Contaminated Land
Air Quality
Environmental Audit

SMITH GRANT
Environmental
Consultancy
LLP

Partnership No: OC 300776

STAGE 1 CONTAMINATION ASSESSMENT

Land off Queens Street, Cefn Mawr
Planning Ref. P/2010/0374

For: M A Gregory Construction Ltd.

September 2017

R2470-R01-v1

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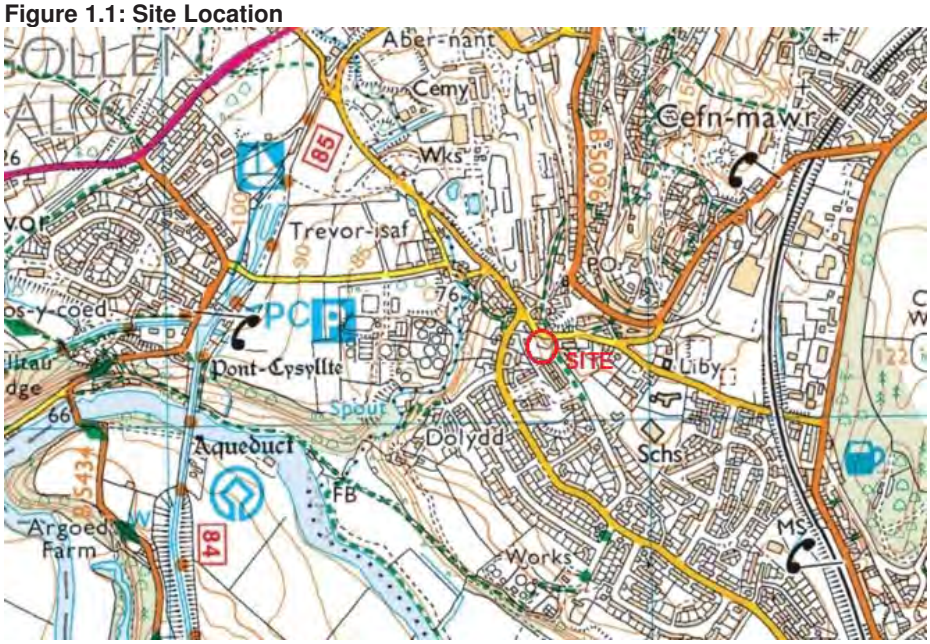
1. Introduction

1.1. Smith Grant LLP (SGP) was instructed by M A Construction Ltd. to undertake a Stage 1 Contamination Assessment for a parcel of land off Queens Street, Cefn Mawr. A site location plan is provided below in Figure 1. Site details are:

Table 1.1: Site details

Address	Land off Queen Street, Cefn Mawr, LL14 3BE
National Grid Reference	327776, 342153
Local Authority	Wrexham County Borough Council
Site Area	Approximately 0.23 Ha (~2,310m^2)
Current Nature of Site	Vacant land
Site Access	Off Queen Street
Proposed use	Erection of two pairs of semi-detached properties with private garden area and formation of vehicular access
Planning ref	P/2010/0374

Figure 1.1: Site Location



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1.2. The site presently consists of a vacant irregular parcel of land with raised plateau in the north of the site along Queen Street before falling to a low-level area of scrubland in the south. A derelict garage is present in the north.

1.3. This report has been produced to identify potential constraints to redevelopment associated with ground conditions at the site and within the surrounding environs. The report describes the findings of Stage 1 Ground Contamination Assessment (desk study) and site inspection

undertaken by SGP to identify the previous and current uses of the site and surrounding area and the potential contaminants that may be present.

1.4. The report methodology follows the framework described in the EA / DEFRA Contaminated Land Report 11: 'Model Procedures for the Management of Land Contamination 2004'. This report contains a qualitative risk assessment and where appropriate makes recommendations for further investigations appropriate to the current and future development.

1.5. This report has been produced in order to partially satisfy Condition 7 of the approved Planning Consent for the construction of 4 residential properties (ref. P/2010/0374) which specifically relates to Land Contamination. The condition is worded as follows:

Condition 7	*No part of the development shall commence until a scheme to deal with potential contamination at the site has been submitted to and approved in writing by the Local Planning Authority. This scheme shall include a phased investigation approach to identify the extent of contamination and any measures required to remediate the site, including post-development monitoring.*

1.6. This report also considers potential constraints to redevelopment resulting from ground stability issues and historical mining. SGP understand that further comment with regards to ground stability and development issues relating to historical mining have been made a separate Mining Investigation Report.

2. Information Sources

2.1. The principle sources of information consulted in the preparation of this report include:

Table 2.1 Information Sources

date and reference	author and source	purpose and information content
Topography, geology, hydrogeology and hydrology		
https://www.ordnancesurvey.co.uk/osmaps/	Ordnance Survey (OS), Explorer Map, 1: 10,000	general mapping information including structures, boundaries, ground features, water features etc
http://mapapps.bgs.ac.uk, http://mapapps2.bgs.ac.uk accessed August 2017	British Geological Survey (BGS)	distribution of geological units at surface and depth and borehole database records
http://www.ukradon.org accessed August 2017	Public Health England (PHE)	mapping identifying required radon protective measures in England & Wales
Historical data		
136984536_1_1 Purchased August 2017 And Envirocheck Viewer (online app)	Envirocheck: Landmark Information Group	historical mapping at 1:10,560, 1:10,000 and 1:2,500 scales from 1873-1875 onwards; site setting mapping
Aerial/satellite photography accessed August 2016	Various sources	Historical images of site from 2006, 2007, 2009 and 2015
Information review		
Envirocheck Report 136984536_1_1 Purchased August 2017	Envirocheck: Landmark Information Group	general information on source protection zones, flood risk zones, pollution hazards, current and historical landfills, water quality information
www.magic.gov.uk accessed August 2017	DEFRA	web-based interactive map containing information on nature conservation areas
Mining Investigation Report (ref. 1722)	NKC Geotech Ltd.	Intrusive investigation to the identify the presence of shallow mine workings

2.2. Previous Site Investigations

2.2.1. SGP understand that a borehole was drilled within the boundary of the site by NKC Geotech Ltd. in 1976. The purpose of the investigation is unknown but is likely to have formed part of a mining investigation assessment. A copy of the borehole log has been provided to SGP and is included within Appendix D. The log records 1.5m of ashy fill overlying weathered sandstone.

2.2.2. A more recent mining investigation has been carried out by NKC Geotech Ltd. in August 2017 which consisted the drilling of 2 boreholes to 30m across the site in order to identify the presence of shallow mine workings. A copy of the mining investigation report (ref 1722) has been made available for review with both borehole drilled in the raised area in the north of the site within the location of the proposed dwellings. Made ground fill consisting of a brown clay

with sandstone and brick was recorded to 3.5m bgl (the approximate height of the raised area) before encountering a highly weathered sandstone. No evidence of old coal workings was encountered with the Warras Coal seam evidently lying deeper than 30m bgl.

2.2.3. The report concluded that there was no evidence of coal or workable thickness of past mining activity within 30m of the surface and that there is no necessity to take structural precautions or remedial works to mining hazards.

2.3. Site Inspection

2.3.1. A preliminary site inspection of the site was carried out by Dan Wayland (Senior Consultant) of SGP on 24th August 2017. The inspection comprised a walkover of the site and the immediate surrounds. A photographic record of salient features is provided in Appendix A.

3. Development History and Current Status

3.1. Historical Uses

3.1.1. A summary of significant historical features, developments, and land uses identified is provided in Table 3.1 below. Copies of selected maps are provided in Drawings D01-D05.

Table 3.1: Summary of Relevant Development History

Map	Site	Surrounds
1873-1875 1: 2,500	Site is occupied by a row of houses in the north and open land, possibly a field in the south. A road bounds the site to the north and west, with possible terraced housing to the east and open fields to the south. (See Drawing D01)	A large spoil mound and associated old shafts (shafts) are mapped approximately 11m to the north of the site beyond Queens Street which is surrounded by the residential properties of Cefn Mawr. The railway which bounds the site to the west extends north through a tunnel, serving the Plas-Kynaston Pottery approximately 95m to the north of the site. The pottery comprises of a number of buildings and two circular structures (possible kilns); two old coal shafts are mapped within the surrounds of the pottery. Beyond the pottery Plas-Kynaston Chemical Works is present which includes buildings, roads, possible tanks and a number of old coal shafts and spoil mounds. A canal extends to the immediate east of the pottery and chemical works. Spoil heaps are mapped approximately 100m to the south and an unnamed river is located approximately 125m to the west and flows in a southerly direction into the River Dee. Four quarries, one of which is mapped as old is located to the northeast of the site, the closest of which is approximately 215m from the site's boundary. The Great Western Railway is mapped approximately 425m to the east, beyond which Plas-Kynaston colliery is located.

1879 1:10,560	No significant changes to the site	No significant changes to the site A well is located approximately 85m to the north.
1899 1:2,500	No significant changes to the site (See Drawing D02)	A school is now present approximately 40m to the east The pottery to the north is mapped as disused and the chemical works appears to have expanded on an area of land to the northeast between two canals. A sewage works is now located approximately 390m to the southwest along the unnamed river.
1900 1:10,560	No significant changes to the site	No significant changes to surrounding environment
1912 1:2,500	No significant changes to the site (See Drawing D03)	The pottery has now been demolished with only some former buildings remaining.
1914 1:10,560	No buildings are mapped as being present in the northwest suggesting demolition, buildings in the east remain.	No significant changes to surrounding environment
1938-1954 1:10,560	No significant changes to the site	Significant residential development has taken place to the south with construction of Bron Berwyn and Bro Gwilym housing estates/
1954 1: 10,560	No buildings are mapped as being present on the site although the spatial resolution to confirm this is poor. The site is split into two halves with a boundary line dividing the northern and southern parts of the site.	The chemical works has significantly expanded; the works now extends to approximately 100m from the site's northern boundary. The canal which was once present to the north between the former brick works and chemical works is now longer shown A sewage works with circular treatment tanks is mapped 230m to the west.

1961-1962 1:2,500 & 1963 1:10,000	The site is no longer split into two halves; the partial outline of a building or contour line is mapped in the northeast and may relate to the embankment currently present on site. A small outbuilding / garage remains in the northeast. (See Drawing D04)	The vacant land to the immediate south is now shown to have a steep embankment on one side with a disused shaft mapped approximately 130m to the south of the site. A depot is mapped approximately 75m to the northwest. The chemical works to the north is occupied small and large buildings with approximately 90 circular structures (assumed to be tanks) and 2 chimneys. The sewage treatment works to the west has expanded significantly with 14 large tanks (6 mapped as water) present. The surface watercourse is mapped as Tref-y-Nant brook.
1974 1:2,500	No significant changes to the site	Significant residential development has taken place to the former vacant land to the immediate south of the site.
1977 1:10,000	No significant changes to the site	No significant changes to surrounding environment
1986 1:10,000	No significant changes to the site	No significant changes to surrounding environment
1994 1:2,500 & 1995 1:10,000	The site appears to be divided into three sections. (See Drawing D05)	Two ponds or reservoirs are mapped in the south of the chemical works approximately 270m from the site boundary.
2000 1:10,000	No significant changes to the site	No significant changes to surrounding environment
2001 Satellite Imagery	Site appears to be covered by vegetation, a possible area of hardstanding is located in the northeast with a car parked adjacent to the small outbuilding suggesting a possible garage	No significant changes to surrounding environment
2006 1:10,000	No significant changes to the site	No significant changes to surrounding environment
2017 1:10,000	Site now mapped as being split into two sections	*Only part of the chemical works buildings are shaded in suggesting its possible disuse / abandonment.*

3.1.2. Whilst there are some gaps in the historical map coverage it is considered that the available information provides adequate coverage of the development history of the site and its

immediate surroundings.

3.2. Current land condition

3.2.1. A photographic record of the site inspection is provided in Appendix A. A summary of existing significant features noted during SGP's inspection, and examination of contemporary records is presented below.

Table 3.2: Present Land Condition

Site Description	The site comprises of a vacant parcel of land which forms a raised plateau in the north and low area in the south. A derelict structure (former garage) is present in the north; the site is covered in vegetation.
Access	Access to the site is currently off Queens Street through a gated entrance.
Boundaries	**North:** wire fence and access gate extending onto Queens Street **East:** wire fence and hedgerow extending onto public footpath **South:** wire fence and hedgerow with mature trees extending onto neighbouring residential properties **West:** wire fence and hedgerow with mature trees extending onto neighbouring residential properties
Drainage	The site surface appeared to be free draining with only a limited area of hard-standing (site entrance and garage building). Drainage is likely to be through the infiltration into the shallow ground or during periods of extensive precipitation surface run-off into the surface water drains along Queens Street.
Rights of Way	No rights of way are mapped as crossing the site although a public footpath extends to the immediate east of the site
Structures	The only existing structure is a derelict garage building which is constructed from concrete walls and possible asbestos cement roof sheeting.
Services and Utilities	No service plans have been obtained as part of this report and SGP have not carried out a comprehensive search for services and utilities. A telegraph pole is located off the northwest corner of the site with the overhead line extending to the immediate north of the site above the adjacent pavement.
Industrial Land Use	There is no evidence of any industrial or commercial activities taking place on the site with the site remaining derelict since the demolition of the former housing The wider land use was occupied by significant historical industrial processes which included mine shafts, a pottery, quarries, landfills and most notably a chemical works. These were predominantly located to the north of the site. Contemporary trade records provided within the Envirocheck Report confirm that the nearest trade directory is located approximately 150m from the site.
Topography Surfaces / Vegetation	The site comprises of a raised level plateau in the north of the site which is occupied by a derelict detached garage and exposed made ground. The embankment which forms the raised areas falls sharply to the south and appears to be comprised of ashy soil with cobbles of brick and stone. The southern half of the site lies approximately 3.5m lower than the northern half and is generally level with a slight slope to the south. The site is covered in rough vegetation with exposed made ground soils visible across the site.

	Exposed soils in the level areas in the north and south appear to consist of ashy gravelly soils with cobbles of brick and stone; the soils were widely vegetated. Materials observed within the embankment again consisted of ashy gravel soils with cobbles to boulders of stone and brick. Sandstone blocks were observed at the base of the embankment, possibly relating to a historical retaining wall or part of the former buildings which once occupied this part of the site. Anecdotal information from the site owner is that the previous landowner imported granular fill materials including ash and brick for placement in the north of the site, this possibly relates to the observed materials. Borehole logs provided from the recent mining investigation recorded made ground fill to 3.5m bgl within the raised area.

4. Site Characterisation

4.1. Present land condition

Table 4.1: Environmental Setting

Surrounding Landuse	The site is located within the village of Cefn Mawr off Queen Street with a predominantly mixed residential, rural and industrial surround. The immediate surrounds are residential to the north, south, east and west with former industrial land is located approximately 110m to the north. The industrial land, now derelict was occupied by a chemical works since pre-1873, information from online resources suggest the works was opened in 1867 by Robert Graesser before being taken over by Monsanta in 1919 and by Flexys in 1997 before closure in 2008. The works originally opened to extract paraffin oil and wax from shales provided from nearby collieries before expanding to produce coal tar and phenol. Takeover by Monsanto involved the production of a wide range of organic compounds and included chemical used within the production and synthesis of rubber.
Topography	The north of the site is a raised level plateau before falling to the south by a steep embankment. The southern half of the site is generally level with a slight fall to the south and lies approximately 3.5m lower than the northern half of the site.
Natural Conditions / Geology	Made Ground Made ground fill associated with the raised area in the north has been recorded to 3.5m bgl consisting of a brown clay with sandstone and brick. A borehole log provided within the mining investigation which drilled in 1976 recorded 1.5m bgl of black ash. The recorded ground conditions are in general agreement with observations of exposed soils during the site walkover. Superficial Deposits Glacial till (boulder clay) is mapped as underlying the north and east of the site with glaciofluvial deposits of sand and gravel mapped in the south and west. No superficial deposits were encountered during the recent mining investigation. Bedrock Deposits Pennine Lower Coal Measures Formation of mudstone, siltstone and sandstone which may consist of interbedded grey mudstone, siltstone, pale grey sandstone and coal seams with a bed of mudstone containing marine fossils at the base and several fossil-bearing mudstones. Faults A fault is found approximately 50m to the west of the site. BH Records

	BH logs provided within the recent mining investigation included 2 boreholes to 30m bgl and a historical borehole to 20m bgl drilled in 1976, all boreholes were located within the raised area in the north of the site. The logs recorded made ground fill of a brown clay with sandstone and brick to 3.5m bgl with the historical borehole recording 1.5m of ashy fill. Weathered sandstone of the Pennine Lower Coal Measures Formation was recorded below made ground deposits, no shallow mineworkings or coal seems were recorded. The nearest BGS recorded borehole records to the site is located approximately 250m to the northeast (ref. SJ26NE823) which reported weathered mudstone at the surface underlain by sandstone and mudstone with traces of coal. <u>Ground Stability</u> Ground stability information reported within the Envirocheck Sensitivity Report (Appendix C) indicates a very low stability hazard of natural soils with regards to collapsible ground, landslide, running sand and shrinking or swelling clay, and no hazard with regards to compressible ground and ground dissolution. The site is located within an area which may be affected by coal mining activity, it is understood that this is being investigated and assessment by a mining specialist.
Hydrogeology / Groundwater	<u>Aquifer Designation</u> Superficial deposits in the north and east (boulder clay) is mapped as unproductive strata with glaciofluvial deposits in the south and west mapped as a Secondary A aquifer which is considered capable of supporting water supplies at a local rather than a strategic scale, and in some cases forming an important source of base flow to rivers. The bedrock aquifer is also designated as a Secondary A aquifer. <u>Protection/Abstraction Classification</u> The site falls within a groundwater vulnerability zone of high for the minor aquifer with a soil classification with high leaching potential. The site is not located within a water abstraction zone or Source Protection Zone.
Hydrology / Drainage	The nearest surface watercourse is Tref-y-Nant brook located approximately 140m to the west. The majority of the site is covered by vegetation (grass) or exposed granular made ground; therefore, drainage will be predominantly via percolation / infiltration into the underlying soils. During periods of heavy rain, surface water-runoff in the north of the site may drain into surface water drains along Queens Street
Flood Risk	The EA flood risk map shows that the site to have limited potential for groundwater flooding to occur and to be at very low risk (less than 1 in 1,000 annually) from flooding events from surface waters.
Radon	The Envirocheck report identifies the site as being located within an area where 10-30% of homes are affected by the ingress of radon whilst BGS mapping reports the site to be located with an area where >30% of homes are affected by the ingress of radon. Both classifications require that full radon protection measures are installed within new

	permanent buildings or extensions.
Ecology and Conservation	The site is not located within an area of ecological concern or conservation but is located within the buffer zone of a world heritage site (Pontcysllte Aquaduct and Canal).
Mining	No mining activities have been identified as having taken place on the site through the reviewed historical mapping and Envirocheck Report, however a number of coal shafts have been identified within the surrounding land. The mining investigation conducted by NKC Geotech reports that no mine entries are located within 20m of the site boundary and that there is no evidence of old coal workings or coal or workable thickness within 30m of the surface. References should be made to the NKC Geotech Ltd. Coal Mining Risk Assessment and Mining Investigation Report (ref 1722) with regards to risk to the site from coal mining.
Excavation and Land filling	Historical mapping does not suggest that excavation of landfilling has taken place on the site, although anecdotal evidence from the current site owner suggests that the former site owner brought on materials from the nearby Monsanta chemical works (formerly Flexys), apparently consisting of ash, brick and stone. It is understood that the materials were placed in the site entrance and may related to the observed raised plateau and embankment of made ground materials observed during the site walkover. The surrounding land has been subject to excavation and landfilling, primarily through quarries or spoil mounds within the locality. The nearest spoil mound was located approximately 11m to the north with a nearby shaft and the nearest quarry was approximately 215m to the northeast, both features were present within the earliest available mapping (1873-1875). Three historical landfills and no current landfills are located within 0.5km of the site according to the Envirocheck Report (data supplied by Wrexham County Borough Council) <u>Cestria, Dolydd Lane</u> (~127m to west of site). Operational between 1990 and 1994. Waste accepted included inert, industrial, commercial, household and special waste. <u>Druids United Football Club</u> (~377m to the east of the site). Operational between March 1983 and December 1983. Deposited waste included inert, industrial, commercial and household. <u>Monsanto Plc, Rhosmedre</u> (~459m to the northeast of the site). Operational dates unknown. Waste received included industrial and household waste.

5. Preliminary Conceptual Model and Risk Assessment

5.1. Methodology

5.1.1. Information from the desk study has been used to identify the likely source-pathway-target relationships that may exist at the site during and following the proposed development. Principal factors that may determine potential sources of contaminants at the site, receptor vulnerability and potential pathways have been identified and each assessed in turn to derive a Conceptual Site Model (CSM).

5.2. Site Source

5.2.1. The historical mapping indicates that the site was occupied by a number of buildings (probably residential properties) from the earliest available mapping (1873-1875) before their demolition. Demolition of the buildings in the northwest are understood to have taken place sometime between 1912 and 1914 before the remaining buildings in the east were demolished around 1938-1954. A small building remained following demolition works in the northeast, this is understood to be the existing garage.

5.2.2. A mining investigation works carried out by NKC Geotech Ltd. in August 2017 recorded made ground fill consisting of a clay soil with sandstone and brick to a depth of 2.5m bgl within both boreholes located in the raised area in the north of the site. The recorded depth of made ground is in agreement with the approximate height of the raised northern area which is underlain by weathered sandstone. No entries were drilled in the lower southern half of the site, however based on the intrusive investigation it may be reasonable to infer that only a surface covering of made ground (as observed during the site walkover consisting of ashy soils) is present in the south before extending onto sandstone.

5.2.3. Anecdotal information provided by the client suggested that a former land owner imported ash and brick fill from the former Monsanto chemical works for placement as fill in the north (entrance) to the site. Monsanto (formerly Flexys) manufactured a variety of organic chemicals which included chemicals used in the production and synthesis of rubber.

5.2.4. Ashy soils were observed across the site surface during the site walkover and were recorded to 1.5m bgl within the historical (1976) borehole. The presence of ash and other anthropogenic materials synonymous with urban soils may include elevated concentrations of organic (polycyclic aromatic hydrocarbons) and inorganic (asbestos fibres and heavy metals) contaminants at concentrations above human health criteria.

5.2.5. The earliest recorded site buildings were constructed at a time which pre-dates the widespread use of asbestos as a building material, however potential asbestos cement sheeting was observed within the roof of the derelict garage suggesting it could have been present within other structures on the site. Similarly imported fill materials could have included asbestos fibres.

5.2.6. The site is located within an area where 10-30% (Envirocheck Report) or 30% (BGS Mapping) of homes lie above the Radon Action Level. Whilst there are some discrepancies between the two references classifications, both require full radon protection measures to be installed with new dwellings or extensions.

5.3. Off-Site Sources

5.3.1. The surrounding land has been historically mined with a number of shafts and spoils mounds identified within the reviewed historical maps. NKC have conducted an intrusive mining assessment and confirm that no mine entries are present within 20m of the site boundary and that there was no evidence of old coal workings or coal of workable thickness within 30m of the site surface. Given the absence of shallow mineworkings or mine entries it is considered that there is no risk from mine gas which can be associated with such historical features. In-hole gas testing carried out during the drilling of boreholes did not record methane or carbon dioxide emissions.

5.3.2. The former chemical works to the north where a wide variety of bulk chemicals were stored and used extended to within 100m of the site with the site located downgradient from the former works.

5.3.3. Three historic landfills have been identified within 0.5km of the site's boundaries, the closest of which is located approximately 127m to the west on Dolydd Lane by Cestria. The landfill operated between 1990 and 1994 and received inert, commercial, industrial, household and special waste. The risk of landfill gas emissions on the site are considered to be very low given the lateral distance of migration required and the local topography where the site is located at approximately 98m aod compared to the landfill at around 80m aod.

5.4. Potential Receptors

5.4.1. The proposed use of the site for residential re-development which is considered to be of high sensitivity with respect to human health.

5.4.2. The principal vulnerable receptors for the existing and proposed use will be:

- construction workers who may be exposed to contaminants during preparatory and construction/refurbishment works;
- future residents and site visitors, primarily assumed to be residents including infants and children;
- future maintenance workers;
- buildings / structures.

5.4.3. The surrounding area consists of residential housing fronting the site on all boundaries.

5.5. Human Health Risk Assessment

5.5.1. The potential for significant contamination to be present that may pose an acute risk to construction workers during the development is considered low. Similarly, future maintenance workers are unlikely to be exposed to materials with the potential to cause health impacts.

5.5.2. Made ground of ashy fill has been historically reported during the 1976 investigation by NKC Geotech although no such materials were recorded during the recent 2017 investigation with only a brown clay fill with sandstone and brick being recorded. This may correspond to changes in site levels over time as anecdotally reported where the former landowner imported inert materials for placement within the site entrance (northern area). A surface cover of ashy soils was observed during the site walkover whilst made ground fill within the raised northern area has been reported to be of a thickness of 3.5m bgl, such made ground deposits may contain asbestos fibres, PAH and metal concentrations which could pose an unacceptable risk if retained at shallow depth in future garden areas.

5.5.3. Imported fill materials from the former Monsanto chemical works are understood to have been placed in the north of the site and may relate to the observed ash and granular materials within the exposed sides of the embankment. The presence of organic contaminants associated with chemical residues associated with the chemical works cannot be discounted given the origin of the source material.

5.5.4. The derelict garage in the northeast of the site has been observed to contain possible asbestos cement roof sheets which suggests that possible asbestos containing materials may have been present within the former buildings in the north of the site prior to their demolition. The potential therefore remains for residual fibres to be present in surface soils, particularly if any ACM present was in a friable state, uncontrolled removal was carried out or that imported fill materials contained asbestos fibres.

5.5.5. The site is located within an area where 10-30% (Envirocheck) or >30% (BGS Mapping) of homes are above Radon Action Levels. Full radon protection measures are required in the construction of new dwelling or extensions for either classification.

5.5.6. Migration of organic compounds from the former chemical works located to the north of the site via the groundwater is considered unlikely but not impossible.

5.6. Buildings & Structures

5.6.1. The site is located within an area where natural soils are classed as posing very low stability hazard of natural soils with regards to collapsible ground, landslide, running sand and shrinking or swelling clay, and no hazard with regards to compressible ground and ground dissolution but geotechnical conditions need reporting.

5.7. Controlled Waters Risk Assessment

5.7.1. The site is in an area of low environmental sensitivity as far as groundwater is concerned with the underlying glaciofluvial deposits (sands and gravels) and bedrock of Lower Pennine Coal Measures supporting a Secondary A aquifer although this is not located within a water abstraction zone. The nearest surface watercourse is an unnamed river located approximately 140m to the west.

5.7.2. Perched water may be present within any made ground present or within granular horizons which may be present. The mapped presence of glacial till in the north and east of the site is anticipated to significantly inhibit the vertical migration of water into the underlying bedrock aquifer.

5.7.3. Flow to the nearest surface watercourse is probably via a combination of infiltration, surface run-off or preferential flow paths such as surface water drains, however no such pollution sources have been determined as being present on the site.

5.7.4. No viable pollution sources have been identified and the site is considered to be of low sensitivity with regards to risk to controlled waters, particularly given the context of the site.

5.8. Site Conceptual Model

5.8.1. Potential pollution linkages between the identified contamination sources and existing and future receptors are summarised in Table 5.1 below:

Table 5.1: Conceptual Site Model

Hazardous Source		Receptor	Pathway	Risk Assessment			Notes
Origin	**Contaminant**			**Consequence**	**Probability**	**Risk**	
Shallow soils / fill materials	Metals, PAHs, asbestos, organics	Future site occupants, visitors and neighbours	direct contact / dust & soil ingestion and inhalation	severe	possible	**moderate**	Detailed composition and contamination status is currently unconfirmed. ***Investigation to confirm the shallow ground conditions and sampling of the made ground to determine that concentrations of contaminants do not pose a risk to future site occupants.***
		Construction workers / maintenance workers	direct contact / dust & soil ingestion and inhalation	severe	unlikely	**low / moderate**	Detailed composition and contamination status is currently unconfirmed but exposure frequency and duration, and sensitivity of receptors is less than residents. ***Investigation to confirm the shallow ground conditions and sampling of the made ground to determine that concentrations of contaminants do not pose a risk to future site occupants.***
		Shallow aquifer / surface waters	leaching and infiltration through unsaturated zone, surface run-off into surface water drains	medium	very unlikely	**very low**	Run-off from the site into surface water drains and vertical migration of leachable metals/organics which may be present within the made ground is considered to be negligible compared to the input from the wider surrounding area. ***Investigation to confirm the shallow ground conditions underlying the site.***
	pH and sulphate	Property / Services	Chemical attack of buried concrete and plastic materials	medium	possible	**moderate**	Depth and composition of made ground is currently unknown and may contain contaminants at unacceptable concentrations for residential use. ***Investigation to confirm the shallow ground conditions and sampling of the made ground to determine that sulphate and pH concentrations to***

Hazardous Source		Receptor	Pathway	Risk Assessment			Notes
Origin	**Contaminant**			**Consequence**	**Probability**	**Risk**	
							determine the potential for chemical attack of buried concrete.
Landfill / mine workings	Ground gases (CH_4, CO_2), radon	future site users / unventilated voids in future buildings	inhalation risk	severe	possible	**moderate**	No evidence of shallow mineworkings or mine entries have been recorded below the site. The site is located with an area where 10-30% or >30% of homes are above the Radon Action Level. ***Full radon protection measures are required in any case.***

Note: Risk Assessment based on guidance provided in CIRIA 552, 2001, 'Contaminated Land Risk Assessment: Guide to Good Practice'

6. Conclusions and Recommendations

6.1. Conclusions

6.1.1. The site was occupied by residential properties from the earliest available mapping before partial demolition sometime between 1912 and 1914 with demolition of remaining buildings occurring between 1938 and 1954. Since this time a small building remained in the north-east, this is now understood to be the existing garage which is in a derelict state.

6.1.2. No further works are understood to have taken place since with the site remaining vacant, although anecdotal information suggests that the former site owner imported inert fill materials from the former Monsanto works for placement in the north of the site. A historical mining investigation borehole record from 1976 reported 1.5m of ashy fill in the north of the site whereas the recent mining investigation recorded made ground fill (clay with sandstone and brick) to 3.5m in the north. This variation in made ground composition and thickness may correspond to the import and placement of fill materials as anecdotally reported.

6.1.3. The surrounding land has been subjected to historical coal mining with a number of shafts identified within the reviewed historical maps. A recent coal mining investigation completed by NKC Geotech Ltd. who confirmed the presence of 3.5m made ground fill in the north of the site onto weathered sandstone, reported that there was no evidence of coal of workable thickness or past mining activity within 30m of the surface.

6.1.4. Contamination that may pose a significant constraint to the proposed residential development is not expected, however the former use of the site indicates a number of potential contaminant sources. Moderate concentrations of heavy metals and PAHs associated with made ground soils, particularly where there are inclusions of ash or other anthropogenic materials are likely to be present. Similarly, the presence of asbestos fibres within the made ground soils cannot be discounted, particularly as the remaining structures has been observed to potentially containing asbestos cement sheeting.

6.1.5. Inert fill materials are understood to have been imported from the former Monsanto chemical works in the north (formerly Flexys) for placement in the north of the site. The chemical works manufactured a variety of chemicals, the presence of such contaminants within imported fill material originating from the chemical works cannot be discounted.

6.1.6. The site is located approximately 127m from a landfill which accepted inert, commercial, industrial, household and special waste. The risk of lateral landfill gas migration on to the site is considered to be very low given the distance for migration and the local topography where the landfill sits at the base of a valley with the site lying some 20m higher, however the site is located within an area requiring full radon protection measures in all new buildings or extensions.

6.1.7. Potential contaminants identified are unlikely to impact controlled waters, but the site is assessed as posing a moderate risk to human health associated with land contamination due to the unconfirmed chemical status of made ground with respect to soil contaminants

6.2. Recommendations

6.2.1. Due to the potential for contaminants to exist within the made ground, it is recommended that shallow soil / made ground is sampled in order to assess whether concentrations are present at unacceptable levels and whether mitigation measures such as the application of a soil cover system for gardens is required. Such an intrusive investigation could be achieved through the excavation of trial-pits providing a suitably sized machine is made available to achieve sufficient penetration within the raised area in the north.

6.2.2. Sampling of soils should include a range of typical contaminants such as heavy metals, PAHs, hydrocarbons and asbestos fibres. It is also recommended that sampling of made ground soils should also include a suitable organic suite including tentatively identified compounds (TICs) to check for the presence of organic contaminants that are not part of standard test suites.

6.2.3. Full radon protective measures are necessary in the construction of new dwellings or extensions in any case. This should afford a degree of protection from other low-risk off-site gas / volatile sources although site conditions need to be confirmed.

6.2.4. This Phase 1 report should be provided to the Contaminated Land Officer at WCBC and the proposed scope of Phase 2 intrusive investigations agreed in advance. If required, depended on the results of the investigation, an appropriate remedial strategy should be agreed prior to the on-set of development.

6.3. Limitations

6.3.1. SGP reserves the right to alter any of the foregoing information in the event of new information being disclosed or provided and in the light of changes to legislation, guidelines and responses by the statutory and regulatory authorities.

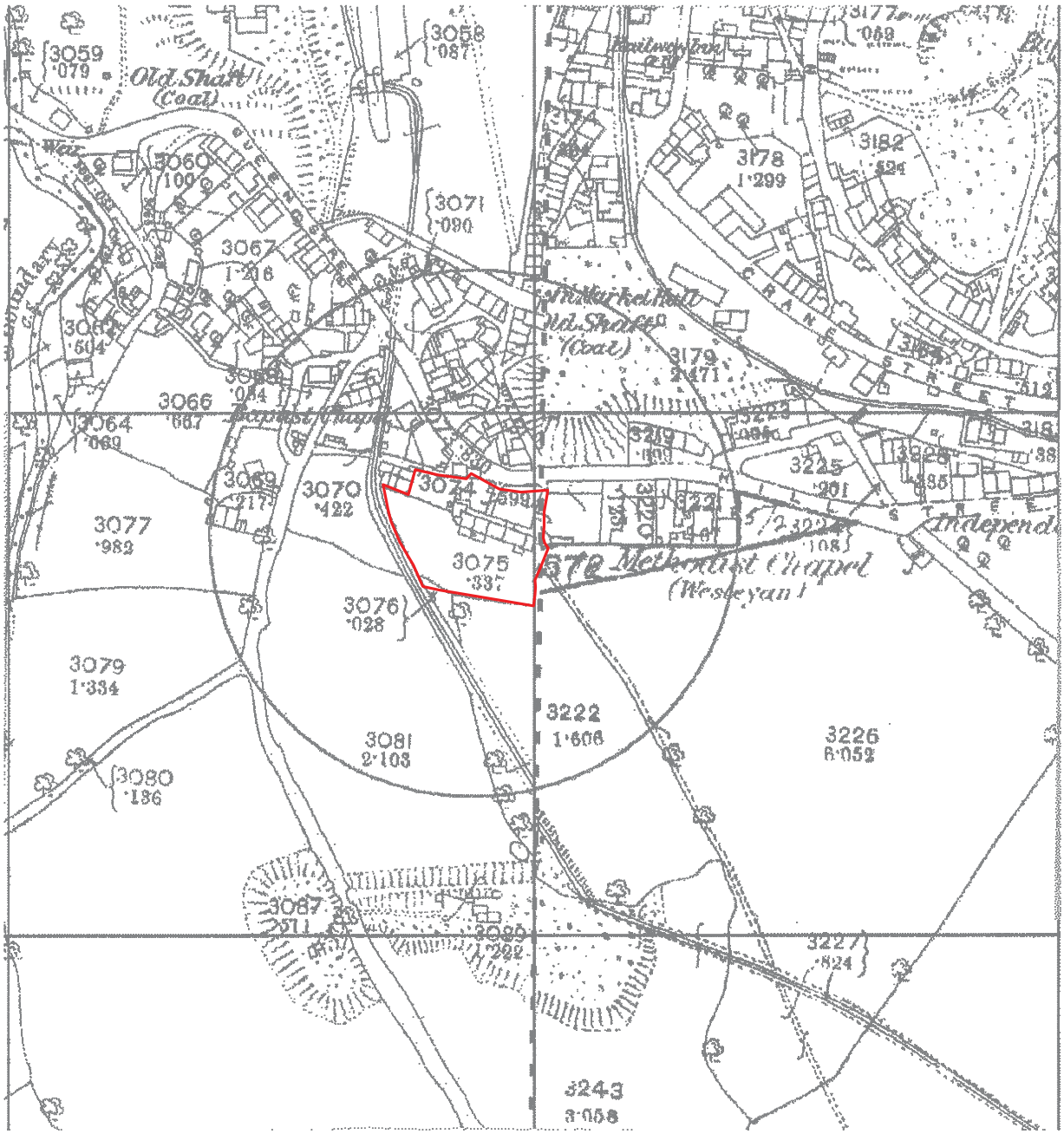
6.3.2. This report partially reviews and relies upon information provided by others. Smith Grant LLP accepts no responsibility for advice given on the basis of incorrect factual information provided to it. It was not possible to carry out an inspection of the internal parts of the site; therefore conclusions drawn from observations of the current status of the site should be treated with caution.

6.3.3. This report has been prepared by Smith Grant LLP, for the sole and exclusive use of MA Gregory Construction Ltd. The benefit of this report may not be assigned to any other party without the prior agreement in writing of Smith Grant LLP. Reasonable skill, care and diligence

have been exercised within the timescale and budget available, and in accordance with the technical requirements of the brief.

6.3.4. Notwithstanding the efforts made by the professional team in undertaking the assessment and preparing this report, it is possible that other ground conditions and contamination as yet undetected may exist. Reliance on the findings of this report must therefore be limited accordingly. Such reliance must be based on the whole report and not on extracts which may lead to incomplete or incorrect conclusions when taken out of context.

DRAWINGS



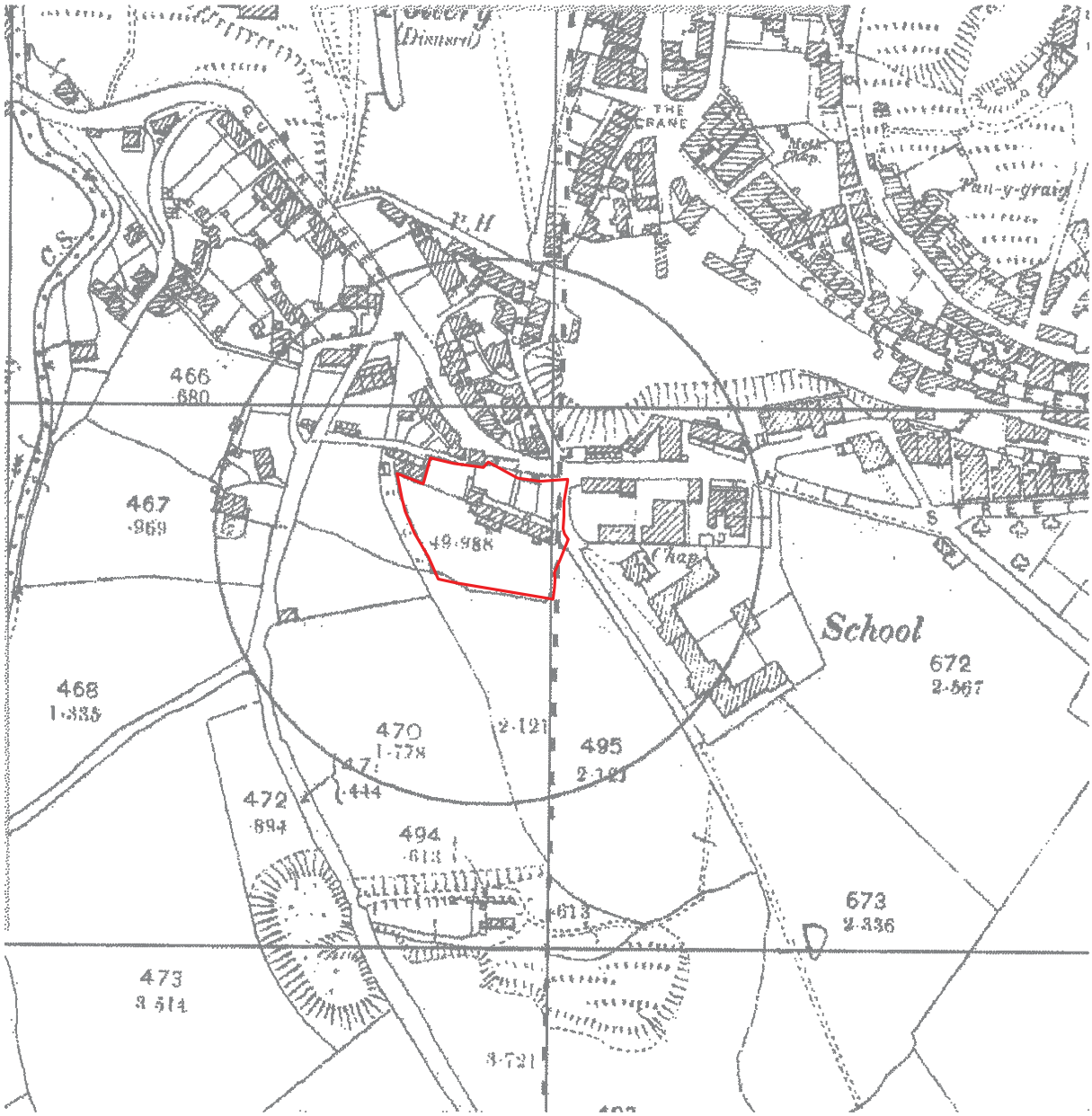
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Project: Land off Queens Street, Cefn Mawr		Drawn: DW	Checked: BJT
Drawing: Historical Map: 1873-1875		Date: 24.08.17	Scale: 1:2,500
		Job No: R2470a	Drg No: D01



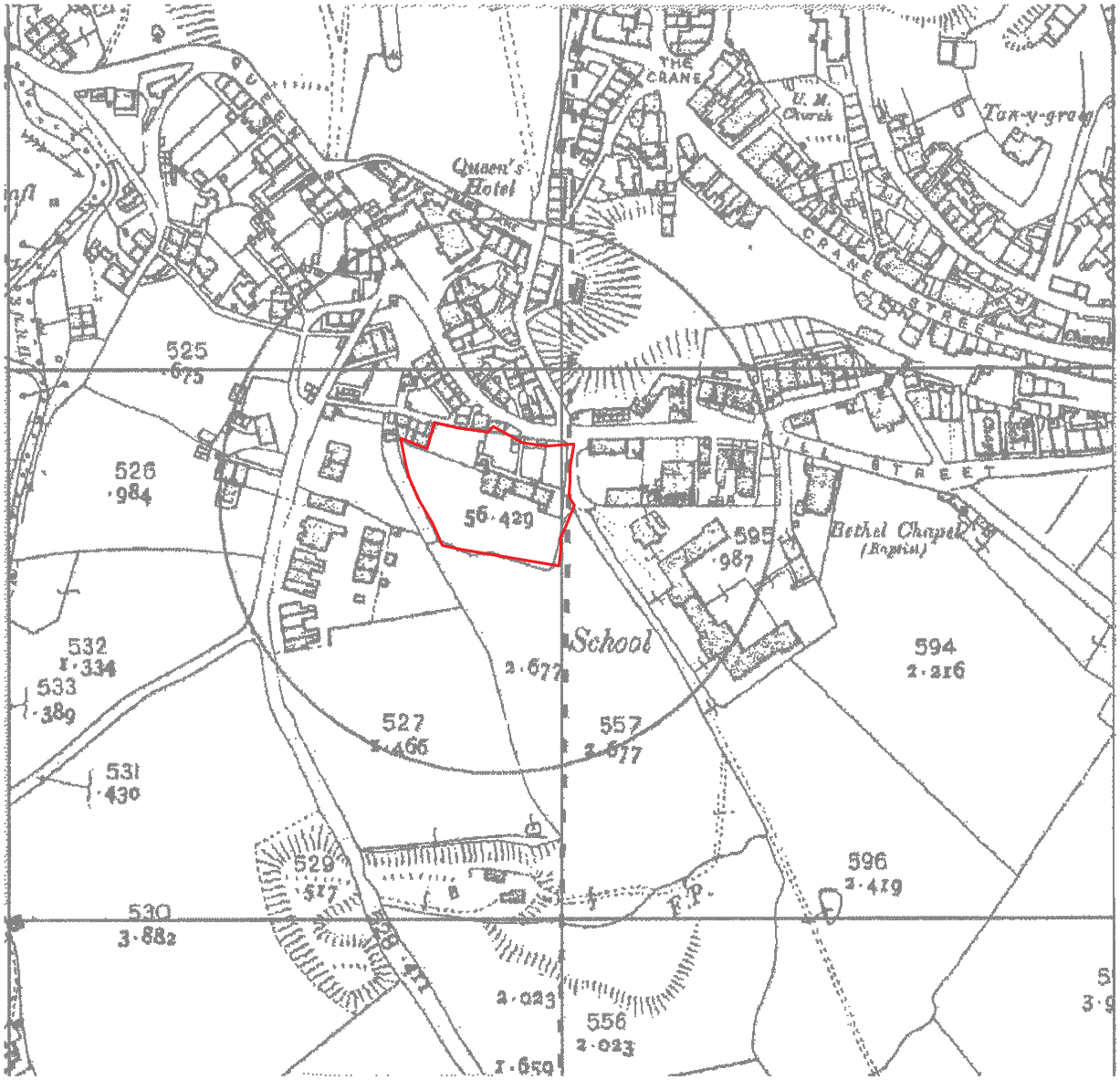
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Project: Land off Queens Street, Cefn Mawr		Drawn: DW	Checked: BJT
Drawing: Historical Map: 1899		Date: 24.08.17	Scale: 1:2,500
		Job No: R2470a	Drg No: D02



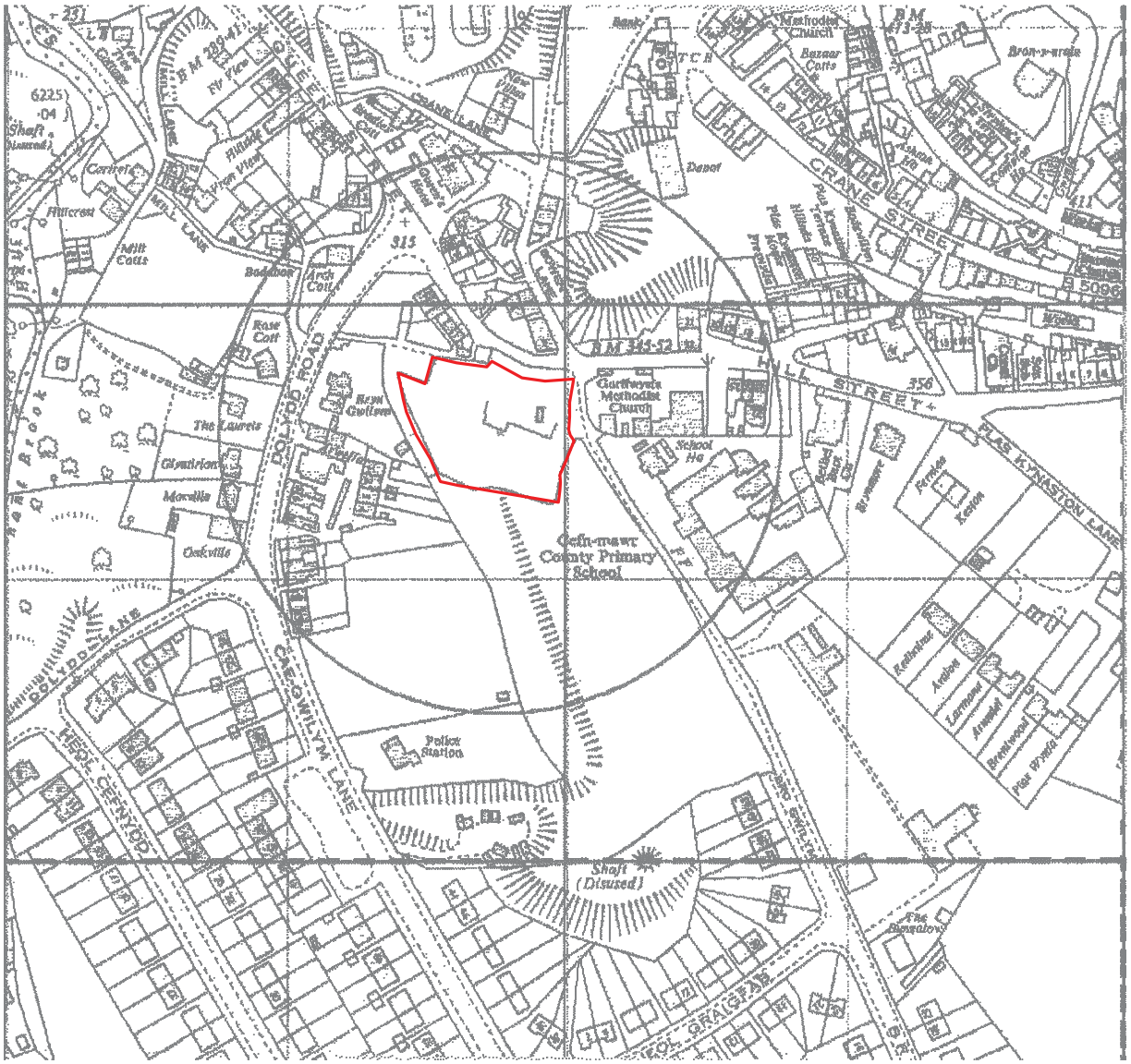
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Project: Land off Queens Street, Cefn Mawr		Drawn: DW	Checked: BJT
		Date: 24.08.17	Scale: 1:2,500
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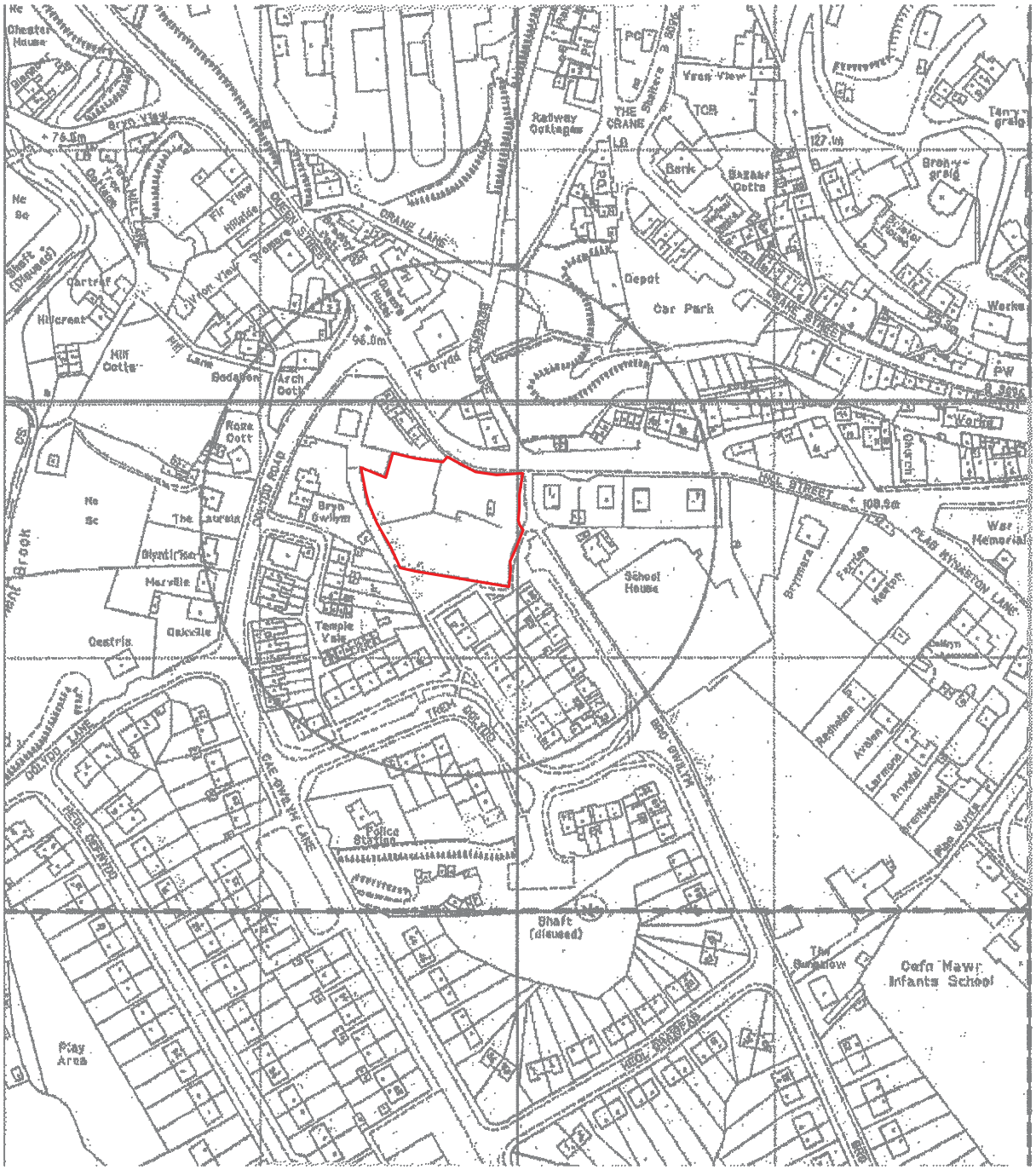
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Project: Land off Queens Street, Cefn Mawr		Drawn: DW	Checked: BJT
		Date: 24.08.17	Scale: 1:2,500
Drawing: Historical Map: 1961-1962		Job No: R2470a	Drg No: D04



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Project: Land off Queens Street, Cefn Mawr		Drawn: DW	Checked: BJT
Drawing: Historical Map: 1994		Date: 24.08.17	Scale: 1:2,500
		Job No: R2470a	Drg No: D05

APPENDIX A

Photographic Record

1.



24.08.17 – Site access off Queens Street

2.



24.08.17 – Public footpath which passes to the immediate east of the site

3.



24.08.17 – Exposed made ground in the north of the site appears to be an ashy gravel soil

4.



24.08.17 – View to the northeast corner of the site

5.



24.08.17 – Derelict garage in the northeast, constructed from concrete and possible asbestos cement roof sheeting

6.



24.08.17 – Vegetated rough ground (exposed made ground) providing access path to southern part of site

7.



24.08.17 – Bricks and stone cobbles along east of site

8.



24.08.17 – South-westerly view across the site, plateau with steep embankment in the north with a sharp fall to the south

9.



24.08.17 – Southern view down the site

10.



24.08.17 – Southern half of site generally level with slope to the south

11.



24.08.17 – Exposed soils in embankment consisting of ashy soil with brick and stone cobbles

12



24.08.17 – Sandstone blocks at the base of the embankment suggesting possible retaining or wall or relict walls from former buildings

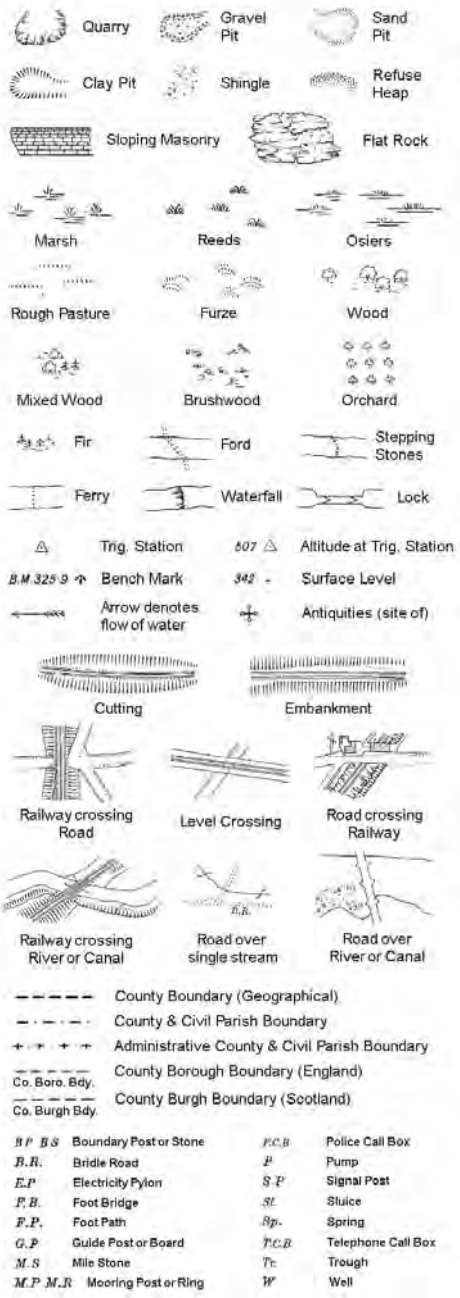
13.  24.08.17 – Northwest corner of the site with exposed stone and brick cobbles	14.  24.08.17 – Dense vegetation and mature trees in the southwest corner

APPENDIX B

Envirocheck Historical Maps

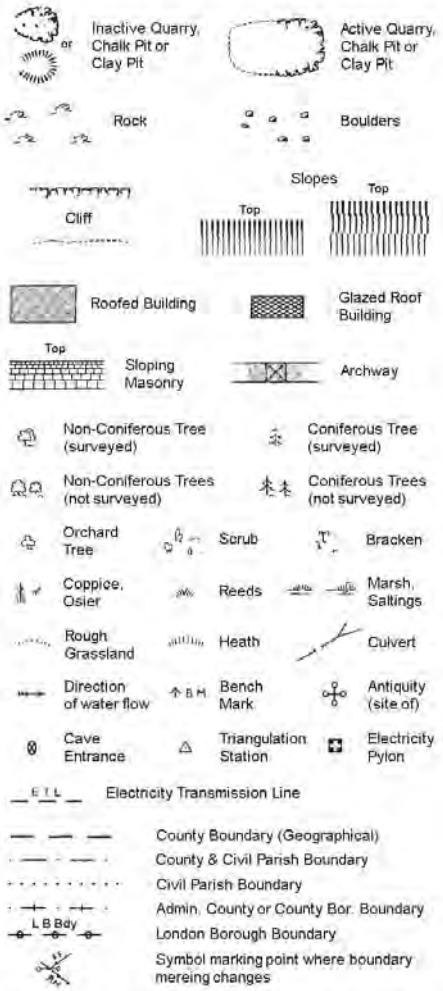
Historical Mapping Legends

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



B.S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



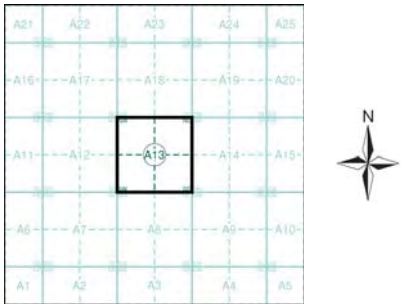
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1873 - 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 - 1981	6
Supply of Unpublished Survey Information	1:2,500	1974	7
Additional SIMs	1:2,500	1978 - 1991	8
Additional SIMs	1:2,500	1988 - 1992	9
Large-Scale National Grid Data	1:2,500	1994	10
Historical Aerial Photography	1:2,500	2001	11

Historical Map - Segment A13



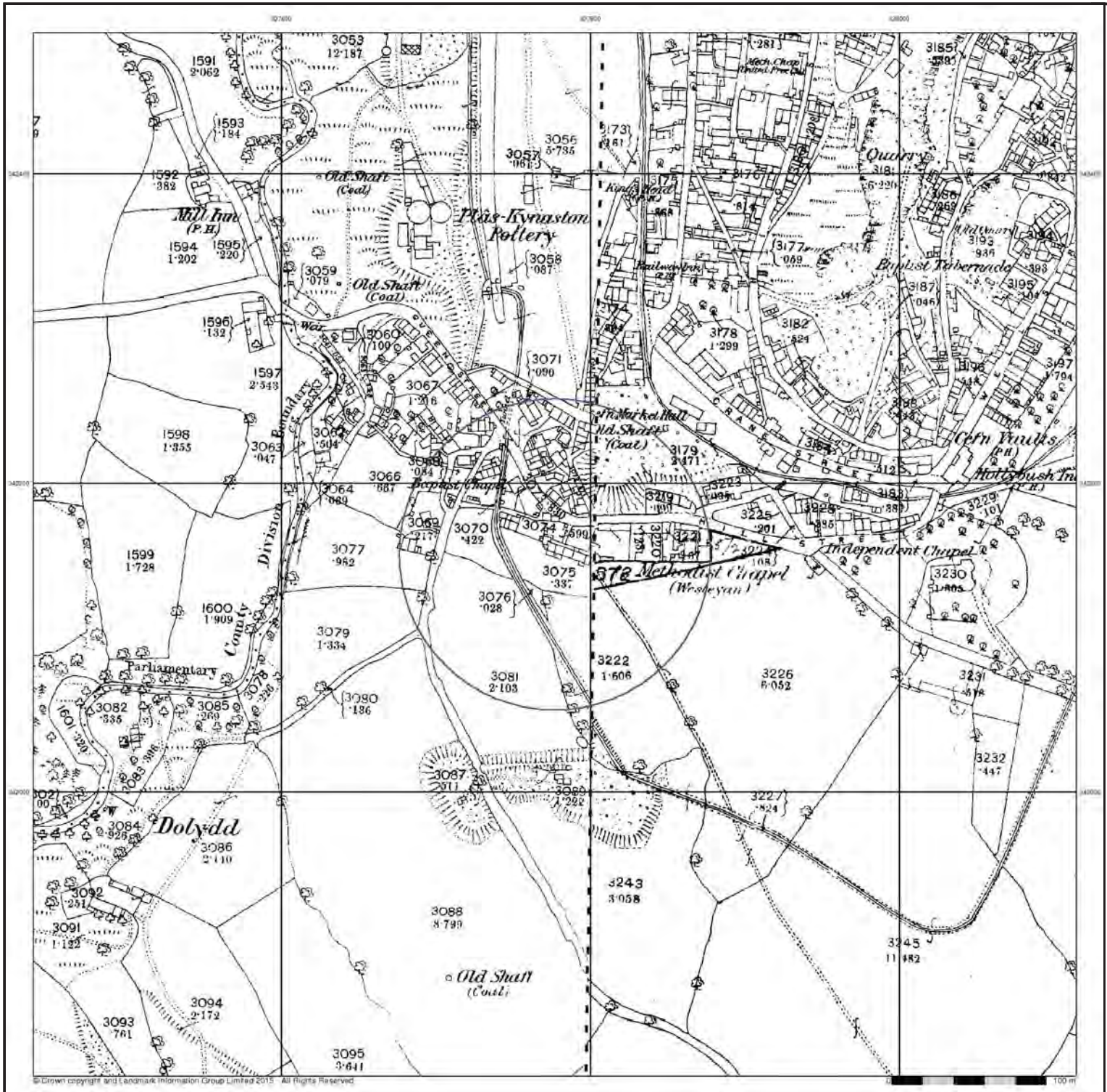
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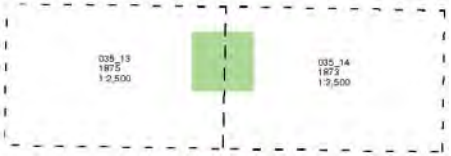
Denbighshire

Published 1873 - 1875

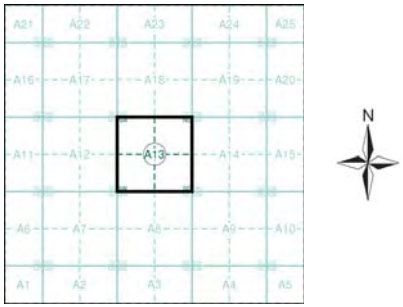
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Map Name(s) and Date(s)



Historical Map - Segment A13



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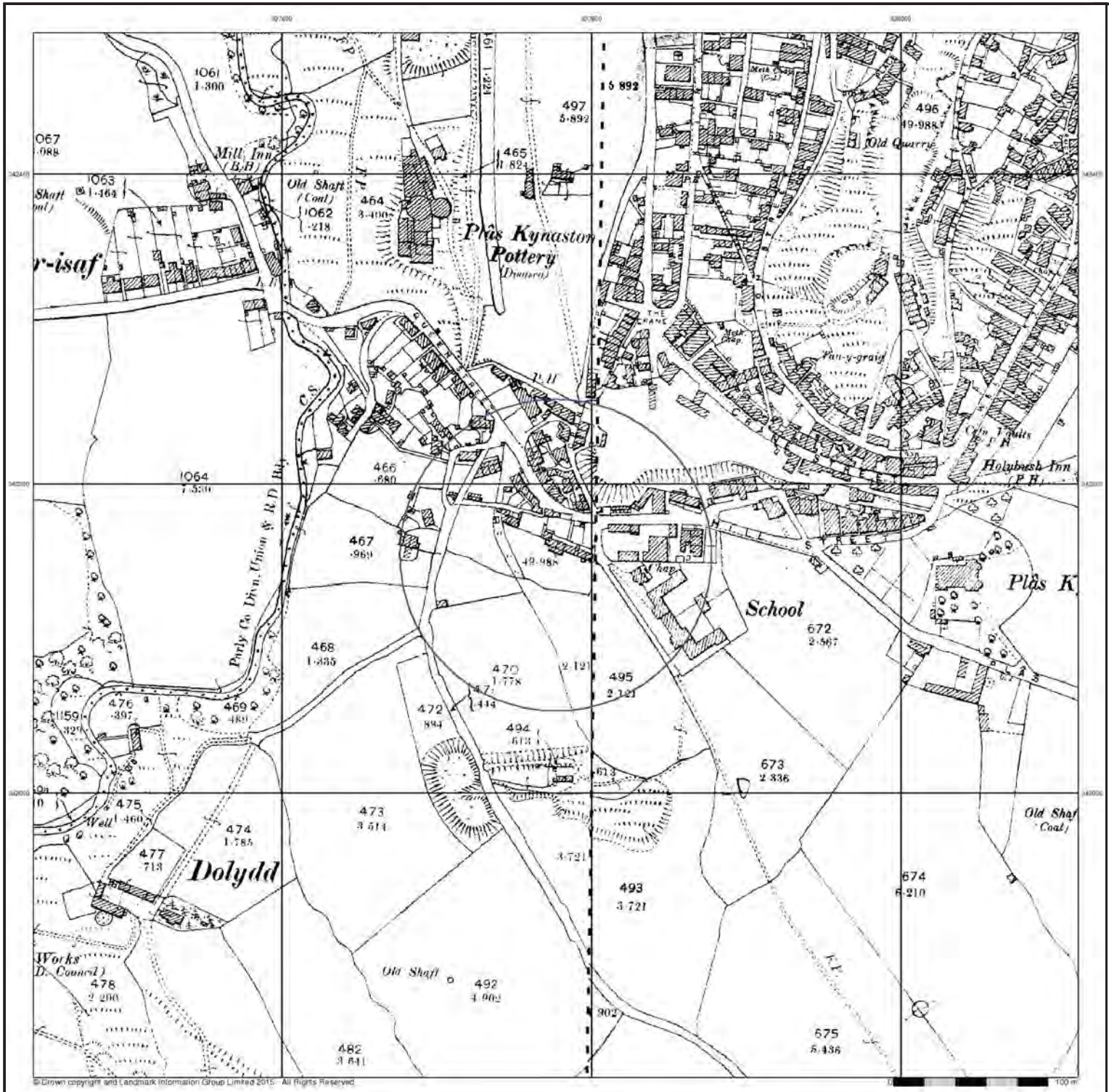
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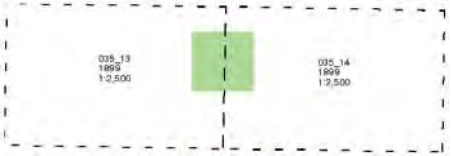
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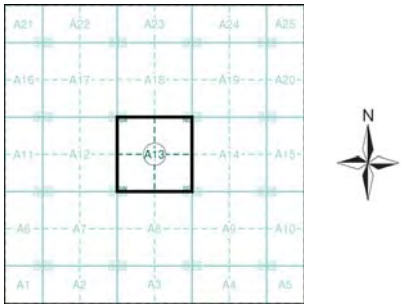
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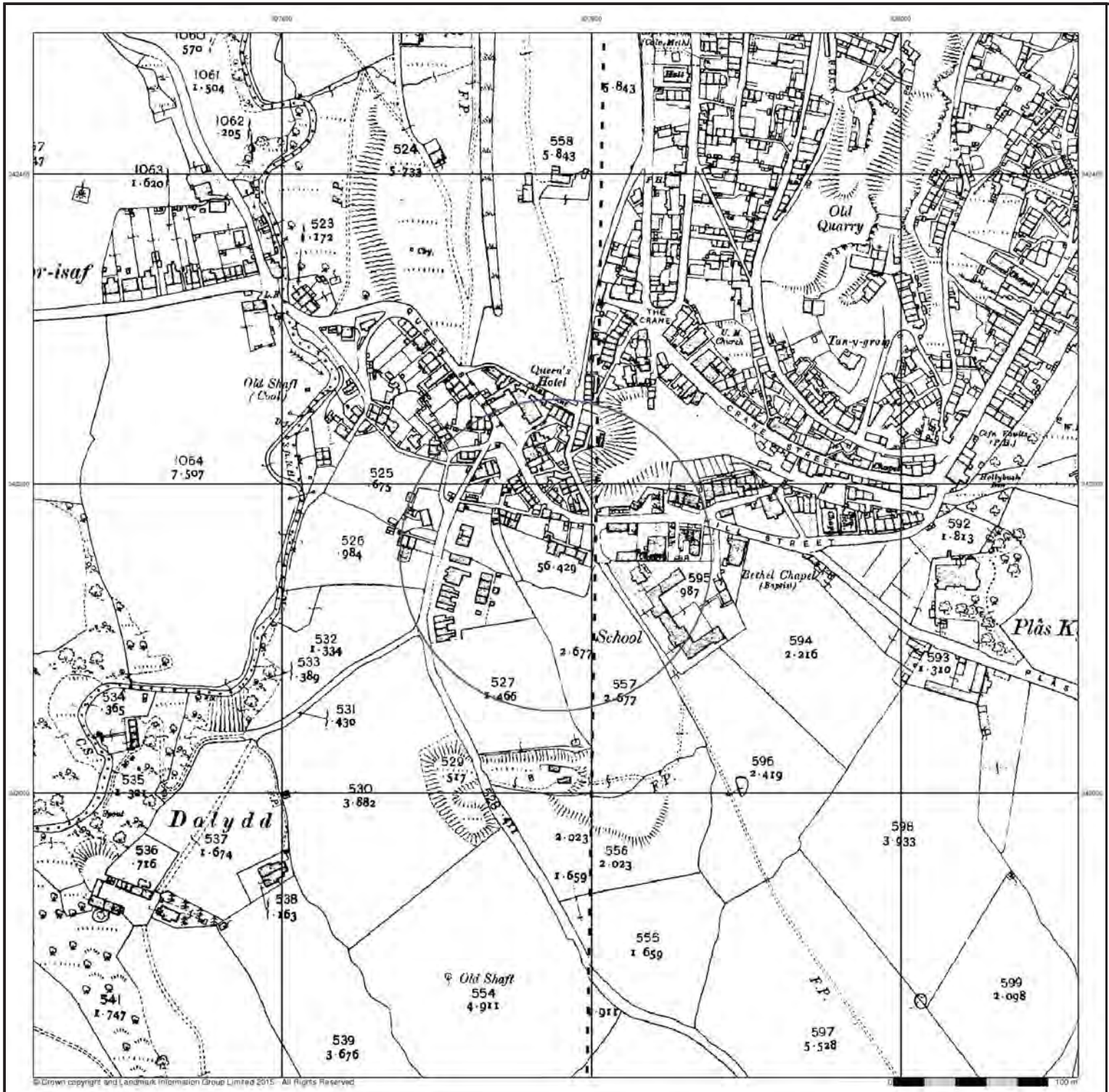
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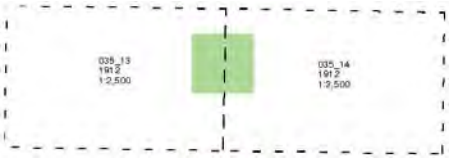
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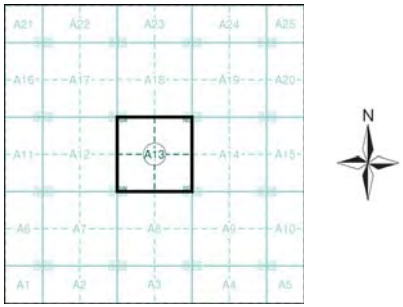
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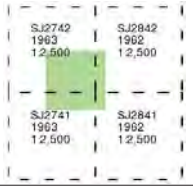
Ordnance Survey Plan

Published 1962 - 1963

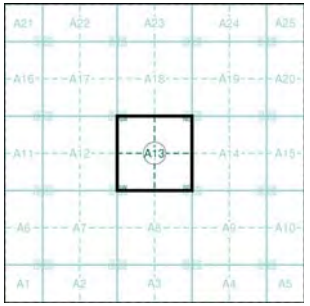
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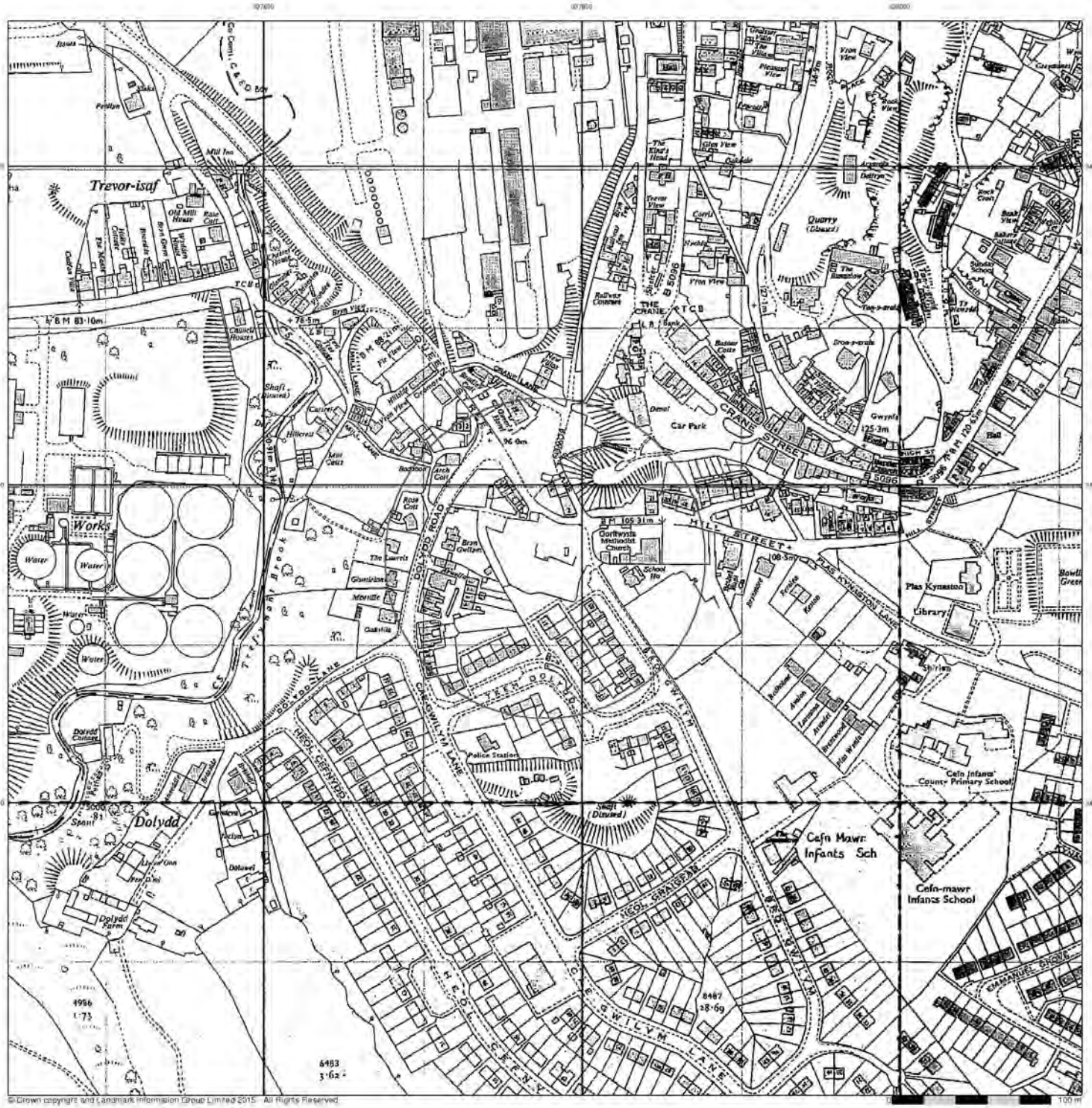
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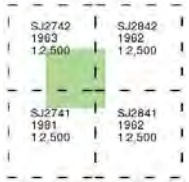
Additional SIMs

Published 1962 - 1981

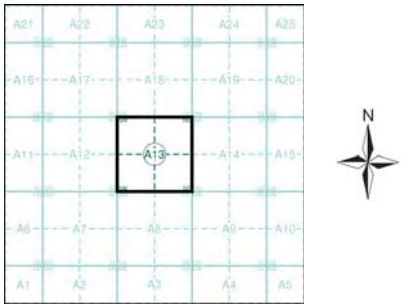
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The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information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



Historical Map - Segment A13



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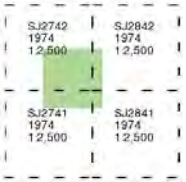
Supply of Unpublished Survey Information

Published 1974

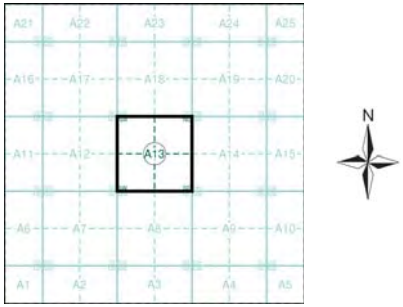
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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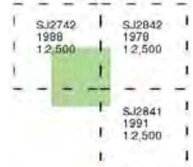
Additional SIMs

Published 1978 - 1991

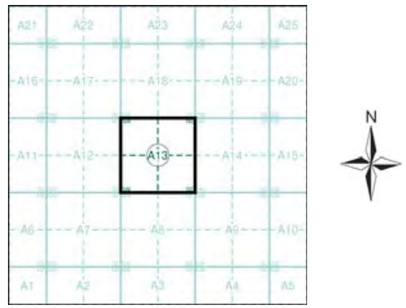
Source map scale - 1:2,500

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)



Historical Map - Segment A13



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
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Additional SIMs

Published 1988 - 1992

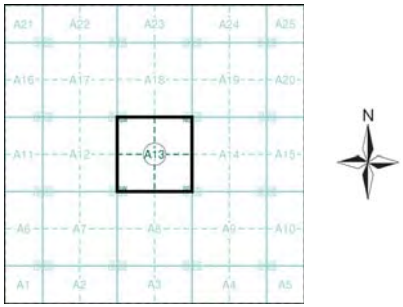
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
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Large-Scale National Grid Data

Published 1994

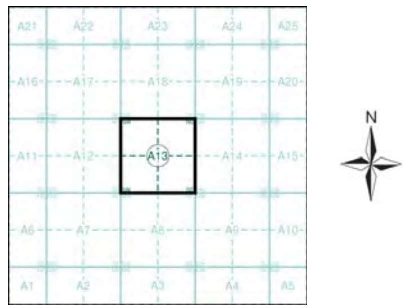
Source map scale - 1:2,500

'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)

SJ2742 1994 1:2,500	SJ2842 1994 1:2,500
SJ2741 1994 1:2,500	SJ2841 1994 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

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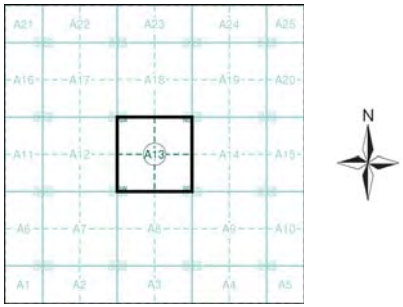
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Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

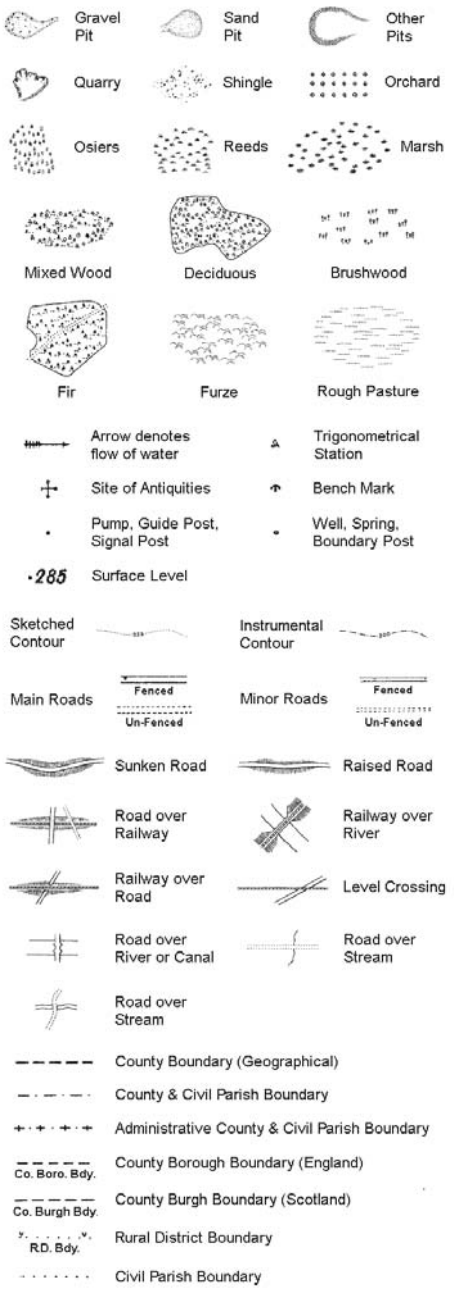
, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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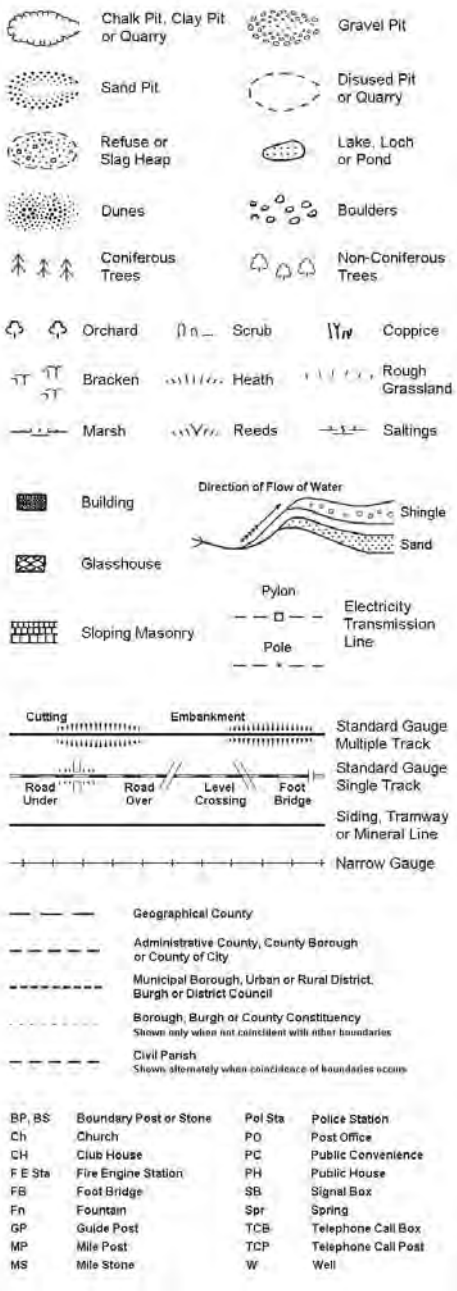
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Historical Mapping Legends

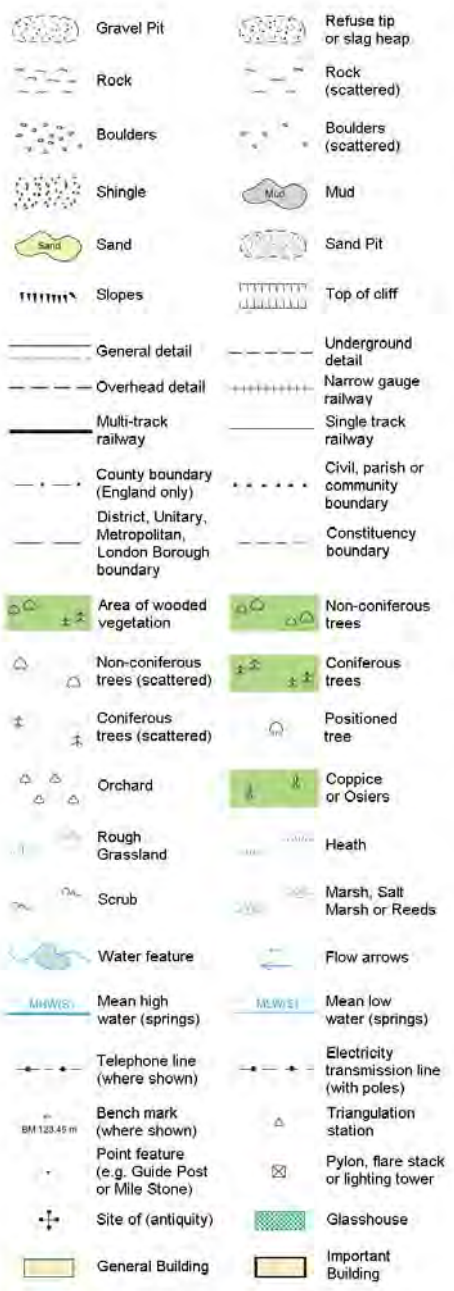
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping



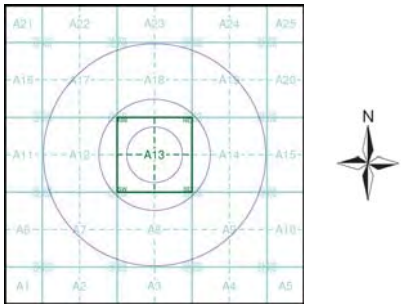
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Denbighshire	1:10,560	1900	3
Denbighshire	1:10,560	1914	4
Denbighshire	1:10,560	1938 - 1954	5
Denbighshire	1:10,560	1954	6
Ordnance Survey Plan	1:10,000	1963	7
Ordnance Survey Plan	1:10,000	1977	8
Ordnance Survey Plan	1:10,000	1986	9
Ordnance Survey Plan	1:10,000	1995	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2017	13

Historical Map - Slice A



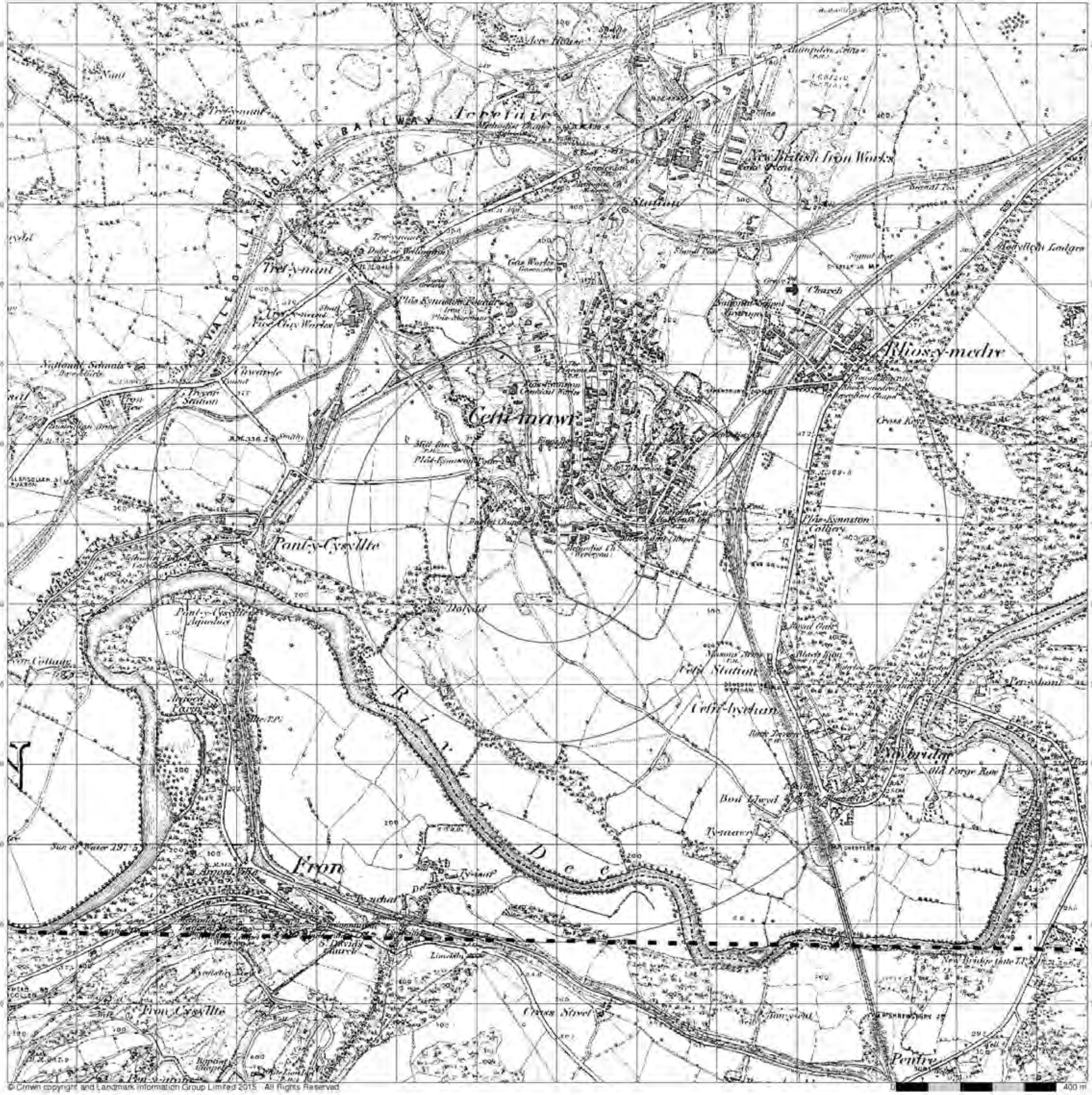
Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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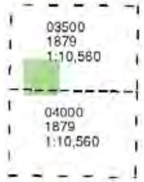
Denbighshire

Published 1879

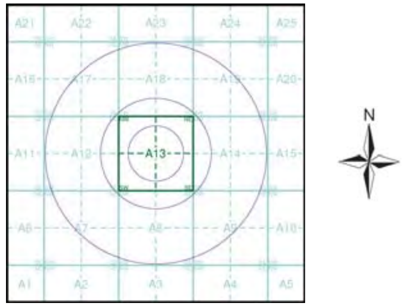
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

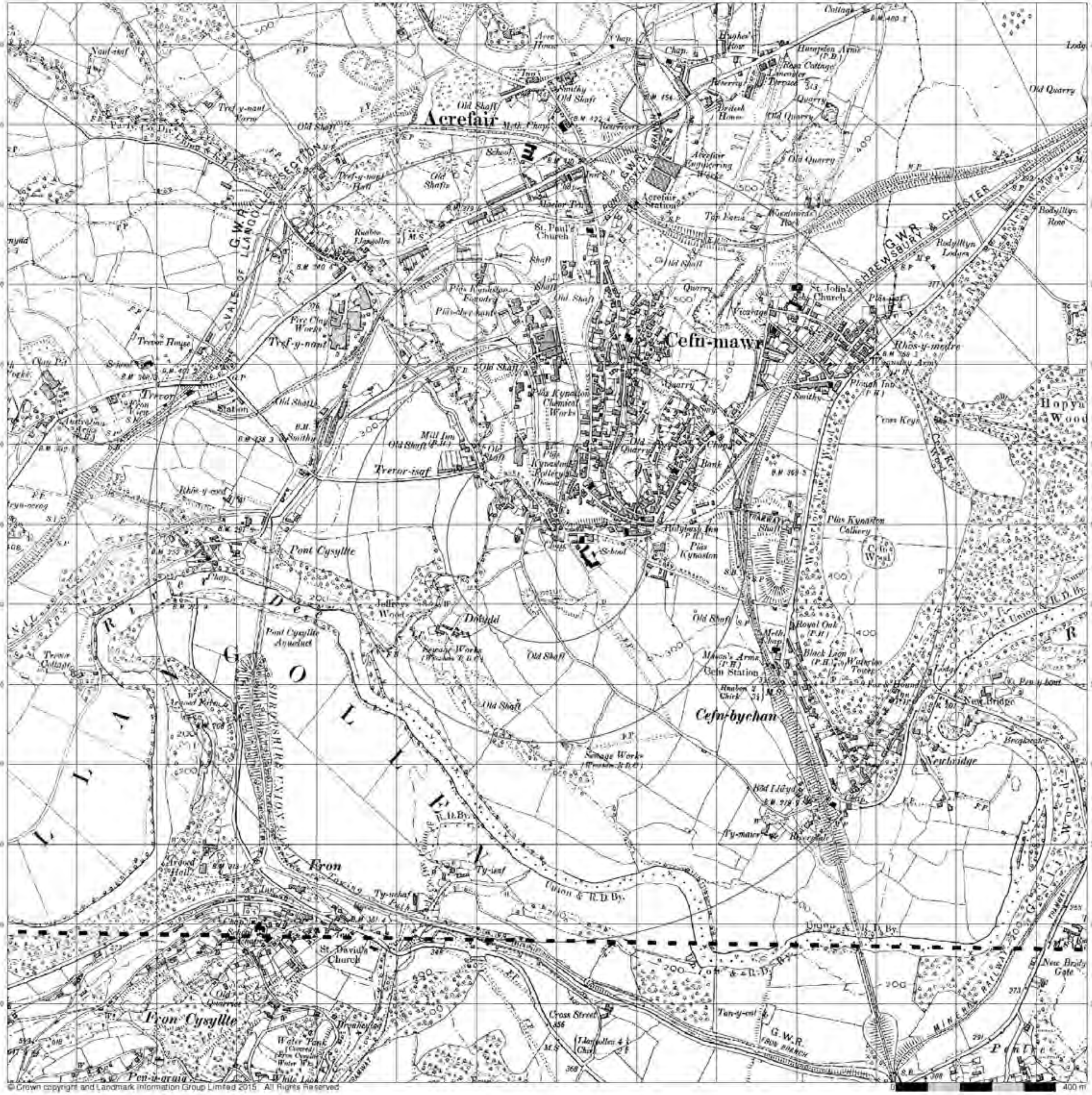
Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Denbighshire

Published 1900

Source map scale - 1:10,560

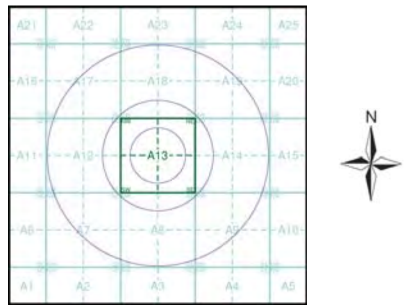
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

035SW
1900
1:10,560

040NW
1900
1:10,560

Historical Map - Slice A



Order Details

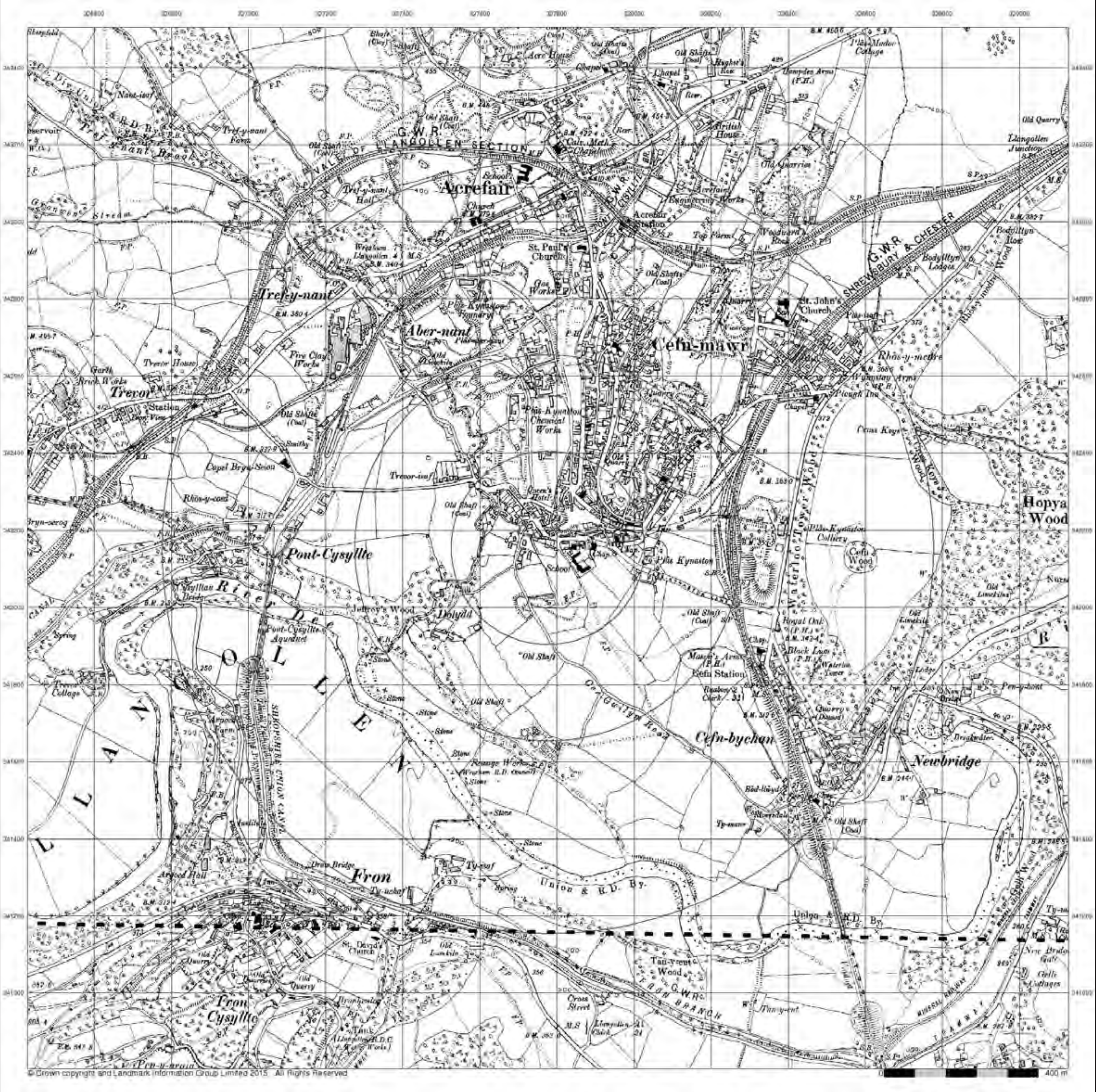
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Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Denbighshire

Published 1914

Source map scale - 1:10,560

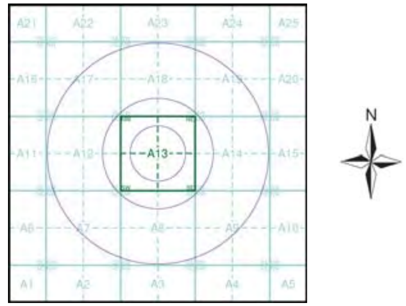
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

035SW
1914
1:10,560

040NW
1914
1:10,560

Historical Map - Slice A



Order Details

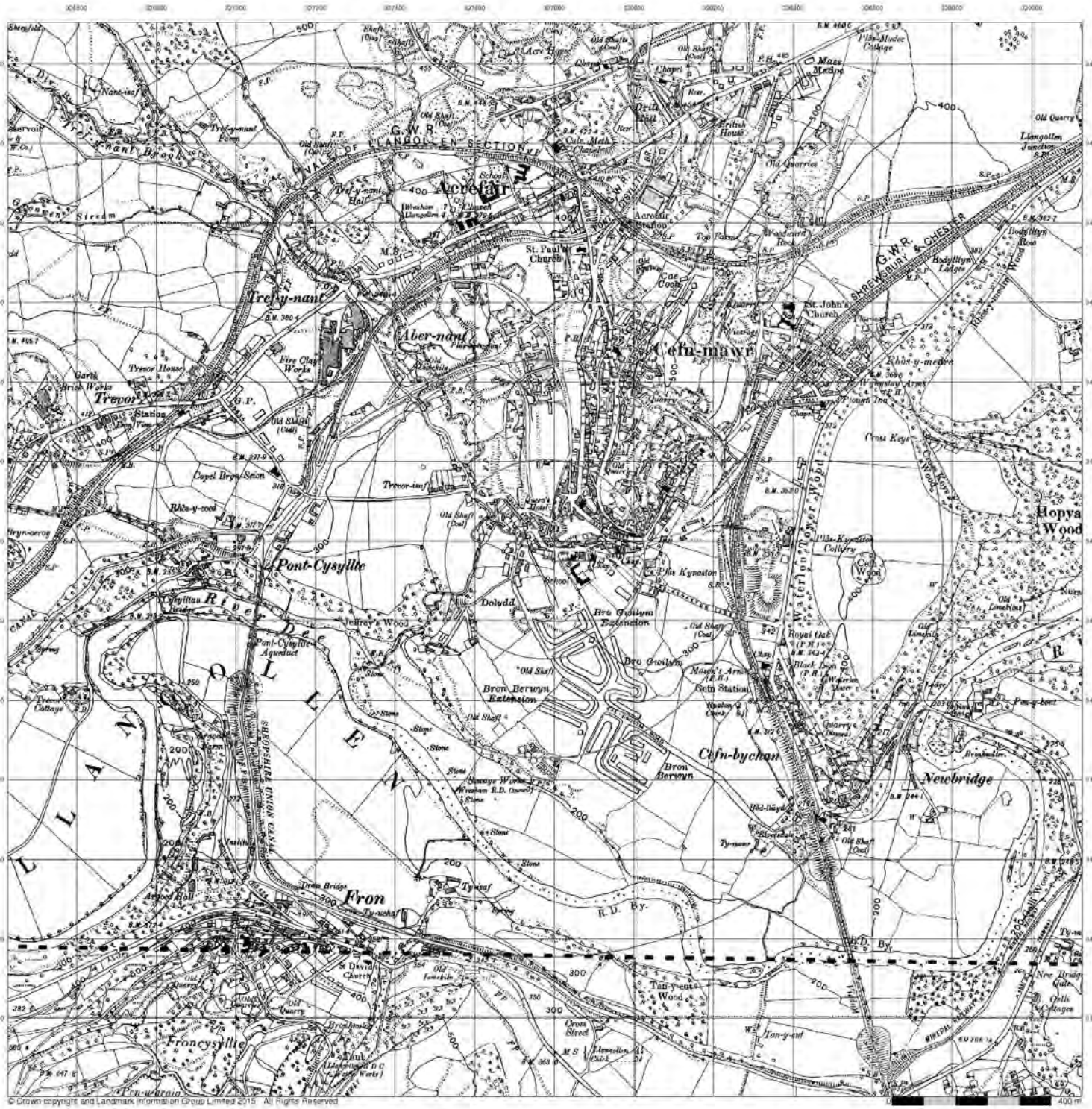
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Slice: A
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Site Details

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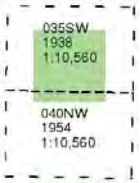
Denbighshire

Published 1938 - 1954

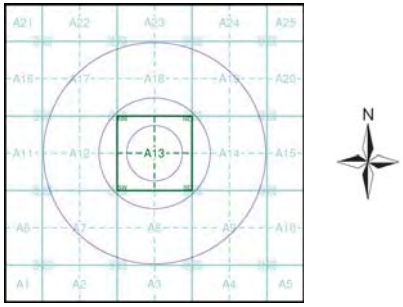
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

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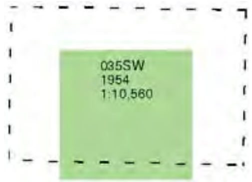
Denbighshire

Published 1954

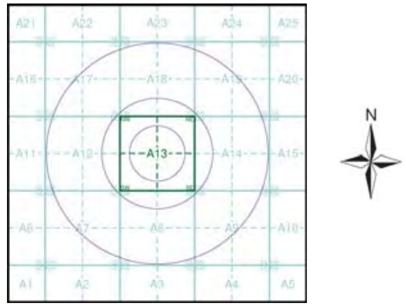
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1963

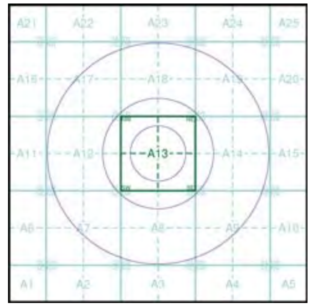
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ24SE
1963
1:10,560

Historical Map - Slice A



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1977

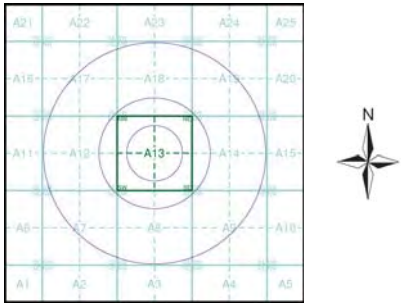
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Ordnance Survey Plan

Published 1986

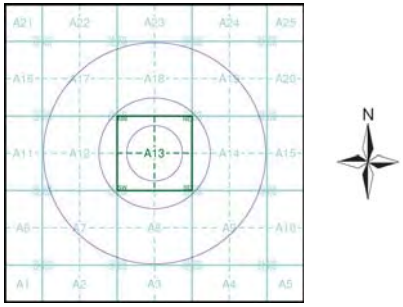
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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Ordnance Survey Plan

Published 1995

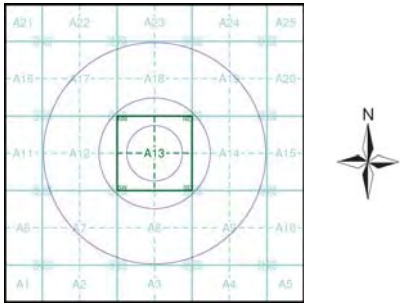
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

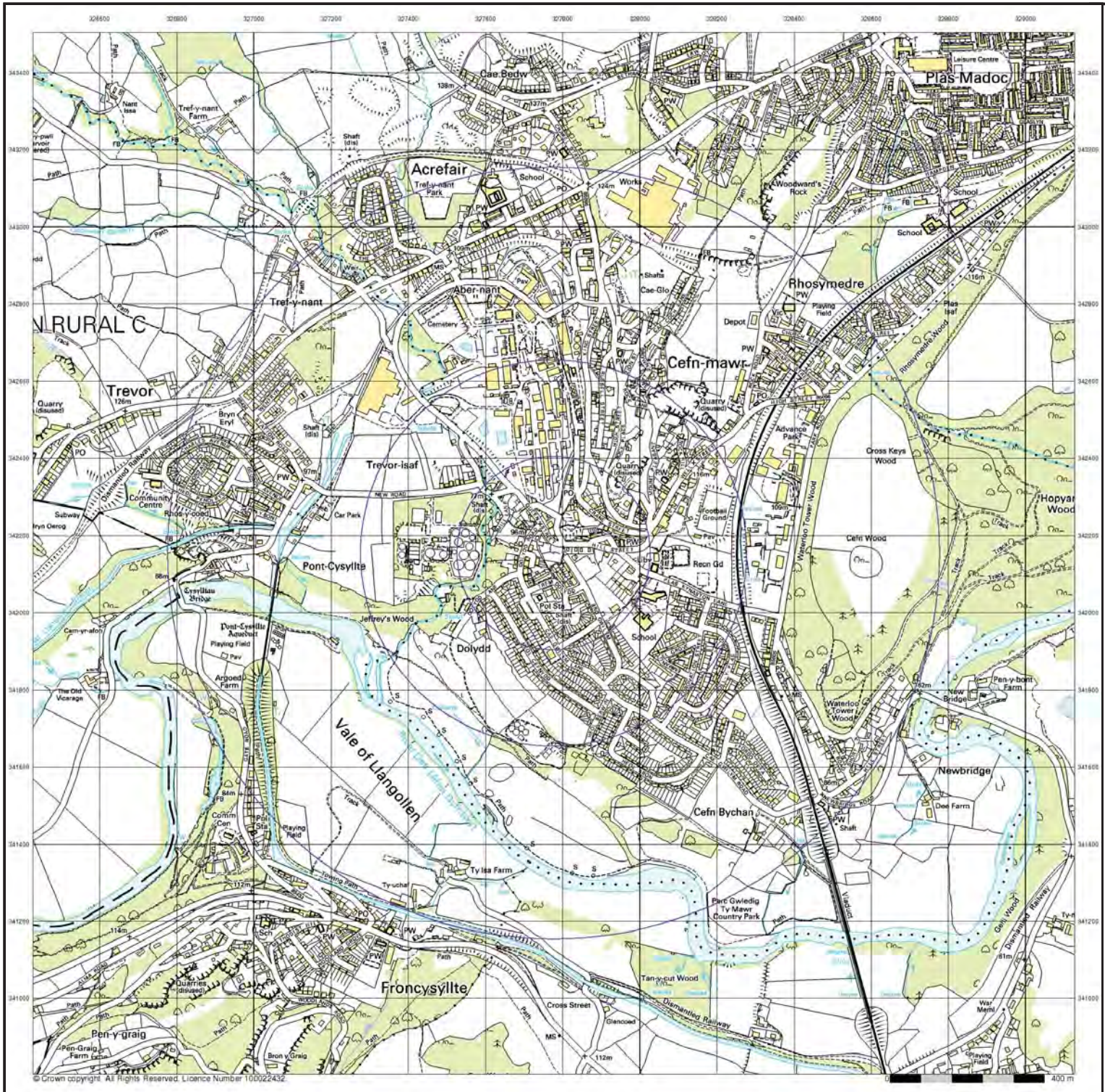
Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

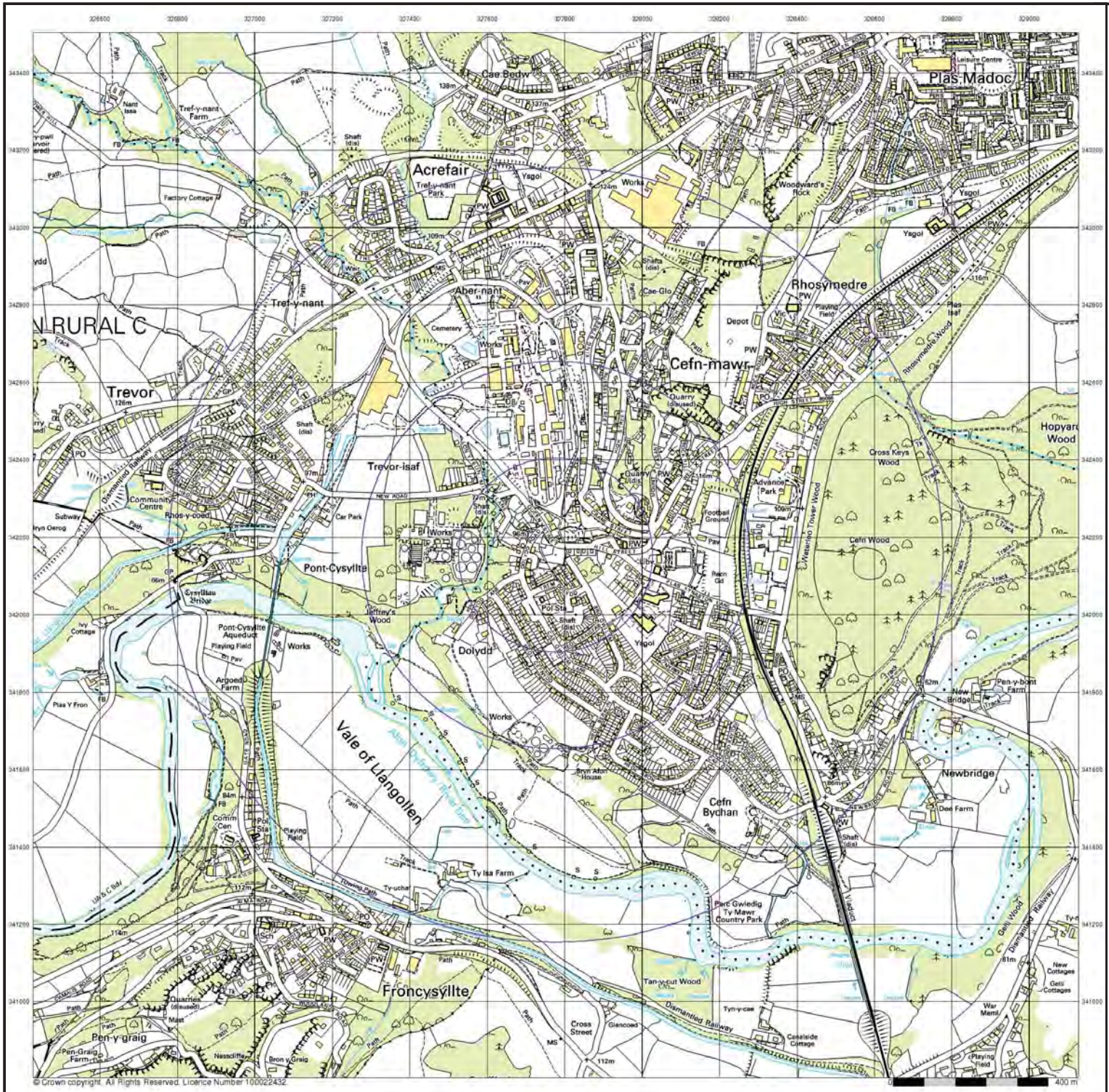
Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

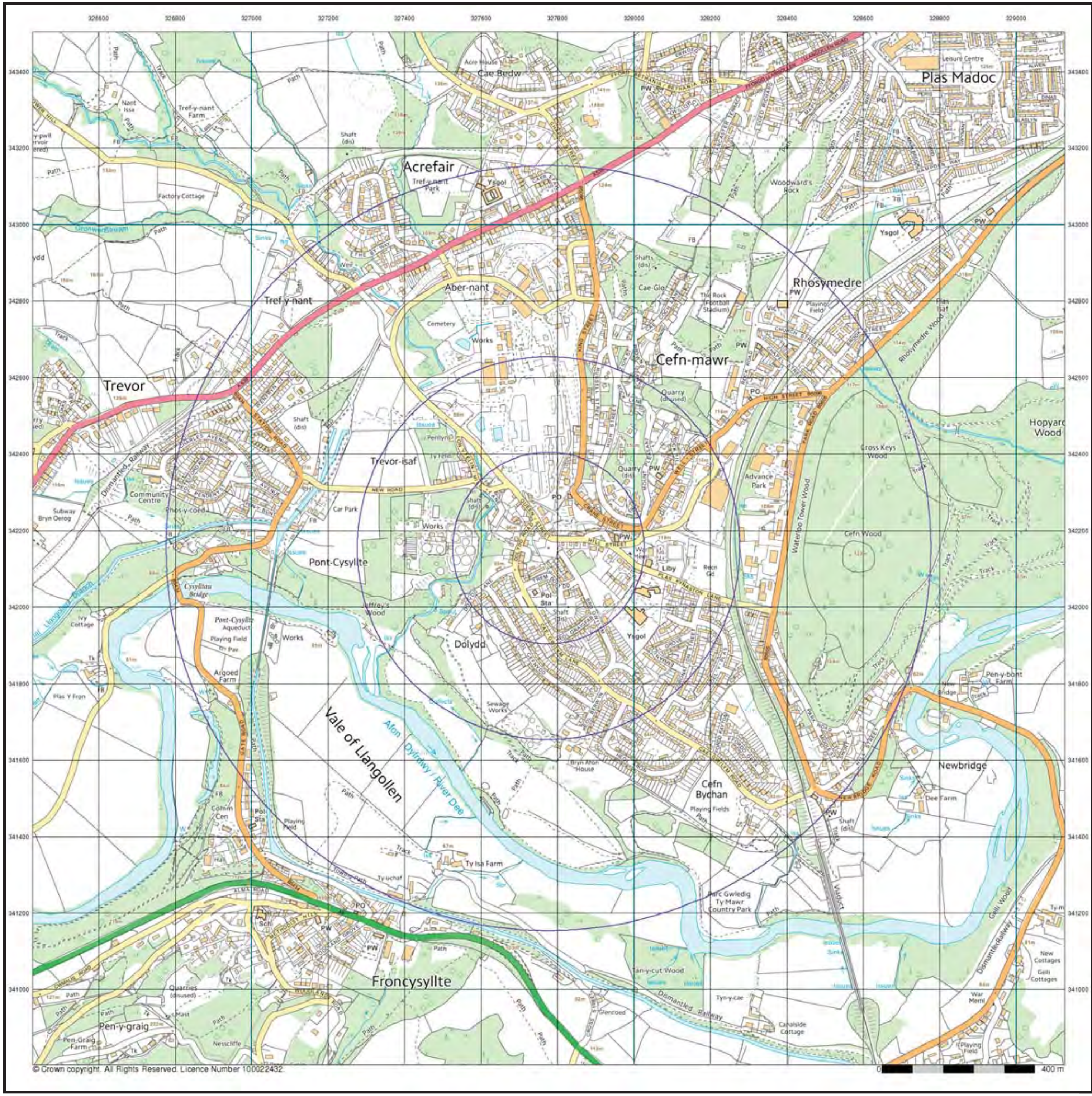
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Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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VectorMap Local

Published 2017

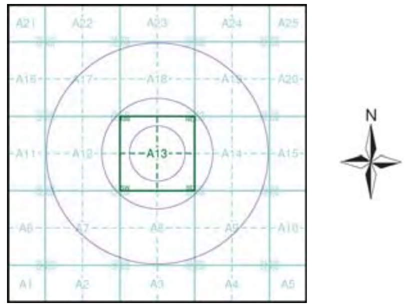
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SJ24SE
2017
Variable

Historical Map - Slice A



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

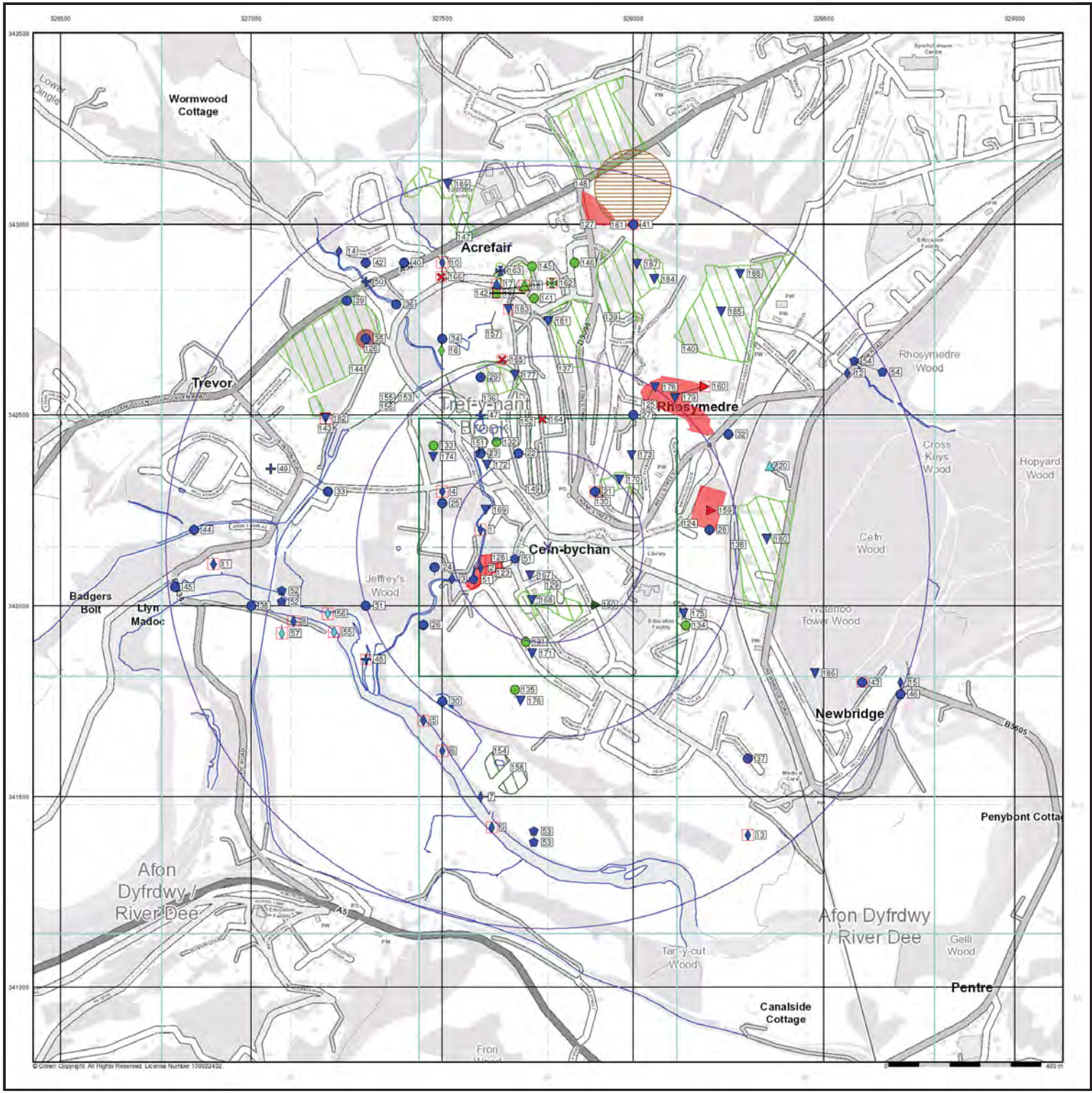
, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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APPENDIX C

Envirocheck Sensitivity Report



Envirocheck

LANDMARK INFORMATION GROUP

General

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

Agency and Hydrological

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

Hazardous Substances

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

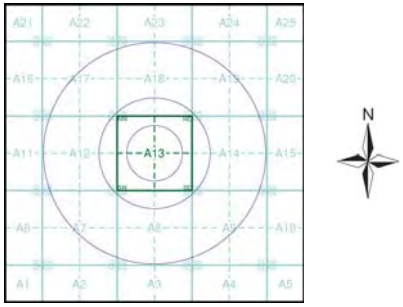
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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Industrial Land Use Map

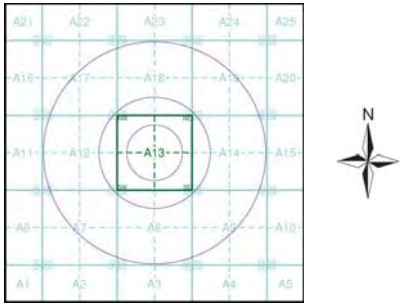
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



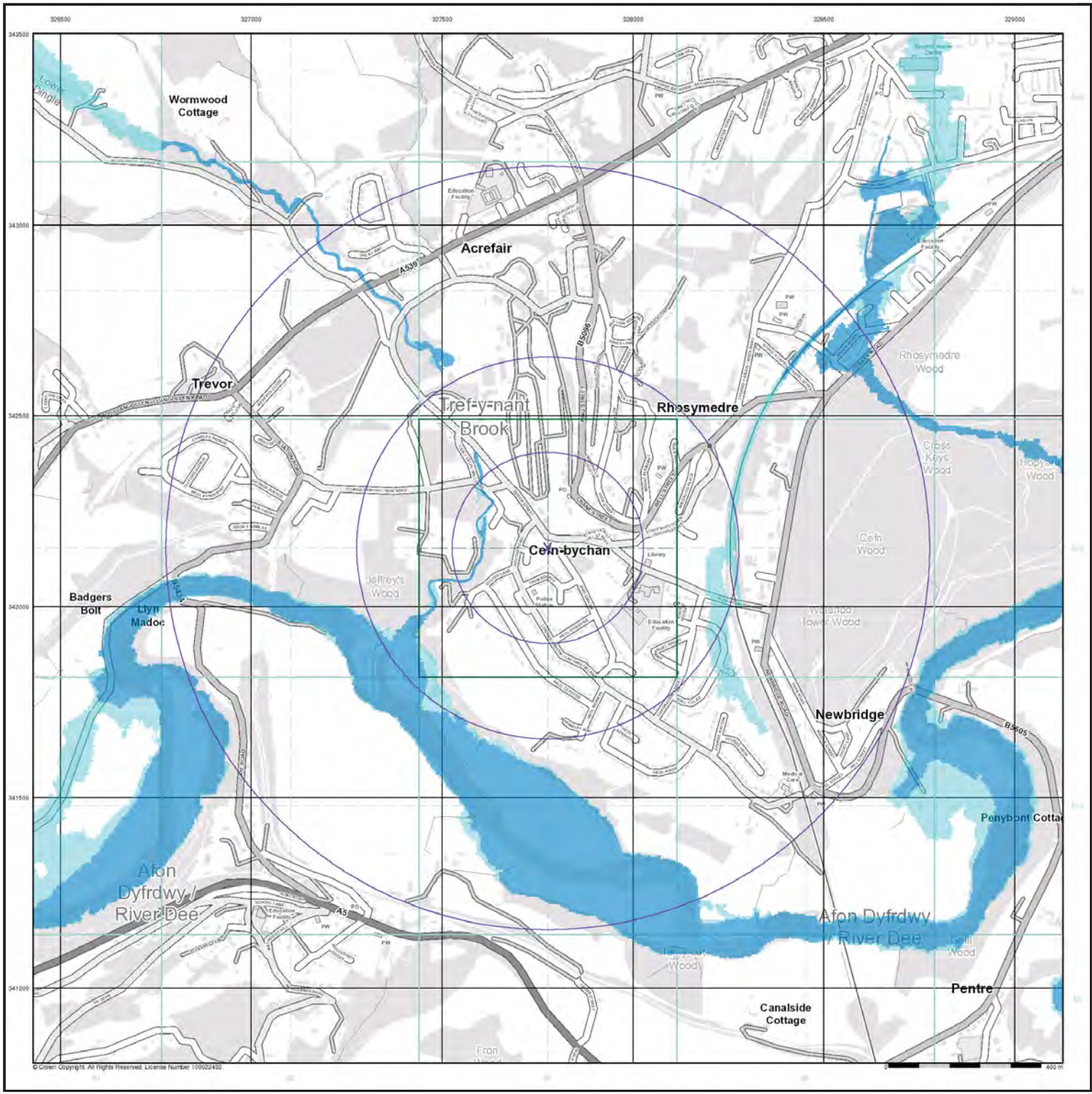
Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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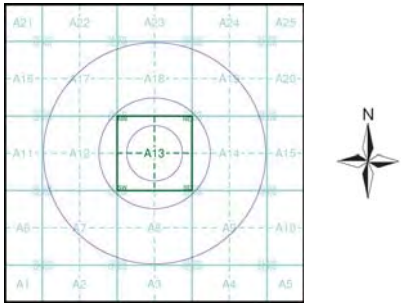
General

- 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

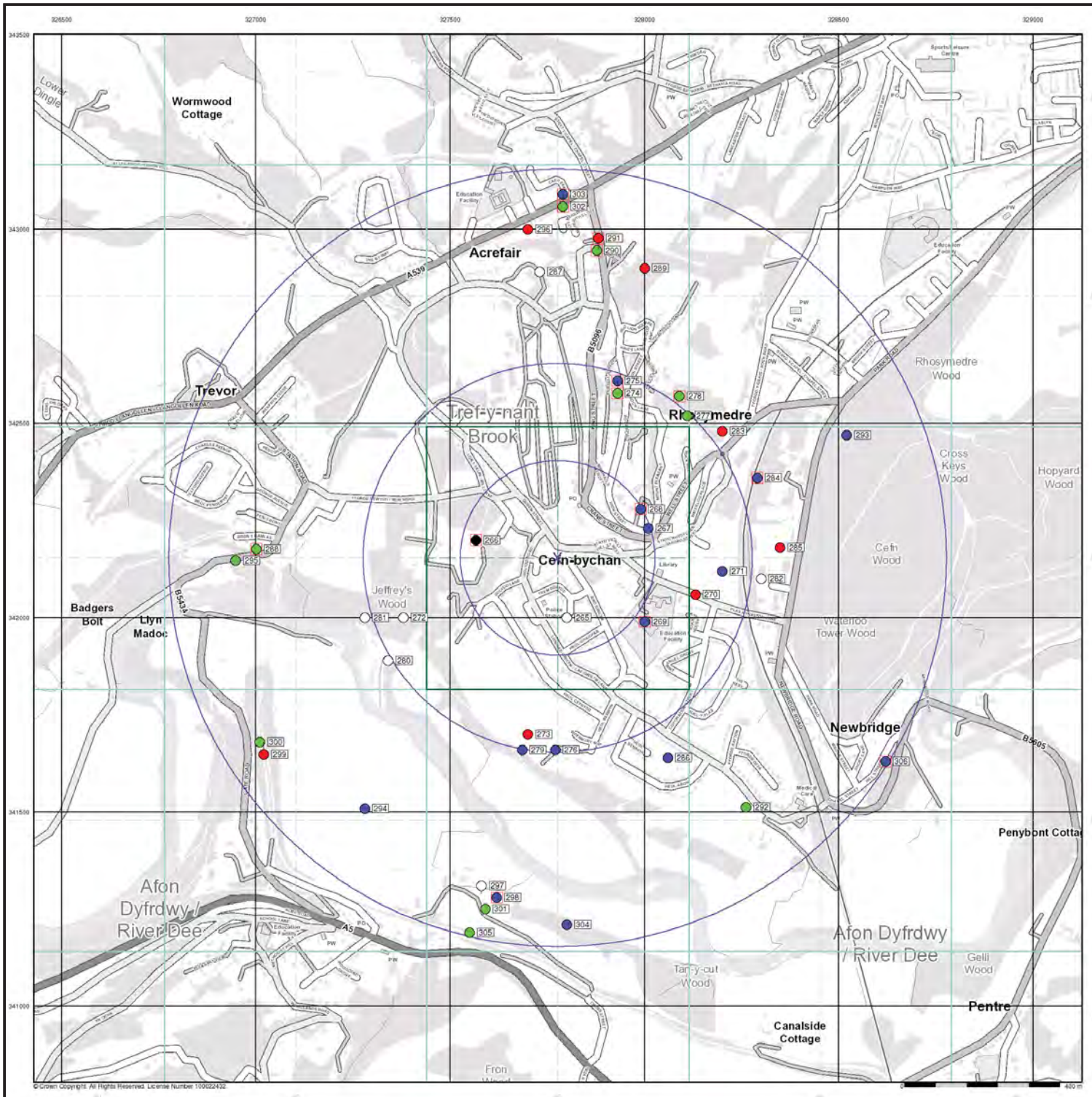
Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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General

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

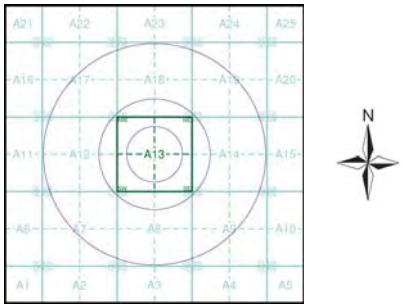
Agency and Hydrological (Boreholes)

- 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

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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General

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

OS Water Network Data

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

Contours (height in meters)

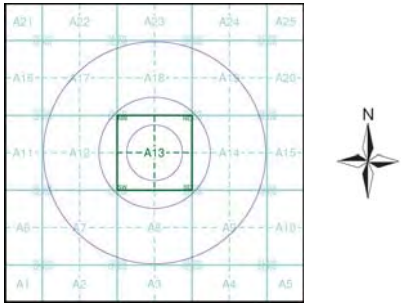
Standard Contour 105

Master Contour 100 95

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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General

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

Risk of Flooding from Surface Water

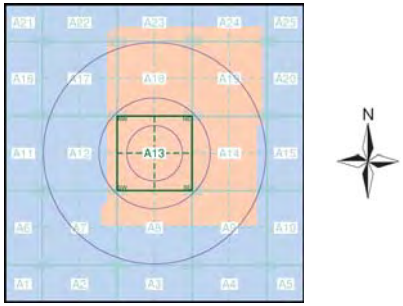
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

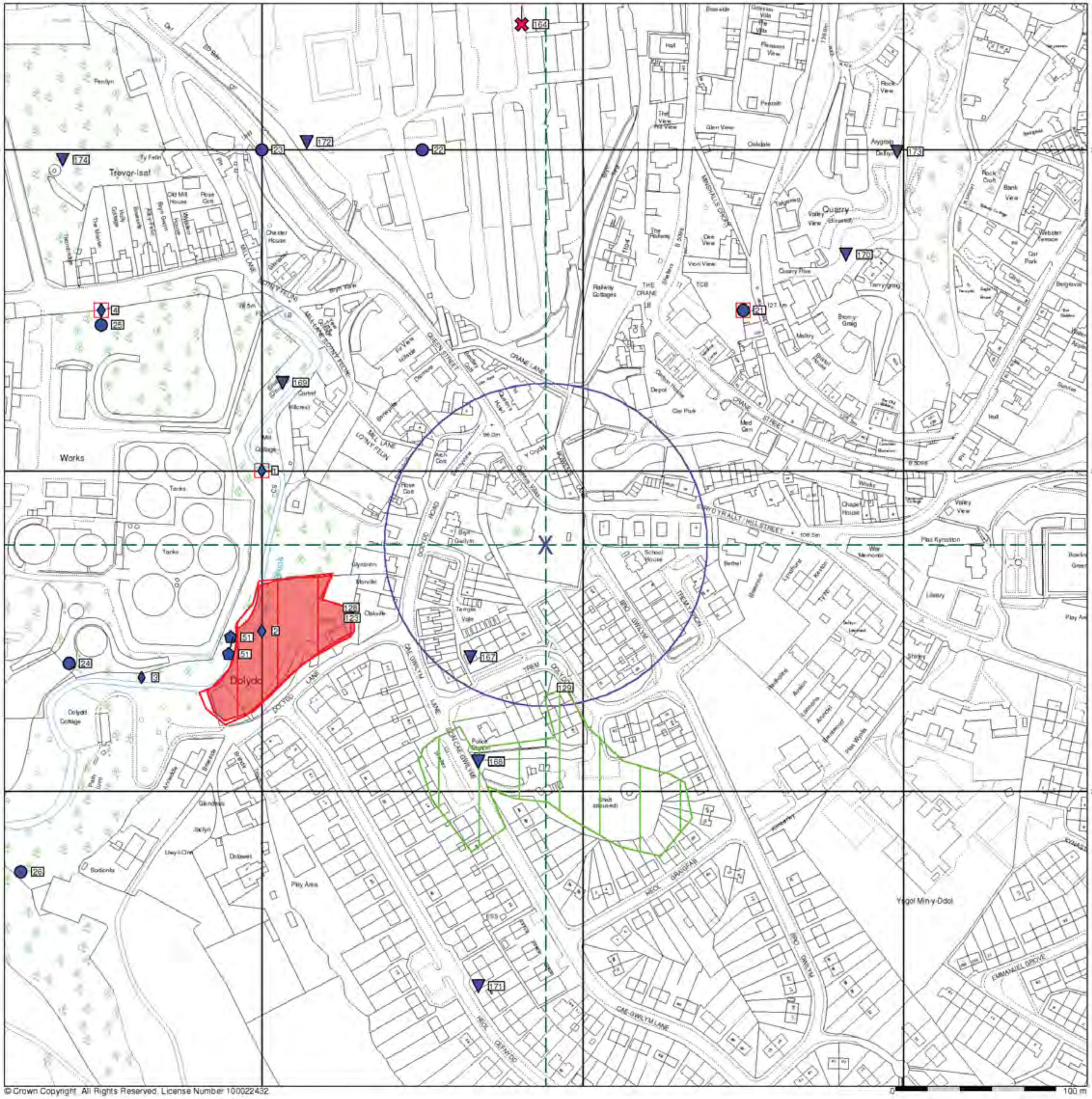
Order Number:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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General

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

Agency and Hydrological

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

Hazardous Substances

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

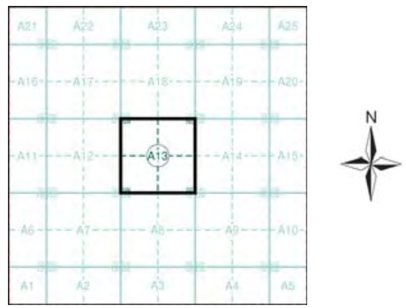
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A13



Order Details

Order Number: 136984536_1_1
Customer Ref: R2470
National Grid Reference: 327780, 342150
Slice: A
Site Area (Ha): 0.01
Plot Buffer (m): 100

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
136984536_1_1

Customer Reference:
R2470

National Grid Reference:
327780, 342150

Slice:
A

Site Area (Ha):
0.01

Search Buffer (m):
1000

Site Details:

, 2, Queen Street
Cefn Mawr
Wrexham
LL14 3BD

Client Details:

Mr D Wayland
Smith Grant Partnership
Station House
Station Road
Ruabon
Wrexham
LL14 6DL

Prepared For:

M A Gregory Construction Ltd.

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	42
Hazardous Substances	47
Geological	49
Industrial Land Use	57
Sensitive Land Use	67
Data Currency	68
Data Suppliers	75
Useful Contacts	76

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 the attached 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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Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		3	4	27
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 11				3
Integrated Pollution Controls	pg 11				23
Integrated Pollution Prevention And Control	pg 15				20
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 20				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 20		Yes		
Pollution Incidents to Controlled Waters	pg 21		2	9	18
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 25		1	1	3
River Quality Biology Sampling Points	pg 26			1	1
River Quality Chemistry Sampling Points	pg 28				3
Substantiated Pollution Incident Register	pg 30		1		3
Water Abstractions	pg 31				7 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 33	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 34	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 34	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 34		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 34		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 34		3	9	53

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Summary

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 42		1	2	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 43		1		
Potentially Infilled Land (Non-Water)	pg 43		2	8	10
Potentially Infilled Land (Water)	pg 44		2	2	6
Registered Landfill Sites	pg 45			1	3
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 47				3
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 47				1
Planning Hazardous Substance Consents	pg 47			1	8
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 49	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 49	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 50		3	9	13
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 55	Yes	n/a	n/a	n/a
Mining Instability	pg 55	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 55				1
Non Coal Mining Areas of Great Britain	pg 55	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 55	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 55		Yes	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	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 56	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 56	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 56	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 57		6	3	43
Fuel Station Entries	pg 61				2
Points of Interest - Commercial Services	pg 61			2	12
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 62		3	5	18
Points of Interest - Public Infrastructure	pg 65		1	2	9
Points of Interest - Recreational and Environmental	pg 66			2	4
Gas Pipelines					
Underground Electrical Cables					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 67			1	2
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty	pg 67		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 67				1
Special Areas of Conservation	pg 67				1
Special Protection Areas					
World Heritage Sites	pg 67	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	A13SE (SE)	0	1	327777 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	61	1	327750 342100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	90	1	327700 342200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	100	1	327750 342250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	127	1	327650 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	127	1	327650 342150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	174	1	327950 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	185	1	327600 342100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	198	1	327750 342350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	200	1	327650 342000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	247	1	327550 342250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	247	1	327777 342400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	250	1	327550 342050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	254	1	327777 341900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	265	1	327850 341900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	270	1	327600 341950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	297	1	327777 342450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	298	1	327750 342450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	317	1	327500 342000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	324	1	328100 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	350	1	327950 341850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	352	1	327600 341850

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	A8NE (S)	354	1	327777 341800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	362	1	327850 341800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	374	1	328150 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	376	1	327500 341900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	376	1	328150 342200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	377	1	327400 342150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	377	1	327400 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	386	1	328150 342250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	401	1	328150 342300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	424	1	328200 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	427	1	327350 342154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	430	1	327350 342200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	434	1	328200 342250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	447	1	328050 341800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	448	1	328200 342300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	454	1	327777 341700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	454	1	327350 342000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	455	1	327750 341700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	467	1	328200 342350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	474	1	328250 342150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	480	1	327300 342200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	485	1	328250 342050

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	A8NE (S)	486	1	327950 341700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	497	1	327800 342650
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Cefn Ps, Ll14 3nh Authority: Natural Resources Wales Catchment Area: River Dee 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 Environment: Freshwater Stream/River Receiving Water: Tref Y Nant Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A13NW (W)	183	2	327600 342200
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Cefn Ps, Ll14 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 Environment: Freshwater Stream/River 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	A13NW (W)	183	2	327600 342200
2	**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 Environment: Not Supplied Receiving Water: Trefynant Brook **Status: Revoked and replaced by IPC Authorisation** Positional Accuracy: Located by supplier to within 100m	A13SW (W)	185	2	327600 342100
3	**Discharge Consents** Operator: Mr John Williams Property Type: Domestic Property (Single) Location: Pant Dedwydd, Dolydd Lane, Cefn Mawr, Wrexham, Ll14 3nf Authority: Natural Resources Wales Catchment Area: River Dee Reference: Eprrp3923gx 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 Environment: Freshwater Stream/River Receiving Water: Trefy Nant Brook **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	266	2	327525 342071

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**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: 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 Environment: Freshwater Stream/River 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	A13NW (NW)	314	2	327500 342300
4	**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 Environment: Freshwater Stream/River 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	A13NW (NW)	314	2	327500 342300
4	**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 Environment: Not Supplied Receiving Water: Tref Y Nant **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	314	2	327500 342300
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Heol Berwyn Cefn Mawr, Heol Berwyn, Wrexham, Ll14 3nb Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101301 Permit Version: 5 Effective Date: 30th June 2010 Issued Date: 31st March 2010 Revocation Date: 30th March 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dee **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	560	2	327450 341700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Heol Berwyn Cefn Mawr, Heol Berwyn, Wrexham, Ll14 3nb Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101301 Permit Version: 6 Effective Date: 31st March 2015 Issued Date: 31st March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dee **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	560	2	327450 341700
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Heol Berwyn Cefn Mawr, Heol Berwyn, Wrexham, Ll14 3nb Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101301 Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 29th June 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dee **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	560	2	327450 341700
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Heol Berwyn Cefn Mawr, Heol Berwyn, Wrexham, Ll14 3nb Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0405901 Permit Version: 1 Effective Date: 31st March 2003 Issued Date: 12th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: The River Dee **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	560	2	327450 341700
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Heol Berwyn Cefn Mawr, Heol Berwyn, Wrexham, Ll14 3nb Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101301 Permit Version: 3 Effective Date: 31st March 2003 Issued Date: 12th March 2003 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dee **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	560	2	327450 341700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0101301 Permit Version: 2 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 30th March 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: River Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	602	2	327500 341620
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Mawr Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101301 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 Environment: Not Supplied Receiving Water: Dee **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	602	2	327500 341620
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cefn Combined Sewerage System Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0049801 Permit Version: 1 Effective Date: 20th May 1968 Issued Date: 20th May 1968 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	620	2	327500 341600
7	**Discharge Consents** Operator: Monsanto Plc Property Type: Spec. Chemicals, Household Use Location: Ruabon - Monsanto Ltd Cefn Mawr Wre, Cefn Mawr Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101201 Permit Version: 3 Effective Date: 9th February 1994 Issued Date: 9th February 1994 Revocation Date: 30th September 1994 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: River Dee **Status: Revoked and replaced by IPC Authorisation** Positional Accuracy: Located by supplier to within 100m	A8NW (S)	678	2	327600 341500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**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: 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 Environment: Freshwater Stream/River Receiving Water: Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	695	2	327110 341960
8	**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 Environment: Freshwater Stream/River Receiving Water: Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	695	2	327110 341960
8	**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 Environment: Not Supplied Receiving Water: Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	695	2	327110 341960
8	**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 Environment: Not Supplied Receiving Water: Dee **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	695	2	327110 341960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: Monsanto Plc Property Type: Spec. Chemicals, Household Use Location: Ruabon - Monsanto Ltd Cefn Mawr Wre, Cefn Mawr Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101201 Permit Version: 2 Effective Date: 26th July 1985 Issued Date: 26th July 1985 Revocation Date: 8th February 1994 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: River Dee **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	749	2	327630 341420
9	**Discharge Consents** Operator: Monsanto Plc Property Type: Spec. Chemicals, Household Use Location: Ruabon - Monsanto Ltd Cefn Mawr Wre, Cefn Mawr Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0101201 Permit Version: 1 Effective Date: 17th June 1981 Issued Date: 17th June 1981 Revocation Date: 25th July 1985 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: River Dee **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	749	2	327630 341420
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cefn Monsanto - Sso, Ll14 3sn Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0175201 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Tref Y Nant Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	796	2	327500 342900
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cefn Monsanto - Sso, Ll14 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 Environment: Freshwater Stream/River 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	A18NW (N)	796	2	327500 342900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**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 Environment: Not Supplied Receiving Water: Dee **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	861	2	326920 342080
11	**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 Environment: Land/Soakaway Receiving Water: Land **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	879	2	326900 342110
11	**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 Environment: Land/Soakaway Receiving Water: Land **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	879	2	326900 342110
11	**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 Environment: Land/Soakaway Receiving Water: Land **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	879	2	326900 342110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**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 Environment: Not Supplied Receiving Water: Land **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	879	2	326900 342110
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Park Road Rhosymedre Authority: Natural Resources Wales Catchment Area: Not Given Reference: CG0360601 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Dee Tributary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	907	2	328560 342610
13	**Discharge Consents** Operator: Roberts E Property Type: Domestic Property (Single) Location: Land Adj To 1 Cae Gwilym Rd, Newbridge, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0186401 Permit Version: 2 Effective Date: 7th August 1989 Issued Date: 7th August 1989 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	918	2	328300 341400
13	**Discharge Consents** Operator: Roberts E Property Type: Domestic Property (Single) Location: Land Adj To 1 Cae Gwilym Rd, Newbridge, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0186401 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 6th August 1989 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Land **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	918	2	328300 341400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**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 Environment: Not Supplied Receiving Water: Trefynant Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	950	2	327230 342930
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Newbridge Ps Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0175701 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 31st August 2002 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Dee **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9NE (E)	989	2	328700 341800
16	**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	A18SW (NW)	608	3	327498 342694
17	**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	A18NW (N)	700	3	327642 342840
17	**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	A18NW (N)	701	3	327637 342840
17	**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	A18NW (N)	702	3	327632 342840
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18SW (N)	679	3	327652 342821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**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	A18SW (N)	680	3	327647 342821
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18SW (N)	681	3	327642 342821
18	**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 revokedRevoked** Positional Accuracy: Automatically positioned to the address	A18SW (N)	682	3	327637 342821
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18SW (N)	685	3	327647 342826
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18SW (N)	686	3	327642 342826
18	**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 operatorSurrendered** Positional Accuracy: Automatically positioned to the address	A18SW (N)	686	3	327642 342826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18SW (N)	687	3	327637 342826
18	**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	A18NW (N)	690	3	327647 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	690	3	327647 342831
18	**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	A18NW (N)	691	3	327642 342831
18	**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	A18NW (N)	691	3	327642 342831
18	**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	A18NW (N)	691	3	327642 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	3	327642 342831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	3	327642 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	3	327642 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	3	327642 342831
18	**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 operatorSurrendered** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	3	327642 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	692	3	327637 342831
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	695	3	327647 342836

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	696	3	327642 342836
18	**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 variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NW (N)	697	3	327637 342836
18	**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 operatorSurrendered** Positional Accuracy: Automatically positioned to the address	A18NW (N)	698	3	327652 342840
19	**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	A18NW (N)	690	2	327640 342830
19	**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	A18NW (N)	690	2	327640 342830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**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	A18NW (N)	690	2	327640 342830
19	**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	A18NW (N)	690	2	327640 342830
19	**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	A18NW (N)	690	2	327640 342830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**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	A18NW (N)	690	2	327640 342830
19	**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	A18NW (N)	690	2	327640 342830
19	**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: NP3335GR Original Permit Ref: Np3335gr Effective Date: 23rd December 2008 **Status:** **Superseded By Variation** Application Type: Transfer App. Sub Type: Whole limited change in management 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) (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 Activity Code: 4.1 A(1) (A) (III) Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides Primary Activity: Y	A18NW (N)	690	2	327640 342830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**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	A18NW (N)	690	3	327640 342830
19	**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	A18NW (N)	691	2	327642 342831
19	**Integrated Pollution Prevention And Control** Name: Dupont Air Products Nanomaterials Limited Location: Ruabon Chemical Works Eaeprbv2689iev003, 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	A18NW (N)	691	2	327642 342831
19	**Integrated Pollution Prevention And Control** Name: Air Products Electronics Advanced Materials Europe Limited Location: Ruabon Chemical Works Eaeprbv2689iev003, 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	A18NW (N)	691	2	327642 342831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Integrated Pollution Prevention And Control** Name: Dupont Air Products Nanomaterials Limited Location: Ruabon Chemical Works Eaeprbv2689iev004, 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	A18NW (N)	691	2	327642 342831
19	**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 Containg Compounds Eg Halocarbons Primary Activity: N	A18NW (N)	691	2	327642 342831
19	**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	A18NW (N)	691	2	327642 342831
19	**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	A18NW (N)	691	2	327642 342831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**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 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	A18NW (N)	691	2	327642 342831
19	**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	A18NW (N)	691	2	327642 342831
19	**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	A18NW (N)	691	2	327642 342831
19	**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	A18NW (N)	691	2	327642 342831
20	**Local Authority Pollution Prevention and Controls** Name: Advanced Industrial Coating Ltd Location: Advance Technology Park, Ruabon, WREXHAM, Clwyd, LL13 Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WMBC/HJB/03/029 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: Part B - General Coating Process (No Specific Reference) **Status:** **Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	618	4	328358 342363
	Nearest Surface Water Feature	A13NW (W)	167	-	327614 342190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**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	A13NE (NE)	188	3	327900 342295
21	**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	A13NE (NE)	192	3	327900 342300
22	**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	A13NW (N)	258	3	327700 342400
23	**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	A13NW (NW)	304	3	327600 342400
24	**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	A13SW (W)	306	3	327480 342080
25	**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	A13NW (NW)	311	3	327500 342295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**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	A13SW (SW)	386	3	327450 341950
27	**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	A18SE (NE)	412	3	328000 342500
28	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Kwik Save, Rock And Fountain Public House, Rhosymedre, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Vandalism Incident Date: 28th January 1996 Incident Reference: 27281 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	A14NW (E)	426	3	328200 342200
29	**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	A18SW (N)	480	3	327600 342600
30	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Down Stream Of Monsanto Authority: Environment Agency, Welsh Region Pollutant: Road Run-Off Note: Not Supplied Incident Date: 13th October 1994 Incident Reference: 21443 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	490	3	327500 341750
31	**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	A12SE (W)	502	3	327300 342000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Outside Vale Of Llangollen Tours Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Dee Incident Date: 21st September 1997 Incident Reference: 33607 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	A14NW (NE)	559	3	328250 342450
33	**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	A12NE (W)	596	3	327200 342300
34	**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	A18SW (NW)	613	3	327500 342700
35	**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	A17SE (NW)	726	3	327300 342700
36	**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	A17SE (NW)	750	3	327380 342790
37	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Manhole At , Queen Street, Glan Aber Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Weather; Tref-Y-Nant Brook Incident Date: 17th June 1998 Incident Reference: 35895 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)	762	3	328300 341600

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	A12SW (W)	793	3	327000 342000
39	**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	A17SE (NW)	834	3	327250 342800
40	**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	A17NE (NW)	836	3	327400 342900
41	**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	A18NE (N)	871	3	328000 342995
41	**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	A18NE (N)	876	3	328000 343000
42	**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	A17NE (NW)	886	3	327300 342900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: New Bridge, Manley Hall Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical Failure Incident Date: 8th August 1991 Incident Reference: 2277 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	896	3	328600 341800
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Manley Hall Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Mechanical Failure Incident Date: 8th August 1991 Incident Reference: 2277 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	898	3	328600 341795
44	**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	A12NW (W)	929	3	326850 342200
45	**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	A12SW (W)	983	3	326800 342050
46	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rumour Of Leak, From, Monsanto Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 21st October 1995 Incident Reference: 26287 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	A9NE (E)	991	3	328700 341795
	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	A13NW (W)	138	3	327641 342176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A13NW (NW)	308	3	327652 342435
	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	A7NE (SW)	597	3	327439 341662
	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	A12SE (SW)	628	3	327236 341835
	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	A12NE (W)	652	3	327125 342160
47	**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	A18SW (NW)	389	3	327600 342500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**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	A12SE (SW)	541	3	327300 341900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**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	A12SE (SW)	561	3	327300 341860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**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	A12NW (W)	756	3	327050 342360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**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	A17NE (NW)	844	3	327300 342850
51	**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	A13SW (W)	204	2	327582 342096
52	**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	A12SW (W)	707	2	327080 342040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 1st August 2001 Incident Reference: 20968 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	A8SW (S)	745	2	327740 341410
54	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 10th August 2012 Incident Reference: 1024536 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: Crude Sewage	A19SE (NE)	940	2	328580 342642
55	**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	A12SE (W)	603	2	327217 341932
55	**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	A12SE (W)	603	2	327217 341932
56	**Water Abstractions** Operator: Solutia Uk Limted 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	A12SE (W)	603	3	327200 341980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**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	A12SE (W)	603	3	327200 341980
56	**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	A12SE (W)	603	3	327200 341980
57	**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	A12SW (W)	727	3	327080 341950
57	**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	A12SW (W)	727	3	327080 341950

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	A11SW (W)	1619	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	A11SW (W)	1619	3	326160 342090
	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	A21SW (NW)	1951	3	326320 343450
	Water Abstractions Operator: D.F Myddleton Licence Number: 24/67/5/0034 Permit Version: 100 Location: Spring Authority: Environment Agency, Welsh Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) 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: 14th June 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1985	3	327330 340220
	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	A13SE (SE)	0	3	327777 342154
	Drift Deposits None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	1	327777 342154
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (SE)	0	1	327777 342154
	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	A13NW (W)	166	2	327615 342184
	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	A13NW (W)	166	2	327613 342172
	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	A13NW (NW)	238	2	327605 342318
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 506.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tref-y-nant Brook Catchment Name: Dee Primacy: 1	A13NW (W)	169	5	327613 342192
59	**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	A13NW (NW)	222	5	327609 342298
60	**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	A13NW (NW)	224	5	327607 342300
61	**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	A13NW (NW)	316	5	327585 342403
62	**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	A13NW (NW)	390	5	327528 342454

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (SW)	394	5	327426 341976
64	**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	A13NW (NW)	437	5	327487 342480
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 237.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SW)	488	5	327522 341739
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14NW (E)	490	5	328265 342176
67	**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	A12SE (SW)	491	5	327364 341889
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 157.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (SW)	491	5	327364 341889
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14NW (E)	497	5	328266 342240
70	**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	A18SW (NW)	538	5	327504 342617
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (NW)	538	5	327504 342617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (SW)	541	5	327302 341895
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 332.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A12SE (W)	564	5	327255 341941
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A7NE (SW)	569	5	327412 341718
75	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (NW)	571	5	327551 342678
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	581	5	327565 342695
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	585	5	327569 342700
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A7NE (SW)	599	5	327333 341752
79	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 102.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NW)	606	5	327256 342462
80	**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	A18SW (N)	607	5	327629 342742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	**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	A18SW (N)	607	5	327629 342742
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A7NE (SW)	609	5	327315 341759
83	**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	A18SW (N)	611	5	327589 342734
84	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 71.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	617	5	327201 342372
85	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 89.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	619	5	327202 342381
86	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 146.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shropshire Union Canal Catchment Name: Dee Primacy: 1	A12NE (W)	624	5	327175 342316
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 121.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A8NW (S)	642	5	327533 341560
88	**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	A12SE (W)	647	5	327136 342066
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	667	5	328314 341760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	667	5	328317 341764
91	**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	A12SE (W)	677	5	327121 341985
92	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 217.2 Watercourse Level: suspendedOrElevated Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NW (W)	698	5	327082 342205
93	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shropshire Union Canal (Llangollen Branch) Catchment Name: Dee Primacy: 2	A12NW (W)	698	5	327082 342205
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	717	5	327601 341460
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 163.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A8SW (S)	717	5	327601 341460
96	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 5.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Shropshire Union Canal (Llangollen Branch) Catchment Name: Dee Primacy: 2	A12NW (W)	718	5	327062 342215
97	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 2928.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A12NW (W)	723	5	327057 342216
98	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 2930.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	754	5	327041 341992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	**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	A18NW (N)	793	5	327663 342938
100	**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	A18NW (N)	801	5	327516 342910
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	807	5	327720 341349
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 203.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A8SW (S)	807	5	327720 341349
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	820	5	327711 341337
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 94.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 2	A8SE (S)	851	5	327937 341319
105	**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	A12SW (W)	855	5	326927 342060
106	**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	A12SW (W)	855	5	326927 342060
107	**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	A12SW (W)	858	5	326922 342087

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SE (S)	864	5	327987 341316
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 2	A8SE (S)	864	5	327987 341316
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	868	5	327620 341300
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	869	5	327646 341295
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	876	5	327909 341289
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	892	5	327959 341281
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 211.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A8SE (S)	898	5	328065 341304
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SE (NE)	942	5	328591 342627
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 623.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SE (NE)	942	5	328593 342623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	954	5	328382 341417
118	**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	A12NW (W)	960	5	326820 342215
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 225.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	980	5	327456 341228
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	999	5	328772 342071
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	999	5	328414 341385
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	999	5	328414 341385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**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 Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0020 BGS Ref: Not Supplied Other Ref: Not Supplied	A13SW (W)	127	2	327657 342114
124	**Historical Landfill Sites** Licence Holder: Druids United Football Club Location: Plas Kynaston Lane, Wrexham, Cefn Mawr Name: Druids United FC Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14755 First Input Date: 1st March 1983 Last Input Date: 31st October 1983 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0025 BGS Ref: Not Supplied Other Ref: WMBC L/42	A14NW (E)	377	2	328149 342216
125	**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 Type: Deposited Waste included Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0071 BGS Ref: Not Supplied Other Ref: L17	A18SE (NE)	459	2	328042 342528
126	**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 Type: Deposited Waste included Inert, Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0026 BGS Ref: Not Supplied Other Ref: Not Supplied	A17SE (NW)	701	2	327316 342681
127	**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 Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0002 BGS Ref: Not Supplied Other Ref: WMBC L/8, WMBC L/58	A18NE (N)	852	2	327882 342999

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	327777 342154
	Local Authority Landfill Coverage Name: Denbighshire County Council - Has supplied landfill data		170	7	327612 342191
128	**Local Authority Recorded Landfill Sites** Location: Cestria, Dolydd Lane, Cefn Mawr, Wrexham Reference: 6955/0020 Authority: Wrexham County Borough Council **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A13SW (W)	128	6	327656 342114
129	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A13SE (S)	91	13	327789 342064
130	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A13NE (NE)	199	13	327920 342291
131	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A13SW (S)	279	13	327719 341882
132	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A13NW (NW)	289	13	327631 342402
133	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A13NW (NW)	383	13	327477 342391
134	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A14SW (SE)	402	13	328138 341979
135	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A8NW (S)	403	13	327691 341760
136	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SW (N)	418	13	327626 342543
137	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SE (N)	471	13	327823 342622
138	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A14NW (E)	499	13	328276 342160
139	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SE (N)	627	13	327945 342757
140	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A19SW (NE)	639	13	328148 342674
141	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SW (N)	655	13	327741 342807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SW (N)	669	13	327716 342819
143	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A12NE (NW)	671	13	327196 342488
144	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A17SE (NW)	683	13	327278 342620
145	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18NW (N)	738	13	327736 342891
146	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18NE (N)	749	13	327847 342899
147	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18NW (N)	843	13	327559 342967
148	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18NE (N)	957	13	327866 343106
149	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13NW (N)	157	13	327740 342306
150	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1914	A13SE (SE)	195	13	327899 342003
151	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A13NW (NW)	305	13	327597 342400
152	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A13NW (N)	332	13	327734 342482
153	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A17SE (NW)	540	13	327406 342546
154	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NW (S)	547	13	327654 341621
155	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A17SE (NW)	556	13	327366 342528
156	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A17SE (NW)	559	13	327357 342522
157	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18SW (N)	577	13	327635 342713
158	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NW (S)	582	13	327700 341578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	**Registered Landfill Sites** Licence Holder: Druids United F C Licence Reference: L42 Site Location: Plaskynaston, Cefn Mawr, Wrexham, Clwyd Licence Easting: 328200 Licence Northing: 342250 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Waste Minestone	A14NW (E)	434	3	328200 342250
160	**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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1990 Preceded By Licence: L17 Superseded By Licence: L17 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 Saliccylic Acid/Aspirin Ex Monsanto Uncontam. Constr'N/Demol. Wastes	A18SE (NE)	512	3	328100 342550
160	**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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1977 Preceded By Licence: L17A Superseded By Licence: L17A 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	A18SE (NE)	512	3	328100 342550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	**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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1992 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Hardcore/Concrete	A18NE (N)	868	3	327976 342998

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	**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	A18NW (N)	691	8	327642 342831
162	**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	A18NW (N)	691	8	327642 342831
162	**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	A18NW (N)	691	8	327642 342831
163	**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	A18NW (N)	694	8	327652 342836
164	**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 GrantedGranted** Positional Accuracy: Located by supplier to within 10m	A13NW (N)	336	9	327762 342489
165	**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	A18SW (N)	507	9	327657 342646
165	**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	A18SW (N)	507	9	327657 342646
166	**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 GrantedGranted** Positional Accuracy: Automatically positioned to the address	A18SW (N)	675	9	327642 342815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	**Planning Hazardous Substance Consents** Name: Monsanto Plc Location: Ruabon Works, Cefn Mawr, WREXHAM, Clywd, LL14 3SL Authority: Wrexham County Borough Council, Planning Department Application Ref: 6/0002/0627 Hazardous Substance: Unknown at time of report Maximum Quantity: 62 Application date: 12th August 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Automatically positioned to the address	A18SW (N)	676	9	327637 342815
166	**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 Substance: Unknown at time of report Maximum Quantity: .1 Application date: 11th October 1999 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	9	327642 342831
166	**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 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 reportUnknown** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	9	327642 342831
166	**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 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 reportUnknown** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	9	327642 342831
166	**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 reportUnknown** Positional Accuracy: Automatically positioned to the address	A18NW (N)	691	9	327642 342831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13SE (SE)	0	1	327777 342154
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	327777 342154
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	7	1	327770 342152
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	271	1	328000 342000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	349	1	328000 341887
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	727	1	327303 341603
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	777	1	327000 342154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	809	1	327000 342377
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	919	1	327000 341664
167	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	84	1	327730 342085
168	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (S)	141	1	327735 342020
169	**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: Not Supplied 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	A13NW (NW)	194	1	327613 342256
170	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	262	1	327964 342336

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	**BGS Recorded Mineral Sites** Site Name: Dolydd Pits Location: , Dolydd, Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98674 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (S)	278	1	327735 341880
172	**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: Not Supplied 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	A13NW (NW)	293	1	327628 342406
173	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	330	1	327996 342400
174	**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: Not Supplied 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	A13NW (NW)	386	1	327476 342395
175	**BGS Recorded Mineral Sites** Site Name: Mason'S Arms Location: , Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185697 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	394	1	328132 341984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	**BGS Recorded Mineral Sites** Site Name: Engine Pit Location: , Dolydd, Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98675 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	406	1	327705 341755
177	**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: Not Supplied 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	A18SW (N)	464	1	327690 342609
178	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	467	1	328037 342541
179	**BGS Recorded Mineral Sites** Site Name: Cefn Stone Quarries, No. 1 Location: , Rhos-Y-Medre, Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14103 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	518	1	328110 342550
180	**BGS Recorded Mineral Sites** Site Name: Plas Kynaston Colliery Location: , Cefn-Mawr, Ruabon, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14105 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	574	1	328350 342180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	**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: Not Supplied 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	A18SE (N)	597	1	327777 342750
182	**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: Not Supplied 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	A17SE (NW)	676	1	327194 342496
182	**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: Not Supplied 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	A17SE (NW)	699	1	327187 342527
183	**BGS Recorded Mineral Sites** Site Name: Edward'S Clay Pit Location: , Aber-Nant, Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98661 Type: Opencast **Status: Ceased** Operator: Not Supplied 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	A18NW (N)	706	1	327700 342855
183	**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: Not Supplied 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	A18NW (N)	725	1	327706 342875

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	**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: Not Supplied 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)	759	1	328055 342860
185	**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: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	769	1	328230 342775
186	**BGS Recorded Mineral Sites** Site Name: Black Lion Location: , Cefn-Mawr, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185714 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (SE)	772	1	328476 341828
187	**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: Not Supplied 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)	782	1	328010 342900
188	**BGS Recorded Mineral Sites** Site Name: Cefn Stone Quarries, No.2 Location: , Cefn-Mawr, Ruabon, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 98662 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	880	1	328280 342875
189	**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: Not Supplied 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	A18NW (N)	991	1	327514 343109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (SE)	0	10	327777 342154
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (SE)	0	-	327777 342154
	Natural Cavities Easting: 327650 Northing: 341280 Distance: 884 Quadrant Reference: A8 Quadrant Reference: SW Bearing Ref: S Cavity Type: Spring Outlet Cave x 1 Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A8SW (S)	884	11	327650 341280
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	145	1	327634 342172
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	145	1	327634 342172
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	120	1	327883 342207
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	136	1	327907 342192
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	145	1	327634 342172
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	179	1	327881 342299
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	120	1	327883 342207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	145	1	327634 342172
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	171	1	327947 342165
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	185	1	327642 342028
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	327777 342154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
190	**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	A13NE (NE)	147	-	327886 342252
191	**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	A13NE (N)	155	-	327834 342298
191	**Contemporary Trade Directory Entries** Name: Festival Fireworks Location: 2 Railway Road, Cefn Mawr, Wrexham, Clwyd, LL14 3AA Classification: Firework Stockists **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NE (N)	196	-	327824 342344
192	**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	A13NE (NE)	157	-	327911 342234
192	**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	A13NE (E)	176	-	327943 342210
193	**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	A13NE (NE)	198	-	327925 342284
194	**Contemporary Trade Directory Entries** Name: J Tynan Co Location: Well St, Cefn Mawr, Wrexham, Clwyd, LL23 7HU Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	365	-	328096 342330
195	**Contemporary Trade Directory Entries** Name: Spik & Span Ltd Location: 51, Coronation Street, Cefn Mawr, Wrexham, Clwyd, LL14 3PL Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	411	-	328141 341964
196	**Contemporary Trade Directory Entries** Name: Goldways Haulage Location: 109, Cae Gwilym Lane, Cefn Mawr, Wrexham, Clwyd, LL14 3PG Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	479	-	327990 341726
197	**Contemporary Trade Directory Entries** Name: Northall'S Wrought Iron Designs Ltd Location: Unit 1, Park Road Industrial Estate, Rhosymedre, Wrexham, Clwyd, LL14 3AQ Classification: Ornamental Metalwork **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	569	-	328336 342047
197	**Contemporary Trade Directory Entries** Name: 2 Woods Garage & Mot Centre Location: Unit 3 And 4 Park Rd Industrial Estate, Rhosymedre, Wrexham, Clwyd, LL14 3AQ Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A14SW (E)	570	-	328336 342047

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
197	**Contemporary Trade Directory Entries** Name: Safeway Scaffolding North West Ltd Location: Safeway House, Park Road Industrial Estate, Rhosymedre, Wrexham, Clwyd, LL14 3AQ Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	575	-	328338 342029
198	**Contemporary Trade Directory Entries** Name: Cpl Wrexham Location: Coal Concentration Depot, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YP Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	592	-	328356 342276
198	**Contemporary Trade Directory Entries** Name: C P L Distribution Ltd Location: Coal Concentration Depot, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YP Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	611	-	328375 342276
198	**Contemporary Trade Directory Entries** Name: Town & Country Heating Supply Location: Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3AX Classification: Oil Fuel Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	613	-	328381 342256
198	**Contemporary Trade Directory Entries** Name: Town & Country Heating Supply Co Ltd Location: Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3AX Classification: Oil Fuel Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	613	-	328381 342256
198	**Contemporary Trade Directory Entries** Name: Riva Ltd Location: Advance Park, Park Road, Rhosymedre, WREXHAM, Clwyd, LL14 3YR Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	618	-	328374 342310
199	**Contemporary Trade Directory Entries** Name: Tree Fuel Location: Park Rd, Rhosymedre, Wrexham, Clwyd, LL14 3AX Classification: Wood Recycling **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	605	-	328379 342211
200	**Contemporary Trade Directory Entries** Name: Dee Vale Mouldings Ltd Location: Advance Park,Park Rd, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	612	-	328341 342390
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Ltd Location: Advance Park,Park Rd, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Transformer Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	612	-	328341 342390
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Ltd Location: Advance Pk,Park Rd, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Transformer Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	612	-	328341 342390
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Location: Advance Park, Park Road, Rhosymedre, WREXHAM, Clwyd, LL14 3YR Classification: Electronic Component Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	613	-	328342 342391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	613	-	328342 342391
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Ltd Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	613	-	328342 342391
200	**Contemporary Trade Directory Entries** Name: Advance Electronics Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Electricity Companies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	613	-	328342 342391
200	**Contemporary Trade Directory Entries** Name: Arbra Instruments Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Blast Cleaning Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	622	-	328362 342363
200	**Contemporary Trade Directory Entries** Name: Advance Galatrek Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Transformer Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	622	-	328362 342363
200	**Contemporary Trade Directory Entries** Name: Radiotronic Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Can Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	622	-	328362 342363
200	**Contemporary Trade Directory Entries** Name: Advance Spares Ltd Location: Advance Park, Park Road, Rhosymedre, WREXHAM, Clwyd, LL14 3YR Classification: Nuts, Bolts & Fixings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	622	-	328362 342363
201	**Contemporary Trade Directory Entries** Name: J T Armstrong Location: Old Church House, Newbridge Road, Newbridge, Wrexham, Clwyd, LL14 3BJ Classification: Damp & Dry Rot Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	613	-	328327 341885
202	**Contemporary Trade Directory Entries** Name: Advance Electronics Location: Advance Pk,Park Rd, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Electronic Equipment - Manufacturers & Assemblers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	641	-	328359 342422
203	**Contemporary Trade Directory Entries** Name: Aquatec Coatings Ltd Location: Rock Road, Rhosymedre, Wrexham, Clwyd, LL14 3YF Classification: Coating Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	651	-	328288 342557
204	**Contemporary Trade Directory Entries** Name: Griffiths Site Services Ltd Location: Unit 2c, Advance Park, Park Road, Wrexham, LL14 3YR Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	658	-	328381 342413
204	**Contemporary Trade Directory Entries** Name: Wilman Agricultural Products Location: Wrexham, LL14 3YR Classification: Agricultural Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	658	-	328381 342413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	**Contemporary Trade Directory Entries** Name: Advance Electronics Ltd Location: Wrexham, LL14 3YR Classification: Sewing Machines - Industrial **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	658	-	328381 342413
204	**Contemporary Trade Directory Entries** Name: G Wood Developments Location: Advance Park, Park Road, Rhosymedre, Wrexham, LL14 3YR Classification: Plastics - Injection Moulding **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	658	-	328381 342413
204	**Contemporary Trade Directory Entries** Name: Advance Rivets Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Fasteners & Fixing Devices **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	679	-	328414 342388
204	**Contemporary Trade Directory Entries** Name: Advance Coatings Location: Advance Park, Park Road, Rhosymedre, WREXHAM, Clwyd, LL14 3YR Classification: Paint Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	679	-	328414 342388
205	**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	A18NE (N)	681	-	327823 342833
206	**Contemporary Trade Directory Entries** Name: John Barlow Location: Plas Coch, Park Road, Newbridge, Wrexham, Clwyd, LL14 3YS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	685	-	328385 341841
207	**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	A18NW (N)	690	-	327642 342830
207	**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	A18NW (N)	690	-	327642 342830
207	**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	A18NW (N)	691	-	327642 342831
207	**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	A18NW (N)	691	-	327642 342831
207	**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	A18NW (N)	691	-	327642 342831
208	**Contemporary Trade Directory Entries** Name: Deeside Engineering Services Location: Advance Park, Park Road, Rhosymedre, Wrexham, Clwyd, LL14 3YR Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	737	-	328434 342487

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	**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	A18NE (N)	774	-	327816 342926
209	**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	A18NE (N)	787	-	327811 342940
210	**Contemporary Trade Directory Entries** Name: J R Soft Furnishings Location: Unit G3, Wheatsheaf Workshops, High Street, Wrexham, LL14 3YE Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	781	-	328441 342565
211	**Contemporary Trade Directory Entries** Name: Marcher Chemicals Ltd Location: Rock Road, Rhosymedre, Wrexham, Clwyd, LL14 3YF Classification: Paint Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	798	-	328298 342759
212	**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	A17SE (NW)	808	-	327307 342811
213	**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	A18NW (N)	869	-	327730 343021
214	**Fuel Station Entries** Name: Town & Country Heating Supply Company Location: PARK ROAD, NEWBRIDGE, WREXHAM, Clwyd, LL14 3AX Brand: UNBRANDED Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A14NW (E)	613	-	328381 342256
215	**Fuel Station Entries** Name: The Garage Location: A439, Acrefair, Wrexham, Clwyd, LL14 3RS Brand: Uk Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A18NW (N)	869	-	327730 343021
216	**Points of Interest - Commercial Services** Name: Wash & Glow Mobile Location: 95 Cae Gwilym Lane, Cefn Mawr, Wrexham, LL14 3LS Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	361	12	327883 341809
217	**Points of Interest - Commercial Services** Name: Goldways Haulage Location: 109 Cae Gwilym Lane, Cefn Mawr, Wrexham, LL14 3PG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	479	12	327990 341726
218	**Points of Interest - Commercial Services** Name: Northall's Wrought Iron Designs Ltd Location: Unit 1, Park Road Industrial Estate, Rhosymedre, Wrexham, LL14 3AQ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A14SW (E)	569	12	328335 342046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	**Points of Interest - Commercial Services** Name: 2 Woods Garage & MOT Centre Location: Unit 3 Park Road Industrial Estate, Park Road, Wrexham, LL14 3AQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	571	12	328338 342050
219	**Points of Interest - Commercial Services** Name: Griffiths Site Services Ltd Location: Unit 2c Advance Park, Park Road, Wrexham, LL14 3YR Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A14NW (NE)	658	12	328381 342413
220	**Points of Interest - Commercial Services** Name: G Roberts Location: 1 Tai Gwynedd, King Street, Acrefair, Cefn Mawr, Wrexham, LL14 3RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	674	12	327891 342818
221	**Points of Interest - Commercial Services** Name: John Barlow Location: Plas Coch, Park Road, Newbridge, Wrexham, LL14 3YS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	685	12	328385 341841
221	**Points of Interest - Commercial Services** Name: J Barlow Location: Plas Coch, Park Road, Newbridge, Wrexham, LL14 3YS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	685	12	328385 341841
222	**Points of Interest - Commercial Services** Name: New Dubs Location: Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	690	12	327642 342830
222	**Points of Interest - Commercial Services** Name: New Dubs Location: The Warehouse, Ruabon Works, Cefn Mawr, Wrexham, Clwyd, LL14 3SL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	690	12	327642 342830
222	**Points of Interest - Commercial Services** Name: SITA UK Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, LL14 3SL Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	691	12	327642 342831
223	**Points of Interest - Commercial Services** Name: G Roberts Car Repairs Location: King Street, Acrefair, Wrexham, LL14 3RH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	774	12	327816 342926
224	**Points of Interest - Commercial Services** Name: The Garage Location: A439 Acrefair, Wrexham, LL14 3RS Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NW (N)	869	12	327730 343021
224	**Points of Interest - Commercial Services** Name: Car Wash Location: A439 Acrefair, Wrexham, Clwyd, LL14 3RS Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NW (N)	869	12	327730 343021
225	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13SE (S)	163	12	327830 342000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13NW (NW)	192	12	327618 342261
227	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	198	12	327971 342191
228	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	277	12	327950 342370
229	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	303	12	327480 342209
229	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13NW (W)	304	12	327475 342189
230	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	461	12	327724 341696
230	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	463	12	327724 341694
231	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A19SW (NE)	552	12	328126 342581
232	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	562	12	327612 342691
232	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	564	12	327606 342691
233	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL20 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NE (NW)	677	12	327188 342487
234	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	697	12	327105 342337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	**Points of Interest - Manufacturing and Production** Name: Works Location: LL20 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	702	12	327099 342335
235	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	722	12	327870 342869
235	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	723	12	327865 342871
236	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	758	12	327064 341897
236	**Points of Interest - Manufacturing and Production** Name: Works Location: LL20 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	765	12	327056 341898
237	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	771	12	328016 342886
237	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL14 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	785	12	328072 342881
238	**Points of Interest - Manufacturing and Production** Name: Foden Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	810	12	327914 342952
239	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	888	12	328119 342973
239	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	891	12	328113 342978
240	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	931	12	327959 343066
241	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	958	12	328049 343072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	**Points of Interest - Manufacturing and Production** Name: Works Location: LL14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	960	12	328050 343074
242	**Points of Interest - Public Infrastructure** Name: Cefn Mawr Police Station Location: Police Station, Cae Gwilym Lane, Cefn Mawr, Wrexham, LL14 3LT Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SW (S)	123	12	327740 342037
243	**Points of Interest - Public Infrastructure** Name: Vale of Llangollen Location: Cefn Garage, Well Street, Cefn Mawr, Wrexham, LL14 3YD Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A14NW (E)	496	12	328235 342342
243	**Points of Interest - Public Infrastructure** Name: Vale of Llangollen Location: Cefn Garage, Well Street, Cefn Mawr, Wrexham, LL14 3YD Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A14NW (E)	496	12	328235 342342
244	**Points of Interest - Public Infrastructure** Name: Refuse Tips Location: LL14 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	522	12	328112 342553
245	**Points of Interest - Public Infrastructure** Name: Cemetery Location: LL14 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	669	12	327488 342757
245	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	672	12	327484 342758
246	**Points of Interest - Public Infrastructure** Name: SITA UK Ltd Location: Ruabon Works, Cefn Mawr, Wrexham, LL14 3SL Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	691	12	327642 342831
247	**Points of Interest - Public Infrastructure** Name: Jones Location: King Street, Acrefair, Wrexham, LL14 3RH Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A18NE (N)	787	12	327811 342940
248	**Points of Interest - Public Infrastructure** Name: The Garage Location: Llangollen Road, Acrefair, Wrexham, LL14 3RS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NW (N)	869	12	327730 343021
248	**Points of Interest - Public Infrastructure** Name: The Garage Location: Llangollen Road, Acrefair, Wrexham, LL14 3RS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NW (N)	869	12	327730 343021
248	**Points of Interest - Public Infrastructure** Name: The Garage Location: A439 Acrefair, Wrexham, Clwyd, LL14 3RS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NW (N)	869	12	327730 343021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	**Points of Interest - Public Infrastructure** Name: Weir Location: LL14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	911	12	327240 342889
250	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	258	12	327627 341944
251	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Plas Kynaston Lane, LL14 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	328	12	328101 342106
252	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Cae-Gwilym Lane (Lon-Cae-Gwilym), LL14 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9SW (SE)	882	12	328242 341405
253	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Short Lane, LL14 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9NE (SE)	950	12	328566 341625
253	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	961	12	328569 341611
254	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Llangollen Road (Ffordd Llangollen), LL14 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	969	12	327564 343099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
255	**Ancient Woodland** Name: Not Supplied Reference: 1600 Area(m²): 25756.67 Type: Ancient and Semi-Natural Woodland	A13SW (SW)	319	2	327486 342025
256	**Ancient Woodland** Name: Not Supplied Reference: 1585 Area(m²): 559642.56 Type: Ancient and Semi-Natural Woodland	A14SW (E)	616	2	328383 342050
257	**Ancient Woodland** Name: Not Supplied Reference: 1620 Area(m²): 9724.55 Type: Plantation on Ancient Woodland	A8SW (S)	899	2	327717 341258
258	**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	A13SW (W)	220	2	327569 342083
259	**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	A12SE (W)	530	2	327281 341967
260	**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**	A12SE (W)	530	2	327281 341967
261	**World Heritage Sites** Name: Pontcysyllte Aqueduct and Canal Reference: 0 Area(m²): 42638390.693 Source: Welsh Historic Environment Service (Cadw) Designation Date: Not Supplied	A13SE (SE)	0	13	327777 342154
262	**World Heritage Sites** Name: Pontcysyllte Aqueduct and Canal Reference: 1000106 Area(m²): 41605519.55 Source: Historic England Designation Date: 1st January 2009	A13SE (SE)	0	14	327777 342154
263	**World Heritage Sites** Name: Pontcysyllte Aqueduct and Canal Reference: 0 Area(m²): 1032871.102 Source: Welsh Historic Environment Service (Cadw) Designation Date: 31st December 2009	A13SW (SW)	325	13	327479 342024
264	**World Heritage Sites** Name: Pontcysyllte Aqueduct and Canal Reference: 1000106 Area(m²): 1032871.21 Source: Historic England Designation Date: 1st January 2009	A13SW (SW)	325	14	327479 342024

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

Agency & Hydrological	Version	Update Cycle
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	As notified
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Registered Radioactive Substances		
Natural Resources Wales	January 2015	As notified
Environment Agency - Midlands Region	January 2015	
Environment Agency - Welsh Region	January 2015	
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	April 2017	Quarterly
Environment Agency - Midlands Region - West Area	April 2017	Quarterly
Environment Agency Wales - North Area	April 2017	Quarterly
Natural Resources Wales	April 2017	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	April 2017	Quarterly
Natural Resources Wales	January 2017	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	July 2017	Quarterly
Environment Agency - Welsh Region	July 2017	Quarterly
Natural Resources Wales	October 2015	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Natural Resources Wales	November 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	August 2017	Quarterly
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	August 2017	Quarterly
Areas Benefiting from Flood Defences		
Natural Resources Wales	August 2017	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2017	Quarterly
Flood Defences		
Natural Resources Wales	August 2017	Quarterly
OS Water Network Lines		
Ordnance Survey	April 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent		
Natural Resources Wales	October 2013	As notified
Surface Water 1 in 100 year Flood Extent		
Natural Resources Wales	October 2013	As notified

Agency & Hydrological	Version	Update Cycle
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water Suitability Natural Resources Wales	October 2013	As notified
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	May 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	October 2008	Not Applicable
Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - Upper Severn Area	May 2017	Quarterly
Environment Agency - Midlands Region - West Area	May 2017	Quarterly
Environment Agency Wales - North Area	May 2017	Quarterly
Natural Resources Wales	May 2017	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	April 2017	Quarterly
Environment Agency - Midlands Region - Upper Severn Area	July 2017	Quarterly
Environment Agency - Midlands Region - West Area	July 2017	Quarterly
Environment Agency Wales - North Area	July 2017	Quarterly
Local Authority Landfill Coverage		
Denbighshire County Council - Environmental Health Department	May 2000	Not Applicable
North Shropshire District Council (now part of Shropshire Council)	May 2000	Not Applicable
Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department	May 2000	Not Applicable
Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre	May 2000	Not Applicable
Wrexham County Borough Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Wrexham County Borough Council	June 2003	Not Applicable
Denbighshire County Council - Environmental Health Department	May 2000	Not Applicable
North Shropshire District Council (now part of Shropshire Council)	May 2000	Not Applicable
Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department	May 2000	Not Applicable
Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Midlands Region - Upper Severn Area	March 2003	Not Applicable
Environment Agency - Midlands Region - West Area	March 2003	Not Applicable
Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Upper Severn Area	March 2003	Not Applicable
Environment Agency - Midlands Region - West Area	March 2003	Not Applicable
Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Upper Severn Area	March 2003	Not Applicable
Environment Agency - Midlands Region - West Area	March 2003	Not Applicable
Environment Agency Wales - North Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2017	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
North Shropshire District Council (now part of Shropshire Council)	February 2009	Not Applicable
Denbighshire County Council - Planning Department	February 2016	Annual Rolling Update
Wrexham County Borough Council - Planning Department	February 2016	Annual Rolling Update
Shropshire Council - Planning Department	February 2016	Annually
Shropshire County Council (now part of Shropshire Council)	March 2009	Annual Rolling Update
Oswestry Borough Council (now part of Shropshire Council)	October 2008	Not Applicable
Planning Hazardous Substance Consents		
North Shropshire District Council (now part of Shropshire Council)	February 2009	Not Applicable
Denbighshire County Council - Planning Department	February 2016	Annual Rolling Update
Wrexham County Borough Council - Planning Department	February 2016	Annual Rolling Update
Shropshire Council - Planning Department	February 2016	Annually
Shropshire County Council (now part of Shropshire Council)	March 2009	Annual Rolling Update
Oswestry Borough Council (now part of Shropshire Council)	October 2008	Not Applicable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	April 2017	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	As notified
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	June 2015	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	June 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	January 2014	Bi-Annually
Areas of Adopted Green Belt		
Shropshire Council - Planning Department	May 2017	As notified
Areas of Unadopted Green Belt		
Shropshire Council - Planning Department	May 2017	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2017	Bi-Annually
Natural Resources Wales	August 2017	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Denbighshire County Council	August 2017	Bi-Annually
Natural England	August 2017	Bi-Annually
Wrexham County Borough Council	August 2017	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2017	Bi-Annually
National Nature Reserves		
Natural Resources Wales	August 2017	Bi-Annually
National Parks		
Natural Resources Wales	August 2017	Annually
Natural England	August 2017	Bi-Annually
Nitrate Vulnerable Zones		
Natural Resources Wales	June 2017	Bi-Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites		
Natural Resources Wales	August 2017	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	August 2017	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2017	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2017	Bi-Annually
World Heritage Sites		
Welsh Historic Environment Service (Cadw)	April 2016	Bi-Annually
Historic England	May 2017	Bi-Annually

Data Suppliers

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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

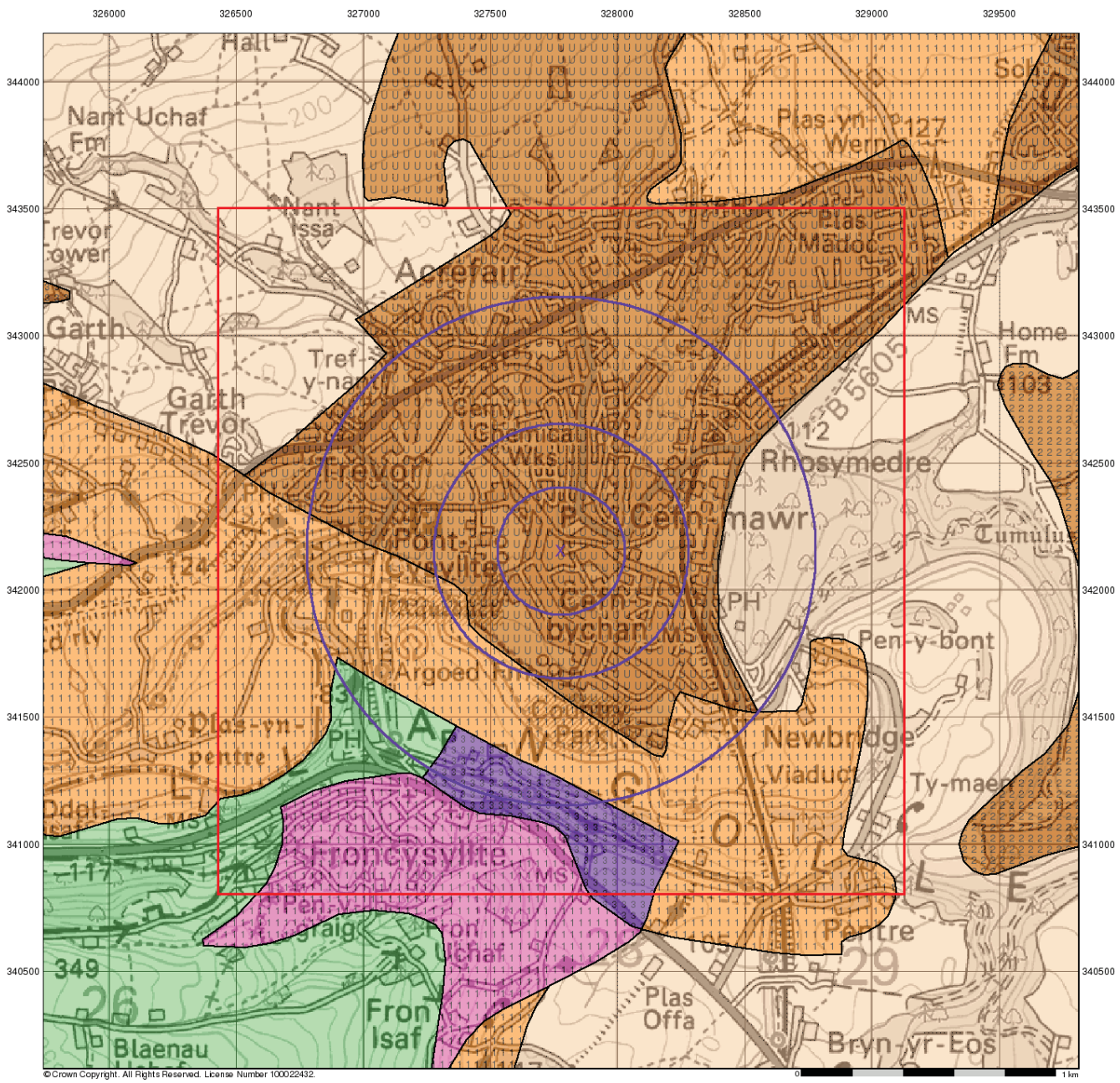
Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham 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: 023 8079 2000 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Wrexham County Borough Council** Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
7	**Denbighshire County Council - Environmental Health Department** Caledfryn, Smithfield, Denbigh, Denbighshire, LL16 3RJ	Telephone: 01824 706000 Fax: 01824 705026 Website: www.denbighshire.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	**Peter Brett Associates** Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
12	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
13	**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
14	**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

Useful Contacts

Contact	Name and Address	Contact Details
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

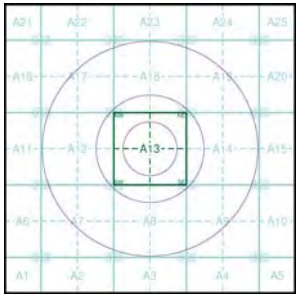
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



Order Details

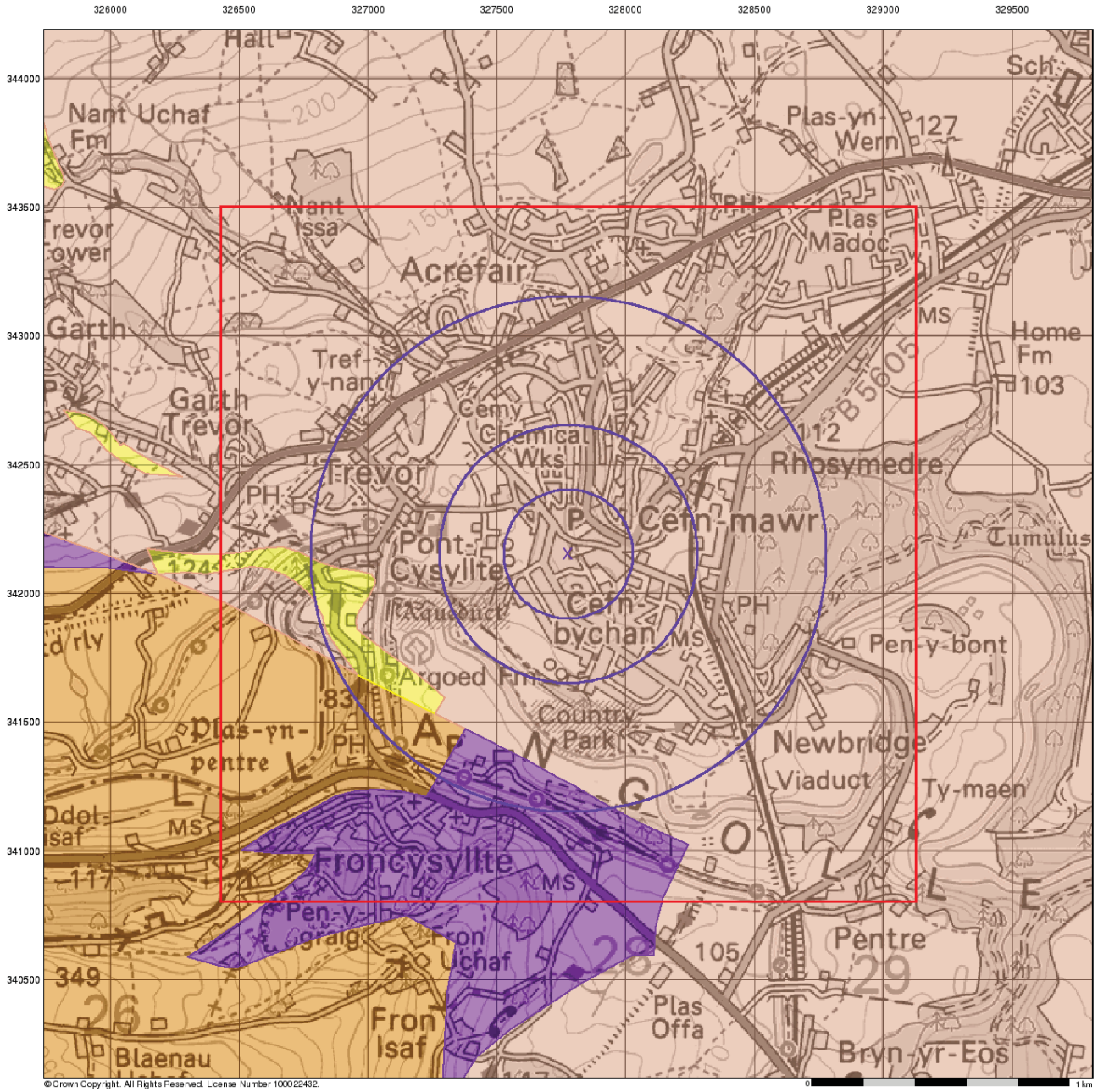
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Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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Bedrock Aquifer Designation

General

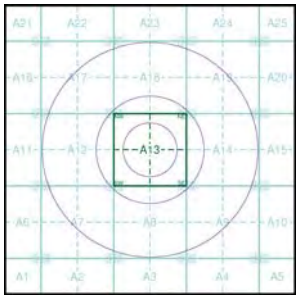
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



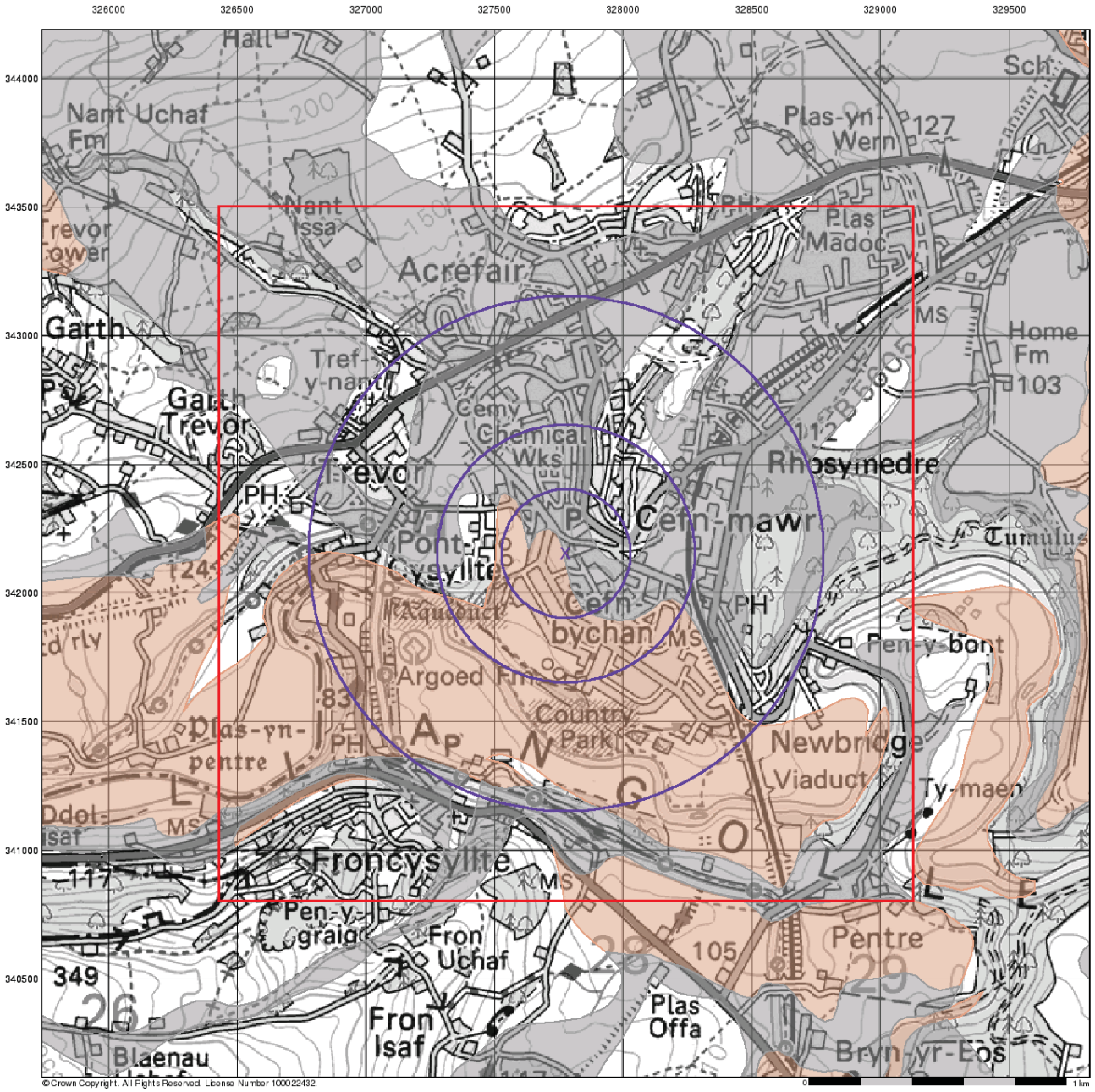
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Superficial Aquifer Designation

General

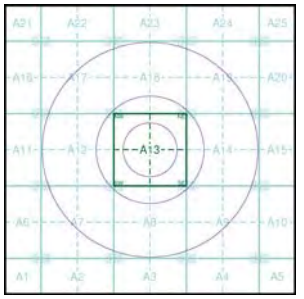
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

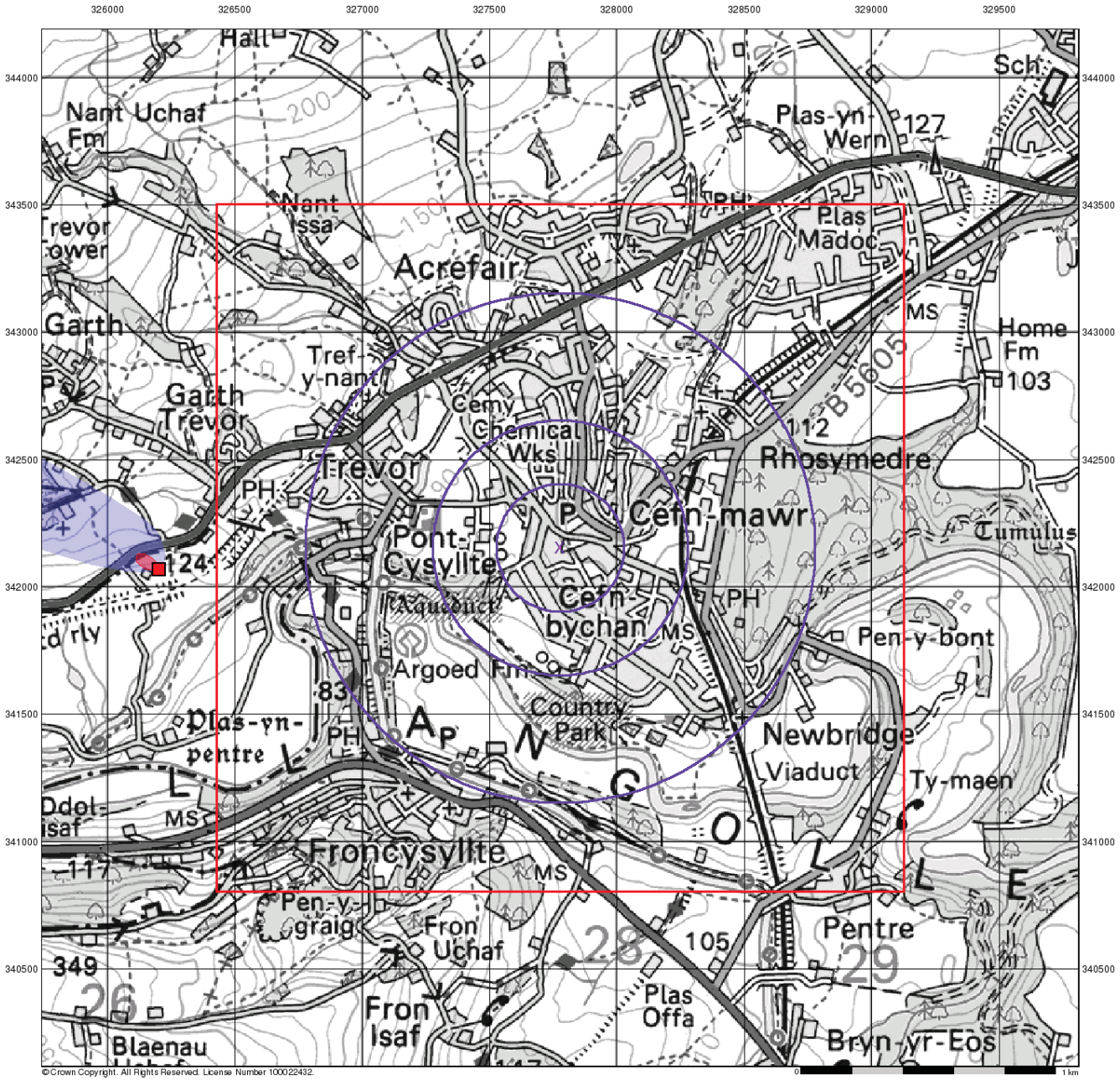


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Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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Source Protection Zones

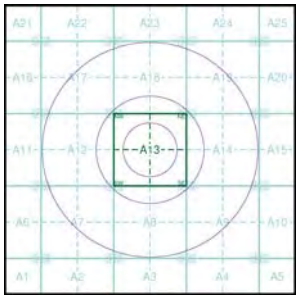
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



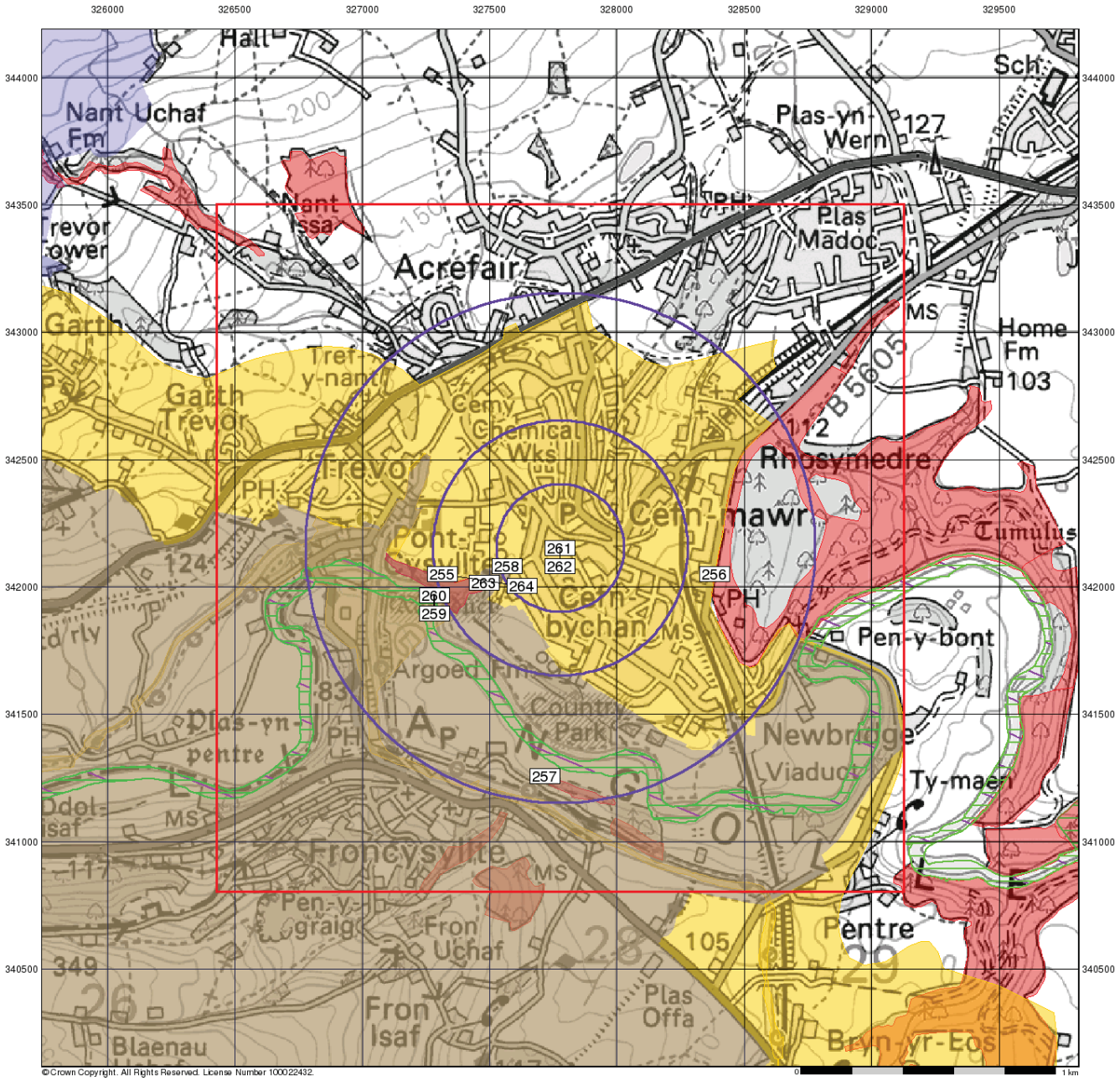
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Sensitive Land Uses

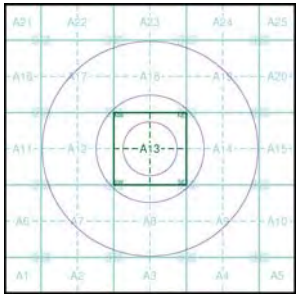
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



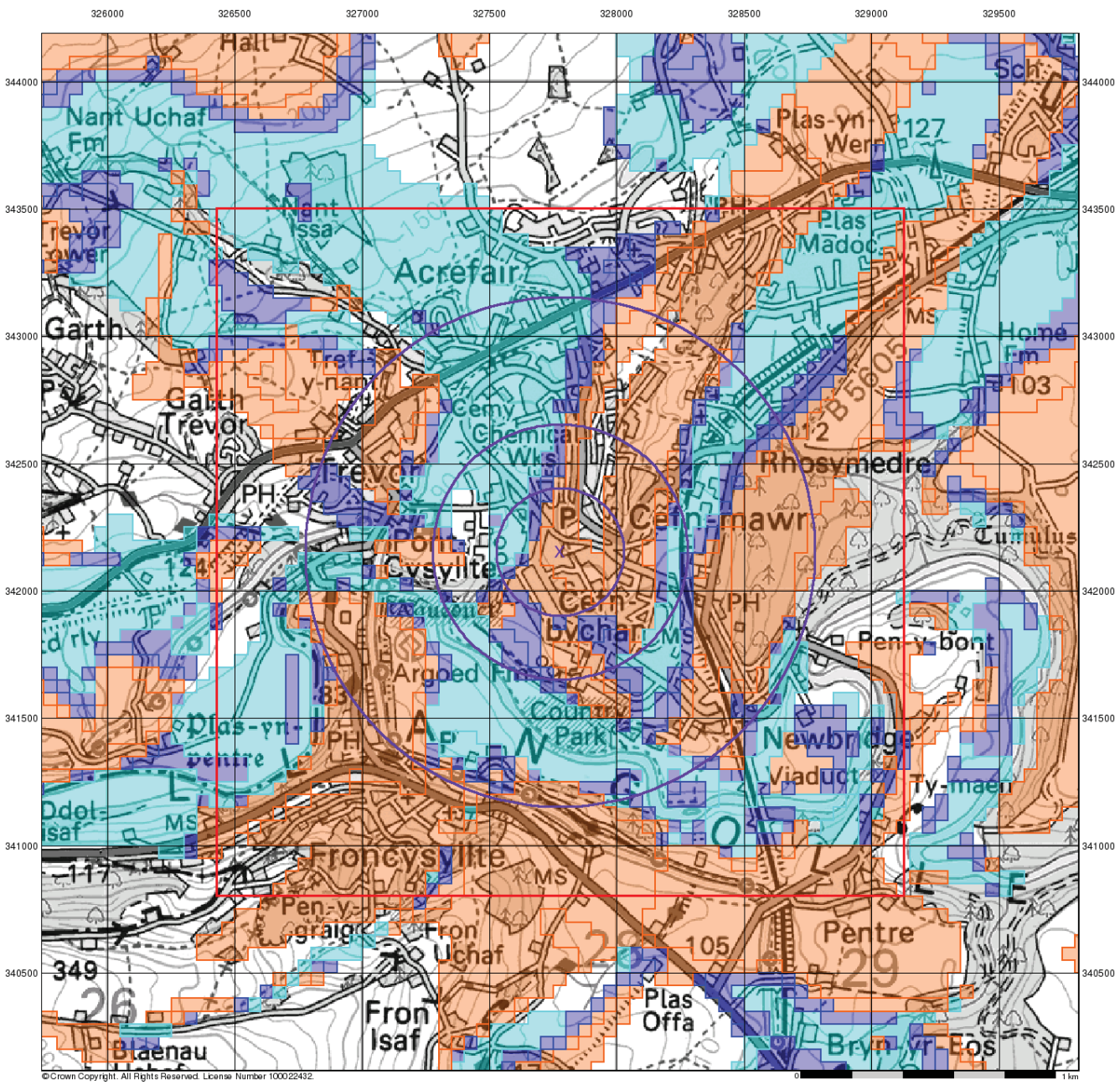
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BGS Flood GFS Data

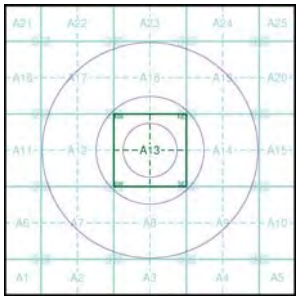
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

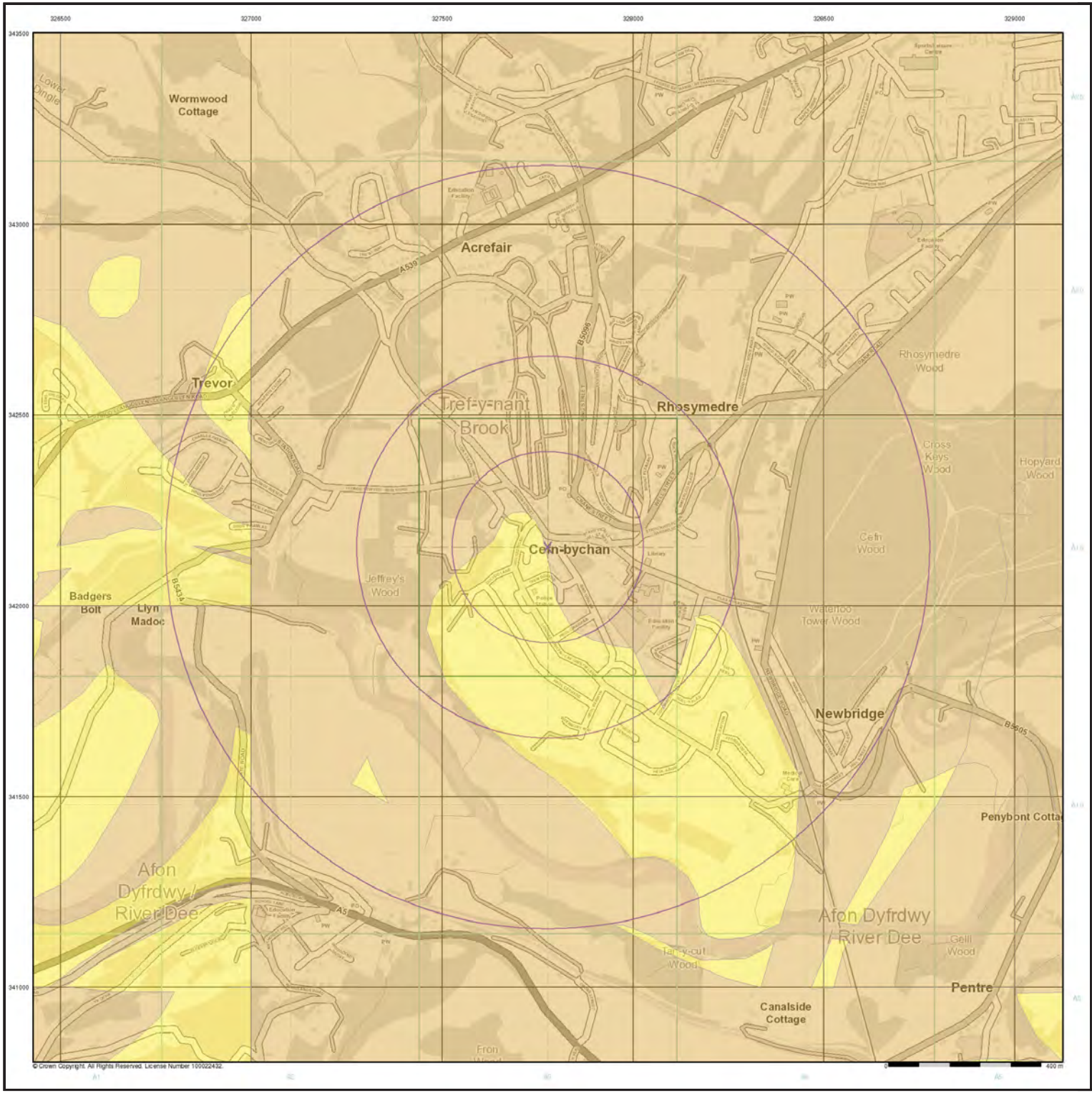
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Customer Ref:	R2470
National Grid Reference:	327780, 342150
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Site Area (Ha):	0.01
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General

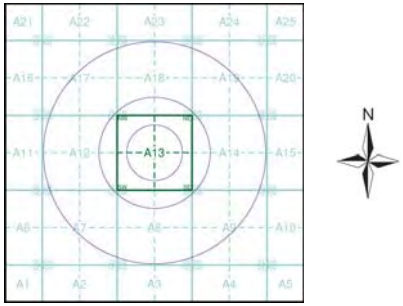
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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General

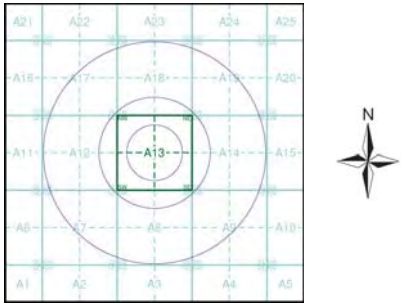
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details:	136984536_1_1
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Search Buffer (m):	1000

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General

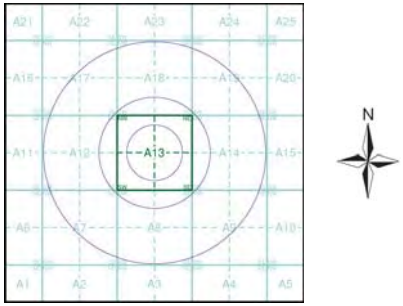
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

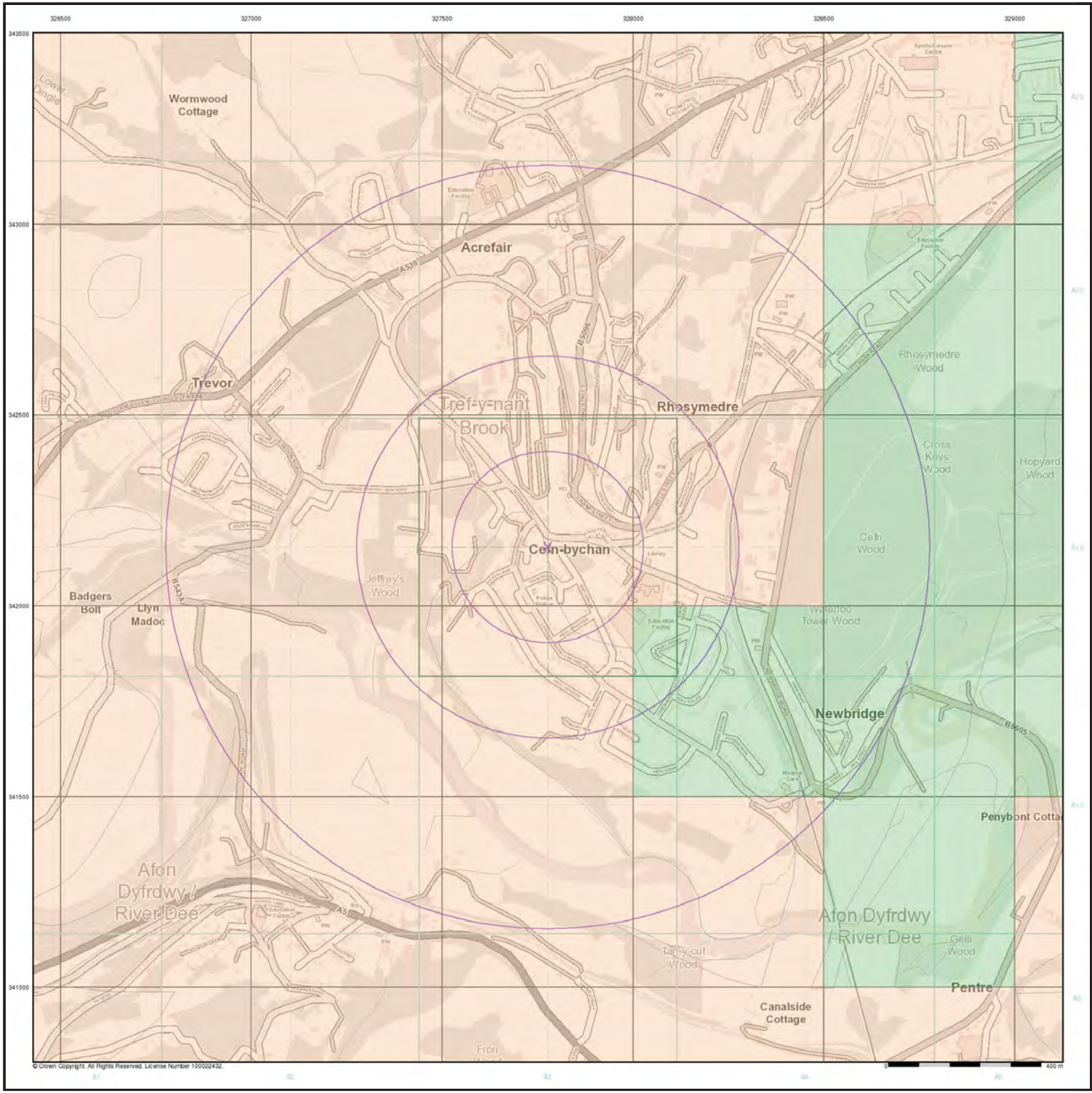
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LANDMARK INFORMATION GROUP

General

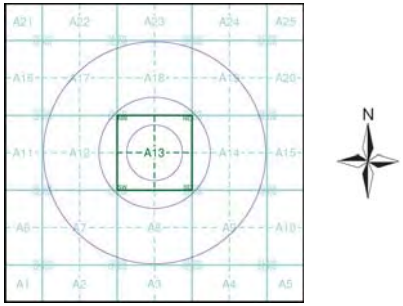
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



Order Details

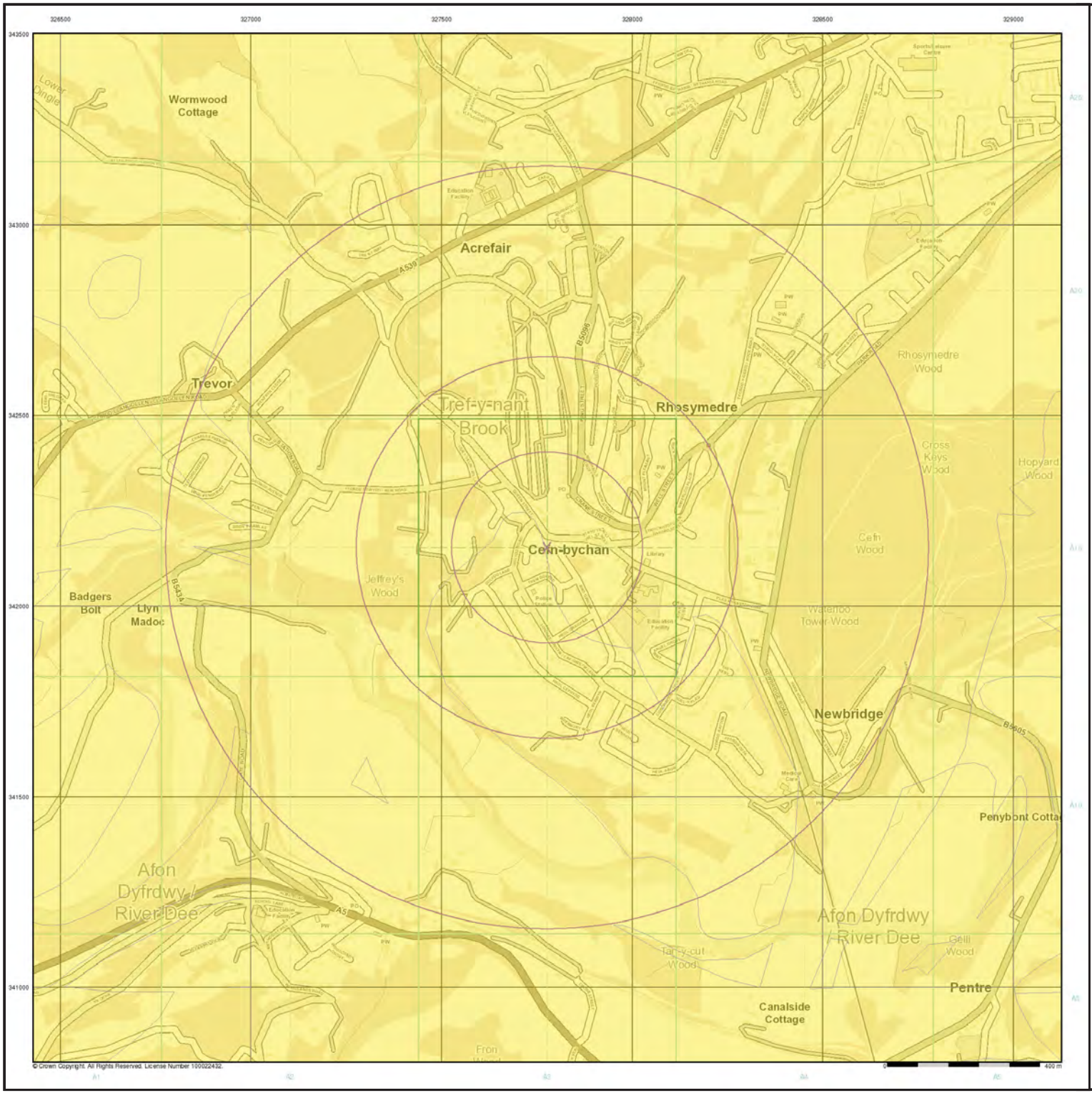
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General

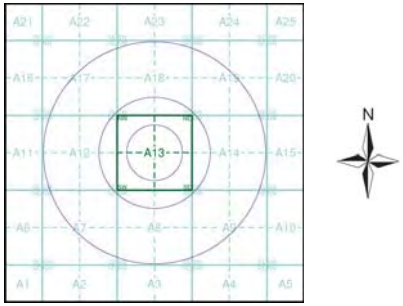
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	136984536_1_1
Customer Ref:	R2470
National Grid Reference:	327780, 342150
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

, 2, Queen Street, Cefn Mawr, Wrexham, LL14 3BD

Landmark INFORMATION GROUP

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

APPENDIX D

NKC Geotech Mining Investigation Report (ref. 1722)

nkc Geotech Ltd
engineering geologist specialising in the investigation and treatment of disused mineworkings

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Wrexham LL11 1BT

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Mining Investigation Report



Queen Street, Cefn Mawr

M A Gregory Construction Ltd
52-53 Westminster Road
Moss
Wrexham
LL11 6DH

1722
4 September 2017



nkc Geotech Ltd

Site

A proposed residential development at Queen Street, Cefn Mawr.

Risk Assessment by
Neil Catlow B.Sc F.G.S Engineering geologist.

Summary of relevant mining information
Publication CIRIA32 'Construction over Abandoned Mineworkings'
Coal Authority Report 51001546732001 dated August 4th 2017
Ordnance Surveys 1:2500 from First Edition 1871 to 1912
Geological Survey 1:10560 plans
Coal Authority Permit 14700

Nkc Geotech Ltd reports:
0441 Queen Street, Cefn Mawr
9141 Queen Street, Cefn Mawr
2176 Queen Street, Cefn Mawr

Investigation results

Ground level
Unchanged throughout the investigation.

Site history
The site is on two levels. The upper part proposed for development has been a car park and concrete domestic garage since 1970 but was formerly the gardens of a short terrace of four cottages which occupied the lower part of the site and was demolished in 1945. This lower area is now overgrown.

Gas testing
There were no methane or carbon dioxide emissions during the investigation period. See borehole logs for gas testing results.

Foundation soils
Locally derived sandstone and sandy clay fill upto 3.5m in thickness overlying brown highly weathered sandstone and shale. See borehole logs for SPT testing results.

Geology
The site lies on Carboniferous Westphalian rocks that form the Ruabon Coalfield, dipping to the east at 1 in 8. These rocks are predominantly shales and sandstones containing seams of coal upto 4.5m in thickness at vertical intervals typically varying from 4.0m to 20.0m. Those coal seams which were of economic importance were given an identity when they were of sufficient quality and thickness to justify extraction by mining from the surface or at depth from mineshafts. Typical names for local coal seams reflect primarily on quality and thickness, for example Yard Coal, Stone Coal and Llwyneinion Half Yard Coal. The site is close to the top of the Productive Coal Measures.

There are plans of mineworkings under the site from Plaskynaston Collieries in the following coal seams:

Two Yard Coal at 73m depth
Quaker Coal at 86m
Main Coal at 97m
Ruabon Yard Coal at 171m



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In addition to these deeper coal seams, there are shallow coal seams mined prior to the Mines Act of 1872 which required colliery owners to keep and preserve plans of their workings. The number of shafts shown on early editions of the Ordnance Survey is evidence of extensive past mining activity in this part of Cefn Mawr. The earliest reference to mining here is a manuscript dated 1707 and the earliest plan is a Plas Kynaston estate plan of 1804.

These shallow seams are:
Cefn Coal close to outcrop on the valley side
Warras Coal perhaps at 30m
John O'Gate Coal perhaps at 45m

There are plans of the Warras Coal being mined north of the site at an estimated depth of 15m in 1860. These workings, and also mining in deeper seams, terminated north of the site at the mineral estate boundary. All the mineplans show the area to contain many minor faults associated with and parallel to the major Cefn Fault which displaces the strata downwards to the east by 130m.

Shallow mining investigation

Coal Authority Permit
Permit 14700 covers the following intrusive investigation for shallow mineworkings.

Past underground coal mining
The Coal Authority believed that there was coal close to surface which could have been mined at shallow depth and therefore an intrusive investigation was carried out by drilling 2 holes to 30m depth in the location of the proposed new dwellings. A previous borehole drilled by myself in 1976 correlates with these two holes and is appended as Bh 3.

No evidence of old coal workings was encountered in any of the boreholes. The Warras Coal will lie deeper than 30m and the Cefn Coal will outcrop on the hillside above the site.

Recorded mine entries
There are no recorded mine entries on or within 20m of the site boundary.

Conclusions

Shallow mineworkings
There was no evidence of coal of workable thickness or past mining activity within 30m of the surface. There is no necessity to take structural precautions or remedial works to mining hazards.

Specialist foundations
There is upto 3.5m of fill overlying weathered rockhead on a steeply sloping site. The choice of foundation design will be determined by the results of a soil investigation and the proposed landscaping of the site.

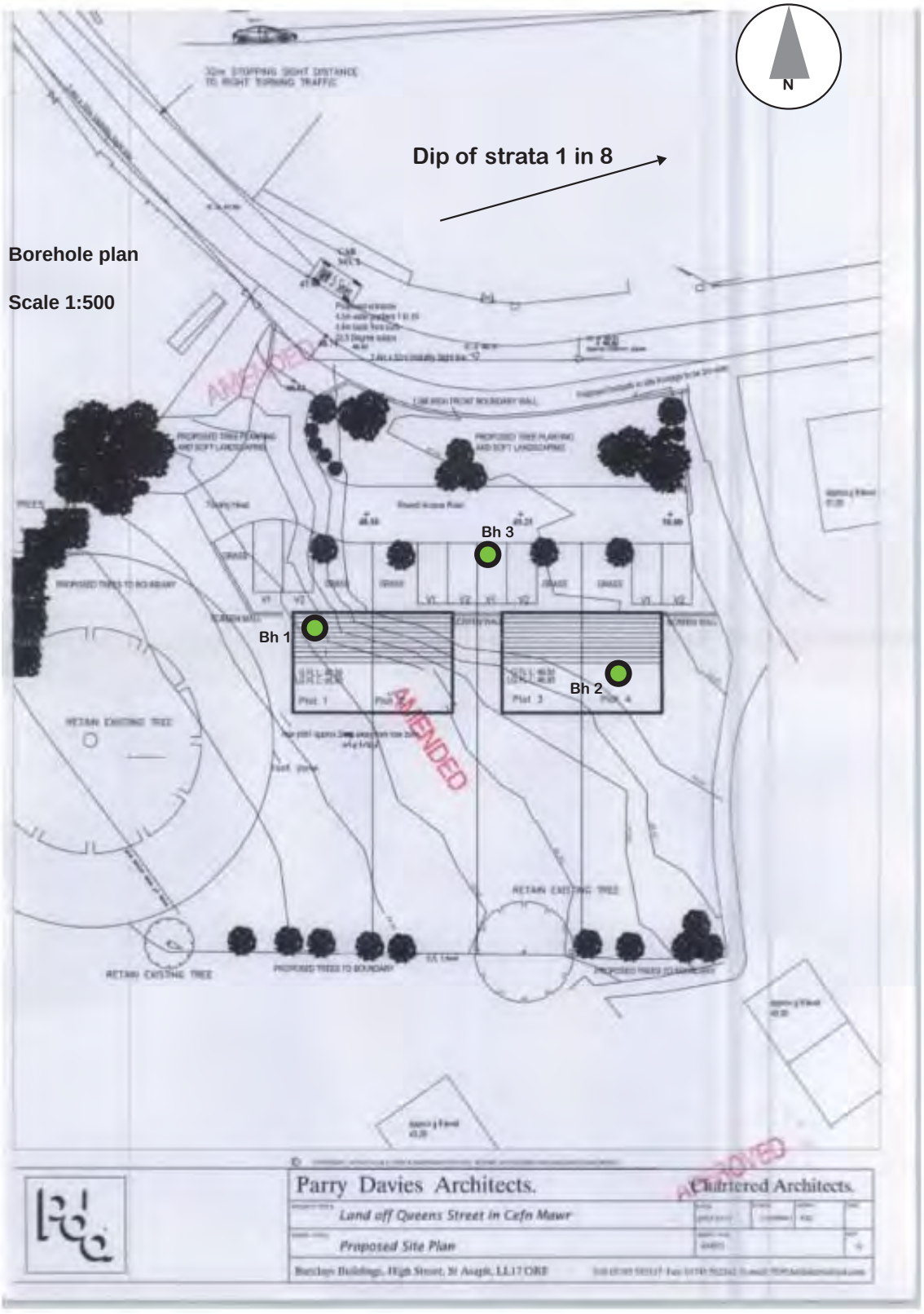
For Nkc Geotech Ltd



Neil Catlow, B.Sc, F.G.S



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Bh 1

REF	1722	**SITE**	Queen Street, Cefn Mawr	**PRINTOUT**	31 Aug 2017
Bh	1	**CLIENT**	M A Gregory Construction Ltd	**SCALE**	1:200
				OSGN	
		TITLE			
				ORIENTATION	vertical
		ORIGIN	printout direct from rig on site	**FLUSH**	water
			drilled & logged by Neil Catlow	**BIT**	75mm T/C

	DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	SECTION
						ground level
0.0	0.0	fill		brown clay with sandstone and brick		
0.5						
1.0					**6 @ 1.0**	
1.5						
2.0					**6 @ 2.0**	
2.5						
3.0					**9 @ 3.0**	
3.5	3.5	sandstone		brown, firm drilling, highly weathered		
4.0						
4.5						
5.0	5.2	shale		grey, firm drilling, occasional black shales		
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5	10.6	shale		black, soft drilling with coal streaks		
11.0	11.0	shale		grey, firm drilling		
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						
19.5						
20.0						
20.5						
21.0	21.2	sandstone		grey, hard drilling		
21.5						
22.0						
22.5						
23.0						
23.5						
24.0						
24.5						
25.0						
25.5						
26.0	26.0	shale		grey, firm drilling		
26.5						
27.0						
27.5						
28.0						
28.5						
29.0						
29.5						
30.0	30.0			bottom of hole		

IN HOLE GAS TESTING

%	O2	20.6
%	CH4	0.0
%	CO2	0.0
%	LEL	0.0
ppm	H2S	0.0
ppm	CO	0.0



drilled and logged by
Neil Catlow B.Sc FGS

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT **www.nkc.co.uk**



nkc Geotech Ltd

Bh 2

REF	1722	**SITE**	Queen Street, Cefn Mawr	**PRINTOUT**	31 Aug 2017
Bh	2	**CLIENT**	M A Gregory Construction Ltd	**SCALE**	1:200
				OSGN	
		TITLE			
				ORIENTATION	vertical
		ORIGIN	printout direct from rig on site	**FLUSH**	water
			drilled & logged by Neil Catlow	**BIT**	75mm T/C

	DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	SECTION
						ground level
0.0	0.0	fill		brown clay with sandstone and brick		
0.5						
1.0					**7 @ 1.0**	
1.5						
2.0					**4 @ 2.0**	
2.5						rockhead
3.0	3.0	sandstone		brown, firm drilling, highly weathered		
3.5						
4.0						
4.5						
5.0	5.1	shale		grey, firm drilling		
5.5						
6.0						
6.5	6.6	shale		black, soft drilling with coal streaks		
7.0	7.0	shale		grey, firm drilling		
7.5						
8.0						
8.5	8.6	shale		thin black shale layer		
9.0						
9.5						
10.0						
10.5						
11.0	11.2	shale		black, soft drilling with coal streaks		
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						
19.5						
20.0						
20.5						
21.0						
21.5						
22.0						
22.5						
23.0	23.2	sandstone		grey, hard drilling		
23.5						
24.0						
24.5						
25.0	25.0	shale		grey, firm drilling		
25.5						
26.0						
26.5						
27.0						
27.5						
28.0						
28.5						
29.0						
29.5						
30.0	30.0			bottom of hole		

IN HOLE GAS TESTING

%	O2	20.6
%	CH4	0.0
%	CO2	0.0
%	LEL	0.0
ppm	H2S	0.0
ppm	CO	0.0



drilled and logged by
Neil Catlow B.Sc FGS

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT **www.nkc.co.uk**



nkc Geotech Ltd

Bh 3

REF	1722	**SITE**	Queen Street, Cefn Mawr	**PRINTOUT**	17 June 1976
Bh	3	**CLIENT**	M A Gregory Construction Ltd	**SCALE**	1:200
				OSGN	
		TITLE	drilled 1976		
				ORIENTATION	vertical
		ORIGIN	printout direct from rig on site	**FLUSH**	air
			drilled & logged by Neil Catlow	**BIT**	89mm DTH

	DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	SECTION
						ground level
0.0	0.0	fill		black ash	not taken	
0.5						
1.0						rockhead
1.5	1.5	sandstone		brown, firm drilling, weathered		
2.0						
2.5						
3.0	3.1	shale		grey, firm drilling		
3.5						
4.0						
4.5	4.3	shale		black, soft drilling with coal streaks		
5.0	5.0	sandstone		grey, hard drilling		
5.5						
6.0	6.0	shale		grey, firm drilling		
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5	9.6	shale		black, soft drilling with coal streaks		
10.0	10.1	shale		grey, firm drilling		
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						
19.5						
20.0	20.0			bottom of hole		
20.5						
21.0						
21.5						
22.0						
22.5						
23.0						
23.5						
24.0						
24.5						
25.0						
25.5						
26.0						
26.5						
27.0						
27.5						
28.0						
28.5						
29.0						
29.5						
30.0						

IN HOLE GAS TESTING

not taken



drilled and logged by
Neil Catlow B.Sc FGS

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