



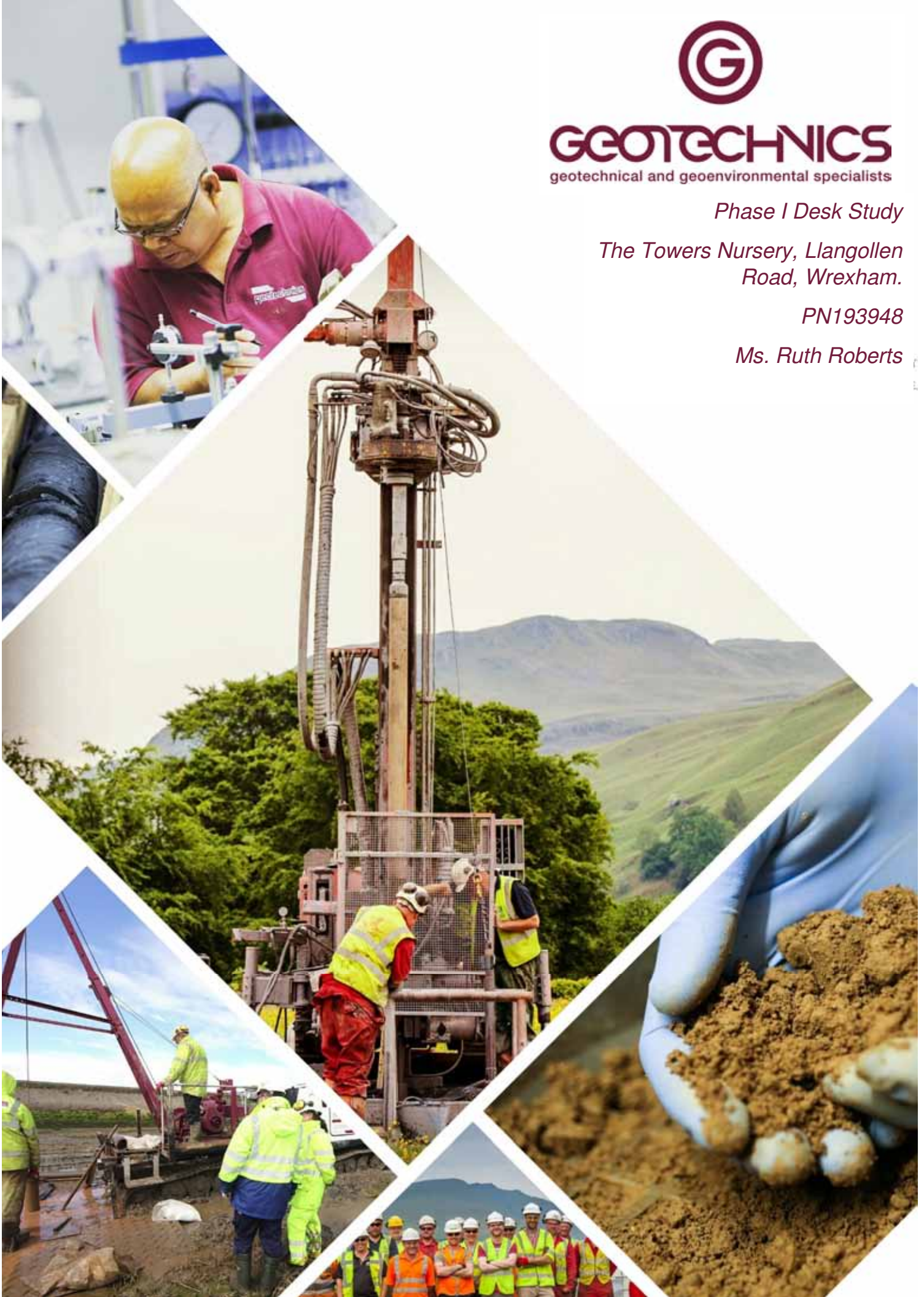
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Phase I Desk Study

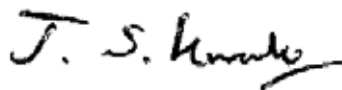
*The Towers Nursery, Llangollen
Road, Wrexham.*

PN193948

Ms. Ruth Roberts



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Client:	Ms. Ruth Roberts	
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Geotechnics Contact Details:	Chester Office The Geotechnical Centre Unit 1B, Borders Industrial Park River Lane, Saltney Chester CH4 8RJ	T: 01244 671 117 E: mail@chester.geotechnics.co.uk W: www.geotechnics.co.uk
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Author:	Reviewed:	Authorised:
		
By: Tom Birch Engineer	By: John Knowles Principal Engineer	By: Jon Hutchinson Regional Manager



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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 Ingestion Leaching and downward migration Inhalation of vapours	Construction Workers Future End Users Structures and Foundations Groundwater
Historic Edwards Brickyard Landfill Site	Leaching of contaminants and downward migration	Groundwater
Former shallow mine workings and infilled land	Ground gas migration Leaching of contaminants and downward migration	Construction workers Future end users 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 (Aerial 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
	420m NE	Old Shaft (Coal) (Presumed capped by 1912)
	400m NE	Old Shaft (Coal) (Presumed capped by 1912)
1899	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)
	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).

4.1 Published Geology

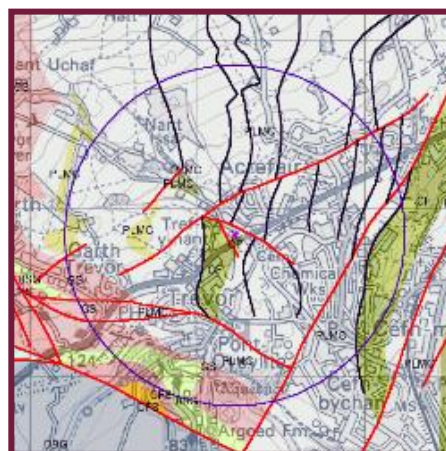
The documented geology of the site is summarised below:

	Map Reference	Geology
<i>Drift</i>	BGS 1:50,000 Sheet 121 Wrexham (1993)	No drift deposits identified on site on the map consulted. <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)	Pennine Lower Coal Measures Formation – Mudstone, Siltstone and Sandstone Cefn Rock Formation- Sandstone
<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.

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

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 30th 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 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	-	1 No.
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	Contemporary Trade Directory Entries Name: S E Jones (Acrefair) Ltd Location: Trefynant Offices, Trefynant Park, Acrefair, Wrexham, Chwyd. LL14 3SR Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	80	-	327307 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
On Site			
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.
Surrounding Area			
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)	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.
	Groundwater Aquifer	Likely (3)	
	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)	
	Surface Water	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.
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)
		Structures & Foundations	1	3	Low Risk (3)
	Leaching into Groundwater	Services	1	3	Low Risk (3)
		Groundwater	1	2	Very Low Risk (2)
	Attack on buried concrete / buried services	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.



APPENDICES

APPENDIX A – Site Location Plan & Site Walkover Photos

APPENDIX B – Historical Mapping

APPENDIX C – Envirocheck Report + Coal Mining Report

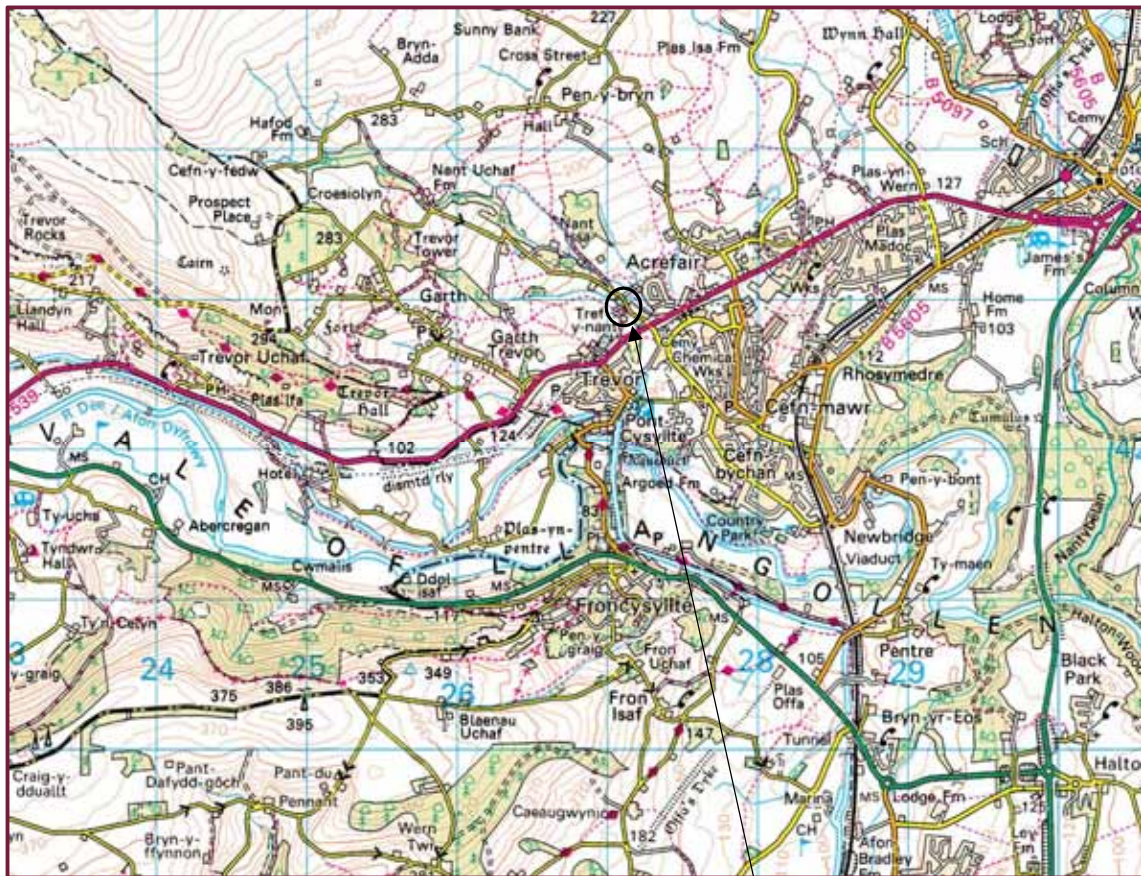
APPENDIX D – Contaminated Land Risk Assessment Methodology based on CIRIA 552:2001 (Tables)

APPENDIX E – Limitations



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)



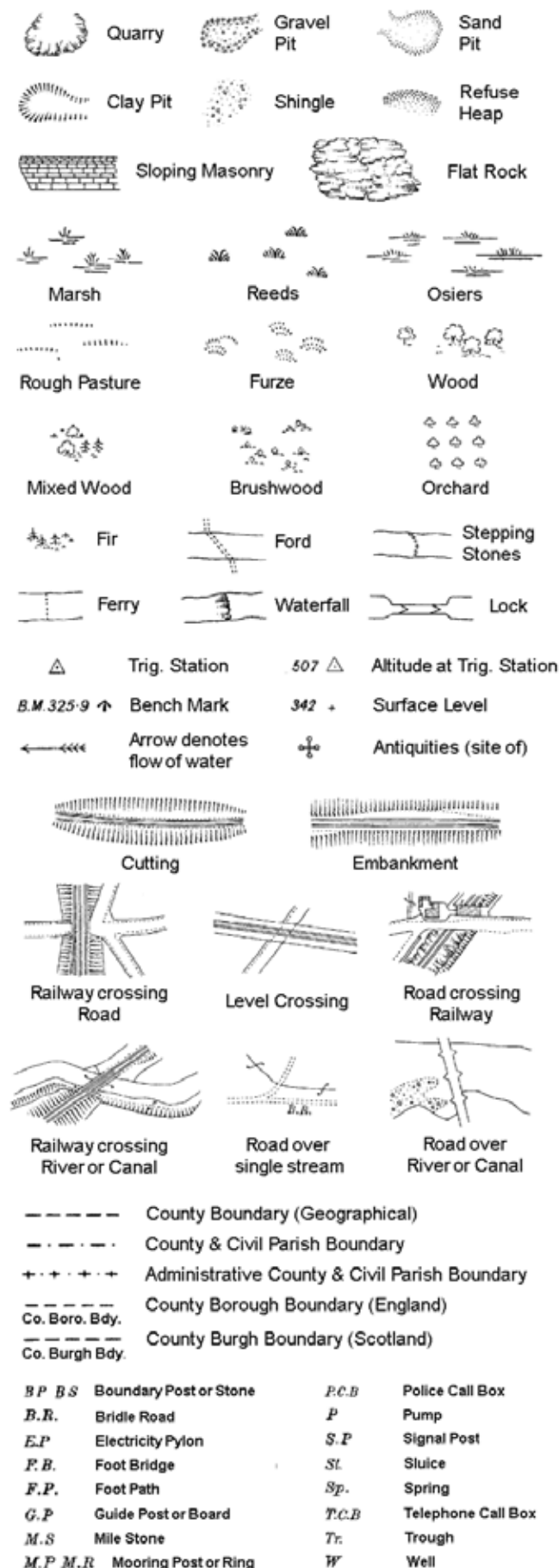
Stockpiles of excavated soil and construction materials at eastern boundary of the site

APPENDIX B

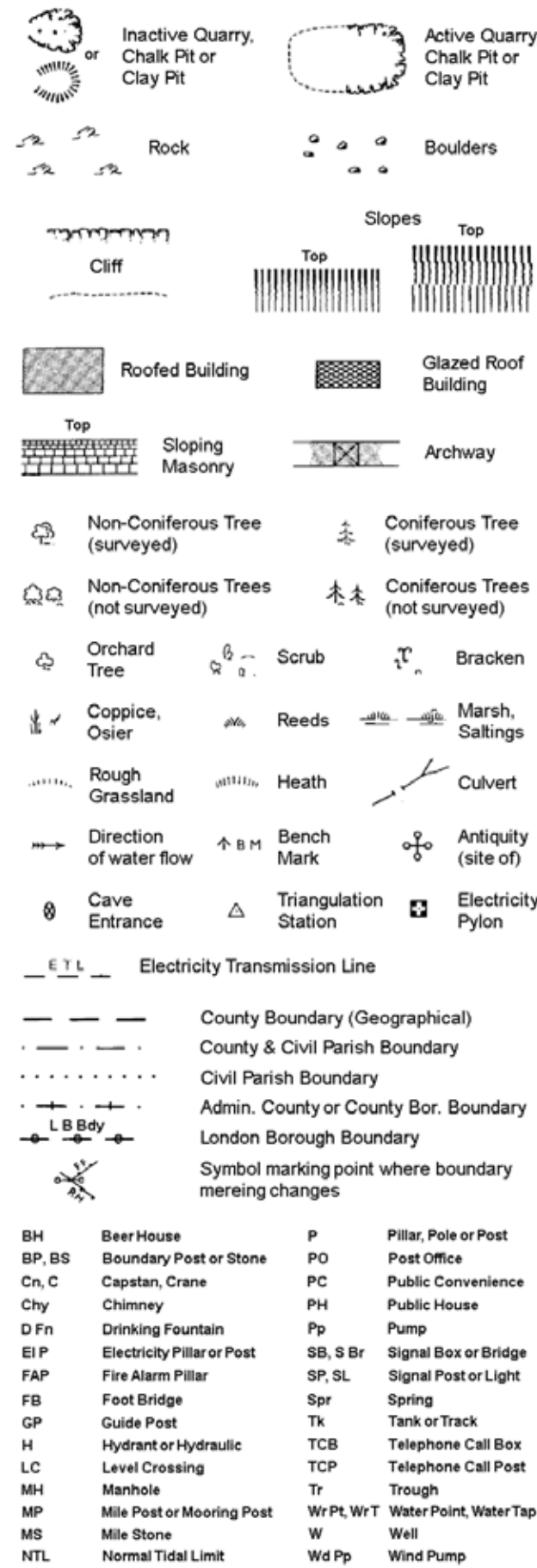
Historical Mapping

Historical Mapping Legends

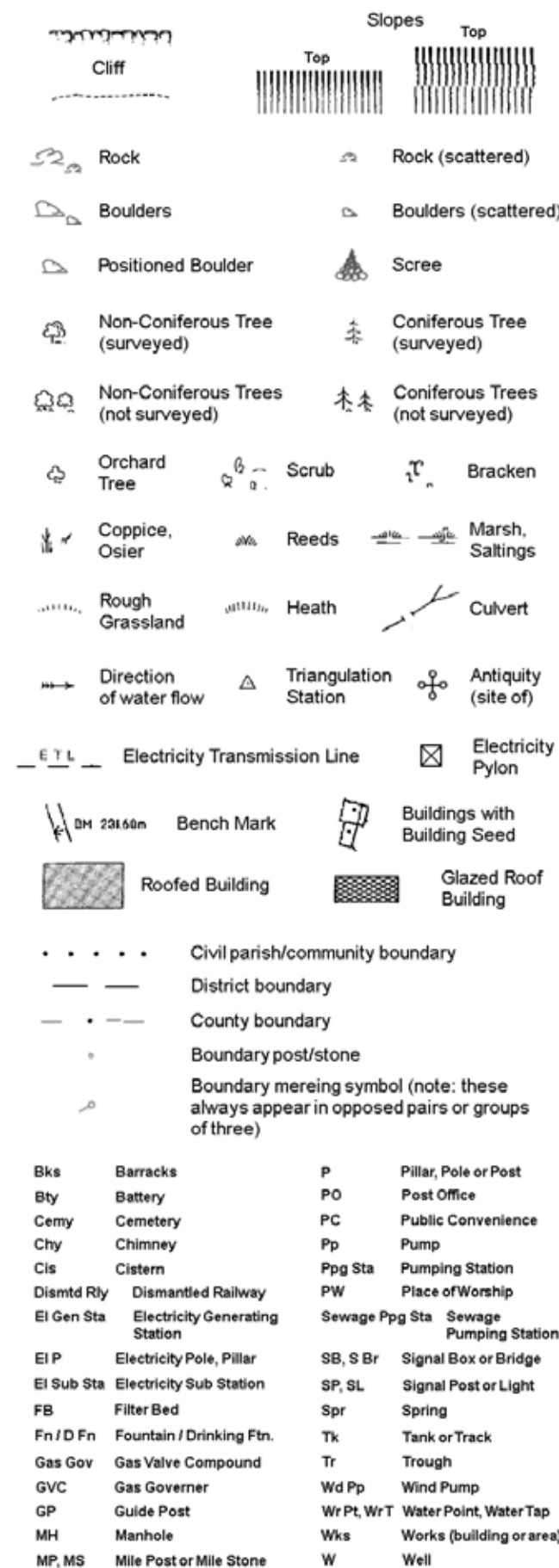
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

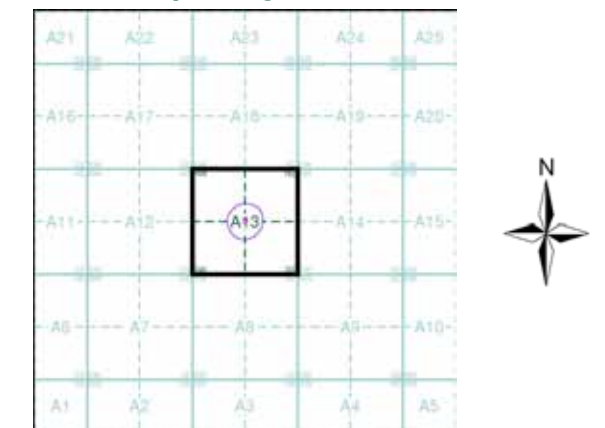


geotechnics

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

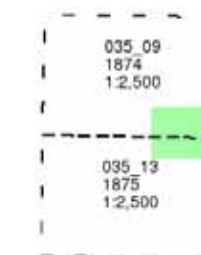
Denbighshire

Published 1874 - 1875

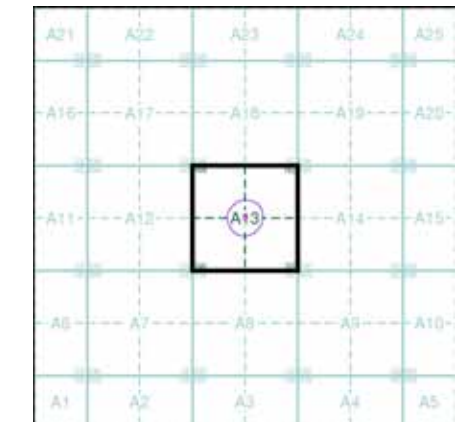
Source map scale - 1:2,500

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

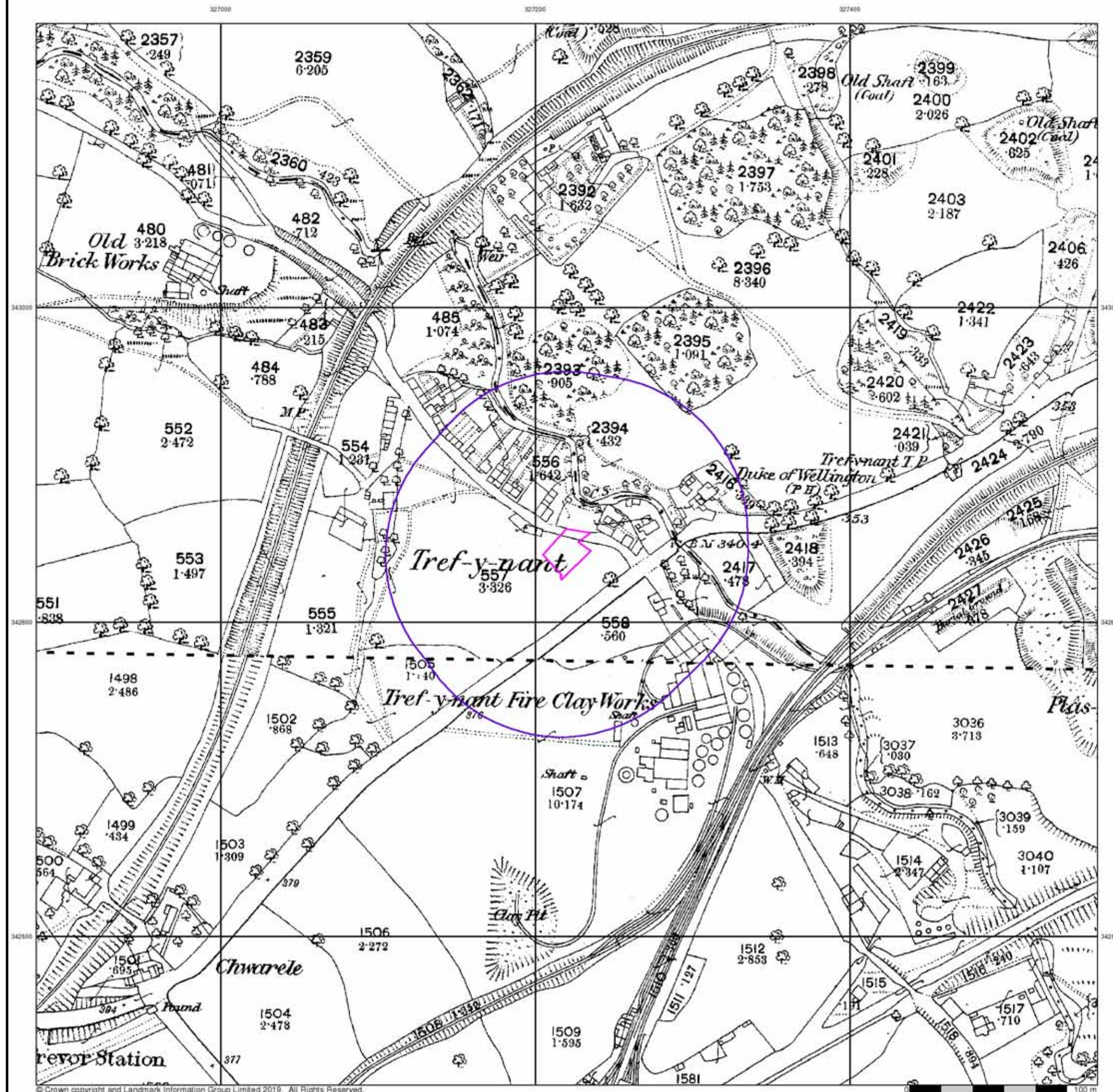


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Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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



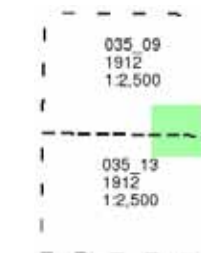
Denbighshire

Published 1912

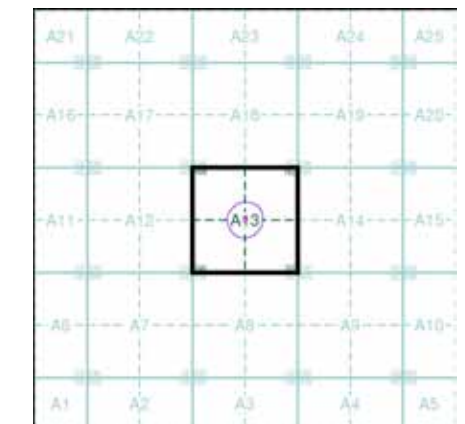
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Map Name(s) and Date(s)



Historical Map - Segment A13

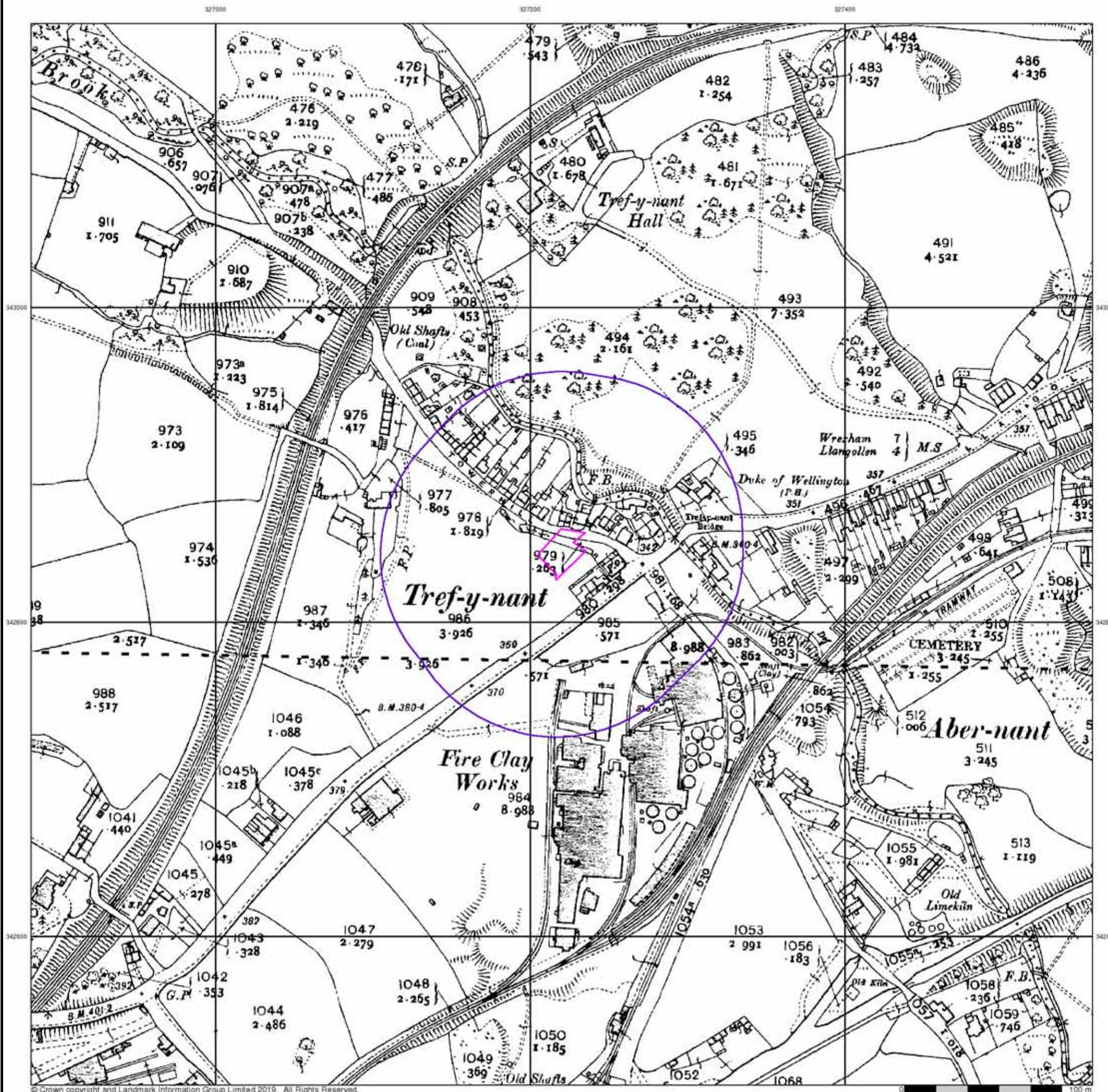


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Site Details

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



Ordnance Survey Plan

Published 1962 - 1963

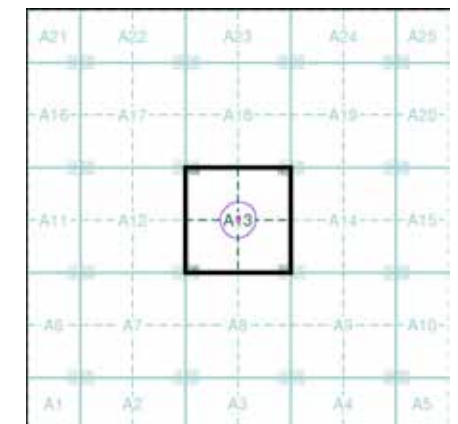
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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

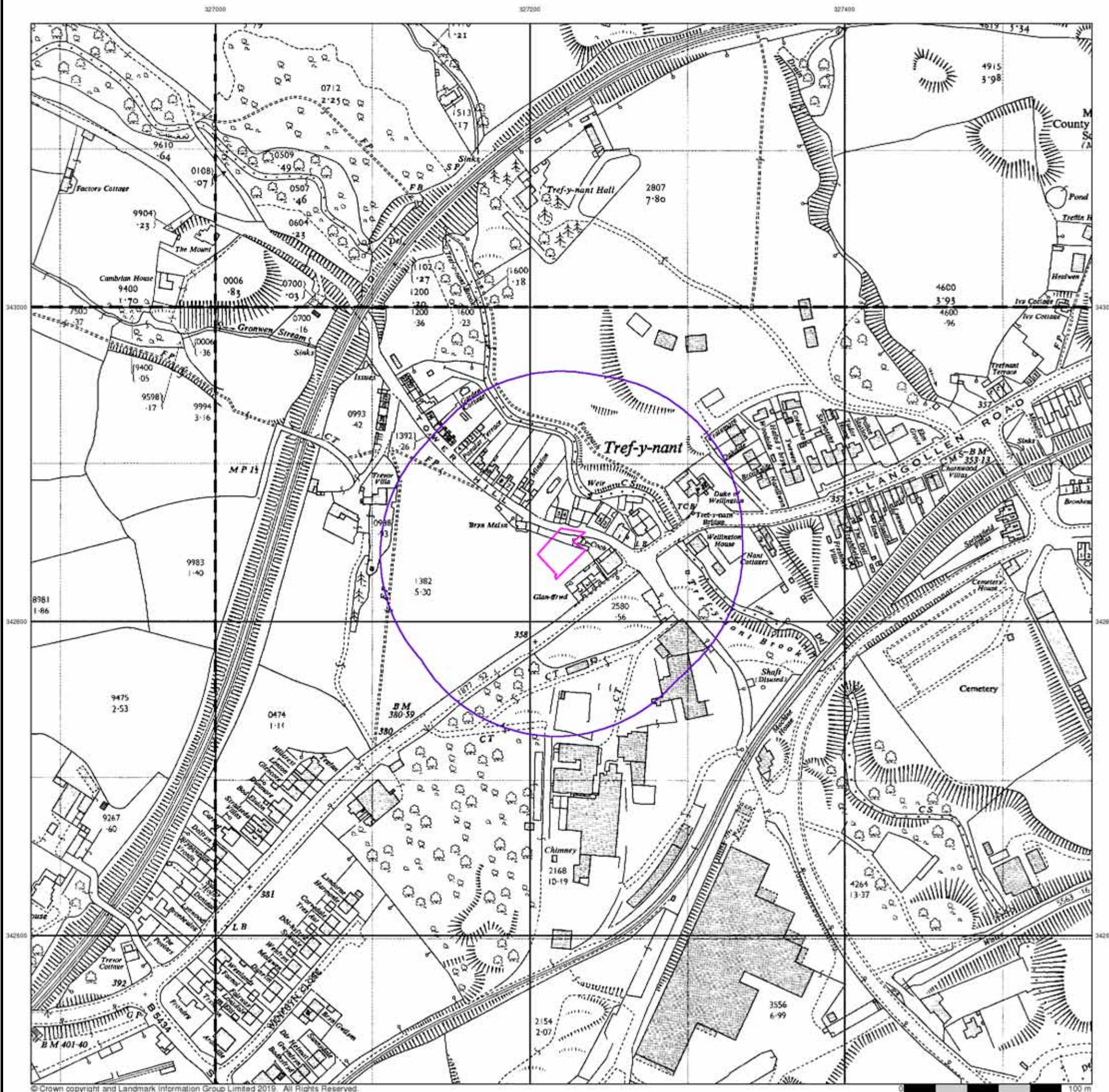


Order Details

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



Additional SIMs

Published 1988 - 1991

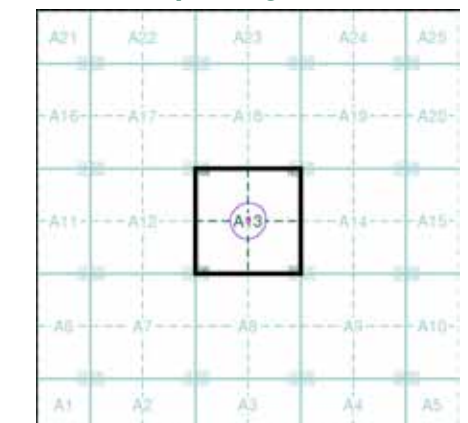
Source map scale - 1:2,500

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)

SJ2743	1991	1:2,500
SJ2742	1988	1:2,500

Historical Map - Segment A13

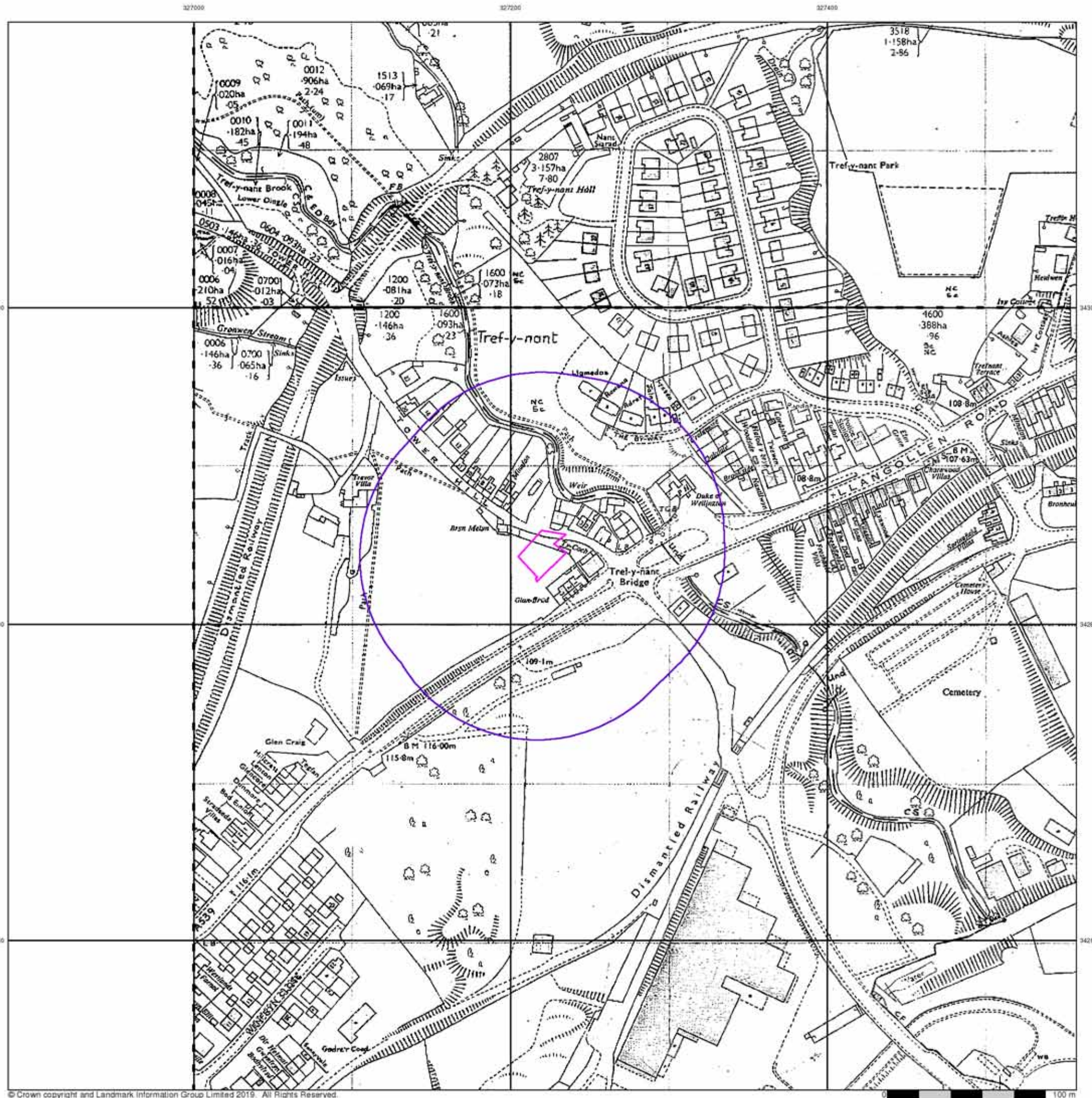


Order Details

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



Additional SIMs

Published 1992

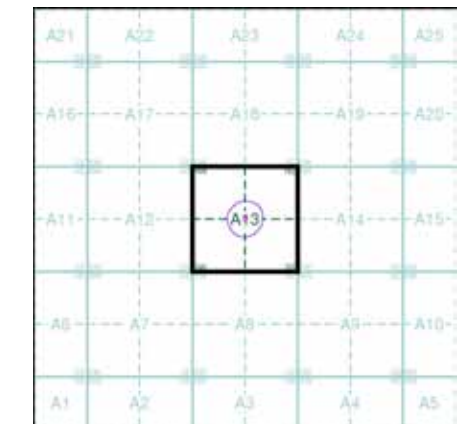
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The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information 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)

SJ2743	1992	1:2,500
SJ2742	1992	1:2,500

Historical Map - Segment A13

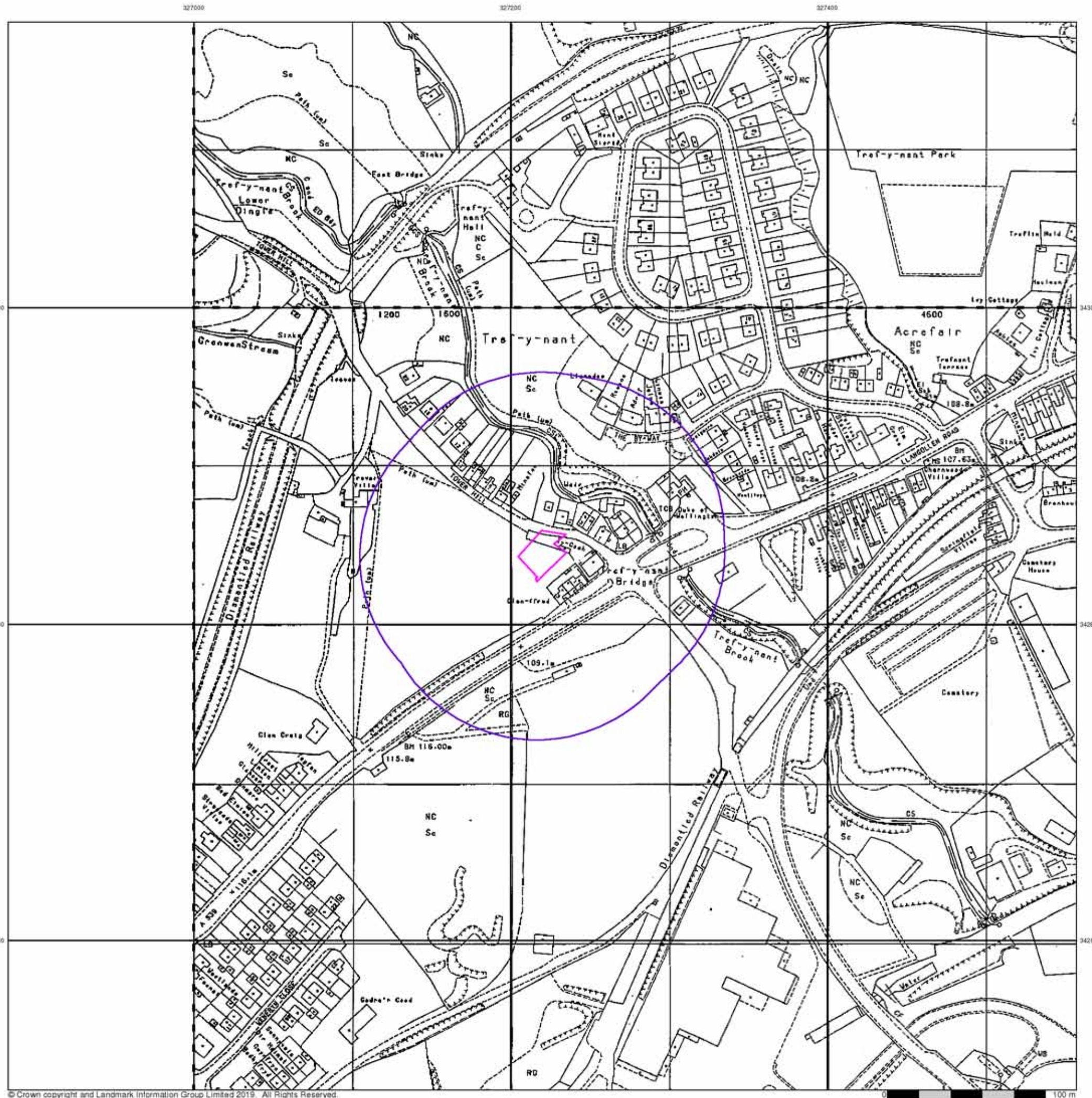


Order Details

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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



Large-Scale National Grid Data

Published 1994

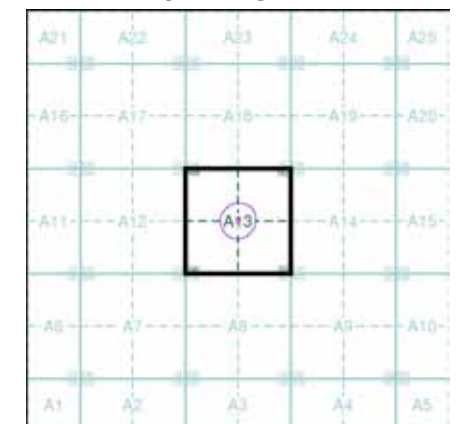
Source map scale - 1:2,500

'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 1994 12,500	SJ2743 1994 12,500
SJ2642 1994 12,500	SJ2742 1994 12,500

Historical Map - Segment A13

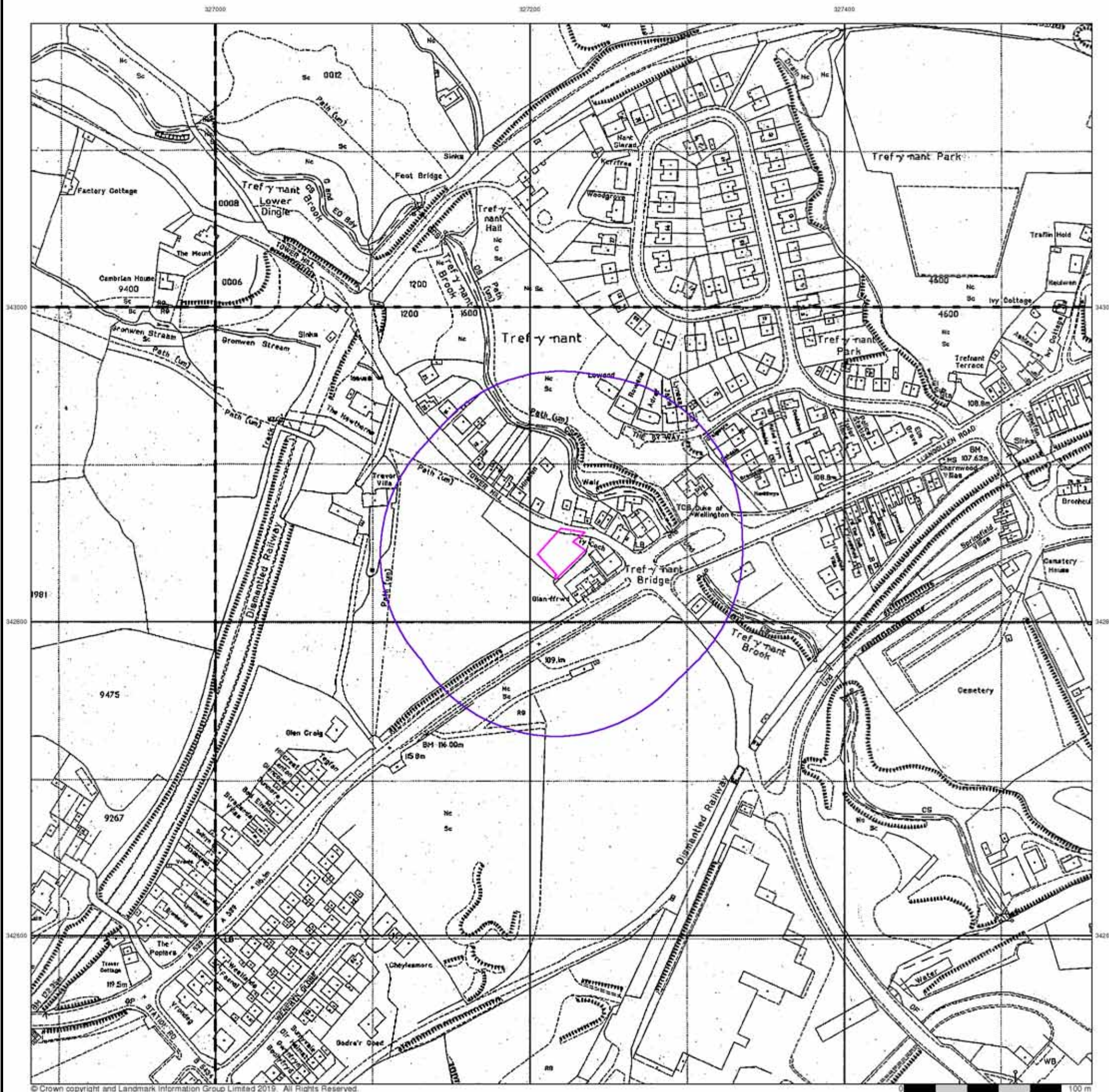


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 Search Buffer (m): 100

Site Details

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



APPENDIX C

Envirocheck Report
Coal Authority Report

Envirocheck[®] 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)
Agency & Hydrological					
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)
Waste					
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					
Hazardous Substances					
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					
Geological					
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)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 56		1	6	15
Fuel Station Entries	pg 57				1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
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
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	0	1	327221 342844
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	16	1	327250 342850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	27	1	327221 342800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	43	1	327250 342800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	114	1	327300 342750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	127	1	327221 342700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	132	1	327250 342700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	144	1	327250 343000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	155	1	327050 342850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	165	1	327050 342900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	177	1	327221 342650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	181	1	327250 342650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	191	1	327221 343050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	205	1	327000 342844
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	232	1	327000 342950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	259	1	326950 342800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	278	1	327200 342550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	305	1	326900 342850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	323	1	326900 342950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	326	1	327000 343100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	327	1	327221 342500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	360	1	326850 342900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	371	1	326850 342950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	397	1	326950 343150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	399	1	326900 343100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	428	1	327200 342400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	430	1	326850 342600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	455	1	326900 342500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	465	1	326750 342750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	468	1	326750 342950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	480	1	326800 343100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	482	1	326750 343000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	482	1	327150 342350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	491	1	327100 342350
1	Discharge Consents Operator: Wrexham Maelor Borough Council Property Type: Undefined Or Other Location: Trefynant Park Trefor Near Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0084501 Permit Version: 1 Effective Date: 8th January 1979 Issued Date: 8th January 1979 Revocation Date: 6th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Trefynant Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (N)	72	2	327230 342930
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cefn Monsanto - Sso, LI14 3sn Authority: Natural Resources Wales Catchment Area: TREFNANT BROOK Reference: Cm0175201 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tref Y Nant Brook Status: Effective 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	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cefn Monsanto - Sso, LI14 3sn Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0175201 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Tref Y Nant Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A13NE (E)	269	2	327500 342900
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Trefor Isaf - Sso Authority: Natural Resources Wales Catchment Area: TREFNANT BROOK Reference: Cm0172401 Permit Version: 3 Effective Date: 14th September 2006 Issued Date: 14th September 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tref Y Nant Status: Effective Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	599	2	327500 342300
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Trefor Isaf - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0172401 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 21st January 2005 Revocation Date: 13th September 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tref Y Nant Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	599	2	327500 342300
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Trefor Isaf - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0172401 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2009 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tref Y Nant Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	599	2	327500 342300

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Mr D Lake Property Type: Domestic Property (Single) Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0180801 Permit Version: 2 Effective Date: 21st April 1994 Issued Date: 21st April 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8SW (SW)	784	2	326900 342110
5	Discharge Consents Operator: Mr & Mrs Green Property Type: Domestic Property (Single) Location: 3, 4 & 5 Jeffries Terrace Pontcysyl, Pontcysyllte Near Llangollen Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0180801 Permit Version: 1 Effective Date: 12th April 1989 Issued Date: 12th April 1989 Revocation Date: 20th April 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Land Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (SW)	784	2	326900 342110
5	Discharge Consents Operator: Mr John Evans Property Type: Domestic Property (Single) Location: Pontcysyllte Jeffrey'S Terrace Hous, Jeffrey'S Terrace House Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0057201 Permit Version: 1 Effective Date: 22nd May 1969 Issued Date: 22nd May 1969 Revocation Date: 19th July 1996 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dee Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	804	2	326920 342080
6	Discharge Consents Operator: Mr John Williams Property Type: Domestic Property (Single) Location: Pant Dedwydd, Dolydd Lane, Cefn Mawr, Wrexham, L14 3nf Authority: Natural Resources Wales Catchment Area: River Dee Reference: Eprp3923gx Permit Version: 1 Effective Date: 7th March 2012 Issued Date: 7th March 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trefy Nant Brook Status: New issued under EPR 2010 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
6	Discharge Consents Operator: John Williams Property Type: Domestic Property (Single) Location: Pant Dedwydd, Dolydd Lane, Cefn Mawr, Wrexham, LI14 3nf Authority: Natural Resources Wales Catchment Area: TREFNANT BROOK Reference: Rp3923gx Permit Version: 1 Effective Date: 7th March 2012 Issued Date: 7th March 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trefy Nant Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SE (S)	817	2	327525 342071
7	Discharge Consents Operator: Monsanto Plc Property Type: Spec. Chemicals, Household Use Location: Cefn Mawr - Monsanto Plc Ruabo Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041901 Permit Version: 1 Effective Date: 24th May 1967 Issued Date: 24th May 1967 Revocation Date: 16th May 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Trefynant Brook Status: Revoked and replaced by IPC Authorisation Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	822	2	327600 342100
8	Discharge Consents Operator: Mr Trevor Evans Property Type: Domestic Property (Single) Location: Penybryn Cottage Bowers Road Acrefa, Bowers Road Acrefair Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0024901 Permit Version: 1 Effective Date: 17th October 1964 Issued Date: 17th October 1964 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Un-Named W'Course Flow.To Tref Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NE (N)	860	2	327400 343700
9	Discharge Consents Operator: Company Secretary Property Type: Water Treatment Works Location: Sugn-Y-Pwll Wtw(Acrefair) Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0108701 Permit Version: 1 Effective Date: 29th March 1965 Issued Date: 29th March 1965 Revocation Date: 12th January 1996 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trefynant Brook Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	869	2	326500 343350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Froncysyllte Stw Authority: Natural Resources Wales Catchment Area: DEE - CEIRIOG TO ALWEN Reference: Cm0101501 Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dee Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SW (S)	874	2	327110 341960
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Froncysyllte Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101501 Permit Version: 3 Effective Date: 31st December 2005 Issued Date: 31st December 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dee Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A8SW (S)	874	2	327110 341960
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Froncysyllte Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0101501 Permit Version: 2 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Dee Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	874	2	327110 341960
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Froncysyllte Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101501 Permit Version: 1 Effective Date: 17th October 1981 Issued Date: 17th October 1981 Revocation Date: 29th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Dee Status: Authorisation revoked 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
11	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Wrexham Pontcysylltec Cam-Yr-Afon , Pontcysylltec Cam-Yr-Afon Dee V, Cam-Yr-Afon Dee View Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0023901 Permit Version: 1 Effective Date: 25th August 1964 Issued Date: 25th August 1964 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dee Status: Consent expired Positional Accuracy: Manually corrected supplier location	A7SE (SW)	992	2	326670 342000
12	Prosecutions Relating to Controlled Waters Location: Tref-Y-Nant Brook, Ruabon Works, Cefn Mawr, Wrexham, LL14 3sl Prosecution Text: A Corroded Storage Tank Spilled 225 Tonnes Of Acidic Effluent Into The Nearby Watercourse Prosecution Act: Wra91 S85(1) & S85(6) Hearing Date: 14th August 2003 Verdict: Guilty Fine: 10000 Cost: 6800 Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	304	3	327498 342694
13	Enforcement and Prohibition Notices Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL Permit Reference: Not Given Enforcement Date: 2nd February 1995 Details: Press Release HM137, Exceeded authorised limits for ammonia and suspended solids, into the River Dee; under EPA90. Positional Accuracy: Automatically positioned to the address	A14SW (E)	397	3	327632 342840
13	Enforcement and Prohibition Notices Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL Permit Reference: Not Given Enforcement Date: 15th February 1995 Details: Press Release HM145, Exceeded release levels of cresol on two separate occasions; under EPA90. Positional Accuracy: Automatically positioned to the address	A14SW (E)	402	3	327637 342840
13	Enforcement and Prohibition Notices Location: Ruabon Works, Cefn Mawr, NR WREXHAM, Clwyd, LL14 3SL Permit Reference: Not Given Enforcement Date: 1st March 1995 Details: Press Release HM158, Unauthorised release of Hydrogen Sulphide and Carbon Disulphide due to a fractured pipe; under EPA90. Positional Accuracy: Automatically positioned to the address	A14SW (E)	407	3	327642 342840
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: AY1242 Dated: 2nd July 1997 Process Type: IPC major (substantial) variation Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	402	3	327637 342836
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BD8738 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	403	3	327637 342831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BC7612 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	403	3	327637 342826
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BC6799 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A14SW (E)	403	3	327637 342821
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AN9000 Dated: 28th November 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	407	3	327642 342836
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: Bv4070 Dated: 6th August 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: BI5008 Dated: 20th March 2003 Process Type: IPC major (substantial) variation Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: BI6454 Dated: 31st August 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: Bj8774 Dated: 21st May 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation 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
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: Bj5198 Dated: 30th November 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (B) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: Bj0951 Dated: 31st August 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BC6772 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342821
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AK5750 Dated: 23rd February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AK5768 Dated: 21st February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342826
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AA2127 Dated: 2nd April 1992 Process Type: IPC new application Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation certificate surrendered by operator Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	3	327642 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AB5709 Dated: 3rd March 1992 Process Type: IPC new application Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation certificate surrendered by operator 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
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AL7618 Dated: 1st June 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	412	3	327647 342836
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: BH0810 Dated: 31st August 2000 Process Type: IPC major (substantial) variation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A14SW (E)	413	3	327647 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BC6764 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A14SW (E)	413	3	327647 342821
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AK5784 Dated: 23rd February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	413	3	327647 342831
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AK5792 Dated: 16th February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	413	3	327647 342826
14	Integrated Pollution Controls Name: Solutia UK Ltd Location: Acrefair, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Environment Agency, Welsh Region Permit Reference: AK5776 Dated: 16th February 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation certificate surrendered by operator 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
14	Integrated Pollution Controls Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, WREXHAM, Clwyd, LL14 3LX Authority: Environment Agency, Welsh Region Permit Reference: BC6756 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (C) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A14SW (E)	418	3	327652 342821
15	Integrated Pollution Prevention And Control Name: Ruabon Chemical Works Location: Ruabon Chemical Works Ea/Epr/Np3335gr/T001, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: NP3335GR Original Permit Ref: Np3531zh Effective Date: 28th November 2017 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 5.4 PART A (1) A) (II) Activity Description: Not Supplied Primary Activity: Y	A14SW (E)	406	2	327640 342830
15	Integrated Pollution Prevention And Control Name: Solutia Uk Ltd Location: Ruabon Chemical Works Epr/Np3335gr/V007, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: NP3531ZH Original Permit Ref: Np3335gr Effective Date: 25th March 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: Y	A14SW (E)	406	2	327640 342830
15	Integrated Pollution Prevention And Control Name: Air Products Electronics Advanced Materials Europe Limited Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: UP3731ZY Original Permit Ref: Bv2689ie Effective Date: 22nd March 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: Y Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A14SW (E)	406	2	327640 342830

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

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Integrated Pollution Prevention And Control Name: Air Products Electronics Advanced Materials Europe Limited Location: Ruabon Chemical Works, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: UP3838AC Original Permit Ref: Bv2689ie Effective Date: 14th July 2015 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: Y Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A14SW (E)	408	2	327642 342831
15	Integrated Pollution Prevention And Control Name: Dupont Air Products Nanomaterials Limited Location: Ruabon Chemical Works Eaepbv2689iev003, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: TP3836KW Original Permit Ref: Fp3939kf Effective Date: 15th June 2010 Status: Revoked Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (III) Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides Primary Activity: Y	A14SW (E)	408	2	327642 342831
15	Integrated Pollution Prevention And Control Name: Air Products Electronics Advanced Materials Europe Limited Location: Ruabon Chemical Works Eaepbv2689iev003, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: KP3536KS Original Permit Ref: Bv2689ie Effective Date: 7th May 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: Y Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N	A14SW (E)	408	2	327642 342831
15	Integrated Pollution Prevention And Control Name: Dupont Air Products Nanomaterials Limited Location: Ruabon Chemical Works Eaepbv2689iev004, Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: GP3539KM Original Permit Ref: Bv2689ie Effective Date: 1st September 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: Y	A14SW (E)	408	2	327642 342831

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Integrated Pollution Prevention And Control Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Chemical Works Ea/Epr/Bq4173ik/V005, Ruabon Works, Cefn Mawr,, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: Bq4173ik Original Permit Ref: Bq4173ik Effective Date: 13th April 2004 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (III) Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides Primary Activity: Y	A14SW (E)	408	2	327642 342831
15	Integrated Pollution Prevention And Control Name: Clariant Uk Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: Bv1950iq Original Permit Ref: Bv1950iq Effective Date: 13th April 2004 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: Y	A14SW (E)	408	2	327642 342831
15	Integrated Pollution Prevention And Control Name: Dupont Air Products Nanomaterials Limited Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Authority: Natural Resources Wales Permit Reference: Bv2689ie Original Permit Ref: Bv2689ie Effective Date: 13th April 2004 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: Y	A14SW (E)	408	2	327642 342831
16	Local Authority Pollution Prevention and Controls Name: Air Products plc Location: Cefn Mawr, WREXHAM, Clwyd, LL14 3HW Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WMBC/HJB/03/033 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Not Supplied Positional Accuracy: Automatically positioned to the address	A19SE (E)	962	4	328139 343184
	Nearest Surface Water Feature	A13NE (NE)	24	-	327243 342879
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Garage, Station Road, ACREFAIR Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: River Dee; Run-Off Incident Date: 30th December 1997 Incident Reference: 34604 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Neglect Incident Severity: Category 3 - Minor Incident 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
18	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Way Acrefair, WHALLEYS Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Accidental Spillage/Leakage Incident Date: 9th October 1994 Incident Reference: 21379 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	79	3	327300 342900
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: ACREFAIR Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Tref-Y-Nant Brook; Overflow Incident Date: 11th June 1997 Incident Reference: 32841 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	138	3	327200 342995
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: ACREFAIR Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 11th June 1997 Incident Reference: 32841 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	143	3	327200 343000
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ww Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Tref-Y-Nant Brook; Overflow Incident Date: 3rd October 1997 Incident Reference: 33947 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	152	3	327300 342700
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Bridge, Off Llangollen Road Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 13th August 1991 Incident Reference: 3121 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	155	3	327380 342790
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To, Duke Of, WELLINGTON Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 23rd August 1995 Incident Reference: 25964 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	171	3	327400 342900

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	Historical Landfill Sites Licence Holder: J C Edward Location: Trevor, Llangollen, Clwyd Name: Edwards Brickyard Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14128 First Input Date: 31st December 1987 Last Input Date: 31st December 1995 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0026 BGS Ref: Not Supplied Other Ref: Not Supplied	A13SE (SE)	127	2	327288 342722
149	Historical Landfill Sites Licence Holder: Northern Strip Mining Location: Acrefair, Wrexham, Clwyd Name: The Delph Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15133 First Input Date: 30th November 1981 Last Input Date: 31st December 1986 Specified Waste: Deposited Waste included Inert, Industrial, Household and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0054 BGS Ref: Not Supplied Other Ref: WMBC L/32	A18SE (NE)	607	2	327526 343388
150	Historical Landfill Sites Licence Holder: Air Products UK Limited Location: Llangollen Road, Wrexham, Acrefair Name: Air Products Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14748 First Input Date: 1st September 1977 Last Input Date: 31st December 1991 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0002 BGS Ref: Not Supplied Other Ref: WMBC L/8, WMBC L/58	A14NW (E)	662	2	327871 343040
151	Historical Landfill Sites Licence Holder: Air Products United Kingdom Limited Location: Acrefair, Wrexham, Clwyd Name: Air Products Social Club Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14241 First Input Date: 31st December 1950 Last Input Date: 31st December 1960 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0003 BGS Ref: Not Supplied Other Ref: Not Supplied	A19SW (NE)	716	2	327857 343210
152	Historical Landfill Sites Licence Holder: Not Supplied Location: Dolydd Lane, Cefn Mawr Name: Cestria Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14247 First Input Date: 31st December 1990 Last Input Date: 31st December 1994 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0020 BGS Ref: Not Supplied Other Ref: Not Supplied	A9SW (SE)	797	2	327599 342128

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

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	Control of Major Accident Hazards Sites (COMAH) Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Reference: Not Supplied Type: Upper Tier Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	8	327642 342831
159	Control of Major Accident Hazards Sites (COMAH) Name: Clariant Uk Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Reference: 1021439 Type: Lower Tier Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	8	327642 342831
159	Control of Major Accident Hazards Sites (COMAH) Name: Nipa Laboratories Ltd Location: C/O FLEXSYS RUBBER CHEMICALS, TCC UNIT RUABON WORKS, CEFN MAWR WREXHAM, WREXHAM, Clwyd, LL14 3SL Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	8	327642 342831
160	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Flexsys Limited Location: Ruabon Works, WREXHAM, Clwyd, LL14 3SL Status: Not Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	417	8	327652 342836
161	Planning Hazardous Substance Consents Name: Monsanto Plc Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: 6/0002/0627 Hazardous: Unknown at time of report Substance: Unknown at time of report Maximum Quantity: 62 Application date: 12th August 1992 Decision: Deemed Consent Granted Positional Accuracy: Automatically positioned to the address	A14SW (E)	403	9	327637 342815
161	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: Cb3736/Hs Hazardous: Unknown at time of report Substance: Unknown at time of report Maximum Quantity: .1 Application date: 11th October 1999 Decision: Deemed Consent Granted Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	9	327642 342831
161	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: Cb3736/Hs Hazardous: Part B, Highly Reactive and Explosive Substance, Liquid Oxygen, where amount held is greater than or equal to 500 tonnes Substance: Part B, Highly Reactive and Explosive Substance, Liquid Oxygen, where amount held is greater than or equal to 500 tonnes Maximum Quantity: 100 Application date: 11th October 1999 Decision: Unknown at time of report Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	9	327642 342831
161	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: Cb3736/Hs Hazardous: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes Substance: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes Maximum Quantity: 74 Application date: 11th October 1999 Decision: Unknown at time of report 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
161	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: Cb3736/Hs 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 Maximum Quantity: 7112 Application date: 11th October 1999 Decision: Unknown at time of report Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	9	327642 342831
161	Planning Hazardous Substance Consents Name: Monsanto Plc Location: Ruabon Works, CEFN MAWR, Wrexham, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: 20627/Hs Hazardous Substance: Part A, Toxic Substance, Carbon disulphide, where amount held is greater than or equal to 20 tonnes Maximum Quantity: 63 Application date: 12th August 1992 Decision: Deemed Consent Granted Positional Accuracy: Automatically positioned to the address	A14SW (E)	408	9	327642 342815
162	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Dupont Air Products Nano Materials Ltd Location: Ruabon Works, Cefn Mawr, Wrexham Authority: Wrexham County Borough Council, Planning Department Application Ref: P/2008/0207 Hazardous Substance: Very toxic Maximum Quantity: 37 Application date: 28th February 2008 Decision: Withdrawn Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	467	9	327657 342646
162	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: P/2001/0606 Hazardous Substance: Very toxic Maximum Quantity: 12 Application date: 27th June 2001 Decision: Withdrawn Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	467	9	327657 342646
163	Planning Hazardous Substance Consents Name: Flexsys Rubber Chemicals Ltd Location: Ruabon Works, Cefn Mawr, WREXHAM, Clwyd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: CB/19993736 Hazardous Substance: Chlorine Maximum Quantity: 62 Application date: 11th October 1999 Decision: Deemed Consent Granted 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
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (E)	0	1	327221 342844
164	BGS Recorded Mineral Sites Site Name: Tref-Y-Nant Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185696 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (S)	302	1	327187 342527
164	BGS Recorded Mineral Sites Site Name: Tref-Y-Nant Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185695 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	332	1	327194 342496
165	BGS Recorded Mineral Sites Site Name: Tre-Y-Nant Hall Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185691 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	377	1	327514 343109
166	BGS Recorded Mineral Sites Site Name: Edward'S Clay Pit Location: Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98661 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (E)	465	1	327700 342855
166	BGS Recorded Mineral Sites Site Name: Plas Kynaston Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185699 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep 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
167	BGS Recorded Mineral Sites Site Name: Mill Inn Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185694 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	504	1	327476 342395
168	BGS Recorded Mineral Sites Site Name: Plas Kynaston Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185692 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	513	1	327690 342609
169	BGS Recorded Mineral Sites Site Name: Plas-Aber-Nant Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185698 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (E)	551	1	327777 342750
170	BGS Recorded Mineral Sites Site Name: Mill Inn Location: Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185693 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	589	1	327628 342406
171	BGS Recorded Mineral Sites Site Name: Penbedw Fireclay Works Coal Pit Location: Acrefair, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98680 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	612	1	327385 343450

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

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

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

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	BGS Recorded Mineral Sites Site Name: Delph Cottages Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185690 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	966	1	327654 343727
194	BGS Recorded Mineral Sites Site Name: Delph Brick & Tile Works Location: Delph, Ruabon, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14106 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	978	1	327875 343595
195	BGS Recorded Mineral Sites Site Name: Gwernydd Clay Pit Location: Garth, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185713 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SW (W)	980	1	326227 342788
196	BGS Recorded Mineral Sites Site Name: Cefn Stone Quarries, No. 2 Location: Cefn-Mawr, Ruabon, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14104 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	998	1	328230 342775
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (E)	0	10	327221 342844
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (E)	0	-	327221 342844
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard 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
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	327221 342847
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	65	1	327268 342786
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	80	1	327143 342893
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	83	1	327200 342939
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	120	1	327123 342931
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	209	1	327059 342993
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	327231 342841
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	327222 342834
	Radon Potential - Radon Affected Areas Affected Area: The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	327221 342844

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	Contemporary Trade Directory Entries Name: Chris' Motors Location: Llangollen Road, Trevor, Llangollen, Clwyd, LL20 7TF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	654	-	326654 342492
204	Contemporary Trade Directory Entries Name: Clwyd Fragrance Location: 12, Cae Bedw, Acrefair, Wrexham, Clwyd, LL14 3TW Classification: Perfume Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	739	-	327752 343384
205	Contemporary Trade Directory Entries Name: S Jones Location: Llangollen, LL20 7TB Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	773	-	326585 342382
206	Contemporary Trade Directory Entries Name: Thyngs Done Location: D Jackson, 16, Crane Street, Wrexham, LL14 3AB Classification: Art Restoration & Picture Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	812	-	327834 342298
207	Contemporary Trade Directory Entries Name: Info-Net Corporation Location: 53 Crane St, Cefn Mawr, Wrexham, Clwyd, LL14 3AB Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	881	-	327886 342252
208	Contemporary Trade Directory Entries Name: W T E Printers Location: High Street, Cefn Mawr, Wrexham, Clwyd, LL14 3DA Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	890	-	327925 342284
209	Contemporary Trade Directory Entries Name: Kinderkey Healthcare Ltd Location: Crane St, Cefn Mawr, Wrexham, Clwyd, LL14 3AB Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	912	-	327911 342234
209	Contemporary Trade Directory Entries Name: Festival Fireworks Location: Cherry Tree House, High Street, Cefn Mawr, Wrexham, Clwyd, LL14 3BY Classification: Firework Stockists Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	919	-	327923 342236
209	Contemporary Trade Directory Entries Name: A E Roberts Location: Minffordd, Crane Street, Cefn Mawr, Wrexham, Clwyd, LL14 3AB Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	952	-	327943 342210
210	Contemporary Trade Directory Entries Name: Air Products Plc Location: Llangollen Road, Acrefair, Wrexham, Clwyd, LL14 3HW Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (E)	962	-	328139 343184
211	Fuel Station Entries Name: The Garage Location: A439, Acrefair, Wrexham, Wrexham, LL14 3RS Brand: Uk Premises Type: Not Applicable Status: Obsolete 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
212	Ancient Woodland Name: Not Supplied Reference: 37529 Area(m ²): 3378.88 Type: Restored Ancient Woodland Site	A13NE (N)	51	2	327226 342909
213	Ancient Woodland Name: Not Supplied Reference: 37530 Area(m ²): 41863.03 Type: Restored Ancient Woodland Site	A13NW (NW)	206	2	327093 343022
214	Ancient Woodland Name: Not Supplied Reference: 37531 Area(m ²): 2602.57 Type: Restored Ancient Woodland Site	A18SW (N)	551	2	327014 343370
215	Ancient Woodland Name: Not Supplied Reference: 31114 Area(m ²): 67892.86 Type: Restored Ancient Woodland Site	A18SW (N)	570	2	327002 343385
216	Ancient Woodland Name: Not Supplied Reference: 37511 Area(m ²): 6531.27 Type: Restored Ancient Woodland Site	A12NE (W)	638	2	326601 343047
217	Ancient Woodland Name: Not Supplied Reference: 37509 Area(m ²): 1390.02 Type: Restored Ancient Woodland Site	A8SW (S)	701	2	327094 342138
218	Ancient Woodland Name: Not Supplied Reference: 31108 Area(m ²): 22187.86 Type: Restored Ancient Woodland Site	A8SW (S)	706	2	327094 342132
219	Ancient Woodland Name: Not Supplied Reference: 34234 Area(m ²): 4847.01 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	723	2	326703 342319
220	Ancient Woodland Name: Not Supplied Reference: 37508 Area(m ²): 2534.27 Type: Restored Ancient Woodland Site	A8SE (S)	761	2	327440 342100
221	Ancient Woodland Name: Not Supplied Reference: 34232 Area(m ²): 4092.19 Type: Ancient and Semi-Natural Woodland	A8SW (S)	775	2	326970 342093
222	Ancient Woodland Name: Not Supplied Reference: 37510 Area(m ²): 32638.3 Type: Restored Ancient Woodland Site	A7NE (SW)	775	2	326800 342174
223	Ancient Woodland Name: Not Supplied Reference: 34233 Area(m ²): 9688.46 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	782	2	326785 342175
224	Ancient Woodland Name: Not Supplied Reference: 37507 Area(m ²): 5296.04 Type: Restored Ancient Woodland Site	A9SW (SE)	821	2	327589 342095
225	Ancient Woodland Name: Not Supplied Reference: 34231 Area(m ²): 4836.41 Type: Ancient and Semi-Natural Woodland	A8SW (S)	836	2	326978 342027

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

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
238	World Heritage Sites Name: Pontcysyllte Aqueduct and Canal Reference: 1000106 Area(m²): 1032871.21 Source: Historic England Designation Date: 1st January 2009	A13SE (S)	300	12	327241 342528

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

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

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

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Shropshire Council - Planning Department	August 2018	As notified
Areas of Unadopted Green Belt Shropshire Council - Planning Department	August 2018	As notified
Areas of Outstanding Natural Beauty Natural England Natural Resources Wales	August 2018 August 2018	Bi-Annually Bi-Annually
Environmentally Sensitive Areas Natural England The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017 January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Denbighshire County Council Natural England Wrexham County Borough Council	August 2018 August 2018 August 2018	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Parks Natural England Natural Resources Wales	April 2017 August 2018	Bi-Annually Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	February 2018	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	February 2018	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually
World Heritage Sites Historic England Welsh Historic Environment Service (Cadw)	July 2018 November 2017	Bi-Annually 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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology 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	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Wrexham County Borough Council - Environmental Health Department Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Denbighshire County Council - Environmental Health Department Caledfryn, Smithfield, Denbigh, Denbighshire, LL16 3RJ	Telephone: 01824 706000 Fax: 01824 705026 Website: www.denbighshire.gov.uk
7	Wrexham County Borough Council Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
8	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	Wrexham County Borough Council - Planning Department Guildhall, Wrexham, LL11 1AY	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
10	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
11	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
12	Historic England 1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST	Telephone: 0370 333 0607 Email: customers@historicengland.org.uk Website: www.historicengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

Hazardous Substances

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

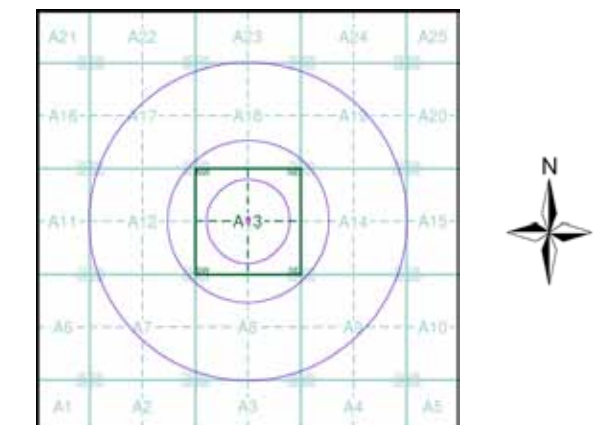
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

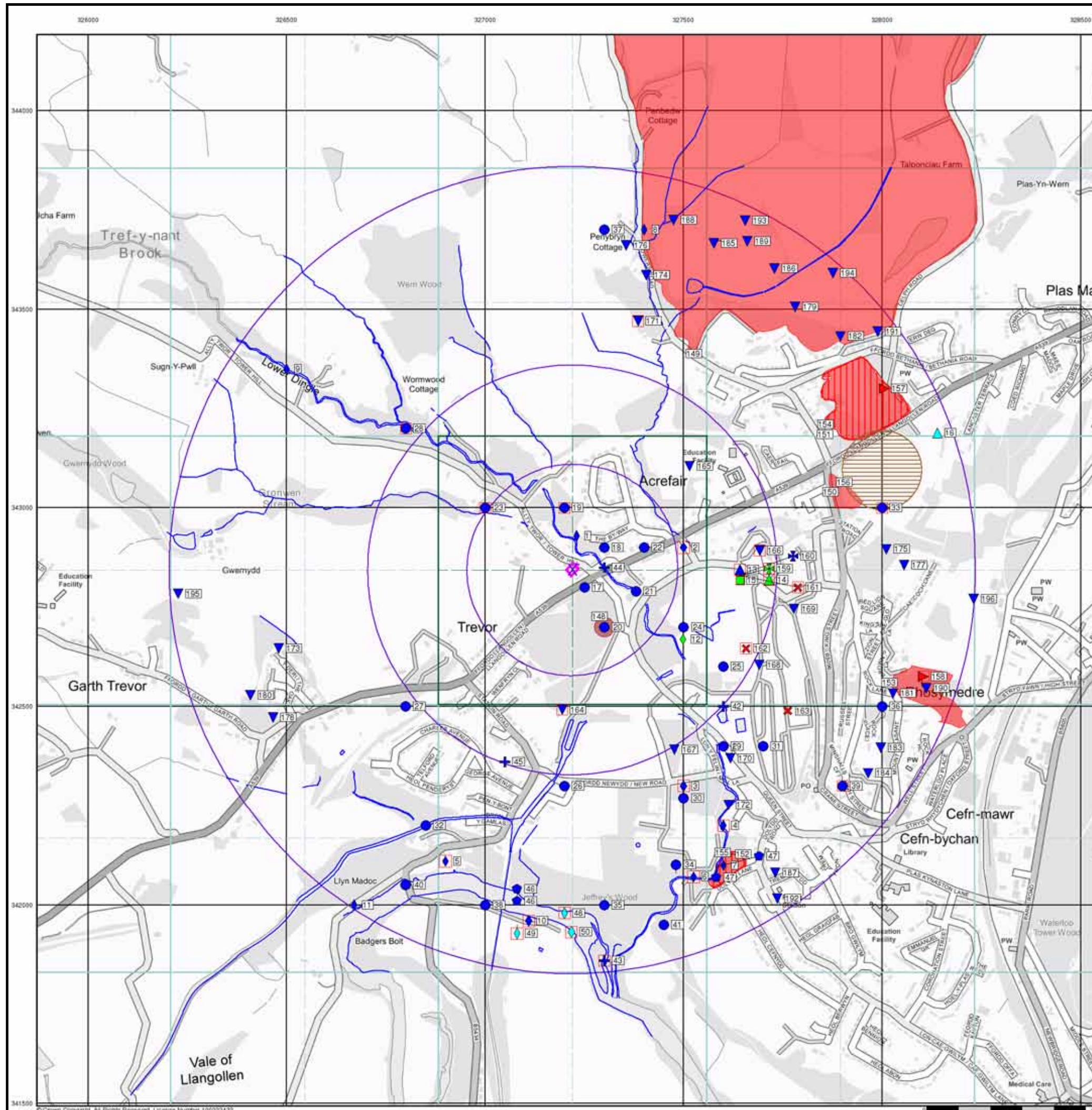


Order Details

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

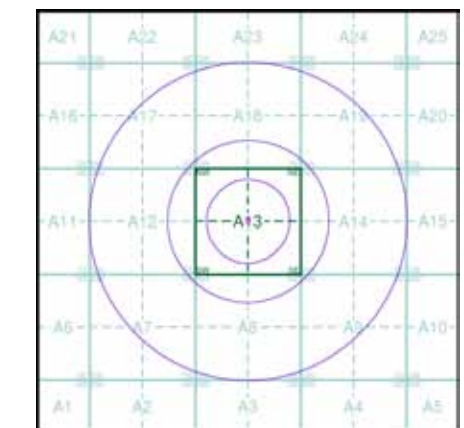
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A

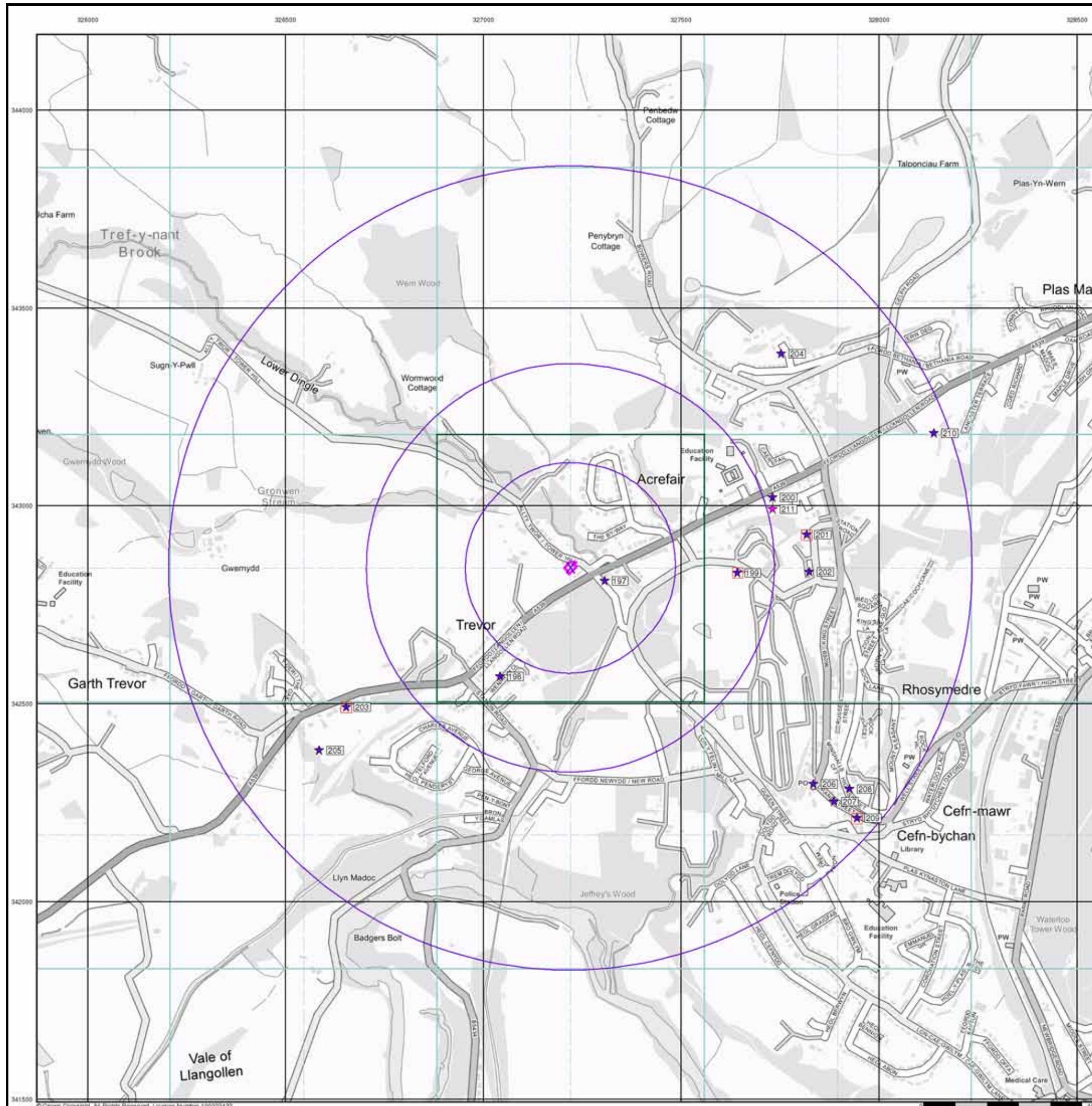


Order Details

Order Number: 191649715_1_1
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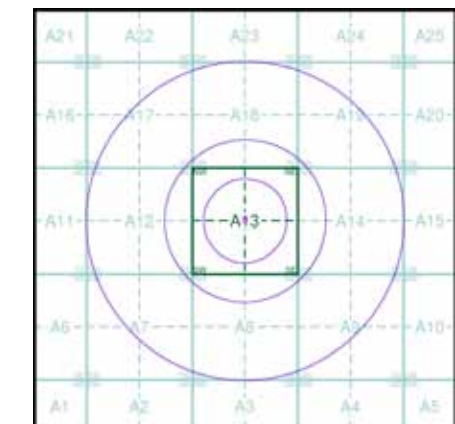
General

- 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

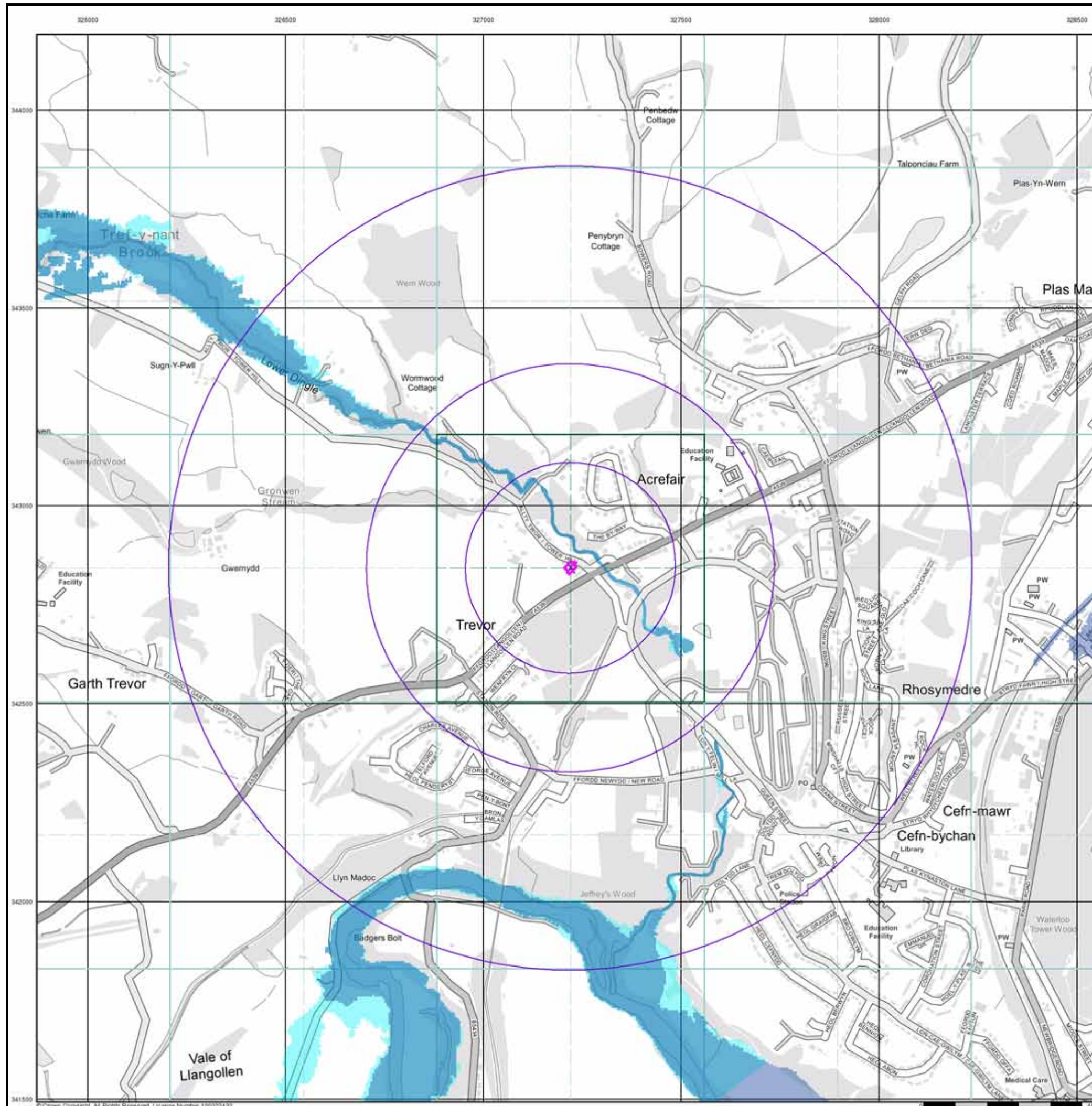


Order Details

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

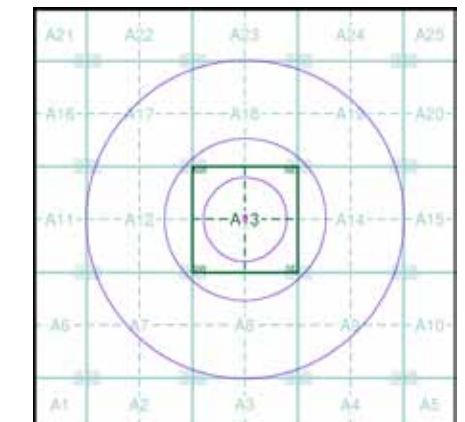
Agency and Hydrological (Boreholes)

- 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.

Borehole Map - Slice A

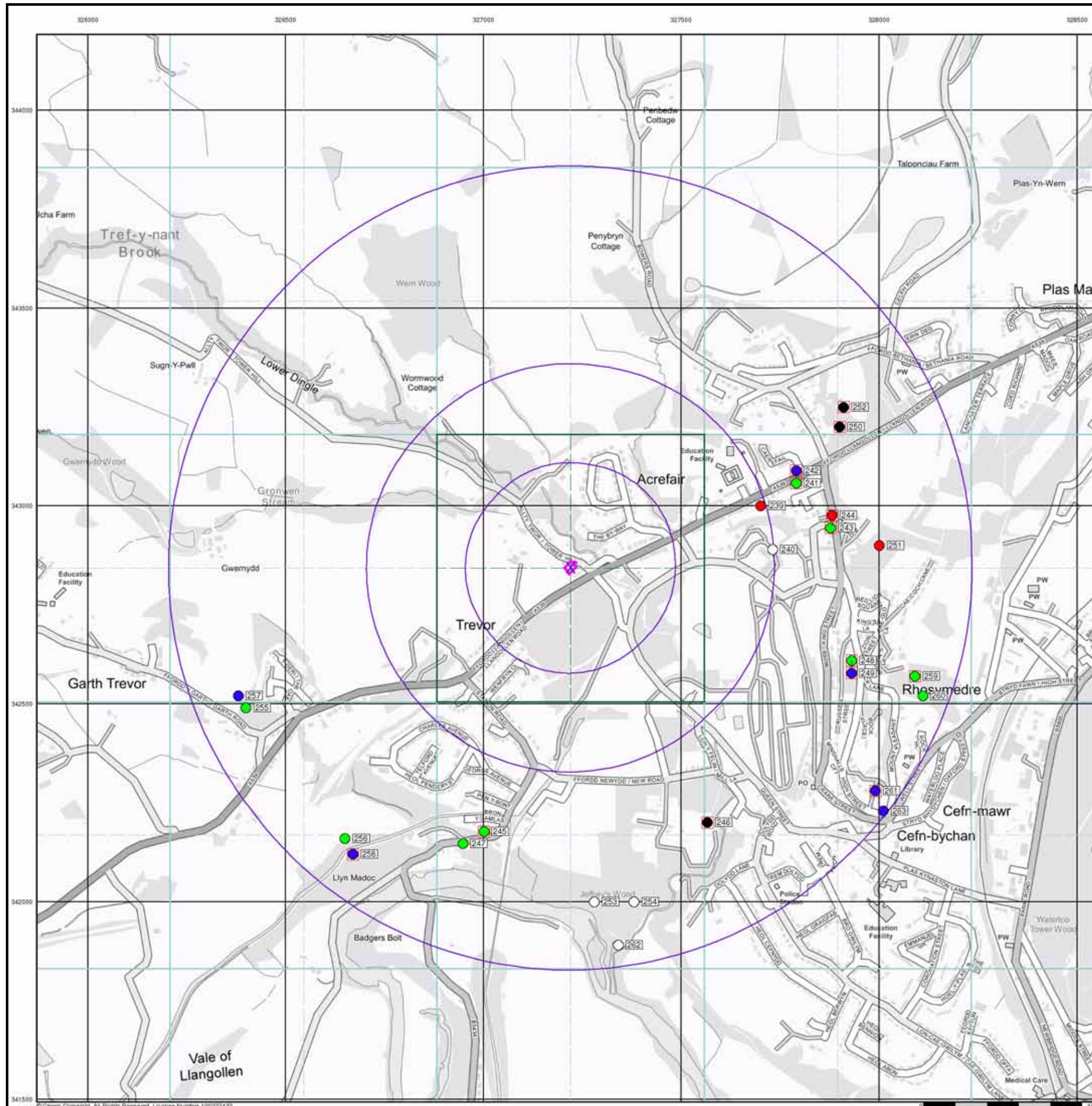


Order Details

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 Site Area (Ha): 0.06
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Site Details

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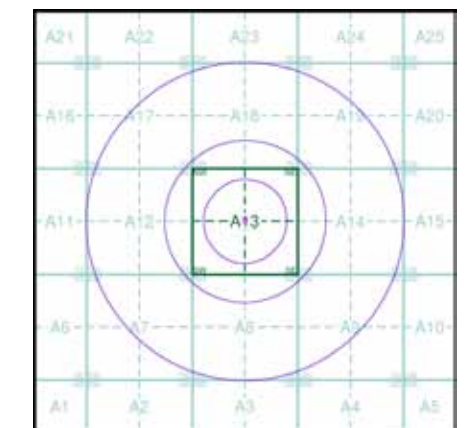
General

-  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

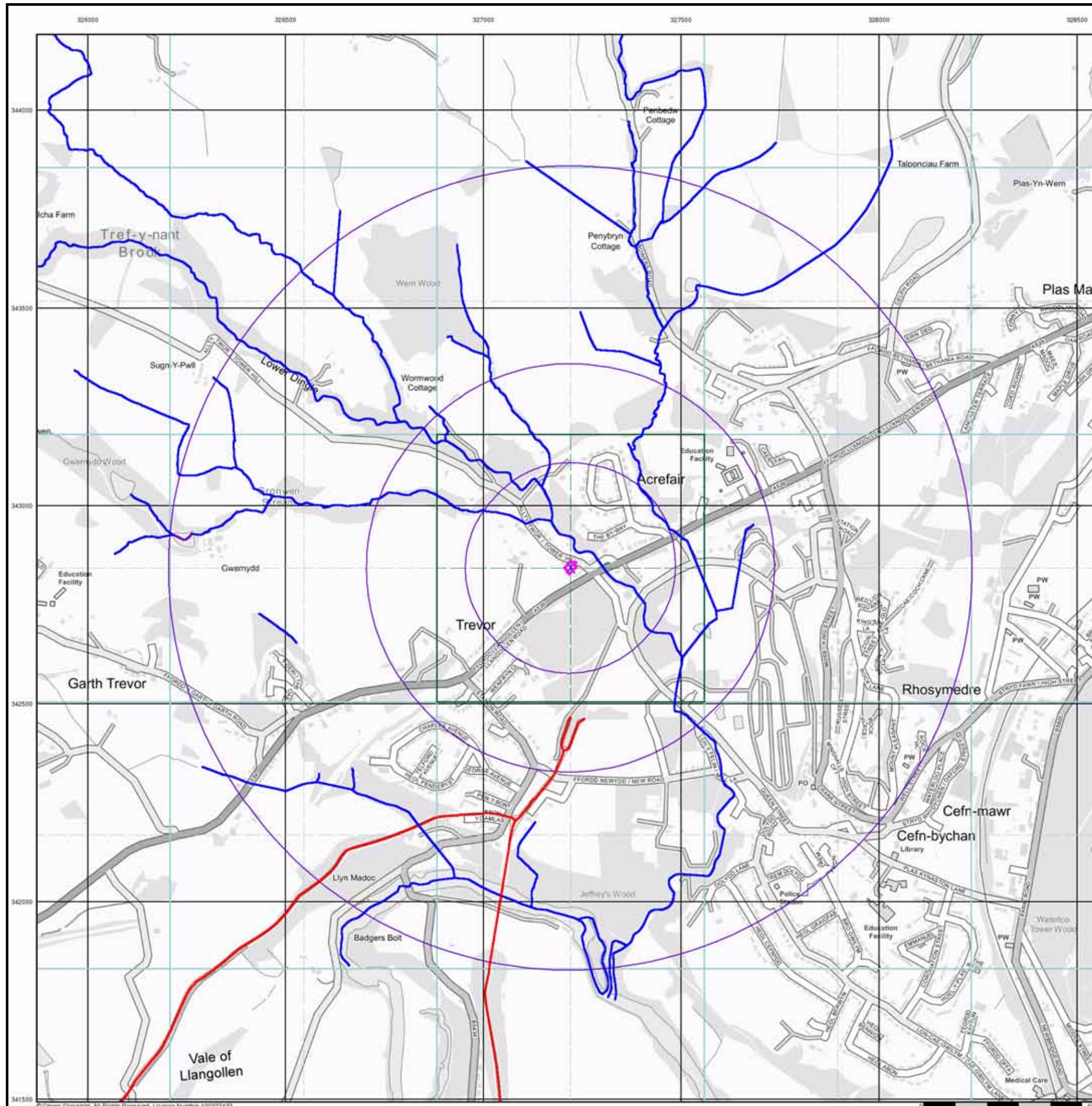


Order Details

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 Site Area (Ha): 0.06
 Search Buffer (m): 1000

Site Details

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





The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

THE TOWERS DAY NURSERY LTD
LLANGOLLEN ROAD
ACREFAIR
WREXHAM

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

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /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.

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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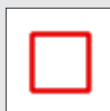
Alternative formats

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

Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

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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
High Likelihood	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.	4
Likely	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.	3
Low Likelihood	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.	2
Unlikely	There is contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.	1

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	4
	Medium	Chronic damage to human health ("significant harm" as defined in the CTL Statutory Guidance)	3
	Mild	Contamination present although unlikely to constitute a significant chronic health risk	2
	Minor	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc.)	1

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

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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