           | A8SE (S)                               | 908                          | 3       | 327450<br>341950 |
|        | <b>River Quality</b><br>Name: Trefynant Bk<br>GQA Grade: River Quality A<br>Reach: Disch.Within Culvert-Trib.Nr.Hafod Fm.<br>Estimated Distance (km): 3.3<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000                                                                                                                                                                                                                                                                                                            | A13NE (NE)                             | 0                            | 3       | 327228<br>342850 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>River Quality</b><br>Name: Trefynant Bk<br>GQA Grade: River Quality B<br>Reach: Conf. Dee T. Isa-Disch. Within Culvert<br>Estimated Distance (km): .9<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A9NW (SE)                              | 585                          | 3       | 327652<br>342435 |
|        | <b>River Quality</b><br>Name: Shropshire Union C<br>GQA Grade: River Quality C<br>Reach: St Martin'S Moor - Llantysilio<br>Estimated Distance (km): 20<br>Flow Rate: Flow greater than 80 cumecs<br>Flow Type: Canal<br>Year: 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A8NW (S)                               | 604                          | 3       | 327034<br>342252 |
|        | <b>River Quality</b><br>Name: Dee<br>GQA Grade: River Quality A<br>Reach: Conf. Trefynant Bk.- Conf. Cyflymen Bk.<br>Estimated Distance (km): 7.2<br>Flow Rate: Flow less than 40 cumecs<br>Flow Type: River<br>Year: 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A8SW (S)                               | 889                          | 3       | 326993<br>341967 |
|        | <b>River Quality</b><br>Name: Dee<br>GQA Grade: River Quality A<br>Reach: Conf. Bradley Bk.-Conf. Trefynant Bk.<br>Estimated Distance (km): 5.2<br>Flow Rate: Flow less than 40 cumecs<br>Flow Type: River<br>Year: 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A8SE (S)                               | 993                          | 3       | 327236<br>341835 |
| 42     | <b>River Quality Biology Sampling Points</b><br>Name: Tref-Y-Nant Brook<br>Reach: Confluence River Dee T. Isa To Disch. Within Culvert<br>Estimated Distance: 0.90<br>Positional Accuracy: Located by supplier to within 100m<br>Year: 1990<br>GQA Grade: River Quality Biology GQA Grade D - Fair<br>Year: 1995<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2000<br>GQA Grade: River Quality Biology GQA Grade C - Fairly Good<br>Year: 2002<br>GQA Grade: River Quality Biology GQA Grade Not Supplied<br>Year: 2003<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2004<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2005<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2006<br>GQA Grade: River Quality Biology GQA Grade D - Fair<br>Year: 2007<br>GQA Grade: River Quality Biology GQA Grade D - Fair<br>Year: 2008<br>GQA Grade: River Quality Biology GQA Grade D - Fair<br>Year: 2009<br>GQA Grade: River Quality Biology GQA Grade A - Very Good | A9NW (SE)                              | 503                          | 3       | 327600<br>342500 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 43     | <b>River Quality Biology Sampling Points</b><br>Name: Dee<br>Reach: Confluence Bradley Brook To Confluence Trefynant Brook<br>Estimated Distance: 5.20<br>Positional Accuracy: Located by supplier to within 100m<br>Year: 1990<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 1995<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2000<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2002<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2003<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2004<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2005<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2006<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2007<br>GQA Grade: River Quality Biology GQA Grade B - Good<br>Year: 2008<br>GQA Grade: River Quality Biology GQA Grade A - Very Good<br>Year: 2009<br>GQA Grade: River Quality Biology GQA Grade A - Very Good | A8SE (S)                               | 931                          | 3       | 327300<br>341900 |

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| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 43     | <b>River Quality Chemistry Sampling Points</b><br>Name: Trefynant Brook<br>Reach: Confluence River Dee T. Isa To Discharge Within Culvert<br>Estimated Distance: 0.90<br>Objective: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m<br>Year: 1990<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1993<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1994<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1995<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1996<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1997<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1998<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1999<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2000<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2001<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2002<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2003<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2004<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 2005<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2006<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2007<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2008<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2009<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied | A8SE (S)                               | 971                          | 3       | 327300<br>341860 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 44     | <b>River Quality Chemistry Sampling Points</b><br>Name: Trefynant Brook<br>Reach: Discharge Within Culvert To Tributary Near Hafod Farm<br>Estimated Distance: 3.30<br>Objective: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m<br>Year: 1990<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1993<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1994<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1995<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1996<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1997<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1998<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1999<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2000<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2001<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2002<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2003<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2004<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2005<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2006<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2007<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2008<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2009<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied | A13NE (E)                              | 65                           | 3       | 327300<br>342850 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 45     | <b>River Quality Chemistry Sampling Points</b><br>Name: Shropshire Union Canal<br>Reach: St Martin'S Moor To Llantysilio<br>Estimated Distance: 16.30<br>Objective: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m<br>Year: 1990<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 1993<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 1994<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 1995<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 1996<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 1997<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 1998<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 1999<br>GQA Grade: River Quality Chemistry GQA Grade D - Fair<br>Compliance: Not Supplied<br>Year: 2000<br>GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good<br>Compliance: Not Supplied<br>Year: 2001<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2002<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2003<br>GQA Grade: River Quality Chemistry GQA Grade B - Good<br>Compliance: Not Supplied<br>Year: 2004<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2005<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2006<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2007<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2008<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied<br>Year: 2009<br>GQA Grade: River Quality Chemistry GQA Grade A - Very Good<br>Compliance: Not Supplied | A8NW (S)                               | 496                          | 3       | 327050<br>342360 |
| 46     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 29th January 2003<br>Incident Reference: 133963<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Pollutant Not Identified: Not Identified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A8SW (S)                               | 799                          | 2       | 327080<br>342040 |
| 47     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 12th March 2003<br>Incident Reference: 142565<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Other Pollutant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A9SW (SE)                              | 818                          | 2       | 327582<br>342096 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 48     | <b>Water Abstractions</b><br>Operator: Solutia Uk Limited<br>Licence Number: 24/67/5/0017<br>Permit Version: 102<br>Location: River Dee At Pontcysyllte<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 21st December 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                | A8SW (S)                               | 848                          | 3       | 327200<br>341980 |
| 48     | <b>Water Abstractions</b><br>Operator: Flexsys Rubber Chemicals Limited<br>Licence Number: 24/67/5/0017<br>Permit Version: 101<br>Location: River Dee At Pontcysyllte<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 30th September 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S)                               | 848                          | 3       | 327200<br>341980 |
| 48     | <b>Water Abstractions</b><br>Operator: Flexsys Ltd<br>Licence Number: 24/67/5/0017<br>Permit Version: 100<br>Location: River Dee At Pontcysyllte<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: River Dee At Pontcysyllte<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 12th January 1996<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m          | A8SW (S)                               | 848                          | 3       | 327200<br>341980 |
| 49     | <b>Water Abstractions</b><br>Operator: United Utilities Water Limited<br>Licence Number: 24/67/5/0057<br>Permit Version: 101<br>Location: River Dee At Pontcysyllte<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Public Water Supply: Potable Water Supply - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                           | A8SW (S)                               | 888                          | 3       | 327080<br>341950 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 49     | <b>Water Abstractions</b><br>Operator: North West Water<br>Licence Number: 24/67/5/0057<br>Permit Version: 100<br>Location: River Dee At Pontcysyllte<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Water Supply Related: Transfer Between Sources<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: River Dee At Pontcysyllte<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th June 1978<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A8SW (S)                               | 888                          | 3       | 327080<br>341950 |
| 50     | <b>Water Abstractions</b><br>Operator: United Utilities Water Limited<br>Licence Number: 24/67/5/0057<br>Permit Version: 104<br>Location: River Dee At Pontcysyllte<br>Authority: Natural Resources Wales<br>Abstraction: Private Water Undertaking: Transfer between sources<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 12th November 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S)                               | 895                          | 2       | 327217<br>341932 |
| 50     | <b>Water Abstractions</b><br>Operator: United Utilities Plc<br>Licence Number: 24/67/5/0057<br>Permit Version: 103<br>Location: River Dee At Pontcysyllte<br>Authority: Natural Resources Wales<br>Abstraction: Private Water Undertaking: Transfer between sources<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 17th July 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m               | A8SW (S)                               | 895                          | 2       | 327217<br>341932 |
|        | <b>Water Abstractions</b><br>Operator: Dee Valley Water Plc<br>Licence Number: 24/67/5/0002<br>Permit Version: 100<br>Location: Trefnant Brook<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Trefnant Brook<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 5th July 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                | A17SW (NW)                             | 1074                         | 3       | 326320<br>343450 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Dee Valley Water Plc<br>Licence Number: 24/67/5/0004<br>Permit Version: 101<br>Location: Oerog Springs, Trevor<br>Authority: Natural Resources Wales<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Oerog Springs At Trevor, Llangollen<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 17th October 2001<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A6SE (SW)                              | 1288                         | 2       | 326160<br>342090 |
|        | <b>Water Abstractions</b><br>Operator: Dee Valley Water Plc<br>Licence Number: 24/67/5/0004<br>Permit Version: 100<br>Location: Oerog Springs, Trevor<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Oerog Springs; Trevor<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 23rd October 1967<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m     | A6SE (SW)                              | 1288                         | 3       | 326160<br>342090 |
|        | <b>Water Abstractions</b><br>Operator: Trevor Tower Estate<br>Licence Number: 24/67/5/0027<br>Permit Version: 100<br>Location: Spring<br>Authority: Environment Agency, Welsh Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 25th July 1973<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                       | A16SW (W)                              | 1445                         | 3       | 325810<br>343220 |
|        | <b>Water Abstractions</b><br>Operator: Mr A Philips<br>Licence Number: 24/67/5/0009<br>Permit Version: 100<br>Location: Well<br>Authority: Environment Agency, Welsh Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 9th August 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                           | A22NE (N)                              | 1580                         | 3       | 326830<br>344390 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Mrs M M O'Leary<br>Licence Number: 24/67/5/0010<br>Permit Version: Not Supplied<br>Location: Location Description Not Available<br>Authority: Environment Agency, Welsh Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 4<br>Yearly Rate (m3): 1414<br>Details: Not Supplied<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A25NW (NE)                             | 1806                         | 3       | 328320<br>344300 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 16 West Cheshire<br>Scale: 1:100,000                                                                                                                                                                                                                                        | A13NE (E)                              | 0                            | 3       | 327221<br>342844 |
|        | <b>Drift Deposits</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                              |         |                  |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A13NE (E)                              | 0                            | 2       | 327221<br>342844 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A13SE (E)                              | 0                            | 2       | 327231<br>342841 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                   | A13NE (N)                              | 23                           | 2       | 327234<br>342880 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                   | A13SE (SE)                             | 182                          | 2       | 327399<br>342766 |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                   | A13NE (N)                              | 23                           | 2       | 327234<br>342880 |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                   | A13SE (SE)                             | 182                          | 2       | 327399<br>342766 |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                              |         |                  |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                              |         |                  |
|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                              |         |                  |
| 51     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 540.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1                                                                                                                                                                                                                                                                                                                                                         | A13NE (NE)                             | 26                           | 5       | 327241<br>342882 |
| 52     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 91.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1                                                                                                                                                                                                                                                                                                                                                          | A13NW (N)                              | 113                          | 5       | 327173<br>342962 |

| Map ID | Details                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 53     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 67.8<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1          | A13NW (N)                              | 113                          | 5       | 327173<br>342962 |
| 54     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 77.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1     | A13NW (NW)                             | 147                          | 5       | 327108<br>342955 |
| 55     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 27.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1  | A13NW (N)                              | 202                          | 5       | 327148<br>343048 |
| 56     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 55.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1            | A13NW (N)                              | 202                          | 5       | 327148<br>343048 |
| 57     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 293.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A13NW (NW)                             | 218                          | 5       | 327098<br>343040 |
| 58     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 194.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1    | A13NW (NW)                             | 219                          | 5       | 327037<br>342983 |
| 59     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1        | A13NW (N)                              | 228                          | 5       | 327130<br>343068 |
| 60     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 293.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A13NE (NE)                             | 234                          | 5       | 327431<br>342983 |
| 61     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 338.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A13NW (N)                              | 246                          | 5       | 327168<br>343100 |

| Map ID | Details                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 62     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 190.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A13NE (E)                              | 287                          | 5       | 327516<br>342910 |
| 63     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1   | A13NE (NE)                             | 316                          | 5       | 327373<br>343140 |
| 64     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 276.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A13NE (NE)                             | 316                          | 5       | 327373<br>343140 |
| 65     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 12.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A13NE (NE)                             | 320                          | 5       | 327372<br>343146 |
| 66     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 139.6<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A13SE (SE)                             | 353                          | 5       | 327504<br>342617 |
| 67     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 75.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A13SE (SE)                             | 353                          | 5       | 327508<br>342622 |
| 68     | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 25.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1          | A13SE (SE)                             | 358                          | 5       | 327550<br>342676 |
| 69     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 89.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1  | A8NE (S)                               | 361                          | 5       | 327220<br>342466 |
| 70     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1         | A14SW (SE)                             | 364                          | 5       | 327566<br>342696 |

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| 71     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 27.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A14SW (SE)                             | 365                          | 5       | 327569<br>342700 |
| 72     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 102.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1      | A8NE (S)                               | 368                          | 5       | 327256<br>342462 |
| 73     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 16.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A14SW (E)                              | 371                          | 5       | 327589<br>342734 |
| 74     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 40.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A14SW (E)                              | 371                          | 5       | 327589<br>342734 |
| 75     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 419.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1    | A12NE (NW)                             | 396                          | 5       | 326860<br>343037 |
| 76     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 199.4<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1           | A14SW (E)                              | 406                          | 5       | 327634<br>342771 |
| 77     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 24.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A14NW (E)                              | 437                          | 5       | 327663<br>342938 |
| 78     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 143.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A13NW (NW)                             | 439                          | 5       | 326904<br>343164 |
| 79     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 110.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A13NW (NW)                             | 439                          | 5       | 326904<br>343164 |

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| 80     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 51.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1   | A8NE (SE)                              | 440                          | 5       | 327487<br>342480 |
| 81     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 71.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1        | A8NW (S)                               | 446                          | 5       | 327202<br>342381 |
| 82     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 75.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1        | A8NE (SE)                              | 487                          | 5       | 327528<br>342454 |
| 83     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 146.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1       | A8NW (S)                               | 513                          | 5       | 327175<br>342316 |
| 84     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 273.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A18SE (N)                              | 539                          | 5       | 327287<br>343394 |
| 85     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 113.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A18SE (NE)                             | 541                          | 5       | 327449<br>343354 |
| 86     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 283.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A17SE (NW)                             | 556                          | 5       | 326789<br>343212 |
| 87     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1655.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A17SE (NW)                             | 556                          | 5       | 326789<br>343212 |
| 88     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 120.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A18SW (N)                              | 557                          | 5       | 327013<br>343376 |

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| 89     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 21.0<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1            | A18SW (N)                              | 557                          | 5       | 327013<br>343376 |
| 90     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 107.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A9NW (SE)                              | 562                          | 5       | 327585<br>342403 |
| 91     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 284.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18SW (N)                              | 576                          | 5       | 327013<br>343397 |
| 92     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 226.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18SE (N)                              | 632                          | 5       | 327456<br>343448 |
| 93     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 138.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18SE (N)                              | 632                          | 5       | 327456<br>343448 |
| 94     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 2928.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1     | A8NW (S)                               | 632                          | 5       | 327057<br>342216 |
| 95     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 5.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1        | A8NW (S)                               | 632                          | 5       | 327057<br>342216 |
| 96     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 22.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1       | A8NW (S)                               | 632                          | 5       | 327072<br>342212 |
| 97     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 251.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A8NW (S)                               | 633                          | 5       | 327130<br>342200 |

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| 98     | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 217.2<br>Watercourse Level: suspendedOrElevated<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1    | A8NW (S)                               | 637                          | 5       | 327082<br>342205 |
| 99     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 3.0<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1        | A9NW (SE)                              | 656                          | 5       | 327607<br>342300 |
| 100    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 501.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A9NW (SE)                              | 659                          | 5       | 327609<br>342298 |
| 101    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 119.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A12SW (W)                              | 703                          | 5       | 326528<br>342654 |
| 102    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 166.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A7NE (SW)                              | 726                          | 5       | 326805<br>342230 |
| 103    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 163.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1            | A7NE (SW)                              | 730                          | 5       | 326820<br>342215 |
| 104    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 57.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A7NE (SW)                              | 736                          | 5       | 326668<br>342337 |
| 105    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 25.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1               | A18NE (NE)                             | 752                          | 5       | 327538<br>343545 |
| 106    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 122.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1    | A12NW (W)                              | 761                          | 5       | 326467<br>343025 |

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| 107    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 186.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A12NW (W)                              | 761                          | 5       | 326467<br>343025 |
| 108    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 154.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A18NE (NE)                             | 767                          | 5       | 327549<br>343556 |
| 109    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 2.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1   | A7NE (SW)                              | 772                          | 5       | 326670<br>342282 |
| 110    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 90.6<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A7NE (SW)                              | 773                          | 5       | 326668<br>342283 |
| 111    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 117.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A17SE (NW)                             | 791                          | 5       | 326702<br>343456 |
| 112    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 28.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A8SW (S)                               | 797                          | 5       | 326922<br>342087 |
| 113    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 21.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A7NE (SW)                              | 809                          | 5       | 326585<br>342322 |
| 114    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 209.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Dyfrdwy<br>Catchment Name: Dee<br>Primacy: 1 | A8SW (S)                               | 812                          | 5       | 326965<br>342055 |
| 115    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 41.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A18NE (N)                              | 813                          | 5       | 327380<br>343656 |

| Map ID | Details                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 116    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 92.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A18NE (N)                              | 813                          | 5       | 327384<br>343655 |
| 117    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 435.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Dyfrdwy<br>Catchment Name: Dee<br>Primacy: 1 | A8SW (S)                               | 820                          | 5       | 326927<br>342060 |
| 118    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 37.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1  | A7NE (SW)                              | 826                          | 5       | 326579<br>342303 |
| 119    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1   | A7NE (SW)                              | 826                          | 5       | 326580<br>342302 |
| 120    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1         | A19NW (NE)                             | 829                          | 5       | 327699<br>343542 |
| 121    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 529.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A19NW (NE)                             | 832                          | 5       | 327704<br>343544 |
| 122    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 298.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1 | A18NE (N)                              | 842                          | 5       | 327372<br>343687 |
| 123    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 321.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18NE (N)                              | 842                          | 5       | 327372<br>343687 |
| 124    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 122.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Dyfrdwy<br>Catchment Name: Dee<br>Primacy: 1 | A8SW (S)                               | 848                          | 5       | 327121<br>341985 |

| Map ID | Details                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 125    | <b>OS Water Network Lines</b><br>Watercourse Form: Canal<br>Watercourse Length: 2930.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Llangollen Canal<br>Catchment Name: Mersey<br>Primacy: 1     | A8SW (S)                               | 854                          | 5       | 327041<br>341992 |
| 126    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 44.2<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1             | A7NW (SW)                              | 859                          | 5       | 326542<br>342296 |
| 127    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 149.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1    | A12NW (W)                              | 866                          | 5       | 326377<br>343096 |
| 128    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 248.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A12NW (W)                              | 866                          | 5       | 326377<br>343096 |
| 129    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 244.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 2      | A8SE (S)                               | 868                          | 5       | 327263<br>341960 |
| 130    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 209.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Dyfrdwy<br>Catchment Name: Dee<br>Primacy: 1      | A8SE (S)                               | 874                          | 5       | 327240<br>341954 |
| 131    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 109.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A8SE (S)                               | 876                          | 5       | 327426<br>341976 |
| 132    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 931.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18NE (N)                              | 884                          | 5       | 327447<br>343714 |
| 133    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 363.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1      | A18NE (N)                              | 884                          | 5       | 327447<br>343714 |

| Map ID | Details                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 134    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 60.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A12NW (W)                              | 888                          | 5       | 326323<br>342945 |
| 135    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 214.0<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1           | A17NE (NW)                             | 901                          | 5       | 326621<br>343532 |
| 136    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1436.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1     | A17NE (NW)                             | 901                          | 5       | 326621<br>343532 |
| 137    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 84.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1       | A7NW (SW)                              | 901                          | 5       | 326501<br>342280 |
| 138    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 182.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 2      | A8SE (S)                               | 934                          | 5       | 327334<br>341901 |
| 139    | <b>OS Water Network Lines</b><br>Watercourse Form: Reservoir<br>Watercourse Length: 63.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gwernydd Reservoir<br>Catchment Name: Dee<br>Primacy: 1    | A12NW (W)                              | 941                          | 5       | 326269<br>342928 |
| 140    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 157.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Tref-y-nant Brook<br>Catchment Name: Dee<br>Primacy: 1 | A8SE (S)                               | 950                          | 5       | 327364<br>341889 |
| 141    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 14.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1            | A7NW (SW)                              | 958                          | 5       | 326419<br>342297 |
| 142    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1        | A7NW (SW)                              | 966                          | 5       | 326405<br>342301 |

| Map ID | Details                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 143    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 22.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1          | A7NW (SW)                              | 970                          | 5       | 326400<br>342302 |
| 144    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 94.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1    | A7NW (SW)                              | 982                          | 5       | 326379<br>342311 |
| 145    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 164.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1   | A12NW (W)                              | 993                          | 5       | 326215<br>342926 |
| 146    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 151.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Dee<br>Primacy: 1   | A12NW (W)                              | 993                          | 5       | 326215<br>342926 |
| 147    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 456.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gronwen Stream<br>Catchment Name: Dee<br>Primacy: 1 | A12NW (W)                              | 1000                         | 5       | 326233<br>343078 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 148    | <b>Historical Landfill Sites</b><br>Licence Holder: J C Edward<br>Location: Trevor, Llangollen, Clwyd<br>Name: Edwards Brickyard<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHL14128<br>First Input Date: 31st December 1987<br>Last Input Date: 31st December 1995<br>Specified Waste: Deposited Waste included Inert, Industrial and Household Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0026<br>BGS Ref: Not Supplied<br>Other Ref: Not Supplied                     | A13SE (SE)                             | 127                          | 2       | 327288 342722 |
| 149    | <b>Historical Landfill Sites</b><br>Licence Holder: Northern Strip Mining<br>Location: Acrefair, Wrexham, Clwyd<br>Name: The Delph<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHL15133<br>First Input Date: 30th November 1981<br>Last Input Date: 31st December 1986<br>Specified Waste: Deposited Waste included Inert, Industrial, Household and Special Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0054<br>BGS Ref: Not Supplied<br>Other Ref: WMBC L/32             | A18SE (NE)                             | 607                          | 2       | 327526 343388 |
| 150    | <b>Historical Landfill Sites</b><br>Licence Holder: Air Products UK Limited<br>Location: Llangollen Road, Wrexham, Acrefair<br>Name: Air Products<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHL14748<br>First Input Date: 1st September 1977<br>Last Input Date: 31st December 1991<br>Specified Waste: Deposited Waste included Inert and Industrial Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0002<br>BGS Ref: Not Supplied<br>Other Ref: WMBC L/8, WMBC L/58        | A14NW (E)                              | 662                          | 2       | 327871 343040 |
| 151    | <b>Historical Landfill Sites</b><br>Licence Holder: Air Products United Kingdom Limited<br>Location: Acrefair, Wrexham, Clwyd<br>Name: Air Products Social Club<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHL14241<br>First Input Date: 31st December 1950<br>Last Input Date: 31st December 1960<br>Specified Waste: Deposited Waste included Inert and Industrial Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0003<br>BGS Ref: Not Supplied<br>Other Ref: Not Supplied | A19SW (NE)                             | 716                          | 2       | 327857 343210 |
| 152    | <b>Historical Landfill Sites</b><br>Licence Holder: Not Supplied<br>Location: Dolydd Lane, Cefn Mawr<br>Name: Cestria<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHL14247<br>First Input Date: 31st December 1990<br>Last Input Date: 31st December 1994<br>Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0020<br>BGS Ref: Not Supplied<br>Other Ref: Not Supplied           | A9SW (SE)                              | 797                          | 2       | 327599 342128 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 153    | <b>Historical Landfill Sites</b><br>Licence Holder: Monsanto Plc<br>Location: Rhosmedre<br>Name: Rhosmedre Quarry<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD15135<br>First Input Date: Not Supplied<br>Last Input Date: Not Supplied<br>Specified Waste: Deposited Waste included Industrial and Household Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6955/0071<br>BGS Ref: Not Supplied<br>Other Ref: L17                                                                                                                                                                                                                                                                                                                                                                              | A14SE (E)                              | 835                          | 2       | 328019 342560 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Denbighshire County Council<br>- Has supplied landfill data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        | 0                            | 6       | 327221 342844 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Wrexham County Borough Council<br>- Has supplied landfill data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        | 24                           | 7       | 327241 342879 |
| 154    | <b>Local Authority Recorded Landfill Sites</b><br>Location: Air Products Social Club, Bethania Road, Acrefair, Wrexham<br>Reference: 6955/0003<br>Authority: Wrexham County Borough Council<br><b>Last Reported Status:</b> Closed<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Good                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A19SW (NE)                             | 716                          | 7       | 327857 343210 |
| 155    | <b>Local Authority Recorded Landfill Sites</b><br>Location: Cestria, Dolydd Lane, Cefn Mawr, Wrexham<br>Reference: 6955/0020<br>Authority: Wrexham County Borough Council<br><b>Last Reported Status:</b> Closed<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Good                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A9SW (SE)                              | 794                          | 7       | 327598 342131 |
| 156    | <b>Registered Landfill Sites</b><br>Licence Holder: Air Products Ltd<br>Licence Reference: L58<br>Site Location: Llangollen Road, Acrefair, Wrexham, Clwyd<br>Licence Easting: 328000<br>Licence Northing: 343095<br>Operator Location: As Site Address<br>Authority: Environment Agency Wales, North Area<br>Site Category: Landfill<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st February 1992<br>Preceded By: Not Given<br>Licence:<br>Superseded By: Not Given<br>Licence:<br>Positional Accuracy: Manually positioned to the road within the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Hardcore/Concrete | A14NE (E)                              | 702                          | 3       | 327905 343064 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 157    | <b>Registered Landfill Sites</b><br>Licence Holder: Air Products Ltd<br>Licence Reference: L 8<br>Site Location: Air Products Ltd, Acrefair, Wrexham, Clwyd<br>Licence Easting: 328000<br>Licence Northing: 343300<br>Operator Location: As Site Address<br>Authority: Environment Agency Wales, North Area<br>Site Category: Landfill<br>Max Input Rate: Undefined<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st June 1977<br>Preceded By: Not Given<br>Licence:<br>Superseded By: Not Given<br>Licence:<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Hardcore<br>Solid Fill                                                                                                                                                    | A19SE (NE)                             | 885                          | 3       | 328000<br>343300 |
| 158    | <b>Registered Landfill Sites</b><br>Licence Holder: Monsanto Ltd<br>Licence Reference: L17A<br>Site Location: Rhosymedre Quarry, Rhosymedre, Wrexham, Clwyd<br>Licence Easting: 328100<br>Licence Northing: 342550<br>Operator Location: As Site Address<br>Authority: Environment Agency Wales, North Area<br>Site Category: Landfill<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st May 1990<br>Preceded By: L17<br>Licence:<br>Superseded By: L17<br>Licence:<br>Positional Accuracy: Manually positioned to the road within the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Excavated Waste<br>Max.Waste Permitted By Licence Stated<br>Salicylic Acid/Aspirin Ex Monsanto<br>Uncontam. Constr'N/Demol. Wastes | A14SE (E)                              | 914                          | 3       | 328100<br>342550 |
| 158    | <b>Registered Landfill Sites</b><br>Licence Holder: Monsanto Ltd<br>Licence Reference: L17<br>Site Location: Rhosymedre Quarry, Rhosymedre, Wrexham, Clwyd<br>Licence Easting: 328100<br>Licence Northing: 342550<br>Operator Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd<br>Authority: Environment Agency Wales, North Area<br>Site Category: Landfill<br>Max Input Rate: Undefined<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st September 1977<br>Preceded By: L17A<br>Licence:<br>Superseded By: L17A<br>Licence:<br>Positional Accuracy: Manually positioned to the road within the address or location<br>Boundary Accuracy: Not Applicable<br>Authorised Waste: Building Rubble<br>Empty Used Containers<br>Glass<br>Nitrogen/Sulphur Compounds<br>Pharmaceutical Products<br>Plastics                  | A14SE (E)                              | 914                          | 3       | 328100<br>342550 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 159    | <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Reference: Not Supplied<br>Type: Upper Tier<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                                                                                                                                                           | A14SW (E)                              | 408                          | 8       | 327642 342831 |
| 159    | <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Name: Clariant Uk Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Reference: 1021439<br>Type: Lower Tier<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                                                                                                                                                                             | A14SW (E)                              | 408                          | 8       | 327642 342831 |
| 159    | <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Name: Nipa Laboratories Ltd<br>Location: C/O FLEXSYS RUBBER CHEMICALS, TCC UNIT RUABON WORKS, CEFN MAWR WREXHAM, WREXHAM, Clwyd, LL14 3SL<br>Reference: Not Supplied<br>Type: Lower Tier<br><b>Status: Record Ceased To Be Supplied Under COMAH Regulations</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                                                                     | A14SW (E)                              | 408                          | 8       | 327642 342831 |
| 160    | <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Name: Flexsys Limited<br>Location: Ruabon Works, WREXHAM, Clwyd, LL14 3SL<br><b>Status: Not Active</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A14SW (E)                              | 417                          | 8       | 327652 342836 |
| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Monsanto Plc<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: 6/0002/0627<br>Hazardous: Unknown at time of report<br>Substance: Unknown at time of report<br>Maximum Quantity: 62<br>Application date: 12th August 1992<br><b>Decision: Deemed Consent Granted</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                  | A14SW (E)                              | 403                          | 9       | 327637 342815 |
| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: Cb3736/Hs<br>Hazardous: Unknown at time of report<br>Substance: Unknown at time of report<br>Maximum Quantity: .1<br>Application date: 11th October 1999<br><b>Decision: Deemed Consent Granted</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                   | A14SW (E)                              | 408                          | 9       | 327642 342831 |
| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: Cb3736/Hs<br>Hazardous: Part B, Highly Reactive and Explosive Substance, Liquid Oxygen, where amount held is greater than or equal to 500 tonnes<br>Substance: Part B, Highly Reactive and Explosive Substance, Liquid Oxygen, where amount held is greater than or equal to 500 tonnes<br>Maximum Quantity: 100<br>Application date: 11th October 1999<br><b>Decision: Unknown at time of report</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 408                          | 9       | 327642 342831 |
| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: Cb3736/Hs<br>Hazardous: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes<br>Substance: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes<br>Maximum Quantity: 74<br>Application date: 11th October 1999<br><b>Decision: Unknown at time of report</b><br>Positional Accuracy: Automatically positioned to the address                                            | A14SW (E)                              | 408                          | 9       | 327642 342831 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: Cb3736/Hs<br>Hazardous Substance: Part C, Flammable Substance (Not in Parts A&B), Substances flammable in air above their Bpt, as a liquid or with gas at >1.4bar, amount held is >=25t<br>Maximum Quantity: 7112<br>Application date: 11th October 1999<br><b>Decision: Unknown at time of report</b><br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 408                          | 9       | 327642 342831 |
| 161    | <b>Planning Hazardous Substance Consents</b><br>Name: Monsanto Plc<br>Location: Ruabon Works, CEFN MAWR, Wrexham, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: 20627/Hs<br>Hazardous Substance: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes<br>Maximum Quantity: 63<br>Application date: 12th August 1992<br><b>Decision: Deemed Consent Granted</b><br>Positional Accuracy: Automatically positioned to the address                                                                             | A14SW (E)                              | 408                          | 9       | 327642 342815 |
| 162    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Dupont Air Products Nano Materials Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: P/2008/0207<br>Hazardous Substance: Very toxic<br>Maximum Quantity: 37<br>Application date: 28th February 2008<br><b>Decision: Withdrawn</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                           | A14SW (SE)                             | 467                          | 9       | 327657 342646 |
| 162    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: P/2001/0606<br>Hazardous Substance: Very toxic<br>Maximum Quantity: 12<br>Application date: 27th June 2001<br><b>Decision: Withdrawn</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                                                 | A14SW (SE)                             | 467                          | 9       | 327657 342646 |
| 163    | <b>Planning Hazardous Substance Consents</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL<br>Authority: Wrexham County Borough Council, Planning Department<br>Application Ref: CB/19993736<br>Hazardous Substance: Chlorine<br>Maximum Quantity: 62<br>Application date: 11th October 1999<br><b>Decision: Deemed Consent Granted</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                                   | A9NW (SE)                              | 636                          | 9       | 327762 342489 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)                                                                                                                                                                                                                                                                                                                                                                                                                    | A13NE (E)                              | 0                            | 1       | 327221 342844 |
| 164    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Tref-Y-Nant<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185696<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m              | A13SW (S)                              | 302                          | 1       | 327187 342527 |
| 164    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Tref-Y-Nant<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185695<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m              | A8NW (S)                               | 332                          | 1       | 327194 342496 |
| 165    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Tre-Y-Nant Hall<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185691<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m          | A13NE (NE)                             | 377                          | 1       | 327514 343109 |
| 166    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Edward'S Clay Pit<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98661<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m | A14NW (E)                              | 465                          | 1       | 327700 342855 |
| 166    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Plas Kynaston<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185699<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m            | A14NW (E)                              | 472                          | 1       | 327706 342875 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 167    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Mill Inn<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185694<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m       | A8NE (SE)                              | 504                          | 1       | 327476<br>342395 |
| 168    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Plas Kynaston<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185692<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m  | A14SW (SE)                             | 513                          | 1       | 327690<br>342609 |
| 169    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Plas-Aber-Nant<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185698<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A14SW (E)                              | 551                          | 1       | 327777<br>342750 |
| 170    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Mill Inn<br>Location: Cefn-Mawr, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185693<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m       | A9NW (SE)                              | 589                          | 1       | 327628<br>342406 |
| 171    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works Coal Pit<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98680<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                                         | A18SE (N)                              | 612                          | 1       | 327385<br>343450 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 171    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 14102<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation<br>Commodity: Fireclay<br>Positional Accuracy: Located by supplier to within 10m                                                    | A18SE (N)                              | 637                          | 1       | 327385<br>343475 |
| 172    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Trevor-Isaf<br>Location: Garth, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185711<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A9NW (SE)                              | 696                          | 1       | 327613<br>342256 |
| 173    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Garth Brickworks<br>Location: Trevor, Llangollen, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 7086<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                                                                  | A12SW (W)                              | 750                          | 1       | 326480<br>342650 |
| 174    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works Coal Pit<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98681<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                                  | A18NE (N)                              | 753                          | 1       | 327405<br>343590 |
| 175    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Caeglo Colliery, Bye Pit<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98670<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                                        | A14NE (E)                              | 777                          | 1       | 328010<br>342900 |
| 176    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98676<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Fireclay<br>Positional Accuracy: Located by supplier to within 10m                                                              | A18NE (N)                              | 818                          | 1       | 327355<br>343665 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 177    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Caeglo Colliery, Wards Deep Engine Pit<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98671<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                     | A14NE (E)                              | 820                          | 1       | 328055<br>342860 |
| 178    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Garth Trevor Quarry<br>Location: Ruabon, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 242273<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Gwespys Sandstone<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                                          | A7NW (SW)                              | 825                          | 1       | 326466<br>342476 |
| 179    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98677<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Fireclay<br>Positional Accuracy: Located by supplier to within 10m                                                         | A19SW (NE)                             | 851                          | 1       | 327780<br>343510 |
| 180    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Garth Trevor Quarry<br>Location: Ruabon, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 5649<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Gwespys Sandstone<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                                            | A12SW (W)                              | 856                          | 1       | 326408<br>342532 |
| 181    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Stone Quarries<br>Location: Cefn Mawr, Ruabon, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 198579<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Individual'S Name Withheld<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Cefn Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                      | A14SE (E)                              | 858                          | 1       | 328037<br>342541 |
| 182    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Delph<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185703<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A19SW (NE)                             | 878                          | 1       | 327894<br>343436 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 183    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Mawr<br>Location: Cefn Mawr, Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 8455<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Cefn Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                                            | A9NE (SE)                              | 882                          | 1       | 327996 342400 |
| 184    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Stone Quarries<br>Location: Cefn Mawr, Ruabon, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 198580<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Cefn Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                                         | A9NE (SE)                              | 890                          | 1       | 327964 342336 |
| 185    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185702<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m        | A19NW (NE)                             | 894                          | 1       | 327597 343674 |
| 186    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Delph Cottages<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185679<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A19NW (NE)                             | 898                          | 1       | 327728 343607 |
| 187    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Colliery<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98673<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                                                       | A9SW (SE)                              | 903                          | 1       | 327730 342085 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 188    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185687<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N)                              | 905                          | 1       | 327474 343729 |
| 189    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Penbedw Fireclay Works<br>Location: Acrefair, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98678<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Fireclay<br>Positional Accuracy: Located by supplier to within 10m                                                           | A19NW (NE)                             | 923                          | 1       | 327660 343675 |
| 190    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Stone Quarries, No. 1<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 14103<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Individual'S Name Withheld<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Cefn Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                | A14SE (E)                              | 924                          | 1       | 328110 342550 |
| 191    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Delph<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185704<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m   | A19SE (NE)                             | 958                          | 1       | 327988 343448 |
| 192    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Colliery, Cae Gwily Pit<br>Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 98672<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Coal Measures Group<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m                                                 | A9SW (SE)                              | 960                          | 1       | 327735 342020 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 193    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Delph Cottages<br>Location: Ruabon, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185690<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated)<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A19NW (NE)                             | 966                          | 1       | 327654 343727 |
| 194    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Delph Brick & Tile Works<br>Location: Delph, Ruabon, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 14106<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Pennine Lower Coal Measures Formation<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                                                        | A19NW (NE)                             | 978                          | 1       | 327875 343595 |
| 195    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Gwernydd Clay Pit<br>Location: Garth, Wrexham, Denbighshire<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 185713<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: Till, Devensian<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                                                                               | A12SW (W)                              | 980                          | 1       | 326227 342788 |
| 196    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cefn Stone Quarries, No. 2<br>Location: Cefn-Mawr, Ruabon, Clwyd<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 14104<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Individual's Name Withheld<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: Cefn Rock<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                                                                                | A14SE (E)                              | 998                          | 1       | 328230 342775 |
|        | <b>Coal Mining Affected Areas</b><br>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.                                                                                                                                                                                                                                                                                        | A13NE (E)                              | 0                            | 10      | 327221 342844 |
|        | <b>Mining Instability</b><br>Mining Evidence: Inconclusive Coal Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                                          | A13NE (E)                              | 0                            | -       | 327221 342844 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                                            | A13NE (E)                              | 0                            | 1       | 327221 342844 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                           | A13NE (E)                              | 0                            | 1       | 327221 342844 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                         | A13NE (E)                              | 0                            | 1       | 327221 342844 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                          | A13NE (E)                              | 0                            | 1       | 327221 342844 |

| Map ID | Details                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13NE (N)                              | 0                            | 1       | 327221<br>342847 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13SE (SE)                             | 65                           | 1       | 327268<br>342786 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NW (NW)                             | 80                           | 1       | 327143<br>342893 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NW (N)                              | 83                           | 1       | 327200<br>342939 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NW (NW)                             | 120                          | 1       | 327123<br>342931 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NW (NW)                             | 209                          | 1       | 327059<br>342993 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                    | A13SE (E)                              | 0                            | 1       | 327231<br>342841 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                      | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                     | A13SE (S)                              | 0                            | 1       | 327222<br>342834 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>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).<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (E)                              | 0                            | 1       | 327221<br>342844 |

| Map ID | Details                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 197    | <b>Contemporary Trade Directory Entries</b><br>Name: S E Jones (Acrefair) Ltd<br>Location: Trefynant Offices, Trefynant Park, Acrefair, Wrexham, Clwyd, LL14 3SR<br>Classification: Road Haulage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A13SE (E)                              | 80                           | -       | 327307<br>342811 |
| 198    | <b>Contemporary Trade Directory Entries</b><br>Name: Spray 1<br>Location: 14, Wenfryn Close, Trevor, Llangollen, LL20 7TU<br>Classification: Spraying - Paint & Coatings<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                    | A13SW (SW)                             | 312                          | -       | 327042<br>342569 |
| 199    | <b>Contemporary Trade Directory Entries</b><br>Name: Sita Uk Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Classification: Waste Disposal Services<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned to the address or location                           | A14SW (E)                              | 408                          | -       | 327642<br>342831 |
| 199    | <b>Contemporary Trade Directory Entries</b><br>Name: Flexsys Rubber Chemicals Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Classification: Chemical Manufacturers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                | A14SW (E)                              | 408                          | -       | 327642<br>342831 |
| 199    | <b>Contemporary Trade Directory Entries</b><br>Name: D A Nano Materials Ltd<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Classification: Chemicals & Allied Products<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                 | A14SW (E)                              | 408                          | -       | 327642<br>342831 |
| 199    | <b>Contemporary Trade Directory Entries</b><br>Name: New Dubs<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Classification: Classic Car Specialists<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                            | A14SW (E)                              | 408                          | -       | 327642<br>342830 |
| 199    | <b>Contemporary Trade Directory Entries</b><br>Name: Gmg Sales<br>Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL<br>Classification: Agricultural Engineers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                            | A14SW (E)                              | 408                          | -       | 327642<br>342830 |
| 200    | <b>Contemporary Trade Directory Entries</b><br>Name: The Garage<br>Location: Llangollen Road, Acrefair, WREXHAM, Clwyd, LL14 3RS<br>Classification: Petrol Filling Stations<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                               | A14NW (E)                              | 522                          | -       | 327730<br>343021 |
| 201    | <b>Contemporary Trade Directory Entries</b><br>Name: Jones<br>Location: King Street, Acrefair, Wrexham, Clwyd, LL14 3RH<br>Classification: Bus & Coach Operators & Stations<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                               | A14NW (E)                              | 583                          | -       | 327811<br>342940 |
| 201    | <b>Contemporary Trade Directory Entries</b><br>Name: G Roberts<br>Location: King Street, Acrefair, Wrexham, Clwyd, LL14 3RH<br>Classification: Car Body Repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                           | A14NW (E)                              | 586                          | -       | 327816<br>342926 |
| 202    | <b>Contemporary Trade Directory Entries</b><br>Name: Deescan<br>Location: Unit 1, Rose Hill Enterprise Park, Cefn Mawr, Wrexham, Clwyd, LL14 3QA<br>Classification: Control Panels<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                          | A14SW (E)                              | 589                          | -       | 327823<br>342833 |
| 203    | <b>Contemporary Trade Directory Entries</b><br>Name: Aquaduct Garage<br>Location: Llangollen Road, Trevor, Llangollen, LL20 7TF<br>Classification: Garage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                          | A7NE (SW)                              | 649                          | -       | 326658<br>342494 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 203    | <b>Contemporary Trade Directory Entries</b><br>Name: Chris' Motors<br>Location: Llangollen Road, Trevor, Llangollen, Clwyd, LL20 7TF<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                             | A7NE (SW)                              | 654                          | -       | 326654 342492 |
| 204    | <b>Contemporary Trade Directory Entries</b><br>Name: Clwyd Fragrance<br>Location: 12, Cae Bedw, Acrefair, Wrexham, Clwyd, LL14 3TW<br>Classification: Perfume Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                             | A19SW (NE)                             | 739                          | -       | 327752 343384 |
| 205    | <b>Contemporary Trade Directory Entries</b><br>Name: S Jones<br>Location: Llangollen, LL20 7TB<br>Classification: Road Haulage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                                                               | A7NE (SW)                              | 773                          | -       | 326585 342382 |
| 206    | <b>Contemporary Trade Directory Entries</b><br>Name: Thyngs Done<br>Location: D Jackson, 16, Crane Street, Wrexham, LL14 3AB<br>Classification: Art Restoration & Picture Cleaning<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                  | A9NW (SE)                              | 812                          | -       | 327834 342298 |
| 207    | <b>Contemporary Trade Directory Entries</b><br>Name: Info-Net Corporation<br>Location: 53 Crane St, Cefn Mawr, Wrexham, Clwyd, LL14 3AB<br>Classification: Waste Disposal Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location                           | A9NW (SE)                              | 881                          | -       | 327886 342252 |
| 208    | <b>Contemporary Trade Directory Entries</b><br>Name: W T E Printers<br>Location: High Street, Cefn Mawr, Wrexham, Clwyd, LL14 3DA<br>Classification: Printers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                                         | A9NE (SE)                              | 890                          | -       | 327925 342284 |
| 209    | <b>Contemporary Trade Directory Entries</b><br>Name: Kinderkey Healthcare Ltd<br>Location: Crane St, Cefn Mawr, Wrexham, Clwyd, LL14 3AB<br>Classification: Disability Equipment - Manufacturers & Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location | A9NE (SE)                              | 912                          | -       | 327911 342234 |
| 209    | <b>Contemporary Trade Directory Entries</b><br>Name: Festival Fireworks<br>Location: Cherry Tree House, High Street, Cefn Mawr, Wrexham, Clwyd, LL14 3BY<br>Classification: Firework Stockists<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                        | A9NE (SE)                              | 919                          | -       | 327923 342236 |
| 209    | <b>Contemporary Trade Directory Entries</b><br>Name: A E Roberts<br>Location: Minffordd, Crane Street, Cefn Mawr, Wrexham, Clwyd, LL14 3AB<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                     | A9NE (SE)                              | 952                          | -       | 327943 342210 |
| 210    | <b>Contemporary Trade Directory Entries</b><br>Name: Air Products Plc<br>Location: Llangollen Road, Acrefair, Wrexham, Clwyd, LL14 3HW<br>Classification: Gas Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                             | A19SE (E)                              | 962                          | -       | 328139 343184 |
| 211    | <b>Fuel Station Entries</b><br>Name: The Garage<br>Location: A439, Acrefair, Wrexham, Wrexham, LL14 3RS<br>Brand: Uk<br>Premises Type: Not Applicable<br><b>Status:</b> Obsolete<br>Positional Accuracy: Automatically positioned to the address                                                                               | A14NW (E)                              | 522                          | -       | 327730 343021 |

| Map ID | Details                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 212    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37529<br>Area(m²): 3378.88<br>Type: Restored Ancient Woodland Site    | A13NE (N)                              | 51                           | 2       | 327226<br>342909 |
| 213    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37530<br>Area(m²): 41863.03<br>Type: Restored Ancient Woodland Site   | A13NW (NW)                             | 206                          | 2       | 327093<br>343022 |
| 214    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37531<br>Area(m²): 2602.57<br>Type: Restored Ancient Woodland Site    | A18SW (N)                              | 551                          | 2       | 327014<br>343370 |
| 215    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 31114<br>Area(m²): 67892.86<br>Type: Restored Ancient Woodland Site   | A18SW (N)                              | 570                          | 2       | 327002<br>343385 |
| 216    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37511<br>Area(m²): 6531.27<br>Type: Restored Ancient Woodland Site    | A12NE (W)                              | 638                          | 2       | 326601<br>343047 |
| 217    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37509<br>Area(m²): 1390.02<br>Type: Restored Ancient Woodland Site    | A8SW (S)                               | 701                          | 2       | 327094<br>342138 |
| 218    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 31108<br>Area(m²): 22187.86<br>Type: Restored Ancient Woodland Site   | A8SW (S)                               | 706                          | 2       | 327094<br>342132 |
| 219    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34234<br>Area(m²): 4847.01<br>Type: Ancient and Semi-Natural Woodland | A7NE (SW)                              | 723                          | 2       | 326703<br>342319 |
| 220    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37508<br>Area(m²): 2534.27<br>Type: Restored Ancient Woodland Site    | A8SE (S)                               | 761                          | 2       | 327440<br>342100 |
| 221    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34232<br>Area(m²): 4092.19<br>Type: Ancient and Semi-Natural Woodland | A8SW (S)                               | 775                          | 2       | 326970<br>342093 |
| 222    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37510<br>Area(m²): 32638.3<br>Type: Restored Ancient Woodland Site    | A7NE (SW)                              | 775                          | 2       | 326800<br>342174 |
| 223    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34233<br>Area(m²): 9688.46<br>Type: Ancient and Semi-Natural Woodland | A7NE (SW)                              | 782                          | 2       | 326785<br>342175 |
| 224    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37507<br>Area(m²): 5296.04<br>Type: Restored Ancient Woodland Site    | A9SW (SE)                              | 821                          | 2       | 327589<br>342095 |
| 225    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34231<br>Area(m²): 4836.41<br>Type: Ancient and Semi-Natural Woodland | A8SW (S)                               | 836                          | 2       | 326978<br>342027 |

| Map ID | Details                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 226    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37512<br>Area(m²): 29778.83<br>Type: Restored Ancient Woodland Site                                                                                                                                                                                      | A12NW (W)                              | 836                          | 2       | 326378<br>342962 |
| 227    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 31109<br>Area(m²): 13996.37<br>Type: Restored Ancient Woodland Site                                                                                                                                                                                      | A17SW (NW)                             | 912                          | 2       | 326463<br>343373 |
| 228    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34230<br>Area(m²): 5864.42<br>Type: Ancient and Semi-Natural Woodland                                                                                                                                                                                    | A8SE (S)                               | 919                          | 2       | 327314<br>341914 |
| 229    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 34229<br>Area(m²): 11128.39<br>Type: Ancient and Semi-Natural Woodland                                                                                                                                                                                   | A8SW (S)                               | 961                          | 2       | 327033<br>341884 |
| 230    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 37506<br>Area(m²): 99436.7<br>Type: Restored Ancient Woodland Site                                                                                                                                                                                       | A7SE (SW)                              | 965                          | 2       | 326767<br>341974 |
| 231    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 47264<br>Area(m²): 7982.21<br>Type: Plantation on Ancient Woodland                                                                                                                                                                                       | A12NW (W)                              | 972                          | 2       | 326240<br>342959 |
| 232    | <b>Areas of Outstanding Natural Beauty</b><br>Name: Bryniau Clwyd A Dyffryn Dyfrdwy/Clwydian Range And Dee Valley<br>Multiple Areas: N<br>Total Area (m2): 389277308.58<br>Designation Date: 22nd November 2011<br>Source: Natural Resources Wales                                                                   | A13SE (S)                              | 305                          | 2       | 327250<br>342524 |
| 233    | <b>Sites of Special Scientific Interest</b><br>Name: Afon Dyfrdwy (River Dee)<br>Multiple Areas: Y<br>Total Area (m2): 14914217.92<br>Source: Natural Resources Wales<br>Reference: 255431wdw<br>Designation Details: Mixed Biological And Geological<br>Designation Date: 30th November 1995<br>Date Type: Notified | A8SW (S)                               | 768                          | 2       | 326994<br>342092 |
| 234    | <b>Special Areas of Conservation</b><br>Name: River Dee And Bala Lake / Afon Dyfrdwy A Llyn Tegid (Wales)<br>Multiple Areas: Y<br>Total Area (m2): 11498849.64<br>Source: Natural Resources Wales<br>Reference: UK0030252<br>Status: Designated                                                                      | A8SW (S)                               | 768                          | 2       | 326994<br>342092 |
| 235    | <b>World Heritage Sites</b><br>Name: Pontcysyllte Aqueduct and Canal<br>Reference: 0<br>Area(m²): 42638390.693<br>Source: Welsh Historic Environment Service (Cadw)<br>Designation Date: Not Supplied                                                                                                                | A13SW (SW)                             | 20                           | 11      | 327197<br>342818 |
| 236    | <b>World Heritage Sites</b><br>Name: Pontcysyllte Aqueduct and Canal<br>Reference: 1000106<br>Area(m²): 41605519.55<br>Source: Historic England<br>Designation Date: 1st January 2009                                                                                                                                | A13SW (SW)                             | 20                           | 12      | 327197<br>342818 |
| 237    | <b>World Heritage Sites</b><br>Name: Pontcysyllte Aqueduct and Canal<br>Reference: 0<br>Area(m²): 1032871.102<br>Source: Welsh Historic Environment Service (Cadw)<br>Designation Date: 31st December 2009                                                                                                           | A13SE (S)                              | 300                          | 11      | 327241<br>342528 |

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| 238    | <b>World Heritage Sites</b><br>Name: Pontcysyllte Aqueduct and Canal<br>Reference: 1000106<br>Area(m <sup>2</sup> ): 1032871.21<br>Source: Historic England<br>Designation Date: 1st January 2009 | A13SE (S)                              | 300                          | 12      | 327241<br>342528 |

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| Agency & Hydrological                                                                                                                                                                                                                                                                                                                                            | Version                                                       | Update Cycle                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Wrexham County Borough Council - Public Protection Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department<br>Denbighshire County Council - Public Protection Department<br>Shropshire Council - Environmental Health Department                      | April 2016<br>December 2008<br><br>January 2015<br>March 2015 | Annually<br>Not Applicable<br><br>Annual Rolling Update<br>Annually          |
| <b>Discharge Consents</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                        | August 2014<br>October 2018                                   | Quarterly<br>Quarterly                                                       |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region                                                                                                                                                                                                                                          | March 2013<br>March 2013                                      | Annual Rolling Update<br>Annual Rolling Update                               |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                | October 2008<br>October 2008                                  | Variable<br>Variable                                                         |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                       | October 2018<br>October 2018<br>October 2018                  | Quarterly<br>Quarterly<br>Quarterly                                          |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Wrexham County Borough Council - Environmental Health Department<br>Denbighshire County Council - Environmental Health Department<br>Shropshire Council - Environmental Health Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department   | April 2014<br>March 2013<br>October 2014<br>September 2008    | Variable<br>Variable<br>Variable<br>Not Applicable                           |
| <b>Local Authority Pollution Prevention and Controls</b><br>Wrexham County Borough Council - Environmental Health Department<br>Denbighshire County Council - Environmental Health Department<br>Shropshire Council - Environmental Health Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department             | April 2014<br>December 2014<br>October 2014<br>September 2008 | Annual Rolling Update<br>Annual Rolling Update<br>Annually<br>Not Applicable |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Wrexham County Borough Council - Environmental Health Department<br>Denbighshire County Council - Environmental Health Department<br>Shropshire Council - Environmental Health Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department | April 2014<br>December 2014<br>October 2014<br>September 2008 | Variable<br>Variable<br>Variable<br>Not Applicable                           |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                                                                                                                                          | September 2017                                                |                                                                              |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                                             | December 1998                                                 | Not Applicable                                                               |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                     | July 2015<br>March 2013<br>March 2013                         | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update      |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                        | March 2013<br>March 2013<br>March 2013                        | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update      |
| <b>Registered Radioactive Substances</b><br>Natural Resources Wales<br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region                                                                                                                                                                                                                 | January 2015<br>January 2015<br>January 2015                  | Annually                                                                     |

| Agency & Hydrological                                                                                                                                                                                                                | Version                                                      | Update Cycle                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                             | November 2001                                                | Not Applicable                                   |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                     | July 2012                                                    | Annually                                         |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                   | July 2012                                                    | Annually                                         |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area<br>Natural Resources Wales | October 2018<br>October 2018<br>October 2018<br>October 2018 | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly |
| <b>Water Abstractions</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                            | October 2018<br>October 2018                                 | Quarterly<br>Quarterly                           |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                          | October 2017<br>October 2017<br>October 2018                 | Quarterly<br>Quarterly<br>Quarterly              |
| <b>Groundwater Vulnerability</b><br>Environment Agency - Head Office                                                                                                                                                                 | April 2015                                                   | Not Applicable                                   |
| <b>Drift Deposits</b><br>Environment Agency - Head Office                                                                                                                                                                            | January 1999                                                 | Not Applicable                                   |
| <b>Bedrock Aquifer Designations</b><br>Natural Resources Wales                                                                                                                                                                       | January 2018                                                 | Annually                                         |
| <b>Superficial Aquifer Designations</b><br>Natural Resources Wales                                                                                                                                                                   | January 2018                                                 | Annually                                         |
| <b>Source Protection Zones</b><br>Natural Resources Wales                                                                                                                                                                            | November 2016                                                | Annual Rolling Update                            |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Natural Resources Wales                                                                                                                                               | February 2018                                                | Quarterly                                        |
| <b>Flooding from Rivers or Sea without Defences</b><br>Natural Resources Wales                                                                                                                                                       | February 2018                                                | Quarterly                                        |
| <b>Areas Benefiting from Flood Defences</b><br>Natural Resources Wales                                                                                                                                                               | February 2018                                                | Quarterly                                        |
| <b>Flood Water Storage Areas</b><br>Natural Resources Wales                                                                                                                                                                          | February 2018                                                | Quarterly                                        |
| <b>Flood Defences</b><br>Natural Resources Wales                                                                                                                                                                                     | November 2018                                                | Quarterly                                        |
| <b>OS Water Network Lines</b><br>Ordnance Survey                                                                                                                                                                                     | October 2018                                                 | Quarterly                                        |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                | May 2013                                                     | Annually                                         |

| Waste                                                                                                                                                                                                                                                                                                                                                   | Version                                                      | Update Cycle                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                                               | June 1996                                                    | Not Applicable                                                       |
| <b>Historical Landfill Sites</b><br>Natural Resources Wales                                                                                                                                                                                                                                                                                             | July 2017                                                    | Quarterly                                                            |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Midlands Region<br>Environment Agency - Welsh Region                                                                                                                                                                                                                 | October 2008<br>October 2008                                 | Not Applicable<br>Not Applicable                                     |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area<br>Natural Resources Wales                                                                                                   | July 2018<br>July 2018<br>July 2018<br>July 2018             | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly                     |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area<br>Natural Resources Wales                                                                                                             | October 2018<br>October 2018<br>October 2018<br>October 2018 | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly                     |
| <b>Local Authority Landfill Coverage</b><br>Denbighshire County Council - Environmental Health Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department<br>Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre<br>Wrexham County Borough Council       | May 2000<br>May 2000<br>May 2000<br>May 2000                 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Wrexham County Borough Council<br>Denbighshire County Council - Environmental Health Department<br>Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department<br>Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre | June 2003<br>May 2000<br>May 2000<br>May 2000                | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Registered Landfill Sites</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area                                                                                                                                                               | March 2003<br>March 2003<br>March 2003                       | Not Applicable<br>Not Applicable<br>Not Applicable                   |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area                                                                                                                                                         | March 2003<br>March 2003<br>March 2003                       | Not Applicable<br>Not Applicable<br>Not Applicable                   |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - Midlands Region - Upper Severn Area<br>Environment Agency - Midlands Region - West Area<br>Environment Agency Wales - North Area                                                                                                                                            | March 2003<br>March 2003<br>March 2003                       | Not Applicable<br>Not Applicable<br>Not Applicable                   |

| Hazardous Substances                                                                                                                                                                                                                                                                                                                 | Version                                                                       | Update Cycle                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                                                                                                                                                                                                | April 2018                                                                    | Bi-Annually                                                                 |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                                                                                                                                                                                                | March 2017                                                                    | Variable                                                                    |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                                                                                                                                                                                            | November 2000                                                                 | Not Applicable                                                              |
| <b>Planning Hazardous Substance Enforcements</b><br>Denbighshire County Council - Planning Department<br>Shropshire Council - Planning Department<br>Wrexham County Borough Council - Planning Department<br>Shropshire County Council (now part of Shropshire Council)<br>Oswestry Borough Council (now part of Shropshire Council) | February 2016<br>February 2016<br>February 2016<br>March 2009<br>October 2008 | Variable<br>Variable<br>Variable<br>Annual Rolling Update<br>Not Applicable |
| <b>Planning Hazardous Substance Consents</b><br>Denbighshire County Council - Planning Department<br>Shropshire Council - Planning Department<br>Wrexham County Borough Council - Planning Department<br>Shropshire County Council (now part of Shropshire Council)<br>Oswestry Borough Council (now part of Shropshire Council)     | February 2016<br>February 2016<br>February 2016<br>March 2009<br>October 2008 | Variable<br>Variable<br>Variable<br>Annual Rolling Update<br>Not Applicable |
| Geological                                                                                                                                                                                                                                                                                                                           | Version                                                                       | Update Cycle                                                                |
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                            | January 2009                                                                  | Not Applicable                                                              |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                             | November 2018                                                                 | Bi-Annually                                                                 |
| <b>CBSCB Compensation District</b><br>Cheshire Brine Subsidence Compensation Board (CBSCB)                                                                                                                                                                                                                                           | August 2011                                                                   | Not Applicable                                                              |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches                                                                                                                                                                                                                                                          | March 2014                                                                    | Annual Rolling Update                                                       |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                                                                                                                                                                                                     | October 2000                                                                  | Not Applicable                                                              |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                 | May 2015                                                                      | Not Applicable                                                              |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                     | January 2019                                                                  | Annually                                                                    |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                    | January 2019                                                                  | Annually                                                                    |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                     | January 2019                                                                  | Annually                                                                    |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                       | January 2019                                                                  | Annually                                                                    |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                    | January 2019                                                                  | Annually                                                                    |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                      | January 2019                                                                  | Annually                                                                    |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                 | July 2011                                                                     | Annually                                                                    |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                            | July 2011                                                                     | Annually                                                                    |

| Industrial Land Use                                                                                                                                | Version                                   | Update Cycle                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                                                                 | November 2018                             | Quarterly                                 |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                                                             | November 2018                             | Quarterly                                 |
| <b>Gas Pipelines</b><br>National Grid                                                                                                              | July 2014                                 |                                           |
| <b>Underground Electrical Cables</b><br>National Grid                                                                                              | December 2015                             |                                           |
| Sensitive Land Use                                                                                                                                 | Version                                   | Update Cycle                              |
| <b>Ancient Woodland</b><br>Natural Resources Wales                                                                                                 | August 2018                               | Bi-Annually                               |
| <b>Areas of Adopted Green Belt</b><br>Shropshire Council - Planning Department                                                                     | August 2018                               | As notified                               |
| <b>Areas of Unadopted Green Belt</b><br>Shropshire Council - Planning Department                                                                   | August 2018                               | As notified                               |
| <b>Areas of Outstanding Natural Beauty</b><br>Natural England<br>Natural Resources Wales                                                           | August 2018<br>August 2018                | Bi-Annually<br>Bi-Annually                |
| <b>Environmentally Sensitive Areas</b><br>Natural England<br>The National Assembly for Wales - GI Services (Department of Planning & Countryside)  | January 2017<br>January 2017              |                                           |
| <b>Forest Parks</b><br>Forestry Commission                                                                                                         | April 1997                                | Not Applicable                            |
| <b>Local Nature Reserves</b><br>Denbighshire County Council<br>Natural England<br>Wrexham County Borough Council                                   | August 2018<br>August 2018<br>August 2018 | Bi-Annually<br>Bi-Annually<br>Bi-Annually |
| <b>Marine Nature Reserves</b><br>Natural Resources Wales                                                                                           | August 2018                               | Bi-Annually                               |
| <b>National Nature Reserves</b><br>Natural Resources Wales                                                                                         | August 2018                               | Bi-Annually                               |
| <b>National Parks</b><br>Natural England<br>Natural Resources Wales                                                                                | April 2017<br>August 2018                 | Bi-Annually<br>Annually                   |
| <b>Nitrate Vulnerable Zones</b><br>Natural Resources Wales<br>The National Assembly for Wales - GI Services (Department of Planning & Countryside) | July 2017<br>October 2005                 | Bi-Annually                               |
| <b>Ramsar Sites</b><br>Natural Resources Wales                                                                                                     | February 2018                             | Bi-Annually                               |
| <b>Sites of Special Scientific Interest</b><br>Natural Resources Wales                                                                             | February 2018                             | Bi-Annually                               |
| <b>Special Areas of Conservation</b><br>Natural Resources Wales                                                                                    | August 2018                               | Bi-Annually                               |
| <b>Special Protection Areas</b><br>Natural Resources Wales                                                                                         | August 2018                               | Bi-Annually                               |
| <b>World Heritage Sites</b><br>Historic England<br>Welsh Historic Environment Service (Cadw)                                                       | July 2018<br>November 2017                | Bi-Annually<br>Bi-Annually                |

A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                                                                                                    |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordnance Survey                        |                                                                                    |
| Environment Agency                     |                                                                                    |
| Scottish Environment Protection Agency |                                                                                    |
| The Coal Authority                     |                                                                                    |
| British Geological Survey              |  <b>British Geological Survey</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL          |
| Centre for Ecology and Hydrology       |  <b>Centre for Ecology &amp; Hydrology</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |                                                                                   |
| Scottish Natural Heritage              |                                                                                  |
| Natural England                        |                                                                                  |
| Public Health England                  |                                                                                  |
| Ove Arup                               |                                                                                  |
| Peter Brett Associates                 |                                                                                  |

| Contact | Name and Address                                                                                                                                                  | Contact Details                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Environmental Science Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk                          |
| 2       | <b>Natural Resources Wales</b><br>Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP                                                                                  | Telephone: 0300 065 3000<br>Email: enquiries@naturalresourceswales.gov.uk                                                       |
| 3       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                              | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk                                                          |
| 4       | <b>Wrexham County Borough Council - Environmental Health Department</b><br>Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE                                | Telephone: 01978 297038<br>Fax: 01978 292502<br>Website: www.wrexham.gov.uk                                                     |
| 5       | <b>Ordnance Survey</b><br>Adanac Drive, Southampton, Hampshire, SO16 0AS                                                                                          | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk                 |
| 6       | <b>Denbighshire County Council - Environmental Health Department</b><br>Caledfryn, Smithfield, Denbigh, Denbighshire, LL16 3RJ                                    | Telephone: 01824 706000<br>Fax: 01824 705026<br>Website: www.denbighshire.gov.uk                                                |
| 7       | <b>Wrexham County Borough Council</b><br>Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL                                                                       | Telephone: 01978 292000<br>Fax: 01978 292502<br>Website: www.wrexham.gov.uk                                                     |
| 8       | <b>Health and Safety Executive</b><br>5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS                                                                           | Website: www.hse.gov.uk                                                                                                         |
| 9       | <b>Wrexham County Borough Council - Planning Department</b><br>Guildhall, Wrexham, LL11 1AY                                                                       | Telephone: 01978 292000<br>Fax: 01978 292502<br>Website: www.wrexham.gov.uk                                                     |
| 10      | <b>The Coal Authority - Property Searches</b><br>200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG                                                         | Telephone: 0345 762 6848<br>Fax: 01623 637 338<br>Email: groundstability@coal.gov.uk<br>Website: www2.groundstability.com       |
| 11      | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                  | Telephone: 0844 844 9966<br>Fax: 0844 844 9951<br>Email: helpdesk@landmark.co.uk<br>Website: www.landmark.co.uk                 |
| 12      | <b>Historic England</b><br>1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST                                                                               | Telephone: 0370 333 0607<br>Email: customers@historicengland.org.uk<br>Website: www.historicengland.org.uk                      |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                   | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org                             |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

## 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

## Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buried Risk)
- EA Historic Landfill (Niyon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundry)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Post burned to 100%)
- Registered Landfill Site (Post burned to 25%)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

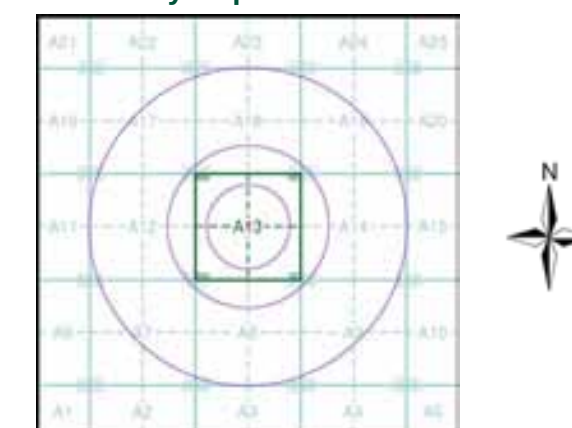
## Geological

- BGS Recorded Mineral Site

## Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- COMAH Site
- Explosive Site
- HERIS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

## Site Sensitivity Map - Slice A



## Order Details

Order Number: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 1000

## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG

## Industrial Land Use Map

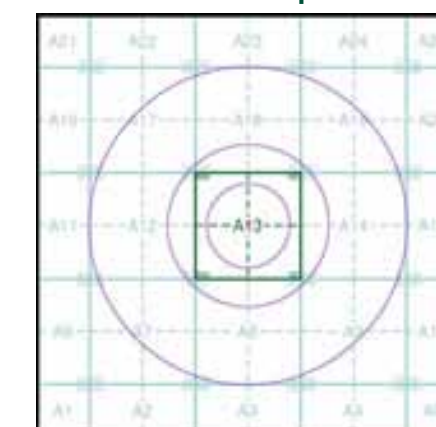
### General

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

### Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

## Industrial Land Use Map - Slice A

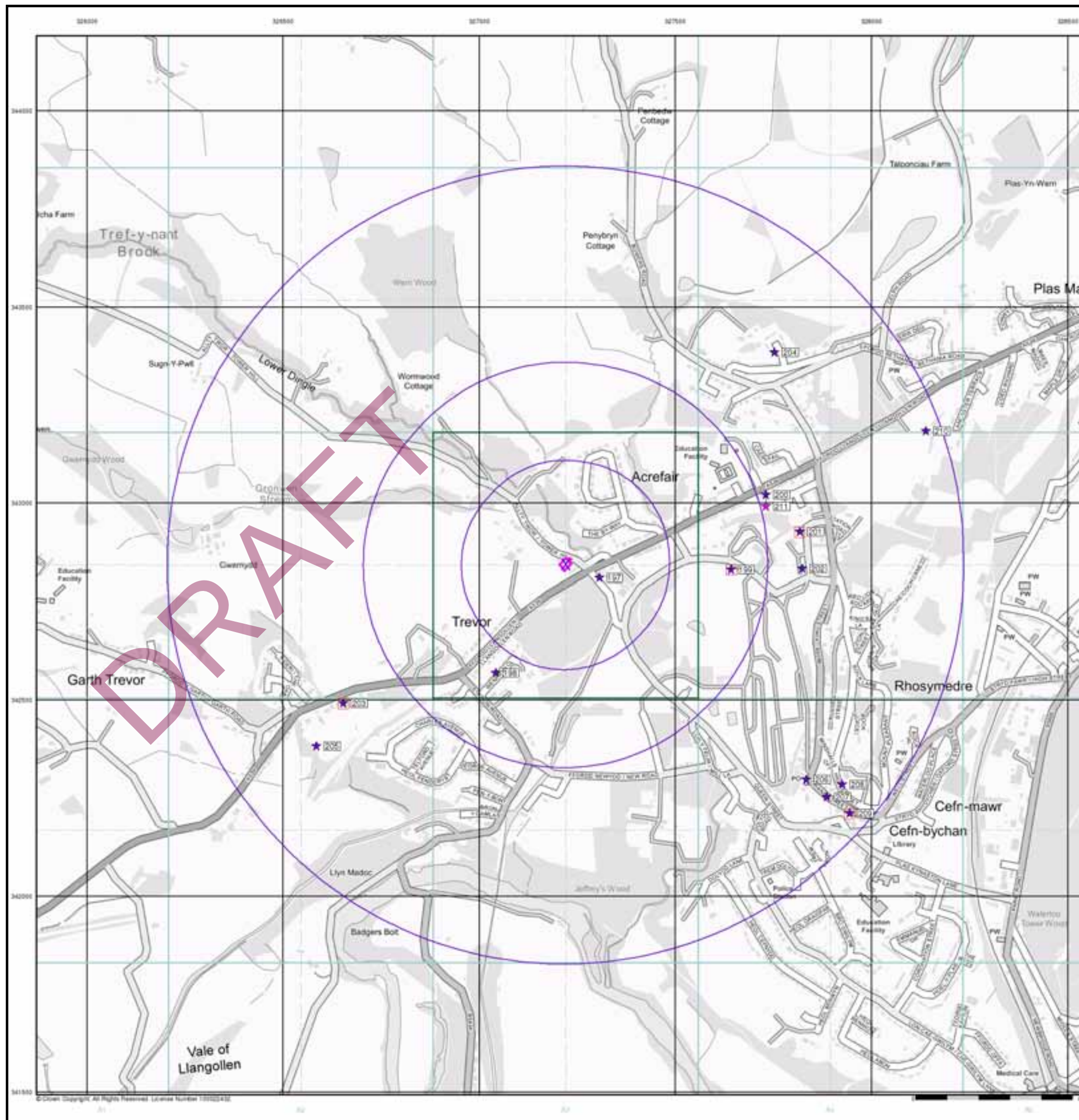


### Order Details

Order Number: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 1000

### Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG



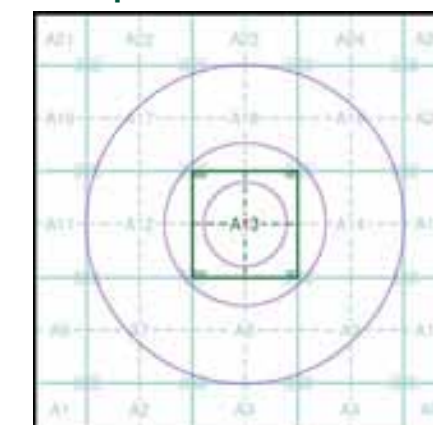
## General

- 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: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 1000

## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG

## General

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

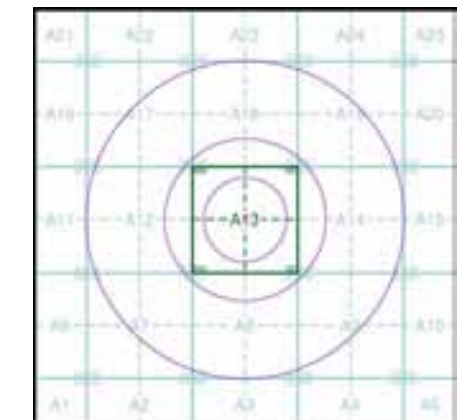
## Agency and Hydrological (Boreholes)

- 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](http://www.envirocheck.co.uk).

## Borehole Map - Slice A



## Order Details

Order Number: 191649715\_1\_1  
 Customer Ref: PN193946  
 National Grid Reference: 327220, 342840  
 Slice: A  
 Site Area (Ha): 0.06  
 Search Buffer (m): 1000

## Site Details

The Towers Day Nursery Ltd, Llangollen Road, Acrefair, WREXHAM, LL14 3SG

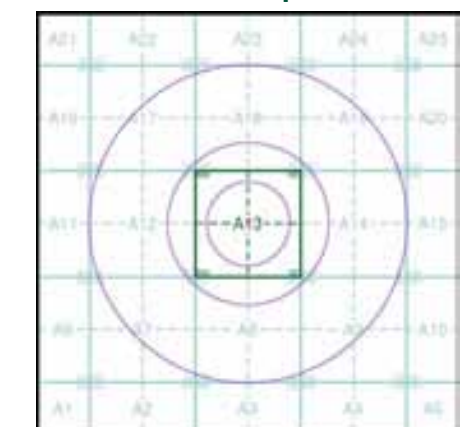
## General

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

## OS Water Network Data

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

## OS Water Network Map - Slice A



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The Coal  
Authority

Resolving the **impacts** of mining

# CON29M Non-Residential Mining Report

THE TOWERS DAY NURSERY LTD  
LLANGOLLEN ROAD  
ACREFAIR  
WREXHAM

DRAFT



Date of enquiry: 21 January 2019  
Date enquiry received: 21 January 2019  
Issue date: 21 January 2019

Our reference: 51001993197001  
Your reference: 191649715\_2|

# CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority, at the time we answer the search.

## Client name

LANDMARK INFORMATION GROUP LIMITED

## Enquiry address

THE TOWERS DAY NURSERY LTD, LLANGOLLEN  
ROAD, ACREFAIR, WREXHAM

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 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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# Summary

| Has the search report highlighted evidence or potential of |                                            |     |
|------------------------------------------------------------|--------------------------------------------|-----|
| 1                                                          | Past underground coal mining               | Yes |
| 2                                                          | Present underground coal mining            | No  |
| 3                                                          | Future underground coal mining             | Yes |
| 4                                                          | Mine entries                               | Yes |
| 5                                                          | Coal mining geology                        | No  |
| 6                                                          | Past opencast coal mining                  | No  |
| 7                                                          | Present opencast coal mining               | No  |
| 8                                                          | Future opencast coal mining                | No  |
| 9                                                          | Coal mining subsidence                     | No  |
| 10                                                         | Mine gas                                   | No  |
| 11                                                         | Hazards related to coal mining             | No  |
| 12                                                         | Withdrawal of support                      | No  |
| 13                                                         | Working facilities order                   | No  |
| 14                                                         | Payments to owners of former copyhold land | No  |

**For detailed findings, please go to page 4.**

# Detailed findings

## 1. Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

However the property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered, particularly prior to any site works or future development activity, as ground movement could still be a risk. Your attention is drawn to the Comments on the Coal Authority information section of the report.

## 2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

## 3. Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

## 4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

## **5. Coal mining geology**

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

## **6. Past opencast coal mining**

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

## **7. Present opencast coal mining**

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

## **8. Future opencast coal mining**

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

## **9. Coal mining subsidence**

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

## **10. Mine gas**

The Coal Authority has no record of a mine gas emission requiring action.

## **11. Hazards related to coal mining**

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

## **12. Withdrawal of support**

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

## **13. Working facilities order**

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

#### 14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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# Comments on the Coal Authority information

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

## Additional remarks

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## Alternative formats

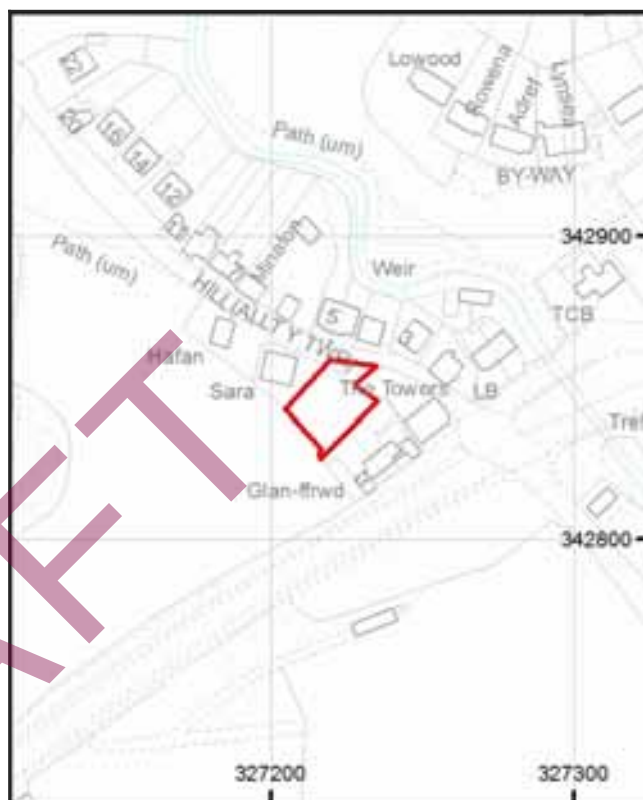
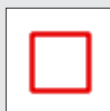
If you would like this report in an alternative format, please contact our communications team.

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# Enquiry boundary

## Key

Approximate position of enquiry boundary shown



## How to contact us

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Mansfield  
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## APPENDIX D

### Conceptual Model

The report aims to identify land which could potentially be affected by contamination, such that it could affect the value or re-use of the land, or such that mitigation would be required for certain proposed end uses of the land.

The assessment also aims to identify land which would be regarded as 'contaminated land' under the terms of the Environmental Protection Act 1990, Part IIA. This act includes a stricter test for contaminated land than that outlined above. Land is considered to be contaminated if either:

- The land is causing significant harm to people, ecosystems or infrastructure; or
- There is a significant possibility that such harm could be caused; or
- Pollution of controlled waters is being, or is likely to be, caused.

The following situations are defined as being where harm is to be regarded as significant:

- Chronic or quite toxic effect, serious injury or death to humans;
- Irreversible or other adverse harm to the ecological system;
- Substantial damage to or failure of buildings;
- Death of, or disease or other physical damage affecting, livestock or crops;
- Pollution of controlled waters.

The risk assessment uses a 'Source-Pathway-Receptor' methodology for assessing whether a source of contamination could potentially lead to harmful consequences. This means that there needs to be a pollutant linkage from source to receptor for harm to be caused, this linkage consisting of:

- A source of pollution;
- A pathway for the pollutant to move along;
- A receptor that is affected by the pollutant.

As an example, the pollutant source could be an identified leak of oil or an area of dumped waste.

The pathways could include transport of the contaminant by groundwater, surface water, wind-blown dust, or vapours, and for human receptors will include the means, by which contaminants enter the body, for example skin contact, ingestion and inhalation.

Receptors include people, other living organisms, the built environment and groundwater and surface waters (these latter two also being contaminant pathways).

The source-pathway-receptor methodology relationship allows an assessment of the environmental risk to be determined, based on the nature of the source, the degree of exposure of the receptor to the source and the sensitivity of the receptor.

This section of the report is based on the information set out in the previous sections of the report and should not be read independently of such sections.

### i) Initial Environmental Risk Assessment

It is accepted that an environmental risk assessment can be based on a source-pathway-target model. An examination is carried out as to whether a target will be at risk from a contamination source, that a source exists, and whether there are any pathways (routes of exposure) which might actually link the source to the target.

Environmental risk assessments rely heavily on numerical trigger concentrations or guidelines because exposure of targets to contamination is difficult to quantify directly. Quantification of risk is therefore mainly undertaken for general scenarios in order to derive trigger levels. These are derived for various contaminants for particular targets and routes of exposure. An example of a sensitive target would

be users of a domestic back garden, where routes of exposure might be skin contact, dust inhalation, direct ingestion and indirect ingestion via cultivation and consumption of fruit and vegetables. In March 2002, the first parts of the new CLEA risk assessment guidance were released by DEFRA/Environment Agency.

The risk assessment approach is an extension of the 'fit for use' concept whereby land is cleaned up to a standard fit for the proposed use, that is, so all remaining risks are acceptable. However, as well as being 'fit for use', the environmental risk assessment approach also addresses the soil and water environment so that these are also safeguarded where necessary. For example if a site was contaminated with heavy metals and the development comprised the proposed construction of hard standings and buildings only, the fit-for-use approach might require no remediation for the site. However, consideration of the wider environment needs to address whether groundwater is being contaminated, and if so whether remediation is required for this reason.

ii) Contaminated Land Risk Assessment Methodology consistent with CIRIA C552 (2001).

The classification system used to define contaminant probability, consequence and risk is described in the following tables:

Table A: Classification of Probability

| Classification         | Definition                                                                                                                                                                                                                                                               | Score    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>High Likelihood</b> | There is a contaminant linkage and an event that appears either very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.                                                                       | <b>4</b> |
| <b>Likely</b>          | There is a contaminant 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. | <b>3</b> |
| <b>Low Likelihood</b>  | There is a contaminant 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.                                   | <b>2</b> |
| <b>Unlikely</b>        | There is contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.                                                                                                                                           | <b>1</b> |

Table B: Classification of Consequence

| Receptor | Classification | Definition                                                                                                              | Score    |
|----------|----------------|-------------------------------------------------------------------------------------------------------------------------|----------|
| Humans   | Severe         | Short-term (acute) risk to human health likely to result in "significant harm" as defined in the CTL Statutory Guidance | <b>4</b> |
|          | Medium         | Chronic damage to human health ("significant harm" as defined in the CTL Statutory Guidance)                            | <b>3</b> |
|          | Mild           | Contamination present although unlikely to constitute a significant chronic health risk                                 | <b>2</b> |
|          | Minor          | Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc.)     | <b>1</b> |

|                   |        |                                                                                                                                                  |   |
|-------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Controlled Waters | Severe | Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource | 4 |
|                   | Medium | Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution)                   | 3 |
|                   | Mild   | Pollution of non-water courses                                                                                                                   | 2 |
|                   | Minor  | Potential minor release of contamination to local water features                                                                                 | 1 |
| Property          | Severe | Catastrophic damage to buildings/property                                                                                                        | 4 |
|                   | Medium | Significant damage to crops, buildings, structures and services                                                                                  | 3 |
|                   | Mild   | Damage to sensitive buildings/structures/services                                                                                                | 2 |
|                   | Minor  | Easily reparable effects of damage to buildings, structures and services. Harm which may result in a financial loss, or expenditure to resolve   | 1 |
| Ecology           | Severe | A short-term risk to a particular ecosystem, or organism forming part of such ecosystem                                                          | 4 |
|                   | Medium | A significant change in a particular ecosystem                                                                                                   | 3 |
|                   | Mild   | Damage to the environment                                                                                                                        | 2 |
|                   | Minor  | Short term, localised damage may occur; consequences are spatially and temporally limited                                                        | 1 |

Table C: Risk Classification

|             |                     | Consequence         |                       |                       |                   |
|-------------|---------------------|---------------------|-----------------------|-----------------------|-------------------|
|             |                     | Severe (4)          | Medium (3)            | Mild (2)              | Minor (1)         |
| Probability | High Likelihood (4) | Very High Risk (16) | High Risk (12)        | Moderate Risk (8)     | Low Risk (4)      |
|             | Likely (3)          | High Risk (12)      | Moderate Risk (9)     | Moderate/Low Risk (6) | Low Risk (3)      |
|             | Low Likelihood (2)  | Moderate Risk (8)   | Moderate/Low Risk (6) | Low Risk (4)          | Very Low Risk (2) |
|             | Unlikely (1)        | Low Risk (4)        | Low Risk (3)          | Very Low Risk (2)     | Very Low Risk (1) |

Table D: Risk Classification Definitions

| Risk Classification Definitions |                                                                                                                                                                                                                                                                                                                                                                          | Score |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Very High                       | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. | 12-16 |
| High                            | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.                                                                | 10-12 |
| Moderate                        | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm                                                                                                                                          | 7-9   |

|              |                                                                                                                                                                                                                |     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |     |
| Moderate/Low |                                                                                                                                                                                                                | 6   |
| Low          | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.                                        | 3-5 |
| Very Low     | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.                                                                        | 1-2 |

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## APPENDIX E

### Notes on Limitations

This report does not consider ecological impacts (e.g. bats) or botanical risks (e.g. Japanese knotweed). It is recommended that these are considered as part of the assessment of development constraints for the site.

The assessment and judgements given in this report are directed by both the finite data on which they are based and the proposed works to which they are addressed. The data essentially comprised a study of available documented information from various sources (including Client Furnished reports) together with discussions with relevant authorities and other interested parties. There may also be circumstances at the site that are not documented. The information reviewed is not exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. If additional information becomes available which might impact our environmental conclusions, we request the opportunity to review the information, reassess the potential concerns and modify our opinion if warranted.

It should be noted that any risks identified in this report are perceived risks based on the available information. Actual risks can only be assessed following a physical investigation of the site.

The site investigation has been carried out to provide information concerning the type and degree of contamination, and ground and groundwater conditions to allow a reasonable risk assessment to be made. Geotechnics Ltd undertake to exercise all reasonable skill, care and due diligence in the exercise of the investigation with respect to sampling techniques, sample storage and report interpretation.

The assessments and judgement given in this report are directed by both the finite data on which they are based and the proposed works to which they are addressed. Data acquisition is subject to the limitations of the methods of investigation used. Exploratory holes undertaken during fieldwork investigate small a small volume of ground in relation to the size of the site and as such can only provide an indication of site conditions. There may be conditions pertaining to the site and the proposed development i.e. localised “hotspots” of contamination, which have not been disclosed by the investigations.

The findings and opinions are relevant to the dates of our site works and should not be relied upon to represent conditions at substantially later dates. Conditions at the site will change over time due to natural variations and anthropogenic activities. Groundwater, surface water and soil gas conditions should be anticipated to change with diurnal, seasonal and meteorological variations.

The opinions expressed in this report regarding any contamination are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.

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