

Caulmert Limited

Engineering, Environmental & Planning
Consultancy Services

Land Adjacent to H-Pack, Davy Way, Llay, Wrexham, LL12 0PG

H-Pack Packaging UK Ltd.

**Erection of 1no B8 Storage and Distribution Building and Associated Access
and External Works at Land Adjacent to H-Pack, Davy Way, Llay**

PHASE I GEO-ENVIRONMENTAL REPORT

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Client: H-Pack Packaging UK Ltd.

Project Title: Erection of 1no B8 Storage and Distribution Building and Associated Access and External Works at Land Adjacent to H-Pack, Davy Way, Llay

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PHASE I GEO-ENVIRONMENTAL REPORT

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1.0 INTRODUCTION

1.1 Details of Commission

- 1.1.1 Caulmert Ltd were commissioned by H-Pack Packaging UK Ltd (“the Client”) to undertake a Phase I Desk Study at land located within Llay Industrial Estate, north of Wrexham (“the Site”). A site location plan is provided as Figure 1.
- 1.1.2 The Client is proposing to develop a new warehouse facility (Development Site) adjacent to the existing H-Pack warehouse and manufacturing building. The proposed footprint of the new warehouse is approximately 14,860m². The height of the warehouse is to be determined however to ensure functionality the warehouse will be a minimum of 15m in height. In addition, the development will include associated service yard and staff parking to the south (135 bays) and additional staff parking to the north (20 bays).
- 1.1.3 A number of options are being considered with regards to the proposed, new access. These options are summarised below:
- New access from Rackery Lane to accommodate both HGV and cars.
 - Modify, the existing access from Davey Way to provide safe two-way HGV movements and modify the existing Rackery Lane access to accommodate cars only.
 - As above, but with all vehicle access via the Davey Way access point.
- 1.1.4 The rest of the existing site roads are to be retained. Other modifications to existing parking arrangements would include the removal of end bays in the road along the north-western boundary of the Site, and the removal of some end bays in the existing car park to the east to accommodate possible Site access from Rackery Lane.
- 1.1.5 For the purpose of this desk study “the Site” includes the whole area of the existing H-Pack site. The proposed “Development Site” comprises the western part of the Site and includes the proposed warehouse, associated car parks and access roads. The layout of the Site and the proposed Development Site layout are shown in Figure 2 and Figure 3 respectively.
- 1.1.6 This report is based on the following information sources:
- i. A Envirocheck report, ref. no. 296712719/09.06.2022 (Appendix 1), including geological, environmental data and historical maps.
 - ii. A Coal Mining Report, ref. no. 296712719/09.06.2022 (Appendix 2),
 - iii. Information obtained from online sources:

- British Geological Survey (BGS) website – <http://mapapps2.bgs.ac.uk/geoindex/home.html>;
- Boreholes logs – “Report of Soils and Foundation Conditions” 1984, Soils and Materials Testing Ltd – obtained from the BGS website (Appendix 3);
- Grid Reference Finder website – <https://gridreferencefinder.com>;
- DEFRA maps website – <https://magic.defra.gov.uk>;
- Coal Authority - Interactive Map Viewer | Coal Authority (bgs.ac.uk);
- UKradon website (UK Health Security Agency) – <https://www.ukradon.org>;
- Zetica UXO Risk Maps – <https://zeticauxo.com/downloads-and-resources/risk-maps/>;
- Natural Resources Wales Flood Risk Map Viewer – <https://maps.cyfoethnaturiolcymru.gov.uk/>

1.2 Limitations of this Study

- 1.2.1 This report is solely for the use of the Client and should not be relied upon by third parties without prior written consent from Caulmert.
- 1.2.2 Information used within this report has been gathered from data sets compiled by third party organisations and purchased on behalf of the Client. The validity and accuracy of this third-party information is outside the control of Caulmert.
- 1.2.3 Interpretation and recommendations contained within this report should not be assumed valid for adjacent areas of land or alternative land uses. They are based upon the proposed layout provided to Caulmert at the time of compiling this report.

1.3 Objectives of Report

- 1.3.1 The objective of this report is to assess potential environmental and geotechnical liabilities associated with the proposed development in support of a potential planning application and to aid in the design of the ground investigation for the future Development.

1.4 Scope of Report

- 1.4.1 The scope of works consists of the following:
 - a review of third-party information;
 - a site walkover survey;
 - an assessment of potential sources of pollutants on the Site and in the immediate surrounding area; and
 - derivation of a preliminary conceptual site model (CSM) identifying potential sources, pathways, and receptors of contaminants.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Site Description and location plans.

- 2.1.1 The Site is irregular in shape comprising the existing H-Pack warehouse, existing car park, access roads, electrical substation, and an open field partially occupied by a football pitch, which is the area of the proposed main development – new warehouse, service yard and car parks (Development Site).
- 2.1.2 A selection of site walkover photographs is presented in Appendix 3.
- 2.1.3 Generally, the area is a mix of industrial land use and the open undeveloped land used as local amenity (football pitch).
- 2.1.4 The Site is bounded by agricultural lands to the north and north-west where the Site boundary is defined by an un-named watercourse with overgrown vegetation. The north-eastern boundary is formed by Rackery Lane and is separated from the Site by mature trees and a fence. The south of the Site is bounded by SHARP plc's manufacturing facility comprising a warehouse, access roads, and car parks. The southern tip of the Site links with Davy Way, and to the south-east is bounded by industrial warehouses forming part of the Llay Industrial Estate.
- 2.1.5 The immediate surrounding area is a mix of industrial (Llay Industrial Estate to the south and south-west) and agricultural land use (agricultural field to the northwest, north and east).
- 2.1.6 The Site location plan is presented as Figure 1 below and the Site details in the Table 1.



Figure 1: Site Location Plan (DEFRA maps website).



Figure 2: Google Earth Image 2021.

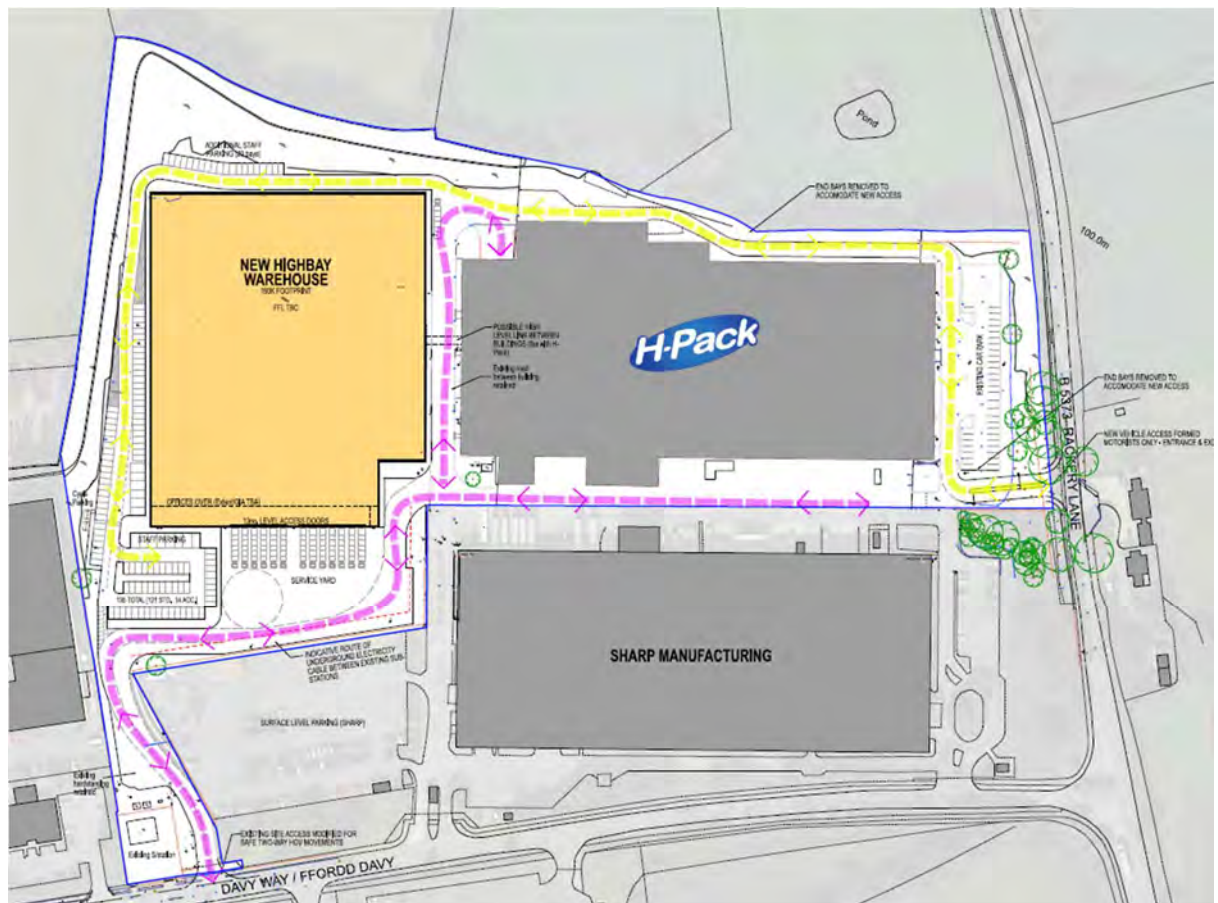


Figure 3: Indicative Site Layout.

2.2 Topography and Site Walkover

2.2.1 The Caulmert site walkover was carried out on 22nd June 2022.

2.2.2 The Site is generally flat lying with the lowest point at the entrance from Davy Way at ~95m AOD (Above Ordnance Datum) and the highest points towards the boundary along Rackery Lane at ~102m AOD. The centre of the Development Site is at ~ 99m-100m AOD. The slight difference in levels was noted during the site walkover where the football pitch to the east of the open field is slightly raised. The overgrown northern boundary is at a level of approximately 101m AOD with a gentle slope down to the access roads at ~98m. Another slope and difference in levels was observed to the east between the existing car park ~99m AOD, and Rackery Lane at ~102m AOD.

2.2.3 The watercourse, which runs along the northern and north-western boundary, is inaccessible due to overgrown vegetation. At the time of the walkover the watercourse was dry, and a flow direction could not be confirmed. It is anticipated that the watercourse fills with water during periods of prolonged/heavy rainfall and/or in wintertime.

- 2.2.4 The Development Site was observed as an open field which included a football pitch on it's western. The majority of the Development Site is covered by grass however some discrete concrete slabs were observed across the area.
- 2.2.5 The open field is bound to the west, to the north and to the east by access roads.
- 2.2.6 The access road to the north is partially occupied by temporary storage units.
- 2.2.7 There is an old storage building to the north-western corner of the Development Site.
- 2.2.8 Currently, HGV, car and pedestrian access is from Davy Way to the South.
- 2.2.9 The rest of the Site, to the east of the Development Site is occupied by the existing H-Pack warehouse, access roads, and H-Pack car park at the eastern end of the wider Site.

Table 1. Site Details

Site Details	
Address	Land Adjacent to H-Pack, Davy Way, Llay, Wrexham, LL12 0PG
National Grid Reference	332 350; 356 860
Local Authority	Wrexham County Borough Council
Site Area	ca. 3.54 Ha – development area
Current Nature of the Site	The Site comprises an open field to the west, currently occupied partially by a football pitch to the east, which is the main Development Site for the proposed warehouse, including access roads. The rest of the Site is occupied by the existing H-Pack warehouse, existing access roads, H-Pack car park, a landscaped area to the north-east and the electrical substation to the south-west
Surrounding Area	North: open agricultural fields
	North-west: open agricultural fields
	South-west: Llay Industrial Estate, warehouses, access roads, car parks.
	South: Sharp Manufacturing warehouse with associated access roads and car parks.
	East: Rackery Lane (B5373), agricultural fields, and occasional residential houses along Rackery Lane.
	East: open agricultural fields
Proposed Use	Industrial: a new warehouse facility adjacent to existing H-Pack warehouse and manufacturing building. associated service yard and a staff parking to the south (135 bays) and additional staff parking to the north (20 bays). Optional new site access from Rackery Lane.

3.0 SITE HISTORY AND CURRENT STATUS

3.1 Historical Development

3.1.1 A summary of significant features, developments, and land uses shown on Envirocheck historical maps is provided in Table 2 below.

Table 2. Summary of Historical Maps

Map		Site	Surrounds
year	scale		
1872	1:2,500	The Site is agricultural land comprising a set of fields with lines of trees along the fields' boundaries, a copse to the east with a possible watercourse, a group of two ponds surrounded by trees to the west (east of the Development Site) and a patch of osier or possible pond in the west.	The Site is surrounded by agricultural fields, a road immediately to the east, a rural cottage 50m to the south-east, farm buildings named Apothecaries Hall 200m to the north. There are a number of ponds in the surrounds, almost in all directions at variable distances.
1879	1:10,560	No significant changes to Site	The road immediately to the east is named Rackery Lane. A woodland named Bryn-y-gaer Wood is mapped 780m to the north-west. River Alyn along the riverbank woodland is about 1000m to the east. A watercourse, tributary of River Alyn is located about 350m to the north-west. Brick Works and clay pit is shown 670m to the N-NW. A railway line is shown ca. 1100m to the west.
1879-1880	1:2,500	A group of two ponds to the west (east of the Development Site) comprises now three ponds. No other changes to surrounds.	The Apothecaries Hall 200m to the north is now named Rackery Hall. No other changes to surrounds
1899	1:2,500	No significant changes to Site	No significant changes to surrounds
1900	1:10,560	No significant changes to Site	Brick Works and clay pit 670m to the N-NW is no longer mapped. The Bryn-y-gaer Wood mapped 780m to the north-west is now shown as quarries. An old shaft is mapped ca. 750m to the south-

			west, an old colliery shown 1000m to the south-west. Sand pit is shown 730m to the east.
1912	1:2,500	No significant changes to Site	No significant changes to surrounds
1914	1:10,560	No significant changes to Site	The Bryn-y-gaer area is shown as an old quarry with a reservoir and trees. No other significant changes to surrounds
1938	1:10,560	No significant changes to Site	Llay Main Colliery is mapped between 300m and 500m to the SE. Housing development between 800m and 1000m to the SE.
1954	1:10,560	No significant changes to Site	Llay Main Colliery extends now between 300m and 500m to the SE with new buildings. A mineral railway bifurcation is mapped connecting the railway line N-S, a railway siding, and a refuse or slag heap extends between 300m and 700m to the south. A reservoir is shown ca. 260m to the SE. Sand pit to the east increases the surface area, and it's mapped between 550m and 750m of the Site.
1962	1:2,500	The pond in the far west of the Site is no longer shown and appears to have been infilled. The northern most pond from the group of three ponds is no longer defined and is shown as a 'marshy' area.	An osier is shown between 50m and 150m to the south-east. No other significant changes to surrounds
1964	1:10,000	No significant changes to Site	Sand pit to the east increases the surface area to the north-west. No other significant changes to surrounds
1968	1:10,000	No significant changes to Site	Sand pit to the east is described as <i>active workings</i> . No significant changes to surrounds
1975	1:2,500	No significant changes to Site	The colliery buildings are no longer shown, instead, industrial buildings are mapped between

			ca. 260m and 700m to the SE along Rackery Lane, and comprising textiles factory, food products factory, engineering works, animal foods factory, offices and a garden centre.
1980-1991	1:2,500	No significant changes to Site	No significant changes to surrounds
1981	1:10,000	No significant changes to Site	The refuse or slag heap extending between 300m and 700m to the south is now shown as a disused tip. The mineral railway bifurcation and the railway siding to the south are now dismantled. Sand pit to the east extends further to the south, now 400m of the Site.
1984	1:2,500	The Site appears to have been cleared and all the ponds have been infilled with no features shown on Site.	A factory is shown 50m south-west of the Site. Other buildings between 120m and 250m to the south. Davy Way is now mapped.
1986	1:2,500	The southern tip of the Site is occupied by a car park. No other significant changes.	A warehouse building shown immediately to the south. The buildings and factories to the south and the south-east are named Llay Industrial Estate.
1990	1:2,500	An electric substation is mapped in the southern tip of the Site. A warehouse (current H-Pack warehouse) occupies the eastern portion of the Site. Access roads, and a car park to the north-west are shown.	Further development of the Llay Industrial Estate to the south comprising new buildings.
1991	1:2,500	Earthworks slopes are shown along the northwest, west and further to the southwest on the wider industrial estate, indicating that the Site and the wider area has been developed on a partially filled development platform, Possibly utilising colliery spoil from the former Llay Main Colliery that is been reclaimed at this time.	No significant changes to surrounds

1992	1:10,000	No significant changes to Site	Sand pit to the east extends further to the south, now 288m of the Site. And the western part is shown as filled ground. No other significant changes to surrounds
1993	1:2,500	No significant changes to Site	No significant changes to surrounds
1996	1:2,500		
2000	1:10,000		
2006	Google Earth Image	 Figure 4a. Google Earth Image 2006 Sand pit (quarry) 390m to the east and colliery refuse heaps 340m to the south.	
2022	1:10,000	No significant changes to Site	Further development of the Llay Industrial Estate to the south and the southwest comprising new buildings and access roads.

Historical Summary

- 3.1.2 The Envirocheck mapping shows that the Site was occupied by agricultural fields from the earliest available historical map 1872 until 1990, with three possible infilled ponds located within the Development Site.
- 3.1.3 From 1990 the Site is part of the Llay Industrial Estate and is occupied by H-pack warehouse with associated access roads and car parks.
- 3.1.4 The Development Site itself continues as a grassed open field and has never been developed.
- 3.1.5 The surrounding areas are shown as agricultural lands from 1872 until 1938. From 1938 mining activity is shown, Llay Main Colliery is mapped between 300m and 500m south of the Site. In 1954 the Colliery is shown with associated railway line and refuse and slag heaps. The mining activity ceases before 1981, in 1981 the former Colliery is shown as an area of industrial warehouses and the railway is dismantled, tips related to mining are shown as disused. The current SHARP warehouse immediately south of the Site is shown from 1986 and the area along other warehouses is named as Llay Industrial Estate.
- 3.1.6 It is evident that some fill works were undertaken to create development platforms for the Site and the wider area, and it is likely that fill material was sourced from the nearby spoil tips of the Llay Main Colliery, which was being redeveloped at this time.
- 3.1.7 A sand pit is first shown in 1900 at a distance of 730m east of the Site. From 1954 until 1981 the surface area of the sandpit (quarries) increased to the north-west and to the south. In 1992 the western part of the quarry is mapped as filled ground. The Google Earth images show the whole area of the former quarry (sand pit) as reclaimed land.
- 3.1.8 Potentially contaminative historical land uses have been identified, i.e. the historical landfill 288m to the east of the Site (555m from the Development Site), and former Colliery 250m to the south. Considering the distance to the Development Site and the surrounding historical development of the area the risk posed by these potentially contaminative uses may be considered as low.

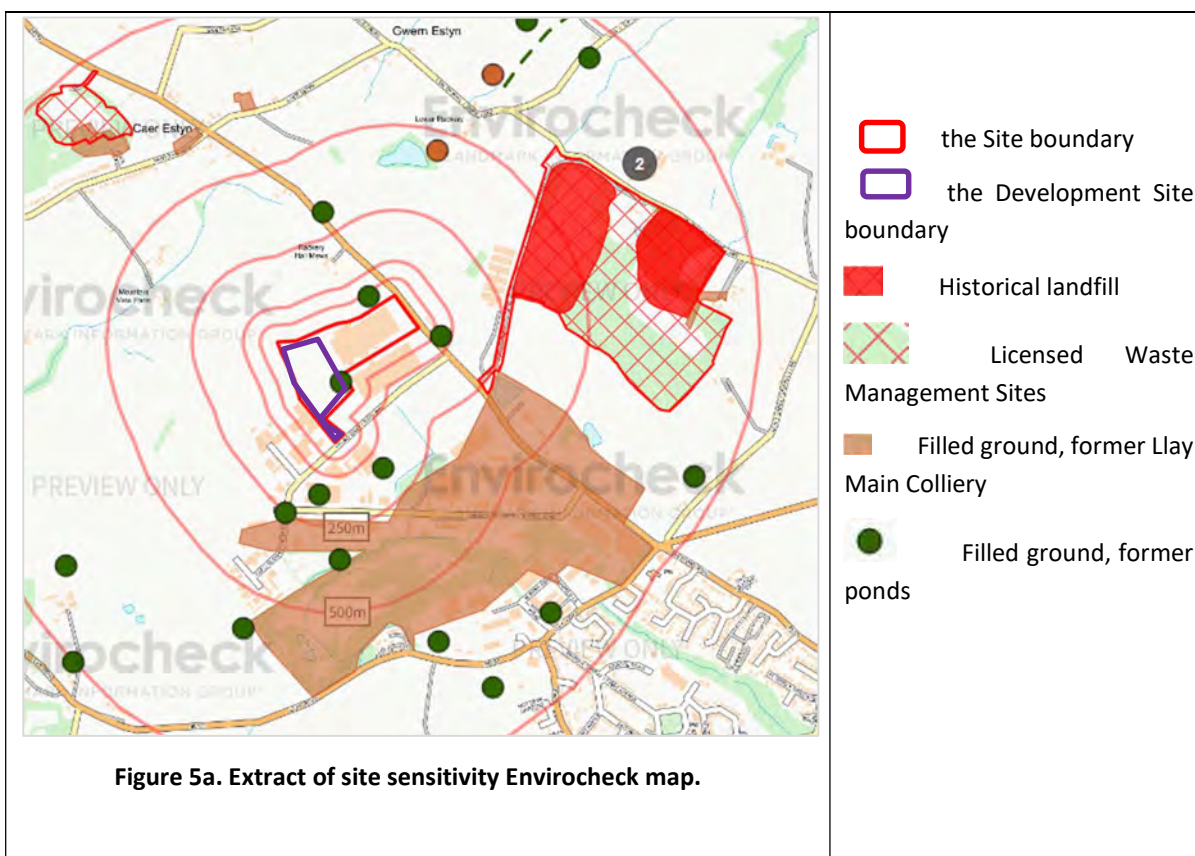
3.2 Environmental Database

- 3.2.1 An Envirocheck report (ref 296712719/09.06.2022) and a Coal Mining Report (ref 296712719-2/09.06.2022) were procured and are presented as Appendix 1 and Appendix 2 respectively. The pertinent information from the reports is presented in Table 3.

Table 3. Summary of Environmental Information

Reference	Description
Agency and Hydrological	
Groundwater Vulnerability	Superficial Aquifer – low vulnerability secondary aquifer Bedrock Aquifer - low vulnerability secondary aquifer
Bedrock Aquifer Designations	Secondary Aquifer
Superficial Aquifer Designations	Secondary Aquifer Undifferentiated
Nearest surface water feature, and other watercourses	The nearest watercourse, unnamed feature, is located along the northern and the north-western boundary of the Site. Further unnamed watercourses: • 160m to the south. • 365m to the north-west, tributary of Alyn River • 335m to the south • 535m to the north-east Rivers: • River Alyn – 984m to the east of the Site.
Discharge Consents	There are five recorded discharge consents within 500m which are: • 4m N, sewage discharge • 401m SE, unspecified • 418m SE, site drainage • 477m N, sewage discharge – pumping station • 500m SE, trade discharge, site drainage
Prosecutions Relating to Controlled Waters (potentially harmful discharges to public sewers)	None recorded within 500m of the Site.
Pollution Incident to Controlled Waters	There is one significant incident, category 2, and seven minor incidents, category 3, within 500m of the Site boundary: • 71m to the east, significant incident category 2 in 1991, farm slurry • 131m to the south, minor incident, category 3 in 1994, industrial solid waste • 153m to the south-east, minor incident, category 3 in 1994, cooling water • 178m to the south, minor incident, category 3 in 1994, algae • 218m to the south, minor incident, category 3 in 1998, spillage of inorganic chemicals

	• 247m to the east, minor incident, category 3 in 1995, oils leachate • 335m to the north-east, minor incident, category 3 in 1991, unknown • 441m to the east, minor incident, category 3 in 1991, effluent discharge, mud, clay.
Groundwater Abstractions	None recorded within 500m of the Site.
Surface Water Abstractions	None recorded within 500m of the Site.
Flood Risk	There is no risk of flooding from rivers without defence in the vicinity of the Site.
Groundwater Flooding	The Site is within the area with limited potential for groundwater flooding to occur at surface, however, the south-western area of the Site has potential for groundwater flooding of property situated below ground level.
Waste	
Licensed Waste Management Sites	There is one licensed waste management facility located with 500m of the Site, 232m to the east.
Landfill and other Waste Sites	A historical landfill site is located 288m to the east of the Site (555m from the Development Site).
Potentially Infilled Land	Filled ground, former ponds, in the south-eastern part of the Development Site. Filled ground (pits, quarries), former Llay Main Colliery, ca.250m south of the Site and the Development Site.
Registered Disposal Site	Scrapyard 289m to the south.



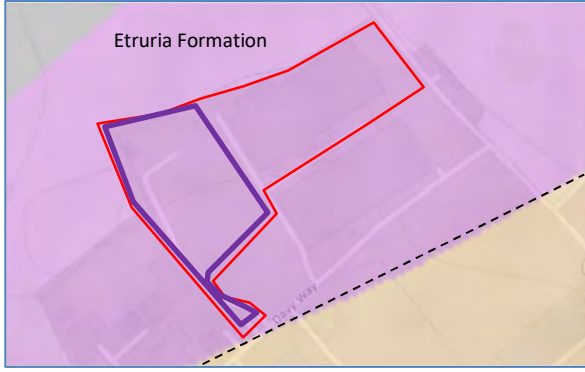
Geological

Geology

The BGS online geological maps (1:50,000 and 1:625,000) indicate the following ground conditions at the Site:

Superficial deposits

- Glacial Till, Devensian - Diamicton. Sedimentary superficial deposit formed between 116 and 11.8 thousand years ago during the Quaternary period.
- Alluvium - Clay, silt, sand and gravel. Sedimentary superficial deposit formed between 11.8 thousand years ago and the present during the Quaternary period.

	 Figure 5b. Extract of the BGS map – superficial deposits Bedrock - Etruria Formation mudstone, sandstone and conglomerate. Sedimentary bedrock formed between 319 and 308 million years ago during the Carboniferous period.  Figure 5c. Extract of the BGS map - bedrock Faults - An inferred fault SW-NE is located immediately to the south of the southern tip of the Site.  the Site boundary  the Development Site boundary
Superficial Engineering Geology (BGS)	- Description: Firm to very stiff or hard slightly gravelly sandy CLAY with interbeds of laminated clay/silt and beds/lenses of sand and gravel. Often fissured, particularly in the upper few metres. Low to high permeability flow dominantly through lenses/interbeds of sand and gravel. - Foundations: Variable but generally good foundation conditions dependant on shear

	strength, consolidation characteristics and presence of water-bearing sand and silt layers/lenses. Differential settlement possible where foundations overlap fine and coarse soils. • Excavation: Easy digging. Excavations likely to require immediate support due to water-bearing layers/lenses of silt, sand and gravel. • Engineered Fill: Suitable as general cohesive fill depending on plasticity and water content. Generally, should be placed as soon as possible after excavation and subject to minimum construction traffic when wet. • Site Investigation: Important to determine deposit thickness and lithological variation, including the presence of laminated silts and clays and water-bearing sand and gravel layers.
Coal Mining The Site is in area which may be affected by coal mining activity. A coal mining report was obtained from the Coal Authority. (Ref 296712719-2/09.06.2022) Appendix 2.	• The Site is in area which may be affected by coal mining activity.—The property is in a surface area that could be affected by underground mining in 3 seams of coal at 570m to 790m depth, and last worked in 1962. • The property is not within a surface area that could be affected by present underground mining. • The property is not in an area likely to be affected by any planned future underground coal mining. • There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property. • The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining. • The property is not within the boundary of an opencast site from which coal has been removed by opencast methods • The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods. • There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

	- The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994. - The Coal Authority has no record of a mine gas emission requiring action. - The property has not been subject to remedial works, by or on behalf of the Coal Authority.
Radon	The Development Site lies within an area of elevated radon potential. Maximum radon potential is 5-10 %.
Ground Stability Hazards (Development Site)	- Potential for collapsible ground – very low - Potential for compressible ground – no hazard - Potential for ground dissolution – no hazard - Potential for landslide stability – very low - Potential for running sand – very low - Potential for shrinking and swelling clay – very low
Industrial Land Uses	
Potentially Contaminative Activities (list of commercial/industrial premises close to Site with potential for contamination)	There is a number of active entries to the south, south-west and south-east within the Llay Industrial Estate recorded within 500m of the Site which are listed below. 101m to the south-west, Sheet Metal Work 148m to the south, garage services, 140m to the south-west, wood products, 167m to the south-west, electricity equipment, 185m to the South, laboratory equipment, 193m to the south, waste disposal services, 211m to the south-west, cable and wire equipment manufacturers, 226m to the south, electronic component manufacturer, 236m to the south, cranes hire, sales and service, 250m to the south, vehicle services and repairs, 271m to the south, scrap metal merchants, 325m to the south-east, plastic products manufacturers, 377m to the south-east, mould manufacturers,

	• 380m to the south-east, used car dealers, • 421m to the south-west, mechanical engineers, • 423m to the south-east, garage services, • 436m to the south-east, garage services, • 437m to the south-east, catering equipment services and repairs, • 479m to the south-east, fork-lifts hire and sales, Given the nature and distance from Site these are unlikely to be a significant risk.
Hazardous Substances	
COMAH/NIHHS Sites (Dangerous or Hazardous Sites)	None recorded within 500m of the Site.
Explosive Sites	UXO risk maps show the Site to be within a low-risk area.
Planning Hazardous Substance (consents/enforcements)	None recorded within 500m of the Site.
Sensitive Land Uses	
Local Nature Reserve/ Site of Special Scientific Interest	None recorded within 1000m of the Site
Nitrate Vulnerable Zone	On the eastern portion of the Site, 200m east of the Development Site. Pulford Brook Nitrate Vulnerable Zone.
Ancient Woodland	None recorded within 500m of the Site. The nearest ancient semi-natural woodlands are recorded between 617m and 981m of the Site.
Ground Gas	A historical landfill has been identified 288m to the east of the Site (555m of the Development Site). Considering the distance to the Development Site the risk may be considered as low. Generally, no significant Made Ground deposits are anticipated to be present on Development Site. However, infilled ponds onsite maybe a localised ground gas source.

3.3 Previous Reports

- 3.3.1 The boreholes logs of the “Report of Soils and Foundation Conditions” 1984, Soils and Materials Testing Ltd, are accessible on the BGS (British Geological Society) website. The report is not available, but the boreholes’ logs have been reviewed.
- 3.3.2 Historical exploratory hole logs presented in Appendix 4. The position of the historical exploratory holes is presented in Figure 6 and Appendix 4.

Table 4: Historical Exploratory Holes - references

Hole ID	BGS reference	Location
BH1	SJ35NW364	Sharp warehouse – NE corner
BH2	SJ35NW365	H-Pack warehouse - West
BH3	SJ35NW366	Access road between Sharp and H-pack warehouses
BH4	SJ35NW367	Sharp warehouse - East
BH5	SJ35NW368	Sharp warehouse - East
BH6	SJ35NW369	Off SW corner of Sharp warehouse
BH7	SJ35NW370	Off Sharp warehouse to the west, eastern boundary of the Development Site
BH8	SJ35NW371	Open field to the east– proposed new warehouse
BH9	SJ35NW372	H-Pack warehouse - NE
BH10	SJ35NW373	H-Pack warehouse - South
BH11	SJ35NW374	H-Pack warehouse - South
BH12	SJ35NW375	H-Pack warehouse - centre
	borehole within the Development Site, proposed Highbay warehouse	
	boreholes within the Site	
	boreholes off the Site (SHARP warehouse)	

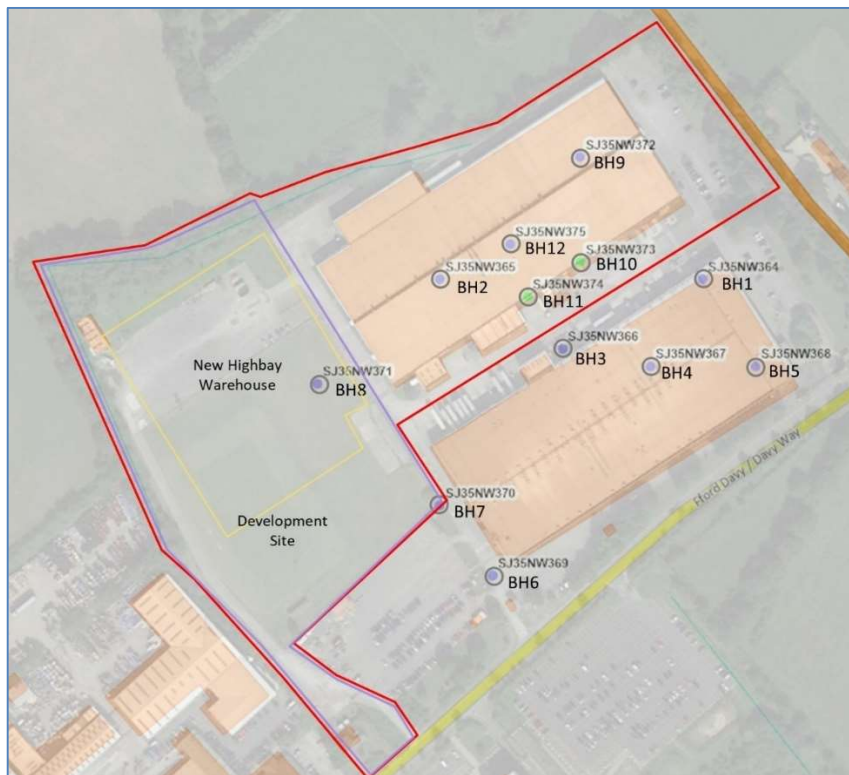


Figure 6: Location of the historical boreholes (BGS website)

- 3.3.3 The historical records revealed that the general strata succession is Made Ground underlain by Glacial Till, followed by Glacial Sand in 4 locations (BH1, BH5, BH6 and BH7). Alluvium deposits are present in the area of existing H-Pack warehouse (BH9, BH10, BH11 and BH12).
- 3.3.4 Made Ground was recorded in all boreholes from ground level down to depths of 0.5m (BH8) – proposed Highbay warehouse, and between 3.2m and 5m (BH2) in the area of the existing H-Pack warehouse. Made Ground in the area of Sharp warehouse was recorded down to depths of between 1.5m and 4.7m.
- 3.3.5 Made Ground is represented in general by *stiff, locally soft, yellow/grey/red-brown clay, sandy clay, silty clay with pebbles, locally streaks of grey silt, traces of coal*. Locally crushed rock was recorded at the base of Made Ground.
- 3.3.6 Alluvium is represented by *very soft to soft fibrous organic dark brown to black peat, very soft to soft dark brown silt/clay, and brown sand*.
- 3.3.7 Glacial Till is represented by *stiff, locally soft to firm, red brown to grey-brown clay, locally sandy clay, with pebbles, occasional cobbles and boulders*
- 3.3.8 The Glacial Sand is represented by *dense to very dense orange-brown, fine to medium grained sand, locally coarse grained with small pieces of angular limestone*.

- 3.3.9 The boreholes BH7 (SJ35NW370) and BH8 (SJ35NW371) are located within the Development Site. The Made Ground was recorded from ground level to depths of 0.5m and 2m. Made Ground is represented by brown, grey clay with traces of coal. Glacial Till was encountered from 0.5m and 2m down to depths of 8.3m and 10m and represented by stiff brown slightly gravelly clay with partings of silt. A granular layer was encountered in BH7 underlying clay from 8.3m to the base of the boreholes at 10m and represented by medium dense to dense orangish brown fine-grained sand.

Table 5. Summary of Ground Conditions from historical boreholes

Hole ID	Made Ground	Alluvium			Glacial clay	Till	Glacial Sand
		Peat	Very soft to soft silt or clay	Sand			
BH1 SJ35NW364	0-3.50				3.50-7.70		7.70-10.00
BH2 SJ35NW365	0-5.00				5.00-10.00		
BH3 SJ35NW366	0-3.50				3.50-8.00		
BH4 SJ35NW367	0-3.10				3.10-10.00		
BH5 SJ35NW368	0-4.70				4.70-7.30		7.30-10.00
BH6 SJ35NW369	0-1.50				1.50-6.75		6.75-10.00
BH7 SJ35NW370	0-2.00				2.00-8.30		8.30-10.00
BH8 SJ35NW371	0-0.50				0.50-10.00		
BH9 SJ35NW372	0-3.20	3.20-5.10			5.10-10.00		
BH10 SJ35NW373	0-4.70	4.70-5.40	5.40-6.50		6.50-15.00		
BH11 SJ35NW374	0-4.30	4.30-6.80	6.80-10.20		10.20-12.50		
BH12 SJ35NW375	0-4.30	4.30-6.65	6.65-7.70	7.70-8.10	8.10-10.00		

3.4 Flood Risk

- 3.4.1 According to Natural Resources Wales website (Development Advice Map) most of the Site lies within Zone A considered to be at little or no risk of fluvial flooding. The central part of the Site, existing warehouse and access roads are partially within Zone B known to have flooded in the past.
- 3.4.2 The Development Site, eastern part of the Site, lies within Zone A considered to be at little or no risk of fluvial flooding, and it is located in the area of low to high flood risk from surface water and small watercourses. The western part of the Site, the car park to the east, access

roads to the north and to the south of the H-Pack warehouse are in the area with the potential from low to high flood risk from surface water and small watercourses.



Figure 7 – Flood Risk from surface water and small watercourses (extracted from The Development Advice Map – Natural Resources Wales website).

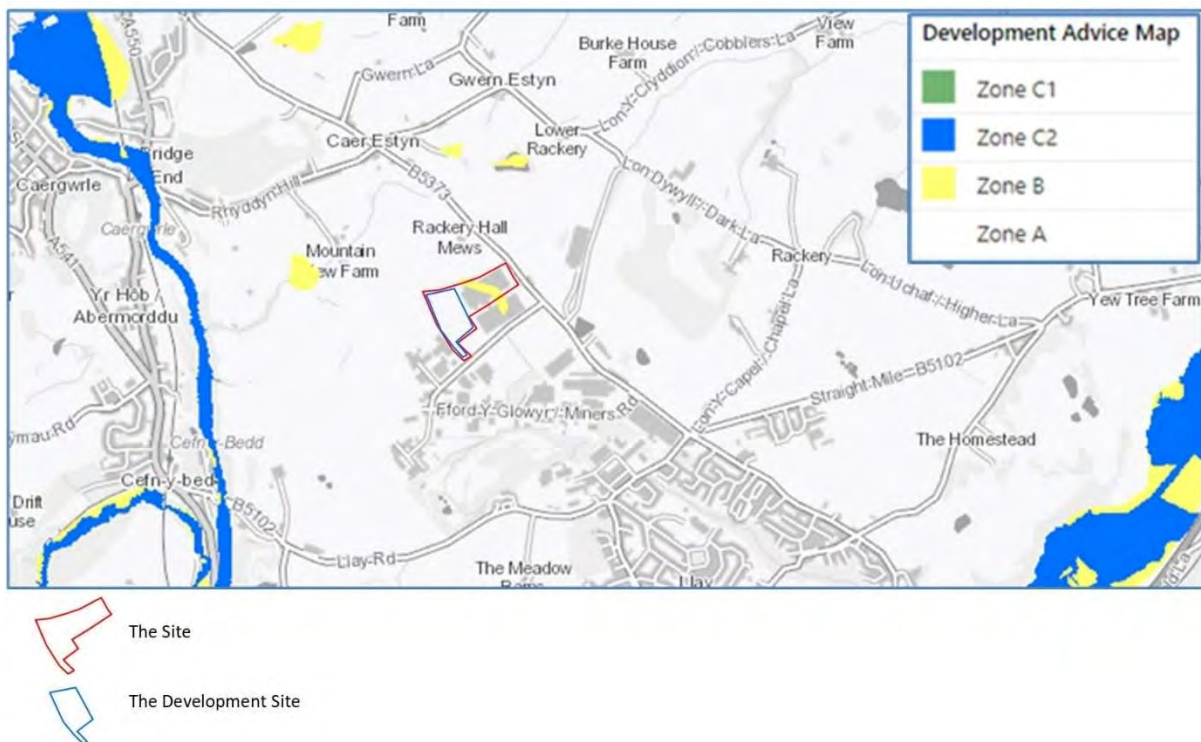


Figure 8 – Flood Risk from rivers Map (extracted from The Development Advice Map – Natural Resources Wales website).

Zone A - Considered to be at little or no risk of fluvial or coastal/tidal flooding

Zone B - Areas known to have flooded in the past

Zone C1 - Served by significant infrastructure, including flood defences

Zone C2 - Without significant flood defence infrastructure

4.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

4.1.1 Environmental Risk has been addressed by adopting a site-specific, qualitative approach, to identify the risk of environmental harm. The guiding principle of this approach is an attempt to establish connecting links between a hazardous 'source', via an exposure 'pathway', to a potential 'receptor'. This is in accordance with the Department of the Environment, Transport and Regions (DETR) guidance on Contaminated Land (Ref. 1) and the Construction Industry Research and Information Association (Ref. 3).

4.1.2 This assessment will identify where pollutant linkages may exist, by considering where a viable pathway may exist, which connects a potential source with a receptor. A pollutant linkage is the term used by the DETR in their standard procedure on risk assessment. If there is no pollutant linkage, then there is no risk. The Site fits with the standard CLEA commercial model end-use. The Site has therefore been assessed using this standard end-use model.

4.2 Preliminary Conceptual Site Model

4.2.1 Contaminated land risk assessment is based on the development of a conceptual model for the Site. This is a representation of the relationship between potential contaminant sources, pathways and receptors. A preliminary conceptual site model is based on the inferred ground conditions and environmental data obtained from existing data sources. A preliminary conceptual site model is discussed in the following sections.

4.3 Identified Potential Sources

4.3.1 The historic uses of the Site, the Development Site, and the surrounding area were analysed to identify any potential sources of contamination:

4.4 On-site Sources

4.4.1 The Envirocheck mapping shows that the Site was occupied by agricultural fields from the earliest available historical map 1872 until 1990. From 1990 the Site is part of the Llay Industrial Estate and is currently occupied by the existing H-pack warehouse with associated access roads and car parks.

4.4.2 The Development Site exist currently as a grassed open field and has never been developed.

4.4.3 No significant Made Ground is anticipated to be present on Development Site. However, there are filled ponds in the south-eastern part of the Development Site which maybe a localised ground gas source, depending on the nature of the backfill.

4.4.4 The Site lies within an area where 5% - 10% of homes are estimated to be at or above the Radon Action level. Basic radon protection measures may be required for internal office areas and internal rooms. Measures are unlikely to be required in the main warehousing.

4.5 Off-site Sources

- 4.5.1 The surrounding areas are shown as agricultural lands from 1872 until 1938. From 1938 mining activity is shown, Llay Main Colliery is mapped between 300m and 500m south of the Site. In 1954 the Colliery is shown with associated railway line and refuse and slag heaps. The mining activity ceases before 1981.
- 4.5.2 The former Llay Main Colliery is reported currently as filled ground and is part of the Llay Industrial Estate.
- 4.5.3 The landfill to the east and the former colliery filled ground may be possible sources of contamination in the vicinity that may impact the Site. Considering the distance to the Development Site the risk may be considered as low.

4.6 Potential Receptors

- 4.6.1 The proposed use of the Development Site, for commercial development with hard standing, is considered to be of moderate sensitivity with respect to human health.
- 4.6.2 The principle vulnerable receptors for the proposed use will be:
- future site users;
 - construction workers who may be exposed to contaminants during preparatory and construction works;
 - future site visitors;
 - future maintenance workers;
 - residents of the neighbouring houses;
 - buildings / structures;
 - controlled waters (underlying superficial undifferentiated aquifer, and bedrock secondary A aquifer);
 - controlled waters - surface waters (River Alyn and unnamed watercourses)

4.7 Pathways

- 4.7.1 The following pathways link the potential contaminants with the sensitive receptors:
- contact, ingestion and inhalation of contaminated soil and dust;
 - leaching and migration via soil mass and rock discontinuities;
 - humans: Ingestion, skin contact, inhalation of dust and outdoor air;

- buildings: direct contact;
- buildings: ingress via permeable soils and/or construction gaps;
- underlying groundwater: migration of leachable contaminants
- surface water: overland flow/ lateral migration of contaminants in ground;
- surface water: drainage discharge;
- plant uptake.

4.7.2 The preliminary risk assessment process has not identified any significant risks to the Development Site end users' / development workers. However, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

4.8 Human Health Risk Assessment

4.8.1 The potential for significant contamination to be present that may pose an acute risk to construction workers during the development is negligible. However, this should be confirmed through visual inspection of the soils during ground investigation works.

4.8.2 The Site lies within an area where 5% - 10% of homes are estimated to be at or above the Radon Action level. Basic radon protection measures likely to be required.

4.9 Controlled Waters Risk Assessment

4.9.1 The Development Site is in an area of low environmental sensitivity as far as groundwater is concerned with the superficial deposits supporting secondary undifferentiated aquifer. The nearest surface watercourse is an unnamed feature along the northern and the north-western boundary of the Site, other watercourses are at distance between 160m and 535m from the Development Site with the river Alyn being 948m to the east of the Development Site.

4.9.2 In general, flow to the watercourse (along the north-western boundary) is likely to be predominantly via surface runoff and infiltration through the superficial granular lenses within Glacial Till and Glacial Sand, and groundwater baseflow. Surface waters flow from the Development Site are likely to occur to the west and south-west. No significant pollution sources have been identified on the Development Site.

4.10 Preliminary Conceptual Site Model (CSM)

4.10.1 The preliminary CSM has been derived for the Site using the information described above, describing the potential contamination sources, pathways and receptors as summarised below in Table 6

Table 6. – Summary of Potential Pollutant Linkages (Preliminary Conceptual Site Model)

Potential Source	Potential Contaminant	Potential Pathways	Potential Receptor	Pollutant Linkage Present	Comments
Made Ground.	Metals, semi-metals, non-metals, PAH, petroleum hydrocarbons and asbestos.	Inhalation.	Human Health – End user and on-site worker.	Unlikely.	No significant Made Ground is anticipated.
		Ingestion.			
		Direct contact.			
		Infiltration.	Groundwater and Surface Water Quality.		
		Lateral migration; groundwater.			
		Vertical diffusion; groundwater.			
Natural soils and bedrock.	Sulphate and pH	Direct Contact.	Building materials durability.	Unlikely.	Site investigation to confirm ground conditions and confirm chemistry of Development Site soils.
Potential for ground gas generation from Made Ground/Organic soils.	Carbon dioxide, carbon monoxide and hydrogen sulphide.	Inhalation.	Human Health – future site users and site workers.	Unlikely.	No ground gas sources have been identified on Development Site. No significant Made Ground or organic soils is anticipated.
		Migration through potential			

Potential Source	Potential Contaminant	Potential Pathways	Potential Receptor	Pollutant Linkage Present	Comments
		Superficial Deposits.			
Potential gas producing material from historical landfill.	Carbon dioxide, methane, carbon monoxide and hydrogen sulphide.	Lateral migration through superficial deposits.	Human Health – Future site users and site workers.	Unlikely.	Historical landfill identified 555m from the Development Site, the risk may be considered as low.
		Groundwater.			
		Inhalation.			
Potential contaminated leachate from historical landfill.	Metals, semi-metals, non-metals, PAH, petroleum hydrocarbons and asbestos.	Lateral migration; groundwater.	Human Health – Future site users and site workers.	Unlikely.	Historical landfill identified 555m from the Development Site, the risk may be considered as low.
		Vertical migration; groundwater.	Groundwater and Surface Water Quality.		
Potential gas producing material from organic soils.	Carbon dioxide, methane, carbon	Lateral migration through superficial	Human Health – Future residents and site workers.	Unlikely.	No significant organic soils are anticipated to be present.

Potential Source	Potential Contaminant	Potential Pathways	Potential Receptor	Pollutant Linkage Present	Comments
	monoxide and hydrogen sulphide.	deposits.			
		Inhalation.			
Potential gas producing material from organic soils associated with coal mining.	Carbon dioxide, methane, carbon monoxide and hydrogen sulphide.	Lateral migration; bedrock and superficial deposits.	Human Health – Future residents and site workers.	Unlikely.	Underground mining in 3 seams of coal at 570m to 790m depth.
Radon gas from natural ground.	Radon gas.		Humans – future site users.	Likely	The site lies within an area where 5% - 10% of homes are estimated to be at or above the Radon Action.

5.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

5.1 The Envirocheck Report Data

- 5.1.1 The Envirocheck Report states that the Site is located within an area where natural soils are classed as posing very low risk from running sand, shrinking and swelling clay, landslide stability, and no hazard from compressible ground and ground dissolution.

5.2 The Geotechnical Risk Register

- 5.2.1 A review of the geotechnical risks associated with the development has been undertaken. The risks have been evaluated using the risk evaluation matrix suggested in the CD622 Managing Geotechnical Risk, which is reproduced as tables 7, 8, and 9 below.
- 5.2.2 The risk register is detailed in Table 10 overleaf. The register lists the anticipated geotechnical hazards associated with the works and the potential consequences of those hazards. The risk before control of the hazard has been assessed quantitatively as has the anticipated risk following the proposed response to each hazard.

Table 7. Likelihood and Severity

Likelihood		Severity				
		1	2	3	4	5
		Minor	Moderate	Serious	Major	Catastrophic
1	Extremely unlikely	1	2	3	4	5
2	Unlikely	2	4	6	8	10
3	Likely	3	6	9	12	15
4	Extremely likely	4	8	12	16	20
5	Almost certain	5	10	15	20	25

Table 8. Risk Classification

Risk Classification	
Low (1-8)	Ensure assumed control measures are maintained and reviewed as necessary.
Medium (9-19)	Additional control measures needed to reduce risk rating to a level that is equivalent to a test of "reasonably required" for.
High (20-25)	Activity not permitted. Hazard to be avoided or risk to be reduced to tolerable level.

The risk classification is the product of the likelihood and the severity.

Table 9. Potential Severity

Potential severity of harm occurring		
1	Minor	Minor damage or loss – (no human injury)
2	Moderate	Moderate damage or loss – (slight injury or illness)
3	Serious	Substantial damage or loss – (serious injury or illness)
4	Major	Major damage or loss – (fatal injury)
5	Catastrophic	Catastrophic loss or damage – (multiple fatalities)

Table 10. Geotechnical Risk Assessment

Risk ID	Hazard	Consequence	Risk before control			Mitigation	Risk after control		
			Likely hood	Severity	Risk		Likely hood	Severity	Residual risk
1	Level of Study provides limited knowledge of ground conditions.	Inappropriate design solution proposed.	4	3	12	Undertake robust GI – Ground Investigation.	2	3	6
2	Varying ground conditions	Inadequate design and cost/program impact on construction.	3	3	9	Site GI information to be undertaken to improve confidence in ground conditions. Confirm the presence, nature and thickness of Made Ground. Confirm the presence of possible historical ponds in the south-eastern part of the Development Site. Confirm the nature and thickness of superficial deposits, glacial clay and possible glacial sand, its consistency, strength and relative density.	1	3	3

						Potential for unacceptable and differential settlement under applied loadings.			
3	Weak, loose or soft compressible ground.	Instability during/after construction and relatively high settlement in earthworks/structures.	3	4	12	Ponds mapped on Envirocheck historical maps on the south-eastern portion of the Development Site. Possible soft/loose Made Ground. Full GI to be undertaken to confirm the nature and thickness of superficial deposits, its consistency, strength and relative density. Potential for unacceptable and differential settlement under applied loadings.	1	4	4
4	Groundwater levels	Effects on surface water drainage. Effects on stability of deep excavations, due to water ingress. Effects on earthworks stability and effects on foundation designs and construction	3	4	12	Groundwater observations to be undertaken as part of the GI.	2	4	8
5	Mining related ground movements	Impact on structure foundation type	1	4	4	No mining related hazards identified following Coal Mining Report review.	1	4	4

6	Mineral extraction – unidentified excavations/ workings, presence of voids and presence of hazardous gases	Failure of structures and risk to human health during construction	1	4	4	No mining related hazards identified following Coal Mining Report review.	1	4	4
7	Earthworks failure during/immediately after construction.	Risk to the construction workers and the public.	3	4	12	No significant earthworks anticipated. Understand soil properties and construct earthworks in accordance approved specification and geotechnical design criteria.	1	4	4
8	Structure Foundations – unsuitable foundation designed.	Failure of structure.	2	4	8	GI to be undertaken. Undertake Geotechnical Design using appropriate design parameters obtained from the GI. Ensure construction stage verification of ground conditions.	1	4	4
9	Flooding from surface run-off, groundwater and fluvial sources.	Risk to the construction workers. Delays during construction.	1	4	4	Not anticipated. Ensure appropriate measures are taken, including any temporary works to control surface water flows.	1	4	4

10	Inability to maximize SUDS drainage potential of site.	Increased cost / delay to programme Environmental impact to surrounding controlled waters.	2	4	8	The Development Site underlain by Glacial Till anticipated to be practically impervious.	1	4	4
11	Unforeseen services	Delays during construction	2	4	8	Obtain plans from utility providers. Undertake Utility Search in accordance with a PAS 128:2022, all locations to be scanned using CAT4 Scanner. Cable Percussive and window sample boreholes to include hand dug inspection pit, where required prove location of services.	1	4	4
12	Unexploded ordnance	Accidental explosions	1	4	4	Preliminary UXO risk assessment indicates site is in a low-risk area. No further works required. However, ensure vigilance is maintained through GI and construction phase.	1	4	4
13	Unexpected geological features, fissures, faults, solution features etc.	Unsuitable Design Solution	2	3	6	Consult historical site investigation data and Geotechnical Report to establish typical and expected ground conditions, along with published information.	1	3	3

14	Presence of hazardous soil borne gas arising from alluvium/peat	Risk to human health during construction	2	3	6	No significant ground gas sources identified; no ground gas monitoring proposed during the GI. However, review ground model following GI and nature of backfilled ponds known. Undertake further GI/monitoring if required.	1	3	3
15	Design conflict with known services.	Conflict during construction. Uplift in cost to divert/move services/assets.	4	4	16	Refer to service plans, if unsure, trial trenches to be undertaken in critical areas during GI to confirm depth of services. Early engagement with utility companies over their assets to better understand issues and requirements.	2	4	8
16	Change to scope of works	Lack of ground information for the design	2	3	6	Finalize the outline design for the development as soon as possible. Undertake further phase of GI if required.	1	3	3
17	Aggressive ground conditions due to presence of sulphates	Sulphate attack on concrete leading to failure of foundation	2	4	8	Ensure GI includes testing to BRE SD1 and samples are taken from appropriate locations and depths. Determine the DC and ACEC classes and ensure appropriate design.	1	4	4

18	Presence of Made Ground of variable and poor engineering properties	Re-design, increased cost and delay in works if identified late in the program due to unpredictable and usually poor strength properties.	3	3	9	Ground investigation to identify presence and thickness of any Made Ground.	1	3	3
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6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary of Findings

6.1.1 The findings from the Phase 1 desk study have concluded that:

- The Envirocheck mapping shows that the Site was occupied by agricultural fields from the earliest available historical map 1872 until 1990. From 1990 the Site is part of the Llay Industrial Estate and is occupied currently by H-pack warehouse with associated access roads and car parks.
- The Development Site is currently a grassed open field and has never been developed. A number of historical ponds have been identified on the south-eastern part of the Development Site, potentially backfilled with unknown materials.
- The Development Site is not considered to be at risk from potential underground coal workings which may contribute to underground instabilities, ground gas etc.
- The BGS records indicate the Development Site is underlain by Glacial Till to ~10m bgl, with the bedrock comprising mudstone, sandstone and conglomerate of Etruria Formation.
- According to historical borehole records and the Development Site history significant Made Ground is not anticipated.
- The Development Site is within the area of little or no risk of fluvial flooding however the western, northern, and south-western parts of the Development Site located in the area of low to high flood risk from surface water and small watercourses.
- There are no historical landfills sites within 500m of the Development Site boundary. The historical landfill to the east is mapped 288m from the Site, however it is 555m from the Development Site.
- No significant contamination sources have been identified on the Development Site.
- The Development Site is with an area are of elevated radon potential. Maximum radon potential is 5-10 %. Basic Radon protection measures are likely to be required in office areas and internal rooms, however they are unlikely to be required within the main warehousing.
- Loadings for the development are yet to be confirmed but shallow standard foundations are likely to be suitable for light to moderate loadings given the anticipated presence of Glacial Till at shallow depth. Foundation requirements may change depending on results of the ground investigation and the warehouse design.

6.2 Recommended Ground Investigation

- #### 6.2.1
- In order to confirm the ground model, it is recommended to drill a number of cable percussive boreholes down bedrock at an anticipated depth of 10m bgl with SPT (standard penetration testing) in the area of the proposed warehouse, and to excavate trial pits across the rest of the Development Site i.e., service yard, access roads and the possible a vehicle access from Rackery Lane. It is also recommended that a number of trial trenches are excavated to located and confirm the nature of the backfilled ponds. Depending on the nature of the backfill it may

be necessary to undertake window sample boreholes to allow the installation of shallow ground gas monitoring to wells to fully assess the ground gas risk from any organic material within the pond backfill.

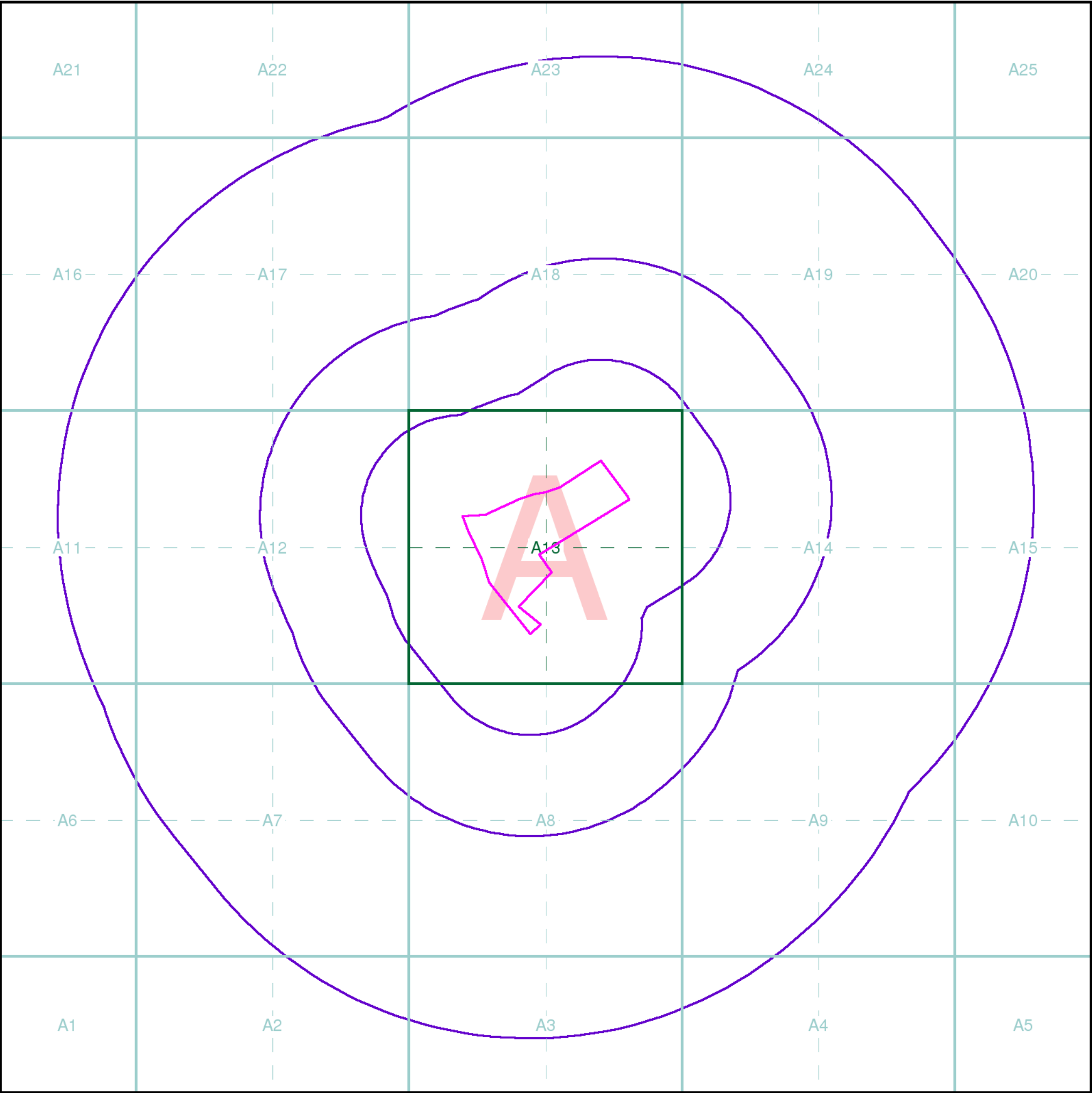
- 6.2.2 The exploratory holes should include including the collection of small, disturbed samples for classification of soils, for Design Sulphate (DS) and Aggressive Chemical Environment for Concrete (ACEC) classification, environmental samples to assess general contamination and bulk samples for compaction testing.
- 6.2.3 It is also recommended TLR DCP (Transport Research Laboratory Dynamic Cone Penetrometer) are undertaken to inform the equivalent CBR values of natural soils in the area of service yard, access roads and possible access from Rackery Lane.

7.0 REFERENCES

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- [20] Geotechnics Design CD 622 Managing geotechnical risk

APPENDIX 1

Envirocheck Report with Historical Maps



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details
Mr A Jones, Caulmert Ltd, Unit F13, InTec, Parc Menai, Bangor, Gwynedd, LL57 4FG

Order Details
Order Number: 296712719_1_1
Customer Ref: 5473
National Grid Reference: 332340, 356880
Site Area (Ha): 6.4
Search Buffer (m): 1000

Site Details
Site at 332260, 356840

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

296712719_1_1

Customer Reference:

5473

National Grid Reference:

332350, 356860

Slice:

A

Site Area (Ha):

6.4

Search Buffer (m):

1000

Site Details:

Site at 332260, 356840

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Introduction

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

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		3	5	30
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 12				2
Integrated Pollution Prevention And Control	pg 12			1	3
Local Authority Integrated Pollution Prevention And Control	pg 13				1
Local Authority Pollution Prevention and Controls	pg 13		1	4	8
Local Authority Pollution Prevention and Control Enforcements	pg 15			1	
Nearest Surface Water Feature	pg 15	Yes			
Pollution Incidents to Controlled Waters	pg 15		6	2	25
Prosecutions Relating to Authorised Processes	pg 20		1		
Registered Radioactive Substances					
River Quality	pg 21				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 21		1		1
Water Abstractions	pg 21				1 (*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 23	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 24	1	2	8	33

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 29			1	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 29		1		1
Licensed Waste Management Facilities (Locations)	pg 29		3	5	4
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 32			1	9
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 38			1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 39	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 39			3	8
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 41	Yes	n/a	n/a	n/a
Mining Instability	pg 41	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 41	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 41	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 41	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 41	Yes	n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 42		38	46	44
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 54				9
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 54	2			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	332250 356850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	332300 356700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (SW)	0	1	332355 356862
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	15	1	332200 356750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	32	1	332200 356700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	128	1	332300 356500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	129	1	332050 357000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	184	1	332450 356500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	208	1	332050 357100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	215	1	331950 357000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	289	1	332400 356350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	308	1	332450 356350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	315	1	332600 357350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	320	1	332000 357200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	327	1	332350 356300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	329	1	332355 356300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	339	1	331850 356750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	377	1	332350 356250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	379	1	331850 357150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	396	1	332500 357450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	411	1	331850 357200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	416	1	331900 357250

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	A18SE (NE)	427	1	332650 357450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	427	1	332300 356200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	431	1	331950 357300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	439	1	333000 356950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	451	1	331750 356700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	457	1	331900 357300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	462	1	331750 357150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	464	1	331700 356800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	468	1	332350 357500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (S)	477	1	332300 356150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	489	1	331750 357200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NE (E)	489	1	333050 356950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NE (E)	489	1	333050 356900
1	Discharge Consents Operator: Ervyn Rosenberg Property Type: Domestic Property (Single) Location: Rackery Hall, Rackery Lane, Llay, Wrexham, Wales, LI12 0pb Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: Cm0187201 Permit Version: 3 Effective Date: 26th November 2012 Issued Date: 26th November 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 100m	A13NE (N)	4	2	332400 357000
1	Discharge Consents Operator: Mr Ervyn Rosenberg Property Type: Domestic Property (Single) Location: Rackery Hall, Rackery Lane, Llay, Wrexham, Wales, LI12 0pb Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0187201 Permit Version: 2 Effective Date: 11th April 1995 Issued Date: 11th April 1995 Revocation Date: 25th November 2012 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	A13NE (N)	4	2	332400 357000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Mr Erynn Rosenberg Property Type: Domestic Property (Single) Location: Rackery Hall, Rackery Lane, Llay, Wrexham, Wales, LI12 0pb Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0187201 Permit Version: 1 Effective Date: 21st August 1989 Issued Date: 21st August 1989 Revocation Date: 10th April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Land Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13NE (N)	4	2	332400 357000
2	Discharge Consents Operator: British Coal Corporation (Fao E P Watkins) Property Type: Coal Extraction, Deep Mine Location: Llay Main Colliery Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0142801 Permit Version: 1 Effective Date: 23rd January 1967 Issued Date: 23rd January 1967 Revocation Date: 12th January 1996 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Alyn Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	401	2	332700 356470
3	Discharge Consents Operator: Meritor Heavy Vehicle Systems Ltd Property Type: Motor Vehicle Parts Location: Meritor Heavy Vehicle Systems Ltd, Rackery Lane, Llay, Wrexham, LI12 0pb Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0393001 Permit Version: 1 Effective Date: 30th April 2001 Issued Date: 30th April 2001 Revocation Date: 23rd September 2011 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Singret Brook Via Drain Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	418	2	332690 356420
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Stations Location: Powys Caer Estyn Ps, Nr Pear Tree Cottage, Caer Estyn, Caergwrle, Wrexham, LI12 9en Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: Cm0188401 Permit Version: 2 Effective Date: 24th February 2020 Issued Date: 24th February 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Pulford Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A18SW (N)	477	2	332304 357493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Stations Location: Powys Caer Estyn Ps, Nr Pear Tree Cottage, Caer Estyn, Caergwrle, Wrexham, L12 9en Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: Cm0188401 Permit Version: 2 Effective Date: 24th February 2020 Issued Date: 24th February 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Pulford Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A18SW (N)	477	2	332304 357493
5	Discharge Consents Operator: Meritor Heavy Vehicle Systems Ltd Property Type: Motor Vehicle Parts Location: Meritor Heavy Vehicle Systems Ltd, Rackery Lane, Llay, Wrexham, L12 0pb Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0392001 Permit Version: 1 Effective Date: 30th April 2001 Issued Date: 30th April 2001 Revocation Date: 23rd September 2011 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Singret Brook Via Mains Drain Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	500	2	332780 356410
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Caer Estyn Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0044501 Permit Version: 2 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 25th October 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Pulford Broo Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A18SW (N)	508	2	332230 357490
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Caer Estyn Stw Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0044501 Permit Version: 1 Effective Date: 26th April 1982 Issued Date: 26th April 1982 Revocation Date: 29th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Pulford Broo Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18SW (N)	508	2	332230 357490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Stephanie Hamer Property Type: Domestic Property (Single) Location: The Orchard, Rhyddyn Hill, Caergwrle, Wrexham, LI12 9ef Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Bb3591fm Permit Version: 1 Effective Date: 6th January 2020 Issued Date: 6th January 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	543	2	331946 357421
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Powys Caer Estyn Ps Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: CM0188401 Permit Version: 1 Effective Date: 29th November 1989 Issued Date: 29th November 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Pulford B Status: Effective Positional Accuracy: Located by supplier to within 100m	A18NW (N)	560	2	332330 357590
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Powys Caer Estyn Ps Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: Cm0188401 Permit Version: 1 Effective Date: 29th November 1989 Issued Date: 29th November 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Pulford B Status: Effective Positional Accuracy: Located by supplier to within 10m	A18NW (N)	560	2	332330 357590
9	Discharge Consents Operator: Mark Speed & David Evans Property Type: Domestic Property (Single) Location: Plot 2 & 3, Old Smithy Cottage, Llay, Wrexham, North Wales, LI12 0tl Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0449101 Permit Version: 1 Effective Date: 8th February 2007 Issued Date: 8th February 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of River Alyn 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	A8SE (S)	571	2	332451 356072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Mark Speed Property Type: Domestic Property (Single) Location: Old Smithy Cottage, Cefn Y Bedd Road, Llay, Near Wrexham, North Wales, LI12 0tl Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0409801 Permit Version: 1 Effective Date: 25th June 2003 Issued Date: 25th June 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Afon Alyn 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	A8SE (S)	582	2	332425 356055
10	Discharge Consents Operator: British Coal Corporation Property Type: Undefined Or Other Location: Llay Main Colliery Coal Washery Pla, Coal Washery Plant Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0023101 Permit Version: 1 Effective Date: 24th June 1964 Issued Date: 24th June 1964 Revocation Date: 20th February 1986 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Alyn Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SE (S)	576	2	332550 356100
10	Discharge Consents Operator: The Works Manager Property Type: Manufacture Of Other Building Materials Location: Marshalls Mono Plc Llay Works, Llay Industrial Estate, Llay Wrexham, LI12 0tl Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0401401 Permit Version: 1 Effective Date: 21st July 2003 Issued Date: 21st July 2003 Revocation Date: 22nd June 2009 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Un Named Watercourse Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8SE (S)	613	2	332534 356054
11	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Llay Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0060002 Permit Version: 1 Effective Date: 14th October 1969 Issued Date: 14th October 1969 Revocation Date: 6th February 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Singret Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	679	2	332890 356250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: The Works Manager Property Type: Manufacture Of Other Building Materials Location: Marshalls Mono Plc Llay Works, Llay Industrial Estate, Llay Wrexham, LI12 0tl Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0401501 Permit Version: 1 Effective Date: 10th January 2003 Issued Date: 10th January 2003 Revocation Date: 22nd June 2009 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: To Ground Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	690	2	332853 356187
13	Discharge Consents Operator: Mr Michael Reeves Davies Property Type: Domestic Property (Single) Location: The Granary Dark Lane Burton, Dark Lane, Rossett, LI12 0ae Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0402901 Permit Version: 1 Effective Date: 6th December 2002 Issued Date: 6th December 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stringers Brook 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	A18NE (N)	710	2	332475 357764
14	Discharge Consents Operator: Castle Cement Ltd Property Type: Undefined Or Other Location: Wrexham Llay Coal Washery Plant Lla, Llay Coal Washery Plant Llay Roa, Llay Road Llay Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0152401 Permit Version: 1 Effective Date: 1st June 1987 Issued Date: 1st June 1987 Revocation Date: 23rd December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ditch Trib Alyn Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SW (S)	731	2	332240 355900
15	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Llay Chapel Lane Cso, Opposite Garden Centre, Behind 18 Birch Court, Wrexham, LI12 0tu Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Cg0358401 Permit Version: 2 Effective Date: 18th September 2019 Issued Date: 18th September 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Alyn Tributary Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	892	2	333087 356160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Chapel Lane Opposite Garden Centre, Opposite Garden Centre Llay Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: CG0358401 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Alyn Tributary Status: Effective Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	906	2	333110 356170
15	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Chapel Lane Opposite Garden Centre, Opposite Garden Centre Llay Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Cg0358401 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Alyn Tributary Status: Effective Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	906	2	333110 356170
16	Discharge Consents Operator: Wrg Property Type: Not Supplied Location: Astbury Landfill Dark Lane Burton, Dark Lane Burton, Rossett Wrexham, LI12 0ae Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: CM0096001 Permit Version: 4 Effective Date: 21st August 1999 Issued Date: 11th November 1993 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Pulford Brook Status: Effective Positional Accuracy: Located by supplier to within 100m	A20SW (E)	926	2	333460 357180
16	Discharge Consents Operator: Caird Environmental Ltd Property Type: Extraction Of Stone, Gravel Etc. Location: Astbury Quarry Dark Lane Burton, Dark Lane, Rossett, LI12 Oae Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0096001 Permit Version: 3 Effective Date: 12th November 1993 Issued Date: 11th November 1993 Revocation Date: 20th August 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Pulford Broo Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	933	2	333470 357170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Discharge Consents Operator: Caird Environmental Ltd Property Type: Extraction Of Stone, Gravel Etc. Location: Astbury Quarry Dark Lane Burton, Dark Lane, Rossett, LI12 Oae Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0096001 Permit Version: 2 Effective Date: 14th November 1985 Issued Date: 14th November 1985 Revocation Date: 10th November 1993 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Pulford Broo Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A15NW (E)	933	2	333470 357170
16	Discharge Consents Operator: Caird Environmental Ltd Property Type: Extraction Of Stone, Gravel Etc. Location: Astbury Quarry Dark Lane Burton, Dark Lane, Rossett, LI12 Oae Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0096001 Permit Version: 1 Effective Date: 18th May 1983 Issued Date: 18th May 1983 Revocation Date: 13th November 1985 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Pulford Broo Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A15NW (E)	933	2	333470 357170
17	Discharge Consents Operator: The Director Property Type: Domestic Property (Multiple) Location: Cherry Bank Stables & Barn, Bank Farm, Dark Lane, Burton By Rossett, Wrexham, LI12 Oae Authority: Natural Resources Wales Catchment Area: River Dee Reference: Npswqd002755 Permit Version: 2 Effective Date: 26th November 2012 Issued Date: 26th November 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: To Ground Waters Via Soakaway Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A15NW (E)	953	2	333510 357043
17	Discharge Consents Operator: The Director Property Type: Domestic Property (Multiple) Location: Cherry Bank Stables & Barn, Bank Farm, Dark Lane, Burton By Rossett, Wrexham, LI12 Oae Authority: Natural Resources Wales Catchment Area: PULFORD BROOK Reference: Wqd002755 Permit Version: 2 Effective Date: 26th November 2012 Issued Date: 26th November 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A15NW (E)	953	2	333510 357043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: The Director Property Type: Domestic Property (Multiple) Location: Cherry Bank Stables & Barn, Bank Farm, Dark Lane, Burton By Rossett, Wrexham, L12 0ae Authority: Natural Resources Wales Catchment Area: River Dee Reference: Npswqd002755 Permit Version: 1 Effective Date: 12th September 2008 Issued Date: 12th September 2008 Revocation Date: 25th November 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: To Ground Waters Via Soakaway 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	A15NW (E)	953	2	333510 357043
18	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Llay Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0080201 Permit Version: 1 Effective Date: 5th March 1975 Issued Date: 5th March 1975 Revocation Date: 6th February 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Alyn Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A11SE (W)	960	2	331270 356530
19	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Llay Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0060001 Permit Version: 1 Effective Date: 14th October 1969 Issued Date: 14th October 1969 Revocation Date: 6th February 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Alyn Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A11SE (W)	963	2	331240 356600
20	Discharge Consents Operator: Dwr Cymru Welsh Water Property Type: Sewerage Network - Pumping Stations Location: Pumping Station On Development Land, Off Llay Road, Wrexham, Wales, United Kingdom, L12 0tx Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Cg0413901 Permit Version: 1 Effective Date: 22nd January 2004 Issued Date: 22nd January 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Singret Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	979	2	333155 356106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Discharge Consents Operator: Dwr Cymru Welsh Water Property Type: Sewerage Network - Pumping Staions Location: Pumping Station On Development Land, Off Llay Road, Wrexham, Wales, United Kingdom, LI12 0tx Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Cg0413901 Permit Version: 1 Effective Date: 22nd January 2004 Issued Date: 22nd January 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Singret Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	979	2	333155 356106
20	Discharge Consents Operator: Dwr Cymru Welsh Water Property Type: Sewerage Network - Pumping Station - Water Company Location: Pumping Station On Development Land, Off Llay Road, Wrexham, Wales, United Kingdom, LI12 0tx Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0413901 Permit Version: 1 Effective Date: 22nd January 2004 Issued Date: 22nd January 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Singret Brook 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	A9SE (SE)	979	2	333155 356106
21	Discharge Consents Operator: The Meadow Barns (Llay) Management Company Limited Property Type: Domestic Property (Multiple) Location: Llay Hall Farm, Llay Road, Llay, Clwyd, LI12 0th Authority: Natural Resources Wales Catchment Area: ALYN - HOPE TO DEE Reference: Fp3527xf Permit Version: 1 Effective Date: 1st March 2011 Issued Date: 27th October 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alyn Status: Effective Positional Accuracy: Located by supplier to within 10m	A3NE (S)	990	2	332569 355670
21	Discharge Consents Operator: The Meadow Barns (Llay) Management Company Limited Property Type: Domestic Property (Multiple) Location: Llay Hall Farm, Llay Road, Llay, Clwyd, LI12 0th Authority: Natural Resources Wales Catchment Area: Alyn Reference: Eprfp3527xf Permit Version: 1 Effective Date: 1st March 2011 Issued Date: 27th October 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alyn Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A3NE (S)	990	2	332569 355670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Prosecutions Relating to Controlled Waters Location: Singrett Brook, Llay Industrial Estate, Llay, LL12 Prosecution Text: A technical fault lead to vegetable oil entering a nearby watercourse - three year conditional discharge served Prosecution Act: Wra91 S85(1) Hearing Date: 9th June 2005 Verdict: Guilty Fine: 0 Cost: 1586 Positional Accuracy: Manually positioned within the geographical locality	A14SW (SE)	535	3	332872 356524
23	Integrated Pollution Controls Name: Magellan Aerospace Corporation Ltd Location: Rackery Lane, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PB Authority: Environment Agency, Welsh Region Permit Reference: AO6880 Dated: 21st April 1995 Process Type: IPC new application Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A9NE (SE)	790	3	333114 356394
23	Integrated Pollution Controls Name: Magellan Aerospace Corporation Ltd Location: Rackery Lane, WREXHAM, Clwyd, LL12 0PB Authority: Environment Agency, Welsh Region Permit Reference: BD0150 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A9NE (SE)	794	3	333114 356389
24	Integrated Pollution Prevention And Control Name: Llay Feed Mill Location: Llay Feed Mill, Cymru Country Feeds, Miners Road, Llay, Wrexham, LL12 0PJ Authority: Natural Resources Wales Permit Reference: AP3337HF Original Permit Ref: Ap3337hf Effective Date: 21st January 2022 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 6.8 PART A (1) D (II) Activity Description: Not Supplied Primary Activity: Y	A8NE (S)	251	2	332360 356380
25	Integrated Pollution Prevention And Control Name: Vion Food Group Limited Location: Miners Road, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PJ Authority: Natural Resources Wales Permit Reference: Rp3835sy Original Permit Ref: Rp3835sy Effective Date: 13th April 2006 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A9NW (SE)	542	2	332851 356465
26	Integrated Pollution Prevention And Control Name: Wrg Waste Services Ltd Location: Rossett Landfill Site, Astbury Landfill Site, Dark Lane, Burton, Rossett, Wrexham, Clwyd, LL12 0AE Authority: Environment Agency, Welsh Region Permit Reference: Bw0274id Original Permit Ref: Bw0274id Effective Date: Not Supplied Status: Valid Application Type: Not Supplied App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Not Supplied	A19SE (NE)	716	3	333186 357308

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Integrated Pollution Prevention And Control Name: Wrg Environmental Ltd Location: Rossett Landfill Gas Utilisation Scheme, Astbury Landfill Site, Dark Lane, Burton, Rossett, WREXHAM, Clwyd, LL12 0AE Authority: Environment Agency, Welsh Region Permit Reference: Up3337sa Original Permit Ref: Up3337sa Effective Date: 13th December 2006 Status: Effective Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A19SE (NE)	726	3	333201 357300
27	Local Authority Integrated Pollution Prevention And Control Name: Magellan Aerospace (Uk Ltd) Location: Rackery Lane, Llay Industrial Estate, Wrexham, LL12 0pb Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/05/MA Dated: Not Supplied Process Type: Other Activities Description: SG6 Status: Permit Issued Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	761	4	333055 356380
28	Local Authority Pollution Prevention and Controls Name: Marlin Industries Location: Davy Way, Llay Industrial Estate, Wrexham, LL12 0pg Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/2/MI/1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	141	4	332138 356624
29	Local Authority Pollution Prevention and Controls Name: Llay Recycling Centre Location: Miners Park, Miners Road, Llay, Wrexham, LL12 0pj Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG3/16/LRC/V1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A8NW (S)	365	4	332193 356283
29	Local Authority Pollution Prevention and Controls Name: Llay Recycling Centre Location: Miners Park, Miners Road, Llay, Wrexham, LL12 0pj Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG3/16/LRC/V1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Located by supplier to within 10m	A8NW (S)	365	4	332193 356283
30	Local Authority Pollution Prevention and Controls Name: Arvin Meritor Hvs Ltd Location: Rackery Lane, Llay, WREXHAM, Clwyd, LL12 0PB Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg6/23/Mv2 Dated: 15th December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorised Positional Accuracy: Manually positioned to the address or location	A14SW (SE)	464	4	332824 356577
31	Local Authority Pollution Prevention and Controls Name: Cymru Country Feeds Limited Location: Llay Mill, Miners Road, Llay Industrial Estate, WREXHAM, Clwyd, LL13 9PG Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg6/26(96)Cymv2 Dated: 10th November 1993 Process Type: Local Authority Air Pollution Control Description: PG6/26 Animal feed compounding Status: Transferred to IPPC Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	489	4	332801 356481

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Local Authority Pollution Prevention and Controls Name: Marshalls Mono Ltd Location: Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0tl Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG3-1-M Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	650	4	332790 356180
33	Local Authority Pollution Prevention and Controls Name: Marshalls Mono Ltd Location: Llay Road, WREXHAM, Clwdd, LL12 0TL Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wmbc/Hjb/02/011 Dated: 26th March 1996 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Application exempt from APC Positional Accuracy: Manually positioned to the address or location	A8SE (S)	717	4	332689 356014
33	Local Authority Pollution Prevention and Controls Name: Llay Mortar Plant Location: Llay Industrial Estate, WREXHAM, Clwyd, LL12 0TL Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg3/1(1) Dated: 23rd March 1996 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Automatically positioned to the address	A9SW (SE)	731	4	332710 356011
33	Local Authority Pollution Prevention and Controls Name: Clwyd Concrete Products Ltd Location: Llay, Wrexham, LL12 0tl Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG3/1/CCP/V1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	731	4	332709 356011
34	Local Authority Pollution Prevention and Controls Name: Cymru Country Feeds Ltd Location: Llay Mill, Miners Road, Llay Industrial Estate, WREXHAM, Clwyd, LL12 0PJ Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wmbc/Hjb/03/025 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/26 Animal feed compounding Status: Authorised Positional Accuracy: Automatically positioned to the address	A9NE (SE)	724	4	333033 356410
35	Local Authority Pollution Prevention and Controls Name: Star County Textile Services Ltd Location: Aerial Road, Llay Industrial Estate South, Llay, LL12 0tu Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG6-46(5)V2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	773	4	332949 356173
36	Local Authority Pollution Prevention and Controls Name: Magellan Aerospace Metal Treatments Location: Rackery Lane, Llay, Wrexham, Clwyd, LL12 0pb Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/05/MA Dated: 3rd January 2001 Process Type: Local Authority Air Pollution Control Description: PG6/40 Coating and recoating of aircraft and aircraft components Status: Permitted Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	820	4	333110 356350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Local Authority Pollution Prevention and Controls Name: Magellan Aerospace Metal Treatments Location: Rackery Lane, Llay, Wrexham, Clwyd, LI12 0pb Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/05/MA Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/10 Coating manufacturing Status: Transferred to LAIPPC Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	820	4	333110 356350
37	Local Authority Pollution Prevention and Control Enforcements Location: Llay Mill, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LI13 9pg Type: Air Pollution Control Enforcement Notice Reference: NOT GIVEN Date Issued: 1st February 2002 Enforcement Date: Not Supplied Details: Section 13 Notice Served Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	489	4	332801 356481
	Nearest Surface Water Feature	A13NW (N)	0	-	332344 356976
38	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Borehole On Site Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 24th October 1991 Incident Reference: 3380 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	71	3	332600 356900
39	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Llay Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Industrial Solid Waste Note: Weather Incident Date: 8th August 1994 Incident Reference: 20750 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	131	3	332350 356500
40	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Cooling Water Note: Deliberate Act Incident Date: 11th October 1994 Incident Reference: 21718 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	153	3	332500 356700
41	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Llay Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Mechanical Failure Incident Date: 8th August 1994 Incident Reference: 20749 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	A8NW (S)	178	3	332300 356450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Poor Management; River Alyn Incident Date: 21st September 1998 Incident Reference: 36731 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	A8NE (S)	218	3	332500 356500
43	Pollution Incidents to Controlled Waters Property Type: Waste Disposal Tip Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Natural Causes Incident Date: 4th May 1995 Incident Reference: 23991 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leachate Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	247	3	332750 356800
44	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Dark Lane, Access Road Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 9th May 1991 Incident Reference: 39 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	A19SW (NE)	335	3	332800 357200
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Pulford Brook Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management; Pulford Brook Incident Date: 26th August 1998 Incident Reference: 36529 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	A14NW (E)	441	3	333000 357000
46	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Other Location: Caer Estyn Sdw Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Mechanical Failure Incident Date: 9th July 1991 Incident Reference: 2930 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	555	3	332330 357585
47	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 9th December 1994 Incident Reference: 21898 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	570	3	332900 356500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Pollution Incidents to Controlled Waters Property Type: Not Given Location: D/S Of Lower Rackery Farm, LLAY Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Pulford Brook Incident Date: 25th March 1998 Incident Reference: 35068 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	A19NW (NE)	585	3	332700 357600
49	Pollution Incidents to Controlled Waters Property Type: Process Location: Marshalls Mono Ltd Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Inadequate Design/Capacity Incident Date: 20th March 1992 Incident Reference: 3438 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	A9SW (SE)	652	3	332700 356100
49	Pollution Incidents to Controlled Waters Property Type: Process Location: Marshalls Mono Ltd Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Inadequate Design/Capacity Incident Date: 20th March 1992 Incident Reference: 3438 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	656	3	332700 356095
50	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Down Stream Of From, Footpath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 11th April 1995 Incident Reference: 23408 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	659	3	333200 356800
51	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Manor Transport, LLAY Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Vandalism Incident Date: 5th November 1996 Incident Reference: 30403 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	A9NW (SE)	672	3	333000 356450
52	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Down Stream Of Tip Site Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Natural Causes Incident Date: 6th January 1995 Incident Reference: 22233 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	A19SW (NE)	673	3	333000 357495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	Pollution Incidents to Controlled Waters Property Type: Other Location: Tributary Dark Lane Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Deliberate Act Incident Date: 11th November 1991 Incident Reference: 1187 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	677	3	333000 357500
53	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Walnut Grove, LLAY Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Blocked Sewer Incident Date: 16th August 1991 Incident Reference: 3126 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	708	3	333100 356500
54	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Foot Crossing Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 3rd March 1992 Incident Reference: 3347 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	A9NW (SE)	746	3	333000 356300
55	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Down Stream Of Llay, Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 27th April 1995 Incident Reference: 23908 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	A9SW (SE)	858	3	333000 356100
56	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Garden Centre, All Along Nant, CARLTON Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Acid Note: Not Supplied Incident Date: 23rd January 1995 Incident Reference: 22404 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	882	3	333100 356200
56	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Industrial Estate, LLAY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 11th April 1995 Incident Reference: 23409 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	A9NE (SE)	885	3	333100 356195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Downstream Llay Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Blocked Sewer Incident Date: 21st October 1996 Incident Reference: 30261 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	A9NE (SE)	886	3	333105 356200
56	Pollution Incidents to Controlled Waters Property Type: Process Location: The Headwall Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 13th March 1995 Incident Reference: 22854 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 (SE)	889	3	333105 356195
56	Pollution Incidents to Controlled Waters Property Type: Process Location: HUNTINGTON Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Inadequate Design/Capacity Incident Date: 19th March 1992 Incident Reference: 3435 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	909	3	333100 356150
57	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Laedwall, Opposite Garden Centre Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 3rd February 1997 Incident Reference: 31139 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	A9NE (SE)	884	3	333130 356250
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Behind Clay Park Junior School Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 10th April 1996 Incident Reference: 27869 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	947	3	333200 356250
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Llay Woods Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 15th October 1996 Incident Reference: 30278 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	A9NE (SE)	949	3	333200 356245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	Pollution Incidents to Controlled Waters Property Type: Process Location: Down Stream Of Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 10th December 1991 Incident Reference: 1643 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	A9NE (SE)	969	3	333200 356200
59	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Other Location: Rhydyn Hall Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Neglect Incident Date: 3rd April 1995 Incident Reference: 23151 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	966	3	331200 357100
60	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Infant School, LLAY Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 20th May 1996 Incident Reference: 28392 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	A9SE (SE)	978	3	333150 356100
60	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Rear Of Infant School, LLAY Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 20th May 1996 Incident Reference: 28392 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	A9SE (SE)	981	3	333150 356095
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Astbury Quarry, LLAY Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Pulford Brook; Effluent Quality Incident Date: 18th December 1997 Incident Reference: 34303 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Poor Management Control Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A20SW (E)	999	3	333500 357300
62	Prosecutions Relating to Authorised Processes Location: Llay Industrial Estate, Wrexham Prosecution Text: Operating a waste transfer site outside the rules of his licence Prosecution Act: Epa90 S33 Hearing Date: 5th June 2007 Verdict: Guilty Fine: 16000 Costs: 0 Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	237	3	332427 356417

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Alyn GQA Grade: River Quality B Reach: Conf.Cegidog - Conf.Black Bk. Estimated Distance (km): 5.4 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A11SE (W)	955	3	331207 356741
63	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 17th May 2017 Incident Reference: 1702615 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: General Biodegradable : Other	A13SW (SW)	138	2	332186 356569
64	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 3rd February 2005 Incident Reference: 291092 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: Oils - Cutting Oils	A9SE (SE)	895	2	333092 356162
65	Water Abstractions Operator: Tarmac Topmix Ltd Licence Number: 24/67/9/0159 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: General Washing/Process Washing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 50 Yearly Rate (m3): 12500 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (E)	686	3	333210 357180
	Water Abstractions Operator: Mr T Morgan Licence Number: 24/67/8/0094 Permit Version: 100 Location: River Cegidog Authority: Environment Agency, Welsh Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Cegidog Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1473	3	331280 355580
	Water Abstractions Operator: Mr R Pilkington Licence Number: Wa/067/0007/011 Permit Version: 1 Location: Carboniferous Sandstone Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Shordley Hall Farm, Hope Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th October 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1537	2	332440 358590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr R Pilkington Licence Number: 24/67/9/0175 Permit Version: 1 Location: Carboniferous Sandstone Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Shordley Hall Farm, Hope Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1537	3	332440 358590
	Water Abstractions Operator: F Pilkington Licence Number: 24/67/9/0164 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 19 Yearly Rate (m3): 7283 Details: Carboniferous Sandstone Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1537	3	332440 358590
	Water Abstractions Operator: Pilkington Licence Number: Wa/067/0007/011 Permit Version: Not Supplied Location: Borehole For Agricultural Purpose At Shordley Hall Farm Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1537	2	332440 358590
	Water Abstractions Operator: Mr R Snow Licence Number: 24/67/8/0069 Permit Version: 100 Location: Borehole Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1852	3	332900 358860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr L Lister Licence Number: 24/67/9/0146 Permit Version: 100 Location: Borehole Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th October 1974 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1984	3	334500 357380
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13NW (N)	0	2	332355 357000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Medium	A13NW (SW)	0	2	332355 356862
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Medium	A13NE (N)	0	2	332375 356923
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SW)	0	2	332355 356862
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (SW)	0	2	332355 356862
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	2	332375 356923
	Extreme Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 439.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NW (N)	0	5	332323 356970
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13SE (SE)	142	5	332502 356728
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13SE (SE)	208	5	332517 356527
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (S)	312	5	332327 356314
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 244.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NE (S)	326	5	332469 356339
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NE (S)	331	5	332415 356311
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NE (S)	342	5	332446 356310
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8NE (S)	345	5	332399 356292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 203.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NE (S)	345	5	332399 356292
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1338.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (NW)	365	5	332160 357321
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	369	5	331785 356859
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 923.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SW (NE)	534	5	332936 357350
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SW (S)	542	5	332237 356091
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SW (S)	555	5	332232 356079
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	566	5	332505 356092
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	572	5	332770 356272
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	576	5	332403 357623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A9NW (SE)	584	5	332790 356276
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	584	5	332791 356276
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 203.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	597	5	332410 356037
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SE (S)	597	5	332410 356037
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	599	5	332706 357613
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SE (S)	604	5	332402 356029
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SE (S)	604	5	332402 356029
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SW (S)	641	5	332318 355986
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A8SW (S)	661	5	332352 355967

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 330.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	678	5	332792 357661
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 549.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	713	5	332485 357767
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	713	5	332481 357767
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	731	5	332284 355896
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	820	5	331417 356542
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	829	5	331406 356543
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 475.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3NW (S)	865	5	332080 355795
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	884	5	331350 356534
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1167.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SE (SE)	893	5	333088 356160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A20SW (NE)	925	5	333417 357309
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (W)	932	5	331295 356542
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 466.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A20SW (E)	934	5	333466 357189
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Alun Catchment Name: Dee Primacy: 1	A11SE (W)	969	5	331233 356589
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 592.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Alun Catchment Name: Dee Primacy: 1	A11SE (W)	971	5	331192 356750
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Alun Catchment Name: Dee Primacy: 1	A11SE (W)	983	5	331231 356566
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 537.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Alun Catchment Name: Dee Primacy: 1	A11SE (W)	987	5	331231 356554
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (W)	987	5	331231 356554
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A24SE (NE)	994	5	333034 357887

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Historical Landfill Sites Licence Holder: Shanks Location: Dark Lane, Llay, Wrexham Name: Astbury Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14780 First Input Date: 31st December 1983 Last Input Date: 31st December 1987 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0024 BGS Ref: Not Supplied Other Ref: WMBC L/13, NOW-510-L, 6955/0062	A14NW (E)	288	2	332834 357049
111	Licensed Waste Management Facilities (Landfill Boundaries) Name: Astbury Landfill (Rossett) Licence Number: 37116 Location: Astbury Landfill, Dark Lane, Burton, Wrexham, Clwyd, LL12 0AE Licence Holder: W R G Environmental Ltd Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Modified Issued: 17th August 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14SW (E)	232	2	332736 356806
112	Licensed Waste Management Facilities (Landfill Boundaries) Name: Bryn Y Gaer Quarry Licence Number: 37050 Location: Bryn Y Gaer, Gresford Road, Hope, Wrexham, LL12 9SD Licence Holder: Ash Waste Services Ltd Authority: Natural Resources Wales Site Category: Deposit of Waste to Land as a Recovery Operation Max Input Rate: Not Supplied Licence Status: Modified Issued: 21st January 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A17NE (NW)	742	2	331722 357524
113	Licensed Waste Management Facilities (Locations) Licence Number: ZP3594FN Location: W H Chaloner & Son Ltd, Llay Industrial Estate, Wrexham, LL12 0PJ Operator Name: W H Chaloner & Son Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Effective Issued: 20th July 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	234	2	332412 356413
113	Licensed Waste Management Facilities (Locations) Licence Number: 37135 Location: W H Chaloner & Son Ltd, Miners Road, Llay Industrial Estate, Wrexham, LL12 0PJ Operator Name: W H Chaloner & Son Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Modified Issued: 20th July 1995 Last Modified: 23rd October 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	234	2	332412 356413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	Licensed Waste Management Facilities (Locations) Licence Number: FP3894FP Location: Astbury (Rossett) Landfill, Dark Lane, Burton, Wrexham, LL12 0AE Operator Name: W R G Environmental Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Effective Issued: 11th January 2019 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	246	2	332747 356798
115	Licensed Waste Management Facilities (Locations) Licence Number: RP3994FN Location: Miner's Road Depot, Llay Industrial Estate, Wrexham, LL12 0PJ Operator Name: Wrexham Borough Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities Licence Status: Effective Issued: 9th May 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (S)	365	2	332163 356296
115	Licensed Waste Management Facilities (Locations) Licence Number: 37235 Location: Wrexham Construction Services, Miners Road, Llay Industrial Estate, Wrexham, LL12 0PJ Operator Name: Wrexham Borough Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities Licence Status: Issued Issued: 9th May 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (S)	365	2	332163 356296
116	Licensed Waste Management Facilities (Locations) Licence Number: NB3293HV Location: Llay Depot, Llay Industrial Park, Llay, LL12 0PJ Operator Name: Roadway Civil Engineering & Surfacing Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Inert & excavation Waste TS + treatment Licence Status: Effective Issued: 12th December 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (S)	420	2	332152 356241

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Licensed Waste Management Facilities (Locations) Licence Number: RP3894FC Location: P P S Skip Hire, Llay Industrial Estate, Wrexham, Clwyd, Wrexham, LL12 0PJ Operator Name: David Alan Darby Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 4th September 2003 Last Modified: Not Supplied Expires: 8th May 2009 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	442	2	332035 356286
117	Licensed Waste Management Facilities (Locations) Licence Number: 37239 Location: 12 Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Operator Name: Darby David Alan Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 4th September 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	442	2	332035 356286
118	Licensed Waste Management Facilities (Locations) Licence Number: 220007 Location: Astbury Landfill Site, Dark Lane, Rossett, Wrexham, LL12 0AE Operator Name: W R G Environmental Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfill Gas Engine (<3 mW) Licence Status: Issued Issued: 13th December 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: UP3337 Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	725	2	333200 357300
118	Licensed Waste Management Facilities (Locations) Licence Number: AB3096FL Location: Rossett Landfill Gas Utilisation Plant, Astbury Landfill Site, Dark Lane, Rossett, LL12 0AE Operator Name: W R G Environmental Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfill Gas Engine (<3 mW) Licence Status: Effective Issued: 13th December 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	725	2	333200 357300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	Licensed Waste Management Facilities (Locations) Licence Number: UP3094FQ Location: Bryn Y Gaer Quarry, Hope, Wrexham, Flintshire, LL12 9SD Operator Name: Ash Waste Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Surrendered Issued: 29th January 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 11th April 2016 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	955	2	331613 357708
119	Licensed Waste Management Facilities (Locations) Licence Number: 37050 Location: Bryn Y Gaer, Gresford Road, Hope, LL12 9SD Operator Name: Ash Waste Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Modified Issued: 21st January 1993 Last Modified: 11th March 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	955	2	331613 357708
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	332355 356862
	Local Authority Landfill Coverage Name: Flintshire Council - Has supplied landfill data		364	7	332162 357320
120	Registered Landfill Sites Licence Holder: Caird Environmental Ltd Licence Reference: L84 Site Location: Astbury Quarry Landfill, Dark Lane, Burton, Rossett, Wrexham, Clwyd Licence Easting: 333000 Licence Northing: 357000 Operator Location: North Road, Ellesmere Port, Cheshire, Ch65 1ae Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st August 1994 Preceded By: L56/A Licence: Superseded By: NOW-510-L (L84) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Alkalis Constr/Demol/Excav.Waste Contaminated Rubbish Household Waste Non-Toxic Metal Compounds Organic Acids + Related Cmpds Paper Pulp Toxic Metal Compounds Prohibited Waste Animal Carcasses/Offal Clinical Wastes Combustible/Potentially Combustible Liquid Wastes Liquified Gas / Gas Under Pressure Organohalogen Substances Percussive/Explosive/Similar Waste Special Wastes As In Appendix Vi Lic. Sub'S Control. Radioactive Subs Act'60 Waste Contain.Viable Pathogenic Org. Waste In Drums	A14NW (E)	441	3	333000 357000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Registered Landfill Sites Licence Holder: Caird Environmental Ltd Licence Reference: NOW-510-L (L84) Site Location: Astbury Quarry/Dark Lane Landfill, Burton, Rossett, Wrexham, Clwyd Licence Easting: 333100 Licence Northing: 357100 Operator Location: Dunedin House, Auckland Park, Mount Farm, MILTON KEYNES, Buckinghamshire, MK1 1BU Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is known Dated: 25th March 1999 Preceded By: NOW-510-L (L84) Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Animal Carcasses In Accordance With Maff By-Roducys Order '99 Asbestos Com. & Ind. Non-Haz. Waste Construction And Demolition Wastes Contaminated Rubbish Difficult Wastes (As In Wmp.26) Excavation Waste Household Waste Max.Waste Permitted By Licence Newly Spec.Waste (Epa'90:S62-1996) Paper Pulp Prohibited Waste: Animal Carcasses, Offal Clinical - As In Control.Waste Regs'92 Likely Danger From Combust/Fume/Gas Liquid Wastes Organometallic Compounds With Conc'Ns > 1000 Mg/Kg Organophosphorus Cmpds With Conc'Ns > 50 Mg/Kg Organosilicon Compounds With Conc'Ns > 1000 Mg/Kg Organosulphur Cmpds With Conc'Ns > 1000 Mg/Kg Pcbs/Pcts/Naphthalenes With Conc'Ns > 20 Mg/Kg Percussive/Explosive/Similar Waste Pressurised Gas Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Control. Radioactive Subs Act'60 W.With Viable Pathogenic Organisms Waste In Drums Waste N.O.S. Waste With Halogenated Hydrocarbond With Conc'Ns > 500 Mg/Kg	A14NE (E)	557	3	333100 357100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Registered Landfill Sites Licence Holder: Caird Environmental Ltd Licence Reference: NOW-510-L (L84) Site Location: Astbury Quarry/Dark Lane Landfill, Burton, Rossett, Wrexham, Clwyd Licence Easting: 333100 Licence Northing: 357100 Operator Location: North Road, Ellesmere Port, Cheshire, Ch65 1ae Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st September 1995 Preceded By: L84 Licence: Superseded By: NOW-510-L (L84) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Com. & Ind. Non-Haz. Waste Construction And Demolition Wastes Contaminated Rubbish Difficult Wastes (As In Wmp.26) Excavation Waste Household Waste Max.Waste Permitted By Licence Newly Spec.Waste (Epa'90:S62-1996) Paper Pulp Prohibited Waste: Animal Carcasses, Offal Clinical - As In Control.Waste Regs'92 Likely Danger From Combust/Fume/Gas Liquid Wastes Organohalogen Compounds Organometallic Compounds Organophosphorus Cmpds Organosilicon Compounds Organosulphur Cmpds Pcbs/Pcts/Naphthalenes Percussive/Explosive/Similar Waste Pressurised Gas Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Control. Radioactive Subs Act'60 W.With Viable Pathogenic Organisms Waste In Drums Waste N.O.S.	A14NE (E)	557	3	333100 357100
122	Registered Landfill Sites Licence Holder: The Caird Group Plc Licence Reference: L13 Site Location: Dark Lane Landfill, Rossett, Wrexham, Clwyd Licence Easting: 333000 Licence Northing: 357395 Operator Location: 33 Sekforde Street, LONDON, Greater London, EC1R 0HH Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st July 1983 Preceded By: L13 Licence: Superseded By: L13(i) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert Or Relatively Non-Polluting Mat. Prohibited Waste: Distillation Residues Fats, Waxes And Greases Notifiable Wastes Titanium From Ceramic Waste	A19SW (NE)	612	3	333000 357395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Registered Landfill Sites Licence Holder: Clwyd Waste Disposal Ltd Licence Reference: L13 Site Location: Dark Lane Landfill, Rossett, Wrexham, Clwyd Licence Easting: 333000 Licence Northing: 357400 Operator Location: Clegg House, Knutsford Way, CHESTER, Cheshire, CH1 4NP Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st November 1978 Preceded By: Not Given Licence: Superseded By: L13 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Non-Haz, Non-Toxic Waste Slag White Asbestos	A19SW (NE)	615	3	333000 357400
122	Registered Landfill Sites Licence Holder: Clwyd Waste Disposal Ltd Licence Reference: L13(i) Site Location: Dark Lane Landfill, Astbury'S Quarry, Rossett, Wrexham, Clwyd Licence Easting: 333005 Licence Northing: 357395 Operator Location: Knutsford Way, Sealand Industrial Estate, Chester, Cheshire Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1988 Preceded By: L13 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos - Blue/White Contaminated Rubbish Empty Used Containers House. + Com. Untreated Waste Interceptor Pit Wastes Max.Waste Permitted By Licence(Stated) Non-Toxic Ind.Effluent Treat'T Sludge Sewage Sludge/Pail Closet Contents Silt And Dredgings Slag Prohibited Waste: Distillation Residues Fats, Waxes And Greases Notifiable Wastes Titanium From Ceramic Waste	A19SW (NE)	616	3	333005 357395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Registered Landfill Sites Licence Holder: Caird Environmental (North West) Ltd Licence Reference: L49 (L48) Site Location: Dark Lane, Burton, Rossett, Wrexham, Clwyd Licence Easting: 333100 Licence Northing: 357295 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st November 1988 Preceded By: Not Given Licence: Superseded By: L56/A Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Asbestos - Blue/White Contaminated Rubbish Empty Used Containers House. + Com. Untreated Waste Interceptor Pit Wastes Max.Waste Permitted By Licence(Stated) Non-Toxic Ind.Effluent Treat'T Sludge Paper Pulp Wastes Trans.From L39 =60fl Sewage Sludge/Pail Closet Contents Silt And Dredgings Slag Prohibited Waste Distillation Residues Fats, Waxes And Greases Notifiable Wastes Titanium From Ceramic Waste	A19SE (NE)	636	3	333100 357295
123	Registered Landfill Sites Licence Holder: Caird Environmental (North West) Licence Reference: L56/A Site Location: Dark Lane, Burton, Rossett, Wrexham, Clwyd Licence Easting: 333100 Licence Northing: 357300 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st October 1990 Preceded By: L49 (L48) Licence: Superseded By: L84 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Aerosol Waste Asbestos - Blue/White Contaminated Rubbish Empty Used Containers House. + Com. Untreated Waste Interceptor Pit Wastes Max.Waste Permitted By Licence(Stated) Non-Toxic Ind.Effluent Treat'T Sludge Paper Pulp Wastes Trans.From L39 Sewage Sludge/Pail Closet Contents Silt And Dredgings Slag Prohibited Waste Distillation Residues Fats, Waxes And Greases Notifiable Wastes Titanium From Ceramic Waste	A19SE (NE)	638	3	333100 357300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Registered Landfill Sites Licence Holder: Astbury Quarries Ltd Licence Reference: L39 Site Location: Dark Lane (Ext), Burton, Rossett, Wrexham, Clwyd Licence Easting: 333100 Licence Northing: 357300 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Builders Rubble China Clay Paper Material	A19SE (NE)	638	3	333100 357300
124	Registered Landfill Sites Licence Holder: Caird Environmental Ltd Licence Reference: NOW-421-L (173/92) Site Location: Bryn Y Gaer Quarry, Hope, Wrexham, Clwyd Licence Easting: 331550 Licence Northing: 357550 Operator Location: Dark Lane Landfill, Burton, Rossett, Clwyd Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site dormant Dated: 29th January 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brickwork, Concrete Fired Enamel, Fired Ceramics, Mica, Glass, Pottery, Fired China, Max.Waste Permitted By Licence Rubble, Hardcore Stone, Clay, Sand, Silica, Carbon, Topsoil, Subsoil Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs) Waste In Skips Waste N.O.S (Whether/Not Pre-Trt/Pack'	A17NW (NW)	871	3	331550 357550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Registered Waste Treatment or Disposal Sites Licence Holder: W H Chaloner & Sons Ltd Licence Reference: NOW-520-L (L86) Site Location: Miners Road, Llay Industrial Estate, Wrexham, Clwyd Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Scrapyard Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is known Dated: 20th July 1995 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Batteries Max.Stor Elect'L Equip.(Not Transformer) Mstor Engines Max.Stor Ferrous Metal Other Max.Stor Ferrous Metal Swarf Max.Stor Machinery Max.Stor Non-Ferrous Metal Other Max.Stor Non-Ferrous Metal Swarf Max.Stor Vehicles Max.Stor Prohibited Waste Ammonia Asbestos Cadmium Compounds Carcinogenic/Mutagenic/Teratogenic Was Cyanide Compounds Elemental Sodium/Potassium Fluorine Cpds Liquid Waste N.O.S. Mercury Compounds Metal In Fine Powder Form Nitrate Cpds Organohalogen Compounds Organometallic Cmpds Organophosphorus Cmpds Organosilicon Cmpds Organosulphur Cmpds Pcbs/Pcts/Naphthalenes Percussive/Explosive/Similar Waste Pressurised/Liquified Gas Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Sub'S Control. Radioactive Subs Act'60 Subs Deleterious To Groundwater Sulphide Compounds Waste In Drums Waste N.O.S. Water Soluble Waste (Except Coolant)	A8NE (S)	289	3	332415 356355

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A13NW (SW)	0	1	332355 356862
126	BGS Recorded Mineral Sites Site Name: Llay Main Colliery, No. 2 Shaft Location: Llay, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 189414 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	406	1	332710 356479
127	BGS Recorded Mineral Sites Site Name: Lower Rackery Location: Hope, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138036 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Sheet Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	452	1	332636 357482
128	BGS Recorded Mineral Sites Site Name: Llay Main Colliery, No. 1 Shaft Location: Llay, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14066 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	480	1	332790 356479
129	BGS Recorded Mineral Sites Site Name: Llay Main Colliery Tip Location: Llay, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14051 Type: Tip Status: Active Operator: Hanson Cement Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Mine Waste Tip (Colliery) Commodity: Colliery Spoil Positional Accuracy: Located by supplier to within 10m	A8SE (S)	504	1	332480 356150
130	BGS Recorded Mineral Sites Site Name: Llay Main Colliery Methane Plant Location: Llay, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14052 Type: Liquid or Gas Extraction Status: Active Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Abandoned Mine Methane Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	536	1	331980 356210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	BGS Recorded Mineral Sites Site Name: Bank Farm Location: Burton Rossett, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4747 Type: Opencast Status: Ceased Operator: Redland Aggregates/Caird Environmental Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Sheet Deposits, Devensian (Wrexham Gravels) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	615	1	333130 357190
132	BGS Recorded Mineral Sites Site Name: Bryn-Y-Gaer Location: Hope, Wrexham, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 138038 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn-Y-Fedw Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	771	1	331654 357509
133	BGS Recorded Mineral Sites Site Name: Yr Ackery Sand Pit Location: Caergwrle, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138043 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Sheet Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A14NE (E)	807	1	333338 357176
134	BGS Recorded Mineral Sites Site Name: Rhydyn Hall Location: Llay, Cefn-Y-Bedd, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138109 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	823	1	331403 356565
135	BGS Recorded Mineral Sites Site Name: Bryn-Y-Gaer Location: Hope, Wrexham, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 138037 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn-Y-Fedw Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	836	1	331532 357481
136	BGS Recorded Mineral Sites Site Name: Bryn-Y-Gaer Quarry Location: Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15655 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn-Y-Fedw Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	910	1	331537 357591

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (SW)	0	8	332355 356862
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SW)	0	-	332355 356862
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	114	1	332178 357087
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	332375 356923
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	332375 356923
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	247	1	332157 356434
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	332375 356923
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	332355 356851
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	332355 356851
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	332355 356862

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Contemporary Trade Directory Entries Name: C D R Ltd Location: Davy Way, Llay Indust Est, Llay, Wrexham, Clwyd, LL12 0PG Classification: Wood Products, Except Furniture - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	22	-	332364 356648
138	Contemporary Trade Directory Entries Name: Sharp Manufacturing Location: Sharp House, Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	59	-	332468 356833
139	Contemporary Trade Directory Entries Name: Sharp Location: Sharp House Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	71	-	332411 356721
140	Contemporary Trade Directory Entries Name: Scotair H V A C Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	101	-	332216 356590
140	Contemporary Trade Directory Entries Name: Magellan Location: Davy Way, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PG Classification: Sheet Metal Work Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	101	-	332216 356590
140	Contemporary Trade Directory Entries Name: D H D Engineering Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	102	-	332216 356590
140	Contemporary Trade Directory Entries Name: Scottaire Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Air Conditioning Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	102	-	332216 356590
141	Contemporary Trade Directory Entries Name: Celtic Leather Crafts Location: Unit 18, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Leather Garments & Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	139	-	332264 356498
141	Contemporary Trade Directory Entries Name: Hillcrest Furnishings Location: Unit 18, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NW (S)	139	-	332264 356498
141	Contemporary Trade Directory Entries Name: M & P Enterprises Group Location: Unit 22, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Car Paint & Lacquer Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	147	-	332238 356503
141	Contemporary Trade Directory Entries Name: Wilson Auto Repairs Location: Llay, LL12 0PJ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	148	-	332236 356503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Contemporary Trade Directory Entries Name: Alphawrap Location: Unit 13, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	178	-	332263 356457
141	Contemporary Trade Directory Entries Name: Techlab Services Location: Unit 15, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Laboratory Equipment, Instruments & Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	185	-	332244 356456
141	Contemporary Trade Directory Entries Name: Arco Scientific (Uk) Ltd Location: Unit 15, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Laboratory Equipment, Instruments & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	185	-	332244 356456
141	Contemporary Trade Directory Entries Name: Arco Scientific (Uk) Ltd Location: Unit 15, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	185	-	332244 356456
141	Contemporary Trade Directory Entries Name: Arco Scientific Location: Unit 15, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NW (S)	185	-	332244 356456
141	Contemporary Trade Directory Entries Name: Abba 2000 Location: Unit 15, Miners Rd, Llay Ind Est, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NW (S)	186	-	332244 356456
142	Contemporary Trade Directory Entries Name: Marlin Industries Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Wood Products, Except Furniture - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	140	-	332138 356625
142	Contemporary Trade Directory Entries Name: Elsteel Uk Ltd Location: Davy Way, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PG Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	167	-	332110 356617
142	Contemporary Trade Directory Entries Name: Revalco Uk Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, LL12 0PG Classification: Electricity Generating & Distributing Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	167	-	332103 356626
142	Contemporary Trade Directory Entries Name: O & S Electronic Services Ltd Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	181	-	332100 356607
143	Contemporary Trade Directory Entries Name: A G M Plastics Ltd Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Plastics - Machinery & Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	160	-	332162 356564
143	Contemporary Trade Directory Entries Name: The Unit Location: Unit 5, 6, Davy Way, Llay Industrial Estate, Llay, Wrexham, LL12 0PG Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	164	-	332160 356560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	Contemporary Trade Directory Entries Name: A M P Engineering Solutions Ltd Location: Unit B, Davy Way, Llay, LL12 0PG Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	182	-	332132 356566
143	Contemporary Trade Directory Entries Name: Centaur Products Ltd Location: Unit B, Davy Way, Llay, LL12 0PG Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	182	-	332132 356566
143	Contemporary Trade Directory Entries Name: Cherrysource Location: Unit 2, 6, Davy Way, Llay Industrial Estate, Llay, Wrexham, LL12 0PG Classification: Rubber & Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	189	-	332141 356543
143	Contemporary Trade Directory Entries Name: Fry Fresh Ltd Location: 6 Davy Way, Llay Ind Est, Llay, Wrexham, Clwyd, LL12 0PG Classification: Oil Recycling & Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	195	-	332137 356539
144	Contemporary Trade Directory Entries Name: Wrexham Plastics Co Ltd Location: Trevor House, Miners Road, Llay Industrial Estate, Llay, Wrexham, LL12 0PJ Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	191	-	332420 356467
144	Contemporary Trade Directory Entries Name: Sita Uk Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	193	-	332397 356452
145	Contemporary Trade Directory Entries Name: Abba Catering Engineers Location: 15-20 Miners Rd, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	204	-	332301 356424
145	Contemporary Trade Directory Entries Name: Contra-Pak Location: Miners Rd, Llay Ind Est, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	210	-	332362 356422
145	Contemporary Trade Directory Entries Name: Edge Transport Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	230	-	332327 356397
145	Contemporary Trade Directory Entries Name: Mectec Location: 18 Miners Park, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	245	-	332364 356387
146	Contemporary Trade Directory Entries Name: Hayakawa Location: Unit 5, Davy Way, Llay, LL12 0PG Classification: Cable & Wire Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	211	-	332158 356487
146	Contemporary Trade Directory Entries Name: Clwyd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Fuel Injection Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	243	-	332143 356457

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Contemporary Trade Directory Entries Name: Charcroft Electronics Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	226	-	332461 356453
147	Contemporary Trade Directory Entries Name: Fast Rite Industrial Services Location: Unit 5, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Blast Cleaning Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A8NE (S)	256	-	332487 356436
147	Contemporary Trade Directory Entries Name: P R Pugh Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	298	-	332518 356407
148	Contemporary Trade Directory Entries Name: R R C Crane Hire Ltd Location: Unit 31, Miners Road, Llay, LL12 0PJ Classification: Crane Hire, Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	236	-	332275 356395
149	Contemporary Trade Directory Entries Name: N P C Commercials Ltd Location: Unit 32, Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	250	-	332220 356396
150	Contemporary Trade Directory Entries Name: W H Chaloner & Son Ltd Location: Miners Road, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PJ Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	271	-	332430 356381
150	Contemporary Trade Directory Entries Name: E Thomas Location: Miners Rd, Llay Ind Est, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	271	-	332430 356381
150	Contemporary Trade Directory Entries Name: Beltek Location: Miners Rd, Llay Ind Est, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Conveyors & Conveyor Belts Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	271	-	332430 356381
151	Contemporary Trade Directory Entries Name: Willow Fresh Foods Location: Davy Way, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PG Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	317	-	332204 356330
152	Contemporary Trade Directory Entries Name: Ecovyn Location: Unit 1 Prospect Estate, Miners Road, Llay, Wrexham, Clwyd, LL12 0PB Classification: Plastic Products - Manufacturers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	325	-	332566 356416
153	Contemporary Trade Directory Entries Name: R A & C E Platt Ltd Location: Miners Road, Llay Industrial Estate, Llay, WREXHAM, Clwyd, LL12 0PJ Classification: Wood Recycling Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	337	-	332084 356384
154	Contemporary Trade Directory Entries Name: Plusfood Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	338	-	332638 356489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	Contemporary Trade Directory Entries Name: Fribo Foods Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	338	-	332638 356489
154	Contemporary Trade Directory Entries Name: Plus Food Wrexham Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	338	-	332638 356489
154	Contemporary Trade Directory Entries Name: Tyson Wrexham Foods Ltd Location: Miners Road, Llay Industrial Estate, Llay, Wrexham, LL12 0PJ Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	346	-	332647 356488
155	Contemporary Trade Directory Entries Name: Tycon Automation Ltd Location: Unit I Llay Industrial Units, Llay Industrial Estate, Rackery Lane, Wrexham, LL12 0PB Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	357	-	332752 356657
155	Contemporary Trade Directory Entries Name: I & S Cars Location: Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14SW (SE)	380	-	332766 356639
155	Contemporary Trade Directory Entries Name: I & S Cars Location: Unit B Schappe Building, Llay Industrial Estate, Rackery Lane, Llay, Wrexham, LL12 0PB Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	380	-	332766 356639
156	Contemporary Trade Directory Entries Name: G T Auto Repairs Location: Llay Industrial Estate, Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	367	-	332707 356613
156	Contemporary Trade Directory Entries Name: Alunox Advanced Tube Engineering Ltd Location: Unit C Schappe Building, Llay Industrial Estate, Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Classification: Exhaust System Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	367	-	332707 356613
156	Contemporary Trade Directory Entries Name: A C M E Precision Engineering Ltd Location: Llay Industrial Estate, Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	367	-	332707 356613
156	Contemporary Trade Directory Entries Name: Alunox Welding Systems Ltd Location: Llay Industrial Estate, Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Classification: Exhaust System Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	367	-	332707 356613
157	Contemporary Trade Directory Entries Name: The Tyre Factory Location: New Office, Miners Rd, Llay Indust Est, Llay, Wrexham, Clwyd, LL12 0PJ Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	373	-	332632 356416