



Novidon Limited

Site Condition Report

**Application for Environmental Permit for Modified Starch
Manufacturing Facility and Medium Combustion Plant**

**Coed Aben Road, Wrexham Industrial Estate,
Wrexham, Clwyd, LL13 9UH**

Report Ref: CE-WH-1801-RP03-SCR-V1-Final



CRESTWOOD ENVIRONMENTAL LTD

ENVIRONMENT	LANDSCAPE	NOISE	LIGHTING
ECOLOGY	HERITAGE	WATER	TREES
MINERALS / WASTE	AIR QUALITY	LAND QUALITY	VISUALISATION

Produced by Crestwood Environmental Ltd.

06 January 2023

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The report is provided for the sole use of the named client and is confidential to them and their professional advisors unless otherwise stated in an accompanied 'letter of reliance' with an official Crestwood Environmental Limited letterhead`. No responsibility is accepted to others.

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1 SITE DETAILS

1.1 BACKGROUND

- 1.1.1 Crestwood Environmental Ltd. have been instructed by Novidon Ltd (***the Client***) to prepare and submit a Site Condition Report in support of the application for an Environmental Permit for a modified starch manufacturing facility and medium combustion plant at Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH (***the Site***).
- 1.1.2 The Site falls under the requirements of the Environmental Permitting (England and Wales) Regulations 2016, in accordance with:
- Schedule 1, Part 2, Chapter 4, Section 4.1, Part A (1):
(a) (ii) organic compounds containing oxygen (e.g. alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins)
 - Schedule 1, Part 2, Chapter 6, Section 6.8, Part A (1):
(g) the manufacture of starch
 - Schedule 25A, Part 1, Paragraph 2(1):
“new medium combustion plant” (means a medium combustion plant which is not an existing medium combustion plant).
- 1.1.3 The Client proposes to install a Jenbacher combined heat and power (CHP) plant at the Site whilst current operations involve the modification of starches to produce high quality wallpaper paste flake and drilling starches for the geological drilling industries.
- 1.1.4 The Site Condition Report has been prepared using Natural Resources Wales’ H5 Guidance and supporting Template.
- 1.1.5 Site details are shown in Table 1 below.

Table 1: Site Details

Site Details	
Name of the Applicant	Novidon Ltd.
Activity Address	Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH
National Grid Reference	SJ 37690 49793
Document Reference and Dates for Site Condition Report at Permit Application and Surrender	CE-WH-1801-RP03-SCR-Final August 2021 (this Report)
Document References for Site Plans (including location and boundaries)	Drawing No CE-WH-1801-DW01, Fig 1

2 CONDITION OF LAND AT PERMIT ISSUE

2.1 THE SITE AND SURROUNDING AREA

- 2.1.1 Currently, the Operator produces modified starch products from reactants comprising of starch substrate materials which are transferred into the facility and modified in various stages. Details of the processes involved can be found in the In-Process Controls report (reference: CE-WH-1801-RP01) and BAT Assessment (reference: CE-WH-1801-RP11), which support the permit application.
- 2.1.2 There is a dedicated enclosed building with a concrete floor on the Site in addition to a concreted and tarmac external yard area. The internal floor is completely sealed with no inside drainage outlet to ensure that any leakages or inadvertent spillages are contained within the building. Both the internal concreted and external concreted and tarmac floors are in good condition, as is the integrity of the building.
- 2.1.3 The Site, centred on National Grid Reference: SJ 37690 49793, is located on Wrexham Industrial Estate, Pentre Maelor approximately 4.16km east of central Wrexham. Access to the Site is gained via Coed Aben Road to the south and it is directly surrounded by industrial units and businesses in the Industrial Estate. The Village Bakery and Juvela Bakery (Nutrition Ltd) is the closest business unit located c.15m west of the Site's permit boundary, refer to Drawing No CE-WH-1801-DW01, Fig 1.
- 2.1.4 Other businesses in close proximity include CIG Ltd, Zi Bodyshop and Prontoprint located c.85m south of the Site on the opposite side of Coed Aben Road. East of the Site at approximately 110m, is the industrial unit of the Ardagh Group whilst to the immediate north there is a patch of tress and a parcel of derelict land.
- 2.1.5 In terms of residential receptors, the closest is Little Friars Farm c. 340m west of the Site. Within a radius of 500m from the permit boundary, there are no further residential receptors. There is a residential property c.560m west of the Site on Redwither Lane and HMP Berwyn is c.540m to the south-east.
- 2.1.6 Although the immediate vicinity of the Site consists of industrial units and businesses, the wider surrounding landscape is predominantly rural with agricultural fields. The tributary Redwither Brook is located c.49m to the south west of the Site and flows in an easterly direction into the River Clywedog/Aon Clywedog at c. 946m to the south-east.
- 2.1.7 Surface water run-off from the yard falls to surface water drains which discharge to surface water sewer, which in turn falls to the Redwither Brook. There are two discharge points to the sewer on Site and both drainage runs are fitted with penstock valves close to and upstream of the discharge points (see Drawing No 001 'Site Plan – Drainage Layout'). The penstock valves are kept closed as a matter of routine, so that in the event of an accidental spillage on Site there would be no discharge to the surface water sewer.
- 2.1.8 It is important to note that all manufacturing processes take place inside the building and not on the external yard area. Given that the building is a fully contained system, there is no internal drainage therefore no connection to the external yard drainage system.
- 2.1.9 There is a foul sewer drainage system on Site, which receives waste waters from the welfare facilities

(e.g. toilets and wash basins) and surplus water from wash downs and scrubber liquours associated with the manufacturing process and starch refinery. A Trade Effluent Discharge Consent issued by Dwr Cymru Cyfyngedig (Welsh Water) is in force for the Site, see Appendix 1.

- 2.1.10 In terms of ecological designations, within a 2km radius of the application, there are no Sites of Special Scientific Interest (SSSI), Special Area of Conservation (SAC), Special Protection Area (SPA), RAMSAR sites, National Nature Reserves or Local Nature Reserves. The belt of deciduous trees adjacent to the south western part of the Site is classed as Priority Habitat – Deciduous Woodland, See Section 2.6.

2.2 GEOLOGY

- 2.2.1 The British Geological Survey (BGS) maps (<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>) state that the superficial deposits on the Site and the immediate vicinity comprises Diamicton Till.
- 2.2.2 In terms of bedrock geology, the Site is underlain with the Salop Formation of the Warwickshire Group. These deposits are typically coarse to fine grained sediments comprising mudstone, sandstone and conglomerates derived from a fluvial setting.
- 2.2.3 The Site is not on or adjacent to land designated nationally or locally for its geological importance.

2.3 HYDROLOGY AND HYDROGEOLOGY

Surface Water / Rivers

- 2.3.1 Within a 250m radius of the Site's boundary, there is one identified water feature, the Redwither Brook located 49m to the southwest of the Site at its closest extent. With an easterly flow regime, this merges into the River Clywedog at 946m to the south east of the Site. This falls under the water body catchment of Clywedog – Dee to Gwenfro and in order to achieve the purpose of the Water Framework Directive (WFD), environmental objectives have been set and are reported on for each water body.
- 2.3.2 The overall rating and the ecological rating of the River Clywedog along with any other water body within 250m of the Site (i.e. Redwither Brook), is moderate whilst the chemical rating is classified as a fail. There are no further surface water courses or features within 1km and none of those identified cross the Site.

Licensed Discharges to Controlled Waters

- 2.3.3 Based on information from the Groundsure Enviro Insight Report (refer to Appendix 2), there are twenty records of discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991. For ease of reference, these have been tabulated below in Table 2.

Table 2: Licensed Discharges to Controlled waters within 500m of the Site

Distance/ Direction	Address	Details	Status
243m S	Factory, Coed Aben Road	Unspecified effluent into Redwither brook	Consent Expired 28/04/1993
260 SW	Plot 6, Clywedog Road	Unspecified effluent type into stream near Redwither Brook	Consent expired 28/01/1990
260m SW	Plot 6, Clywedog Road	Unspecified effluent type into stream near Redwither Brook	Consent expired 06/05/1993
265m SE	Continental Can Co. Ltd.	Unspecified trade discharges into Redwither Brook	Revoked 08/03/1994
265m SE	Continental Can Co. Ltd.	Unspecified trade discharges into Redwither Brook	Revoked 21/01/2004
283m E	Wrexham Industrial Estate. Dis.2.	Unspecified effluent type into stream near Redwither Brook	Consent expired 28/04/1993
294m E	Wrexham Industrial Estate - Discharg	Unspecified effluent type into stream near Redwither Brook	Consent expired 28/04/1993
311m E	PCB Containment Cell, Marlborough Road, Wrexham	Unspecified trade discharges into Redwither Brook	Revoked 27/03/1995
311m E	Wrexham Industrial Estate - Discharge	Unspecified effluent type into Redwither Brook	Consent expired 28/04/1993
352m E	Wrexham Industrial Estate - Discharge	Unspecified effluent type into Redwither Brook	Consent expired28/04/1993
353m E	PCB Containment Cell, Marlborough Road, Wrexham	Unspecified trade discharges into Redwither Brook	Effective
363m E	Wrexham Industrial Estate.Dis.6	Unspecified trade discharges into Redwither Brook	Consent expired 28/04/1993
366m W	Unit 2, Little ErLas, ErLas lane, Abenbury, Wrexham	Unspecified effluent type into Redwither Brook	Effective
382m SE	British Celanese, Wrexham Industrial Estate	Unspecified effluent type into Redwither Brook	Consent expired 26/02/1993
387m W	Unit 2, Little ErLas, ErLas lane, Abenbury, Wrexham	Unspecified effluent type into Redwither Brook	Effective
389m W	Unit 2, Little ErLas, ErLas lane, Abenbury, Wrexham	Unspecified effluent type into Redwither Brook	Effective
396m SE	Conren Ltd., Wrexham Industrial Estate	Unspecified effluent type into tributary of Redwither Brook	Consent expired 26/04/1995
397m E	Wrexham Industrial Estate - Discharge	Miscellaneous effluent discharges into Redwither Brook	Consent expired 28/04/1993
414m N	British Celanese (site superseded), Wrexham Industrial Estate	Unspecified effluent type into tributary of Redwither Brook	Consent expired 26/02/1993
422m E	Wrexham Industrial Estate.Dis.8	Unspecified effluent type into Redwither Brook	Consent expired 28/04/1993

Surface Water Abstractions

- 2.3.4 Within 2000m of the Site, records indicate that there is one licensed surface water abstraction which is located 612m to the north. Its status is historical and its purpose was for non-evaporative cooling. The maximum daily volume was 27.276m³ and the water was sourced from a tributary of the Redwither Brook.

Groundwater Abstractions

- 2.3.5 Licensed groundwater abstractions are for sites that extract more than 20 cubic metres of water per day. There are eleven such licences identified, both active and historical, within 2000m of the Site's permit boundary. Table 3 below provides details.

Table 3 : Groundwater Abstraction within 2000m

Location	Licence Holder/Status	Volumes(m ³)/Dates
790, 795 and 892m SE	Calypso Soft Drinks Ltd Historical Licence No :24/67/7/0213	Volume not specified Start Date : 10/09/1998 Expiry Date : 10/09/2001
790, 795 and 892m SE	Calypso Soft Drinks Ltd Historical Licence No :24/67/7/0222	Volume/annum : 131400 Start Date : 10/09/2001 Expiry Date : 31/03/2012
790, 794 and 892m SE	Calypso Soft Drinks Ltd Historical Licence No :WA/067/0007/006	Volume/annum : 131400 Start Date : 01/04/2012 Expiry Date : 31/03/2022
892m SE	Licence Holder not specified Licence No : WA/067/0007/006	Volume/Annum : 131400 Start Date : 02/10/2016 Expiry Date : 30/03/2027
1361m N	Historical Licence No : 24/67/9/0130	Volume not specified Start Date : 14/06/1968 Expiry Date : Not specified

Aquifer Classification

- 2.3.6 Based on records gathered from the British Geological Survey website <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> and information in the Groundsure report, the groundwater on Site would be held within the bedrock which has an aquifer status of Secondary A, that being permeable layers capable of supporting water supplies at a local rather than strategic scale and in some cases, forming an important source of base flow to rivers.
- 2.3.7 The aquifer status alters to a Principal designation from 335m north west of the Site as the bedrock here comprises high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply and river base flow at a strategic scale.
- 2.3.8 Designated as a Secondary Undifferentiated aquifer, the superficial deposits on-Site are unsuitable for holding and transmitting water and in general, the status of these layers were previously both minor and non-aquifer.

Groundwater Source Protection Zones

- 2.3.9 These zones ensure water is consumable as well as assisting in the monitoring of the risk of contamination from any activities that potentially cause pollution in the area. A Source Protection Zone defines the sensitivity around a deep groundwater abstraction to contamination. The Site location is not defined as a Groundwater Source Protection Zone and falls within a low Groundwater Vulnerability Zone due to the low permeability potential of the superficial deposits that offer the greatest protection to groundwater from pollution.

Nitrate Vulnerable Zone

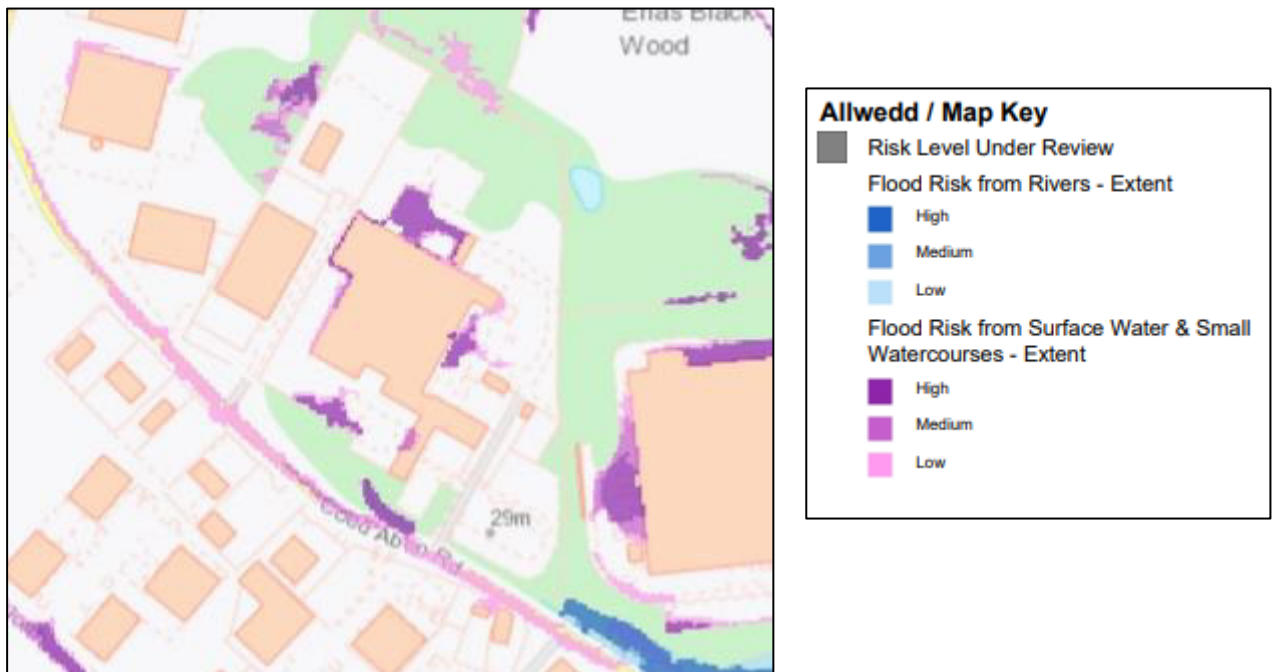
- 2.3.10 Nitrate Vulnerable Zones (NVZ), under the EC Nitrate Directive (91/676/EEC), are designated areas of land that drain into nitrate polluted waters or waters which have the potential to become polluted by nitrates. They are defined as 'catchments where nitrate concentrations in sources of public drinking water exceed, or are likely to exceed, the EC limit of 50 milligrams per litre'. Records show that within 2000m of the Site, there are no identified NVZ.

2.4 FLOOD RISK

Surface Water Flood Risk

- 2.4.1 According to the National Resources Wales (NRW) website <https://naturalresources.wales/evidence-and-data/maps/long-term-flood-risk/?lang=en> the Site does not have a risk of flooding by rivers and has a low, medium and high risk of flooding from surface water and small watercourses (see Figure 1 below)

Figure 1: Surface Water Flood Risk Map



- 2.4.2 Information gathered from the Groundsure report regarding river and coastal flooding shows that within 50m of the Site, there is no risk of flooding from rivers and seas. Within 250m of the Site, there are no records of historical flood events, flood defenses, areas benefitting from flood defenses or

flood storage areas.

- 2.4.3 Despite records indicating that there are no Flood Zone 2 or 3 areas within 50m of the Site (i.e the Site is classified as a Flood Zone 1 area therefore the land is assessed to have less than 1 in 1,000 annual probability of flooding), the Ambient Risk Analytics surface water FloodMap identifies that the highest risk of flooding on the Site as a result of an extreme rainfall event is 1 in 30 years, 0.1-0.3m.

Groundwater Flood Risk

- 2.4.4 The risk assessment for groundwater flooding is based on a 1 in 100 year return period and a Digital Terrain Model (DTM) which indicates that the highest risk on Site and within 50m of the boundary is low.

2.5 INFILLED LAND

- 2.5.1 Infilled land is 'areas where the ground has been cut away then wholly or partially backfilled'. According to NRW regulation, BGS records and Local Authority (LA) and historical mapping records, the Groundsure report (appended as Appendix 2) identifies no active, recent or historical landfilled areas within a 500m radius of the Site.
- 2.5.2 There are however four identified known historical landfill sites within 500m of the Site where there is no Environmental Permit currently in force. This includes sites that existed prior to the waste licensing regime and sites that were licenced in the past but the licence was revoked, ceased to exist or surrendered with a certificate of completion issued. Table 4 below outlines the details of these sites (note that the four landfills are adjacent and are operated by the same licence holder for the same duration. It is therefore considered that this is one site with four separate infilled areas).

Table 4: Historical Landfill within 500m

Location	Licence Holder	Waste Types/Details	Dates
168m E	British Celanese Ltd	Industrial, liquid sludge	31/12/1953 to 31/12/1983
174m E	British Celanese Ltd	Industrial, liquid sludge	31/12/1953 to 31/12/1983
220m E	British Celanese Ltd	Industrial, liquid sludge	31/12/1953 to 31/12/1983
276m E	British Celanese Ltd	Industrial, liquid sludge	31/12/1953 to 31/12/1983

2.6 ENVIRONMENTAL DESIGNATIONS/PROTECTED SITES

- 2.6.1 The Magic Map website (<http://www.natureonthemap.naturalengland.org.uk/magicmap.aspx>) shows that there are no European Sites (i.e. Special Area of Conservation (SAC), Special Protection Areas (SPA's), RAMSAR sites), Sites of Special Scientific Interest (SSSI), national Nature Reserve (NNR), Local Nature Reserve (LNR) or other statutory sites within a 2km radius of the application.
- 2.6.2 In addition, there are no Visual and cultural designations neither is there any Agricultural or Habitat Designations within 2km of the Site. There are seventeen Designated Ancient Woodland within a 2km radius of the Site. The woodland types are all categorised as Restored Ancient Woodland Sites with their names unknown and they range from 39m at the closest extent to 1888m at the furthest.

2.7 POLLUTION HISTORY

Pollution Incidents that may have affected the Land

2.7.1 The Groundsure report shows that there have been no reported pollution incidents on the Site itself, although thirty have been recorded within 500m of the boundary. At the closest extent, there was a pollution incident 41m to the south east of the Site categorised as causing significant environmental impact to water i.e. it may have persistent and extensive effects on the quality of the environment, there may be major damage to the ecosystem, agriculture and commerce and it may have a serious impact upon man. This occurred on 19 January 2006 incident number 371865. The incident caused no impact to land or air.

2.7.2 There are no records indicating within 500m of the Site of any pollution inventory substances, waste transfers or radioactive waste occurrences. Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances into the environment indicate seven sites within 500m of the Site, the closest of which is 131m to the south east. The licence holder is Ardagh Metal Beverage, Bridge Street, Wrexham Industrial Estate, LL13 9PS and the status of the permit is a current Part A2 for coating processes.

Historical Land Uses and Associated Contaminants

2.7.3 On the Site itself, there have been seven historical industrial land uses identified that were potentially contaminative. These are tabulated below in Table 5.

Table 5: Historical Industrial Land Uses on the Site

Land Use	Dates Present
Unspecified Heap	1964
Unspecified Workshop	1977
Unspecified Workshop	1992
Unspecified Commercial/Industrial	1964
Unspecified tank	1977
Unspecified tank	1993-1994
Unspecified tank	1976-1991

2.7.4 Areas of military land have been digitised from multiple sources including the National Archives, local records, MOD records and other verified sources to identify historical military land within 500m of the Site. One such area has been identified on the Site itself with the name of ROF Wrexham, which was operational between c.1938 and 1945. Activities were recorded as follows: 'c. WW2: Produced cordite; post WW2: Cordite production ceased in 1945 and the area was used as an industrial estate by the Welsh Development Agency to boost the local economy; Explosives Factory.'

2.7.5 Historical maps of the Site obtained from www.old-maps.co.uk have been reviewed as part of this Site Condition Report. The plans date back to 1873, refer to Table 6 below:

Table 6: Sequence of Historical Activities on Site

Date	Land Use
1873	The Site and surrounding area comprises agricultural land and plantations
1881	Largely no change
1899-1900	Erlas wood is to the immediate north and a footpath traverses the Site. In the vicinity, a few more farms and properties are present
1911-1912	Largely no change
1914	There appears to be an increase in the amount of woodland patches in the area. The Site itself remains an agricultural field
1938-1954	Largely no change
1961	A distinct change from earlier maps in so far as much of the industrial estate has been established in the vicinity of the Site. Although the Site itself is unoccupied, on the south eastern edge, there are two possible storage areas on raised banks. Directly beyond the north western boundary of the Site is a ridged bank in front of an elongated building
1964	A few more industrial units have been constructed, otherwise largely unchanged from the previous map
1972-1985	The present day building occupies the Site and is also of a similar construction. The factory adjacent to the east of the Site is also present. The raised and ridged banks are now absent.
1979-1983	As above although the factory to the east of the Site is absent which indicates it was constructed between 1983 and 1985
1992	The Wrexham Industrial estate is established and is similar to the present day layout.

2.7.6 Records show that from approximately 1938-1945, the Site was classified as a Royal Ordnance Factory (ROF) which produced Cordite, a smokeless propellant developed to replace gunpowder for the military. It is a low explosive due to its low burning rates.

2.7.7 The historical map dated 1938-1954 depicts predominantly rural environs whereas the map dated 1961 shows hachures, which are raised banks of earth that surround relatively small square structures. This is typical of ammunition plants where storage areas and associated buildings are constructed with raised or ridged banks around them. In the event of a building or storage area exploding, the neighbouring ones are therefore protected.

Evidence of Historic Contamination

2.7.8 The Site Walkover was undertaken on the 03 September 2020. The entirety of the external area of the Site consists of a yard with an engineered concrete and tarmac surface. There is also an enclosed, dedicated building comprising a fully concreted floor. There were no visible signs of likely ground contamination, oil or diesel contamination or ground staining by hydrocarbons. There was no evidence of vegetation stress in the vicinity of the Site.

3 PERMITTED ACTIVITIES

3.1.1 The Operator, Novidon Ltd, modifies starches to produce high quality wallpaper paste flake and drilling starches for the geological drilling industries. In addition, it is proposed to install a Jenbacher combined heat and power (CHP) plant.

3.1.2 The CHP plant will comprise a Jenbacher J312GS gas engine, which has an electrical output of

524Kw/hr and a recoverable heat output of 659 Kw/hr. Its net rated thermal input is 1363Kw/hr, as a result of which it is classed as a Medium Combustion Plant.

- 3.1.1 Starch substrate materials (reactants) are brought into the facility and are modified in several stages:
1. Reaction with sodium hydroxide and cross-linking agents in two large reaction vessels.
 2. Transfer of the admixture to two horizontal mixing tanks where sodium monochloroacetate (SMCA) is added to produce a carboxylate derivative via carboxymethylation. The resultant product is then dropped out of the reaction vessels where it is transferred to dryers. The moisture content prior to drying is 32%.
 3. SMCA is produced 'in-house' by the Operator by the controlled reaction of sodium hydroxide solution (32% rayon grade) with 80% monochloroacetic acid.
 4. The dryers remove moisture from the reaction product and the material then goes to the rollers to produce a thin film of product at 8-10% moisture.
 5. This product then goes into the flakers to produce a fine flake which is then dosed with merkal (a biocide used to preserve product integrity prior to bagging and sale). The manufactured product is a high-quality wallpaper paste flake.
 6. Any low grade or rejected flakes for wallpaper paste production are instead bagged for use as a drilling starch for supply to the geological drilling industry.
- 3.1.2 Some substances used for processes at the Site are classified in Annex I (*Categories of activities as referred to in Article 10*) of the Industrial Emissions Directive (Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on Industrial Emissions (integrated pollution prevention and control)).
- 3.1.3 Such substances include sodium hydroxide which is categorised in Section 4 (*Chemical Industry*) of Annex I of the Directive under the activity 4.2 (c) *Production of inorganic chemicals such as bases such as ammonium hydroxides, potassium hydroxide and sodium hydroxide*.
- 3.1.4 Additionally, sodium monochloroacetate and monochloroacetic acid are categorised in Section 4 of Annex I of the Directive under 4.1 (b) *oxygen containing hydrocarbons such as alcohols, aldehydes, ketones, carboxylic acids, esters and mixtures of esters, acetates, ethers, peroxides and epoxy resins*.
- 3.1.5 All substances defined in the industrial Emissions Directive do not reach the capacity threshold set out therein and are stored as per Article 3 of regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, Labelling and Packaging of Substances and Mixtures.
- 3.1.6 Despite there being seven historical, potentially contaminative land uses identified on the Site: use as an unspecified heap and unspecified commercial/industrial use in 1964, as an unspecified workshop in 1977 and 1992 and an unspecified tank in 1977, 1993-1994 and 1976-1991, should any contamination have occurred, it is deemed to be minor. It is important to note however that there have been no reported pollution incidents at the Site that posed an impact to air, water or land. On permit surrender, the Operator will adhere to regulations and take full responsibility of cleaning up the Site, including any pre-existing contamination.



DRAWINGS

Drawing No CE-RW-1301-DW01	Site Location and Environmental Permit Boundary	1:1,250
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Legend:


Permit Boundary

Consultant:

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Client:

Novidon

Site: Novidon - Wrexham

Drawing Title:

Permit Boundary Plan

Date: 23 / 2 / 2024	Scale 1:1,250	Paper Size: A3 (420×297mm)	
Drawn By: RM	Checked By: KB	Status: FINAL	Final Revision: a
Drawing Ref: CE-WH-1801-DW01			Drawing No: Figure 1a

APPENDIX 1 CONSENT TO DISCHARGE TRADE EFFLUENT (CONSENT NO 709008, 6 AUGUST 2018)

**DWR CYMRU CYFYNGEDIG
WATER INDUSTRY ACT 1991**

**CONDITIONAL CONSENT TO THE DISCHARGE
OF TRADE EFFLUENT TO THE PUBLIC SEWER.**

Novidon, Wrexham Industrial estate, LL13 9UH

TO : The Owner of the trade premises (hereinafter called “the Occupiers”) whose registered office is situated at **Coed Aben Road, Wrexham Industrial estate, Wrexham, LL13 9UH**

RECITALS.

The **6th August 2018** you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as **Novidon Ltd** (hereinafter, the Application) and which trade premises are situate at **Coed Aben Road, Wrexham Industrial Estate, LL13 9UH**, for the purpose of identification only shown on the location plan attached hereto and marked “A” (hereinafter, “the said trade premises”).

1. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s)

DWR CYMRU CYFYNGEDIG (“the Undertaker”) in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, **GIVES ITS CONSENT** to the discharge of trade effluent from the said trade premises into the Undertaker’s public sewers, **SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE.**

- (1) The public sewer(s) into which the trade effluent may be discharged is the 225 mm more particularly identified by means of a line(s) coloured RED drawn on the plan attached hereto and marked "B".
- (2) The discharge of trade effluent shall be made at the point marked "X" on the said plan and the said trade effluent shall enter into the public sewer shown on the said plan at the point marked "Y" thereon and nor otherwise. Further, no connection, linkage, conduit, pipe, channel or other communication whatsoever shall be made to the said sewer between the said points "X" and "Y" (without the prior approval in writing of the Undertaker).
- (3) The trade effluent to be discharged shall consist solely that which is specified in the Application and derived (exclusively) from the refining and drying of potato starch.
- (4) Without prejudice to condition 3 above, the nature and/or composition of the trade effluent which may be discharged is as specified in the FIRST SCHEDULE hereto.
- (5) The trade effluent shall not include any of the substances or properties listed in the SECOND SCHEDULE hereto in concentration greater than stated therein.
- (6) The maximum quantity of trade effluent discharged on any day (being any continuous 24 hour period) shall not exceed **360 cubic metres**.
- (7) The highest rate at which trade effluent may be discharged shall not exceed **4.2 litres per second**.
- (8) The trade effluent shall only be discharged into the public sewer(s) from 0.00 hours to 2400 hours (on the following days each week, namely Monday to Sunday).
- (9) No uncontaminated condensing water shall be discharged.
- (10) There shall be eliminated from the trade effluent before it is discharged the matters listed below:

- a) Effluent with a temperature in excess of 43° Celsius (110° Fahrenheit);
- b) Calcium Carbide;
- c) Petroleum Spirit within the meaning of Section 111 of the Water Industry Act 1991, save otherwise permitted herein:
- d) Other material forming a constituent of the trade effluent, whether along or in combination with other materials, specified hereby as that which is explosive;
- e) Any other substance forming a constituent of the trade effluent which is hereby specified as that which is likely to injure the sewers or to interfere with the free flow of their contents or to affect prejudicially the treatment and disposal of their contents.

(11) No trade effluent shall be discharged the pH value of which is less than **5 or greater than 10.0**.

(12) No trade effluent shall be discharged the nature or composition of which includes a matter, substance, property or matters, substances or properties which would constitute the trade effluent as Special Category Effluent within the meaning of Section 138 of the Water Industry Act 1991.

(13) The Occupier shall give to the Undertaker prior written notice of any change in the process of manufacture, materials, or other circumstances howsoever arising capable of altering the nature and/or composition of the trade effluent. No new substances or properties shall be discharged until the Undertaker has agreed thereto, either with or without imposing a limit and thereafter the said substance(s) and/or property(ies) shall be deemed incorporated into the SECOND SCHEDULE.

(14) An inspection chamber or manhole shall be provided and maintained by the Occupier in a suitable position and/or at the point(s) marked "X" on the plan annexed hereto in connection with each pipe through which the trade effluent is discharged and such inspection chamber or manhole shall be constructed and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the occupier so as to enable a person readily at any time to take samples of the trade effluent being discharged.

- (15) A notch gauge, continuous recorder or some other apparatus suitable and adequate to the Undertaker for measuring and automatically recording the volume and rate of trade effluent so discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (16) Apparatus capable of accurately determining, measuring and recording the nature and/or composition of the trade effluent discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (17) The Occupier shall keep records of the volume, rate, nature and/or composition of the trade effluent discharged into the sewer(s) at all times available for inspection by any authorised officer of the Undertaker and copies of such records shall be sent to the Undertaker on demand.
- (18) (a) The Occupier shall pay to the Undertaker charges for the reception, conveyance, treatment and disposal of the trade effluent and the costs of sampling, measuring and/or analysis of the same under the Undertaker's trade effluent's functions, which charges shall be determined as set out below, and all sums payable under this condition shall be payable upon demand;
- (b) The charges under (a) above shall be calculated in accordance with Undertaker's Scheme of Charges as from time to time amended;
- (c) For the avoidance of doubt, the charge shall be payable by any person who is or was the Occupier of the said trade premises during the period of discharge of the trade effluent or at the time payment is due.
- (19) If the notch gauge, meter, recorder or other apparatus ceases to record or is suspected of not recording and/or measuring accurately, the quantity of trade effluent discharged into the sewer(s) during the period from the date and/or time at which the records were last accepted by the Undertaker as being correct up to the date when the notch gauge, meter, recorder or other apparatus again registers accurately shall for the purpose of any payment to be made under these conditions be based on the average daily volume of trade effluent discharged during the preceding period over which the records were last accepted by the Undertaker as being

accurate or during the month immediately after the notch, gauge, meter, recorder or other apparatus or means of measurement and recording has been accurate whichever is the higher.

YOUR RIGHT OF APPEAL

Any person aggrieved by: -

The refusal of a Sewage Undertaker to give consent for which application has been made to the Undertaker under Section 119 of the Water Industry Act 1991; or

Any condition attached by a Sewage Undertaker to such consent may appeal to the Director General of Water Services.

On an appeal in respect of a refusal to give consent, the Director may give the necessary consent either unconditionally or subject to such conditions as he thinks fit to impose.

On an appeal in respect of a condition the Director may take into review all the conditions whether appealed against or not and may substitute for them any other set of conditions (whether more or less favourable to the Appellant) or annul any of the conditions and may include provision as to the charges to be made in pursuance of any condition attached to a consent for any period before the determination of the appeal.

On any appeal the Director may give direction that the trade effluent shall not be discharged until a specified date.

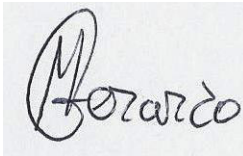
FAILURE TO COMPLY WITH CONDITIONS.

If in the case of any trade premises a condition is contravened, the Occupier of the premises will be guilty of an offence and liable on conviction by a Magistrates' Court to a fine not exceeding the statutory maximum or on conviction by the Crown Court to an unlimited fine.

DATED

16 day of August 2018

For and on behalf of the Company



(Michael Gerardo)

Designation:

Wastewater Science Manager

Address of Division:

Northern Division
Dinas Depot
Llanwnda
Caernarfon
Gwynedd
LL54 5UD

FIRST SCHEDULE

- (1) Effluent derived from the **washing, refining and drying of potato starch.**
- (2) Water (including such elements, compounds and organisms normally present in water at trace or harmless levels and not exceeding such levels that as may be imposed by regulations for the time being regulating the quality drinking water)

SECOND SCHEDULE.

PART A (Applicable to spot samples)

- (1) Total suspended solids of the trade effluent shall not exceed **800 milligrams per litre.**
- (2) The chemical oxygen demand of the trade effluent after one-hour quiescent settlement shall not exceed **3000 milligrams per litre.**
- (3) Fats, Oil and Greases shall not exceed **100 milligrams per litre.**
- (4) Phosphate shall not exceed **15 milligrams per litre.**
- (5) Ammonia shall not exceed **25 milligrams per litre.**
- (6) Sulphate shall not exceed **500 milligrams per litre.**
- (7) Sulphide shall not exceed **2 milligrams per litre**

PART B (Applicable to Composite samples)

- (1) Total suspended solids of the trade effluent shall not exceed **800 milligrams per litre.**
- (2) The chemical oxygen demand of the trade effluent after one-hour quiescent settlement shall not exceed **3000 milligrams per litre.**
- (3) Fats, Oil and Greases shall not exceed **100 milligrams per litre.**
- (4) Phosphate shall not exceed **15 milligrams per litre.**
- (5) Ammonia shall not exceed **25 milligrams per litre.**
- (6) Sulphate shall not exceed **500 milligrams per litre.**
- (7) Sulphide shall not exceed **2 milligrams per litre**

THIRD SCHEDULE

Not applicable.

APPENDIX 2 GROUNDSURE ENVIRO INSIGHT REPORT

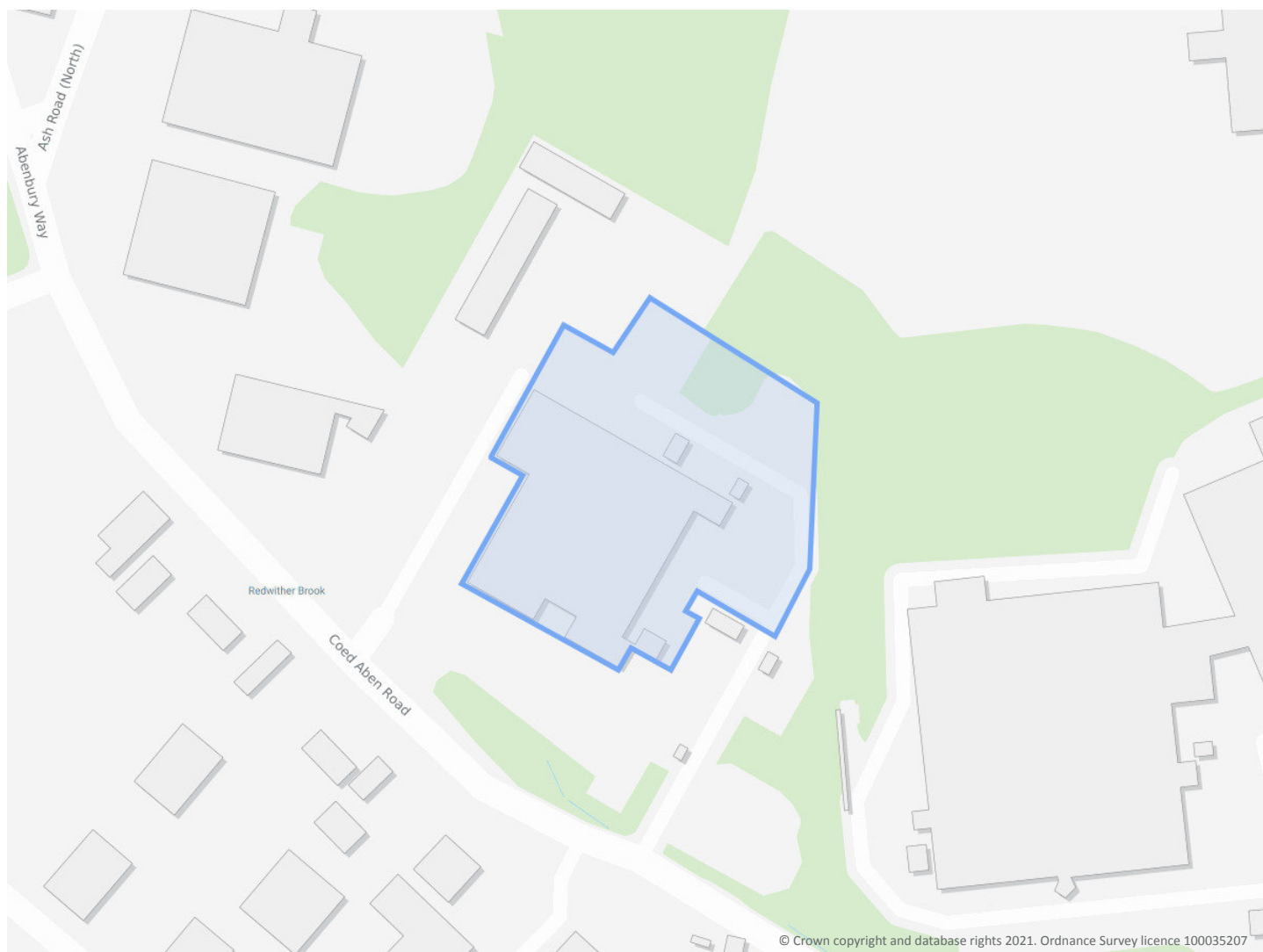
WAREHOUSE AT, FACTORY, COED ABEN ROAD, WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9UH

Order Details

Date: 22/01/2021
Your ref: Novidon
Our Ref: GS-7495503
Client: Crestwood Environmental Ltd.

Site Details

Location: 337691 349785
Area: 2.03 ha
Authority: [Wrexham - Wrexham County Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 6

OS MasterMap site plan

p.11

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>12</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	5	3	17	26	-
<u>14</u>	<u>1.2</u>	<u>Historical tanks</u>	2	0	3	6	-
<u>15</u>	<u>1.3</u>	<u>Historical energy features</u>	0	6	9	40	-
17	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
<u>18</u>	<u>1.6</u>	<u>Historical military land</u>	1	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>19</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	5	3	18	37	-
<u>22</u>	<u>2.2</u>	<u>Historical tanks</u>	7	0	17	10	-
<u>23</u>	<u>2.3</u>	<u>Historical energy features</u>	0	7	17	85	-
28	2.4	Historical petrol stations	0	0	0	0	-
28	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<u>30</u>	<u>3.4</u>	<u>Historical landfill (EA/NRW records)</u>	0	0	3	1	-
31	3.5	Historical waste sites	0	0	0	0	-
<u>31</u>	<u>3.6</u>	<u>Licensed waste sites</u>	0	0	0	7	-
<u>33</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	0	1	7	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>35</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	2	1	20	-	-
37	4.2	Current or recent petrol stations	0	0	0	0	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



38	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	<u>Historical licensed industrial activities (IPC)</u>	1	0	0	3	-
39	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	27	-
43	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	3	4	-
44	4.12	Radioactive Substance Authorisations	0	0	0	0	-
45	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	19	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
47	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	List 1 Dangerous Substances	0	0	0	0	-
48	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	1	-
48	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	3	8	19	-
51	4.19	Pollution inventory substances	0	0	0	0	-
52	4.20	Pollution inventory waste transfers	0	0	0	0	-
52	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Geology (basic)					
53	5.1	<u>Superficial geology (625k)</u>	Identified (within 500m)				
53	5.2	<u>Bedrock geology (625k)</u>	Identified (within 500m)				
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
54	6.1	<u>Superficial aquifer</u>	Identified (within 500m)				
56	6.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
58	6.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
59	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
59	6.5	Groundwater vulnerability- local information	None (within 0m)				
60	6.6	<u>Groundwater abstractions</u>	0	0	0	0	11
63	6.7	<u>Surface water abstractions</u>	0	0	0	0	1
63	6.8	Potable abstractions	0	0	0	0	0
64	6.9	<u>Source Protection Zones</u>	0	0	0	2	-



64	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
65	<u>7.1</u>	<u>Water Network (OS MasterMap)</u>	0	1	8	-	-
66	<u>7.2</u>	<u>Surface water features</u>	0	0	5	-	-
67	<u>7.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
67	<u>7.4</u>	<u>WFD Surface water bodies</u>	0	0	0	-	-
67	<u>7.5</u>	<u>WFD Groundwater bodies</u>	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
69	8.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
69	8.2	Historical Flood Events	0	0	0	-	-
69	8.3	Flood Defences	0	0	0	-	-
69	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
70	8.5	Flood Storage Areas	0	0	0	-	-
71	8.6	Flood Zone 2	None (within 50m)				
71	8.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
72	<u>9.1</u>	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
74	<u>10.1</u>	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
75	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
76	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
76	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
76	11.4	Special Protection Areas (SPA)	0	0	0	0	0
76	11.5	National Nature Reserves (NNR)	0	0	0	0	0
77	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
77	<u>11.7</u>	<u>Designated Ancient Woodland</u>	0	1	1	1	14
78	11.8	Biosphere Reserves	0	0	0	0	0
78	11.9	Forest Parks	0	0	0	0	0

78	11.10	Marine Conservation Zones	0	0	0	0	0
78	11.11	Green Belt	0	0	0	0	0
79	11.12	Proposed Ramsar sites	0	0	0	0	0
79	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
79	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
79	11.15	Nitrate Sensitive Areas	0	0	0	0	0
80	11.16	Nitrate Vulnerable Zones	0	0	0	0	0
81	11.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
82	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
83	12.1	World Heritage Sites	0	0	0	-	-
83	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
83	12.3	National Parks	0	0	0	-	-
83	12.4	Listed Buildings	0	0	0	-	-
84	12.5	Conservation Areas	0	0	0	-	-
84	12.6	Scheduled Ancient Monuments	0	0	0	-	-
84	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
85	13.1	Agricultural Land Classification	None (within 250m)				
85	13.2	Open Access Land	0	0	0	-	-
85	13.3	Tree Felling Licences	0	0	0	-	-
85	13.4	Environmental Stewardship Schemes	0	0	0	-	-
86	13.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
87	14.1	Priority Habitat Inventory	0	0	0	-	-
87	14.2	Habitat Networks	0	0	0	-	-
87	14.3	Open Mosaic Habitat	0	0	0	-	-
87	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph



Capture Date: 07/05/2017

Site Area: 2.03ha



Recent site history - 2013 aerial photograph



Capture Date: 09/06/2013

Site Area: 2.03ha



Recent site history - 2009 aerial photograph



Capture Date: 01/06/2009

Site Area: 2.03ha



Recent site history - 2003 aerial photograph



Capture Date: 04/08/2003

Site Area: 2.03ha



Recent site history - 2000 aerial photograph

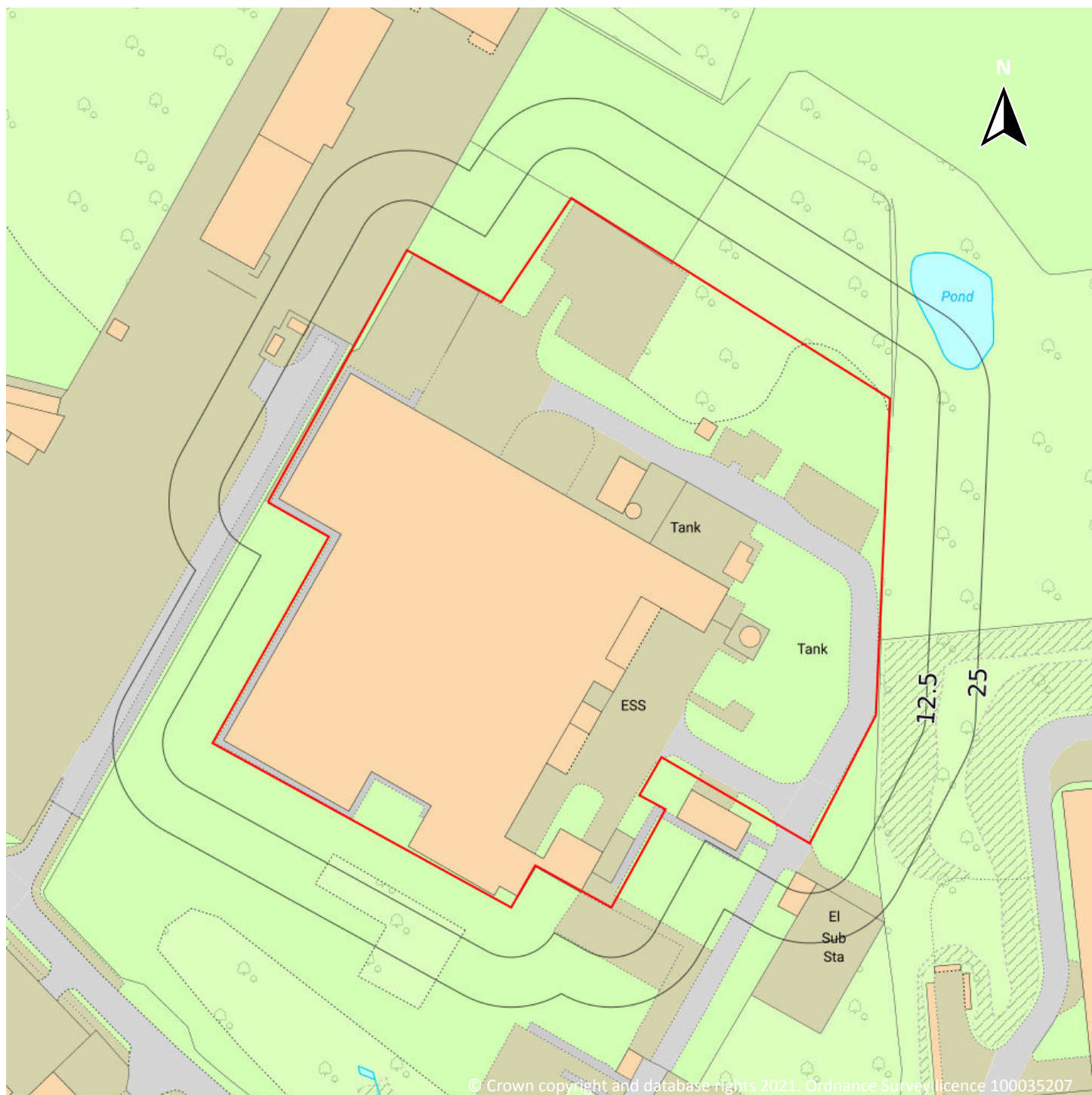


Capture Date: 04/09/2000

Site Area: 2.03ha



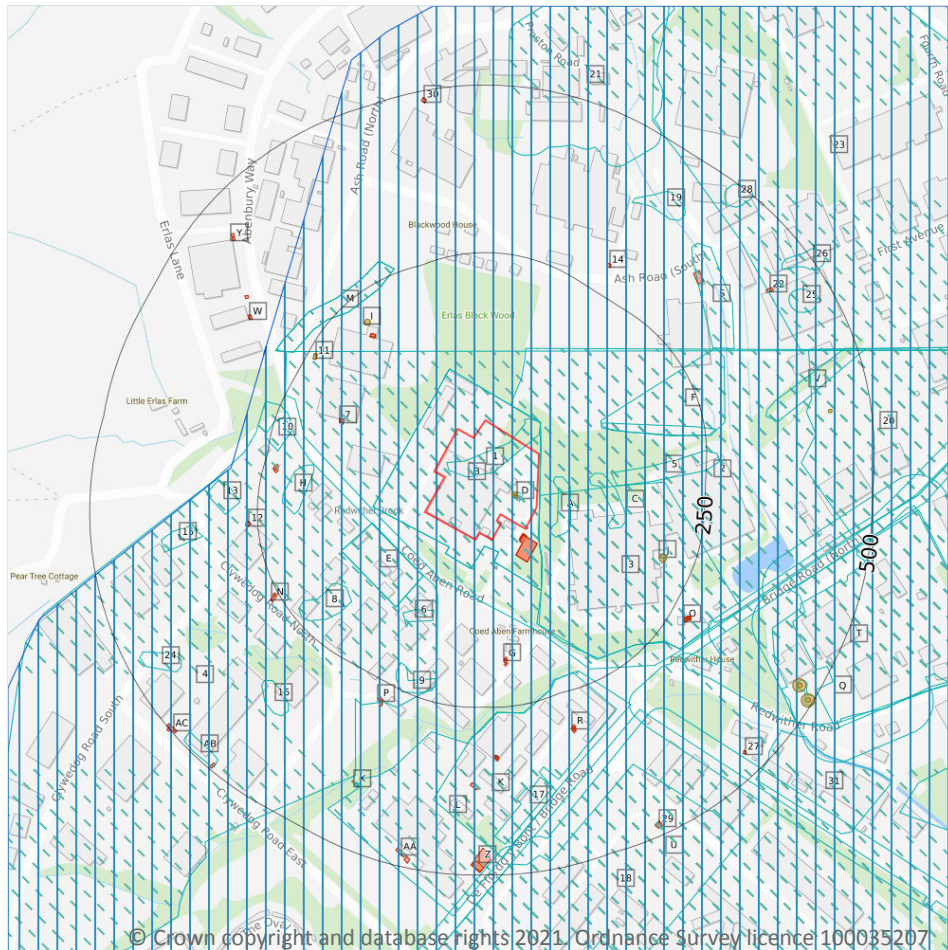
OS MasterMap site plan



Site Area: 2.03ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical military land

1.1 Historical industrial land uses

Records within 500m

51

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Heap	1964	802661



ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Workshop	1977	880838
B	On site	Unspecified Workshop	1992	910726
C	On site	Unspecified Commercial/Industrial	1964	883869
D	On site	Unspecified Tank	1977	823835
2	3m E	Unspecified Commercial/Industrial	1977	938680
3	4m E	Unspecified Commercial/Industrial	1992	872439
A	23m E	Unspecified Ground Workings	1977	799057
E	68m SW	Unspecified Works	1977	920631
E	68m SW	Unspecified Works	1992	981460
4	69m SW	Unspecified Commercial/Industrial	1964	796409
C	77m E	Unspecified Ground Workings	1977	799055
F	101m NE	Unspecified Heap	1977	802662
F	103m NE	Unspecified Ground Workings	1964	799056
5	108m E	Unspecified Heap	1992	802663
6	122m SW	Unspecified Heap	1977	802665
8	162m SW	Unspecified Heap	1964	802664
H	176m W	Unspecified Heap	1977	802669
J	199m E	Unspecified Tank	1992	823836
9	214m SW	Unspecified Heap	1977	802666
10	220m W	Unspecified Pit	1964 - 1977	958785
K	225m S	Unspecified Works	1964 - 1977	846472
L	226m S	Unspecified Works	1992	963484
M	237m NW	Railway Sidings	1960	846514
M	237m NW	Railway Sidings	1968	904588
13	276m W	Unspecified Pit	1977	838782
Q	289m SE	Industrial Estate	1992	844663
S	304m NE	Unspecified Pit	1960 - 1982	847521
T	306m SE	Industrial Estate	1964	844693



ID	Location	Land use	Dates present	Group ID
U	319m SE	Unspecified Commercial/Industrial	1964 - 1977	978415
U	331m SE	Unspecified Commercial/Industrial	1992	890838
15	333m W	Unspecified Pit	1977	838781
16	339m SW	Unspecified Heap	1964	802668
V	343m E	Unspecified Heap	1992	802658
T	355m E	Unspecified Disused Works	1964	813337
17	361m S	Unspecified Works	1977	867757
18	386m SE	Unspecified Factory	1977	821290
19	391m NE	Unspecified Pit	1982	838783
20	391m E	Unspecified Works	1977	829794
T	395m SE	Unspecified Commercial/Industrial	1992	796432
T	397m E	Unspecified Works	1977	829798
21	399m N	Unspecified Commercial/Industrial	1949	796408
X	403m SW	Unspecified Tank	1909 - 1938	959968
23	417m NE	Industrial Estate	1982	844626
24	425m SW	Unspecified Heap	1964	802670
25	436m NE	Unspecified Heap	1960 - 1982	972758
26	455m NE	Unspecified Heap	1960 - 1982	951205
Q	466m SE	Unspecified Tanks	1949	814863
28	466m NE	Unspecified Heap	1960 - 1982	871860
AB	479m SW	Unspecified Heap	1964	802667
31	486m SE	Unspecified Works	1977	954267

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

11

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
D	On site	Unspecified Tank	1993 - 1994	122268
D	On site	Unspecified Tank	1976 - 1991	136008
J	197m E	Unspecified Tank	1982 - 1994	146128
I	204m NW	Unspecified Tank	1990 - 1999	127088
11	235m NW	Unspecified Tank	1983 - 1994	139106
X	403m SW	Unspecified Tank	1912	109626
V	436m E	Unspecified Tank	1959 - 1982	127284
Q	461m SE	Unspecified Tank	1982	143982
Q	468m SE	Unspecified Tank	1959 - 1971	147860
Q	483m SE	Unspecified Tank	1982	133045
Q	489m SE	Unspecified Tank	1959 - 1971	125928

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

55

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
A	8m SW	Electricity Substation	1991	67417
A	8m SW	Electricity Substation	1982	71539
A	8m SW	Electricity Substation	1986	73651
A	8m S	Electricity Substation	1976 - 1983	82436
A	10m SW	Electricity Substation	1994	79821



ID	Location	Land use	Dates present	Group ID
A	10m SW	Electricity Substation	1993	83489
7	153m NW	Electricity Substation	1983 - 1993	65266
G	176m S	Electricity Substation	1994	65274
G	179m S	Electricity Substation	1991	83005
I	183m NW	Electricity Substation	1994 - 1999	75792
I	184m NW	Electricity Substation	1990	77142
G	185m S	Electricity Substation	1993	60161
H	227m W	Electricity Substation	1993	74816
H	228m W	Electricity Substation	1994	70920
H	229m W	Electricity Substation	1986 - 1991	66636
N	252m SW	Electricity Substation	1993 - 1994	64380
N	254m SW	Electricity Substation	1986 - 1991	82090
12	260m W	Electricity Substation	1986 - 1994	71605
O	271m SE	Electricity Substation	1988	77483
O	271m SE	Electricity Substation	1982	82314
O	273m SE	Electricity Substation	1991	70295
P	274m SW	Electricity Substation	1994	60159
O	275m SE	Electricity Substation	1994	79594
P	275m SW	Electricity Substation	1991	60160
O	275m SE	Electricity Substation	1989	69496
O	275m SE	Electricity Substation	1990	70549
P	280m SW	Electricity Substation	1993	60162
14	291m NE	Electricity Substation	1994 - 1999	65247
R	301m S	Electricity Substation	1994	82455
R	304m S	Electricity Substation	1986 - 1991	81386
R	304m S	Electricity Substation	1983	71287
R	307m S	Electricity Substation	1993	74237
K	321m S	Electricity Substation	1991	75544



ID	Location	Land use	Dates present	Group ID
K	321m S	Electricity Substation	1986	84796
K	322m S	Electricity Substation	1983	71373
K	324m S	Electricity Substation	1993	72316
K	324m S	Electricity Substation	1994	76187
S	347m NE	Electricity Substation	1994 - 1995	77328
W	348m NW	Electricity Substation	1982 - 1999	70616
L	363m S	Electricity Substation	1976 - 1982	71251
W	368m NW	Electricity Substation	1994 - 1999	71781
22	417m NE	Electricity Substation	1994 - 1995	66927
Y	435m NW	Electricity Substation	1994 - 1999	78390
Y	440m NW	Electricity Substation	1982 - 1990	69300
Z	460m S	Electricity Substation	1983	81565
27	464m SE	Electricity Substation	1982 - 1994	83924
AA	474m S	Electricity Substation	1986 - 1991	78167
29	479m SE	Electricity Substation	1991 - 1993	73843
Z	479m S	Electricity Substation	1976 - 1986	77249
30	481m N	Electricity Substation	1990 - 1999	67306
AA	483m S	Electricity Substation	1993 - 1994	76517
AB	489m SW	Electricity Substation	1991 - 1994	68487
AC	494m SW	Electricity Substations	1991	59838
AC	495m SW	Electricity Substation	1994	60153
AC	499m SW	Electricity Substation	1993	60154

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

1

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

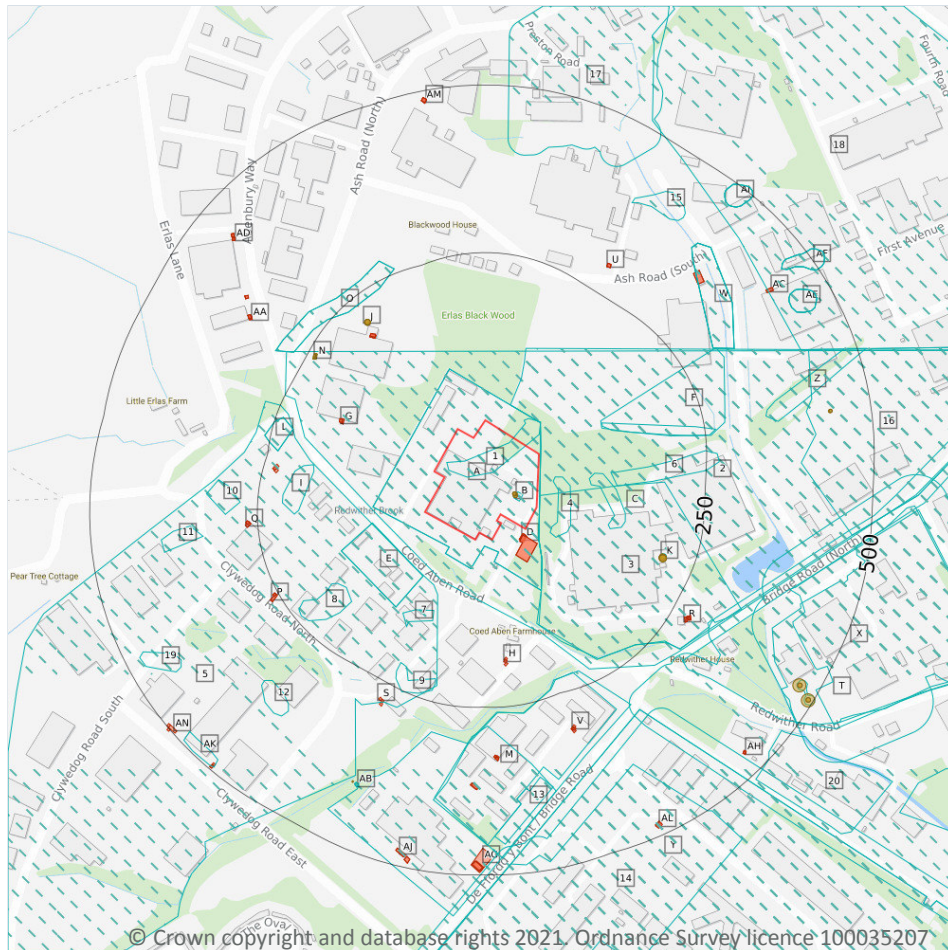
Features are displayed on the Past land use map on **page 12**

ID	Location	Site Name	Date of Operation	Activities
A	On site	ROF Wrexham	c.1938 - 1988	c. WW2: Produced cordite;; post WW2: Cordite production ceased in 1945 and the area was used as an industrial estate by the Welsh Development Agency to boost the local economy; Explosives Factory

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

63

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Heap	1964	802661
A	On site	Unspecified Workshop	1977	880838
A	On site	Unspecified Workshop	1992	910726



ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1977	823835
C	On site	Unspecified Commercial/Industrial	1964	883869
2	3m E	Unspecified Commercial/Industrial	1977	938680
3	4m E	Unspecified Commercial/Industrial	1992	872439
4	23m E	Unspecified Ground Workings	1977	799057
E	68m SW	Unspecified Works	1977	920631
E	68m SW	Unspecified Works	1992	981460
5	69m SW	Unspecified Commercial/Industrial	1964	796409
C	77m E	Unspecified Ground Workings	1977	799055
F	101m NE	Unspecified Heap	1977	802662
F	103m NE	Unspecified Ground Workings	1964	799056
6	108m E	Unspecified Heap	1992	802663
7	122m SW	Unspecified Heap	1977	802665
8	162m SW	Unspecified Heap	1964	802664
I	176m W	Unspecified Heap	1977	802669
K	199m E	Unspecified Tank	1992	823836
9	214m SW	Unspecified Heap	1977	802666
L	220m W	Unspecified Pit	1977	958785
L	220m W	Unspecified Pit	1964	958785
M	225m S	Unspecified Works	1977	846472
M	226m S	Unspecified Works	1992	963484
O	237m NW	Railway Sidings	1960	846514
O	237m NW	Railway Sidings	1968	904588
10	276m W	Unspecified Pit	1977	838782
M	278m S	Unspecified Works	1964	846472
T	289m SE	Industrial Estate	1992	844663
W	304m NE	Unspecified Pit	1982	847521
W	304m NE	Unspecified Pit	1960	847521



ID	Location	Land Use	Date	Group ID
W	304m NE	Unspecified Pit	1968	847521
X	306m SE	Industrial Estate	1964	844693
Y	319m SE	Unspecified Commercial/Industrial	1977	978415
Y	319m SE	Unspecified Commercial/Industrial	1964	978415
Y	331m SE	Unspecified Commercial/Industrial	1992	890838
11	333m W	Unspecified Pit	1977	838781
12	339m SW	Unspecified Heap	1964	802668
Z	343m E	Unspecified Heap	1992	802658
X	355m E	Unspecified Disused Works	1964	813337
13	361m S	Unspecified Works	1977	867757
14	386m SE	Unspecified Factory	1977	821290
15	391m NE	Unspecified Pit	1982	838783
16	391m E	Unspecified Works	1977	829794
X	395m SE	Unspecified Commercial/Industrial	1992	796432
X	397m E	Unspecified Works	1977	829798
17	399m N	Unspecified Commercial/Industrial	1949	796408
AB	403m SW	Unspecified Tank	1909	959968
AB	403m SW	Unspecified Tank	1938	959968
18	417m NE	Industrial Estate	1982	844626
19	425m SW	Unspecified Heap	1964	802670
AE	436m NE	Unspecified Heap	1982	972758
AE	436m NE	Unspecified Heap	1960	972758
AE	436m NE	Unspecified Heap	1968	972758
AF	455m NE	Unspecified Heap	1982	951205
AF	455m NE	Unspecified Heap	1960	951205
AF	455m NE	Unspecified Heap	1968	951205
T	466m SE	Unspecified Tanks	1949	814863
AI	466m NE	Unspecified Heap	1982	871860

ID	Location	Land Use	Date	Group ID
AI	466m NE	Unspecified Heap	1960	871860
AI	466m NE	Unspecified Heap	1968	871860
AK	479m SW	Unspecified Heap	1964	802667
20	486m SE	Unspecified Works	1977	954267

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

34

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1993	122268
B	On site	Unspecified Tank	1994	122268
B	On site	Unspecified Tank	1976	136008
B	On site	Unspecified Tank	1983	136008
B	On site	Unspecified Tank	1982	136008
B	On site	Unspecified Tank	1986	136008
B	On site	Unspecified Tank	1991	136008
K	197m E	Unspecified Tank	1983	146128
K	197m E	Unspecified Tank	1982	146128
K	197m E	Unspecified Tank	1986	146128
K	197m E	Unspecified Tank	1991	146128
K	198m E	Unspecified Tank	1993	146128
K	198m E	Unspecified Tank	1994	146128
J	204m NW	Unspecified Tank	1994	127088
J	204m NW	Unspecified Tank	1999	127088
J	204m NW	Unspecified Tank	1995	127088



ID	Location	Land Use	Date	Group ID
J	204m NW	Unspecified Tank	1995	127088
J	205m NW	Unspecified Tank	1990	127088
J	205m NW	Unspecified Tank	1990	127088
N	235m NW	Unspecified Tank	1983	139106
N	236m NW	Unspecified Tank	1993	139106
N	236m NW	Unspecified Tank	1994	139106
N	237m NW	Unspecified Tank	1986	139106
N	237m NW	Unspecified Tank	1991	139106
AB	403m SW	Unspecified Tank	1912	109626
Z	436m E	Unspecified Tank	1982	127284
Z	437m E	Unspecified Tank	1959	127284
Z	437m E	Unspecified Tank	1971	127284
T	461m SE	Unspecified Tank	1982	143982
T	468m SE	Unspecified Tank	1959	147860
T	468m SE	Unspecified Tank	1971	147860
T	483m SE	Unspecified Tank	1982	133045
T	489m SE	Unspecified Tank	1959	125928
T	489m SE	Unspecified Tank	1971	125928

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

109

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
D	8m S	Electricity Substation	1976	82436
D	8m S	Electricity Substation	1983	82436



ID	Location	Land Use	Date	Group ID
D	8m SW	Electricity Substation	1982	71539
D	8m SW	Electricity Substation	1986	73651
D	8m SW	Electricity Substation	1991	67417
D	10m SW	Electricity Substation	1993	83489
D	10m SW	Electricity Substation	1994	79821
G	153m NW	Electricity Substation	1993	65266
G	154m NW	Electricity Substation	1983	65266
G	156m NW	Electricity Substation	1986	65266
G	156m NW	Electricity Substation	1991	65266
H	176m S	Electricity Substation	1994	65274
H	179m S	Electricity Substation	1991	83005
J	183m NW	Electricity Substation	1994	75792
J	183m NW	Electricity Substation	1999	75792
J	183m NW	Electricity Substation	1995	75792
J	183m NW	Electricity Substation	1995	75792
J	184m NW	Electricity Substation	1990	77142
J	184m NW	Electricity Substation	1990	77142
H	185m S	Electricity Substation	1993	60161
I	227m W	Electricity Substation	1993	74816
I	228m W	Electricity Substation	1994	70920
I	229m W	Electricity Substation	1986	66636
I	229m W	Electricity Substation	1991	66636
P	252m SW	Electricity Substation	1993	64380
P	252m SW	Electricity Substation	1994	64380
P	254m SW	Electricity Substation	1986	82090
P	254m SW	Electricity Substation	1991	82090
Q	260m W	Electricity Substation	1993	71605
Q	260m W	Electricity Substation	1994	71605

ID	Location	Land Use	Date	Group ID
Q	262m W	Electricity Substation	1986	71605
Q	262m W	Electricity Substation	1991	71605
R	271m SE	Electricity Substation	1982	82314
R	271m SE	Electricity Substation	1988	77483
R	273m SE	Electricity Substation	1991	70295
S	274m SW	Electricity Substation	1994	60159
R	275m SE	Electricity Substation	1994	79594
S	275m SW	Electricity Substation	1991	60160
R	275m SE	Electricity Substation	1989	69496
R	275m SE	Electricity Substation	1990	70549
S	280m SW	Electricity Substation	1993	60162
U	291m NE	Electricity Substation	1994	65247
U	291m NE	Electricity Substation	1999	65247
U	291m NE	Electricity Substation	1995	65247
U	291m NE	Electricity Substation	1995	65247
V	301m S	Electricity Substation	1994	82455
V	304m S	Electricity Substation	1986	81386
V	304m S	Electricity Substation	1991	81386
V	304m S	Electricity Substation	1983	71287
V	307m S	Electricity Substation	1993	74237
M	321m S	Electricity Substation	1986	84796
M	321m S	Electricity Substation	1991	75544
M	322m S	Electricity Substation	1983	71373
M	324m S	Electricity Substation	1993	72316
M	324m S	Electricity Substation	1994	76187
W	347m NE	Electricity Substation	1995	77328
W	347m NE	Electricity Substation	1994	77328
AA	348m NW	Electricity Substation	1994	70616

ID	Location	Land Use	Date	Group ID
AA	348m NW	Electricity Substation	1999	70616
AA	348m NW	Electricity Substation	1995	70616
AA	348m NW	Electricity Substation	1995	70616
AA	349m NW	Electricity Substation	1982	70616
AA	349m NW	Electricity Substation	1988	70616
AA	349m NW	Electricity Substation	1990	70616
AA	349m NW	Electricity Substation	1990	70616
M	363m S	Electricity Substation	1982	71251
M	363m S	Electricity Substation	1976	71251
AA	368m NW	Electricity Substation	1994	71781
AA	368m NW	Electricity Substation	1999	71781
AA	368m NW	Electricity Substation	1995	71781
AA	368m NW	Electricity Substation	1995	71781
AC	417m NE	Electricity Substation	1995	66927
AC	417m NE	Electricity Substation	1994	66927
AD	435m NW	Electricity Substation	1994	78390
AD	435m NW	Electricity Substation	1999	78390
AD	435m NW	Electricity Substation	1995	78390
AD	435m NW	Electricity Substation	1995	78390
AD	440m NW	Electricity Substation	1982	69300
AD	440m NW	Electricity Substation	1988	69300
AD	440m NW	Electricity Substation	1990	69300
AD	440m NW	Electricity Substation	1990	69300
AG	460m S	Electricity Substation	1983	81565
AH	464m SE	Electricity Substation	1991	83924
AH	464m SE	Electricity Substation	1994	83924
AH	464m SE	Electricity Substation	1982	83924
AH	464m SE	Electricity Substation	1988	83924



ID	Location	Land Use	Date	Group ID
AH	464m SE	Electricity Substation	1989	83924
AH	464m SE	Electricity Substation	1990	83924
AJ	474m S	Electricity Substation	1986	78167
AJ	474m S	Electricity Substation	1991	78167
AL	479m SE	Electricity Substation	1991	73843
AG	479m S	Electricity Substation	1976	77249
AG	479m S	Electricity Substation	1982	77249
AG	479m S	Electricity Substation	1986	77249
AL	480m SE	Electricity Substation	1993	73843
AM	481m N	Electricity Substation	1994	67306
AM	481m N	Electricity Substation	1999	67306
AM	481m N	Electricity Substation	1995	67306
AM	481m N	Electricity Substation	1995	67306
AM	482m N	Electricity Substation	1990	67306
AM	482m N	Electricity Substation	1990	67306
AJ	483m S	Electricity Substation	1993	76517
AJ	483m S	Electricity Substation	1994	76517
AK	489m SW	Electricity Substation	1991	68487
AK	492m SW	Electricity Substation	1993	68487
AK	492m SW	Electricity Substation	1994	68487
AN	494m SW	Electricity Substations	1991	59838
AN	495m SW	Electricity Substation	1994	60153
AN	499m SW	Electricity Substation	1993	60154

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

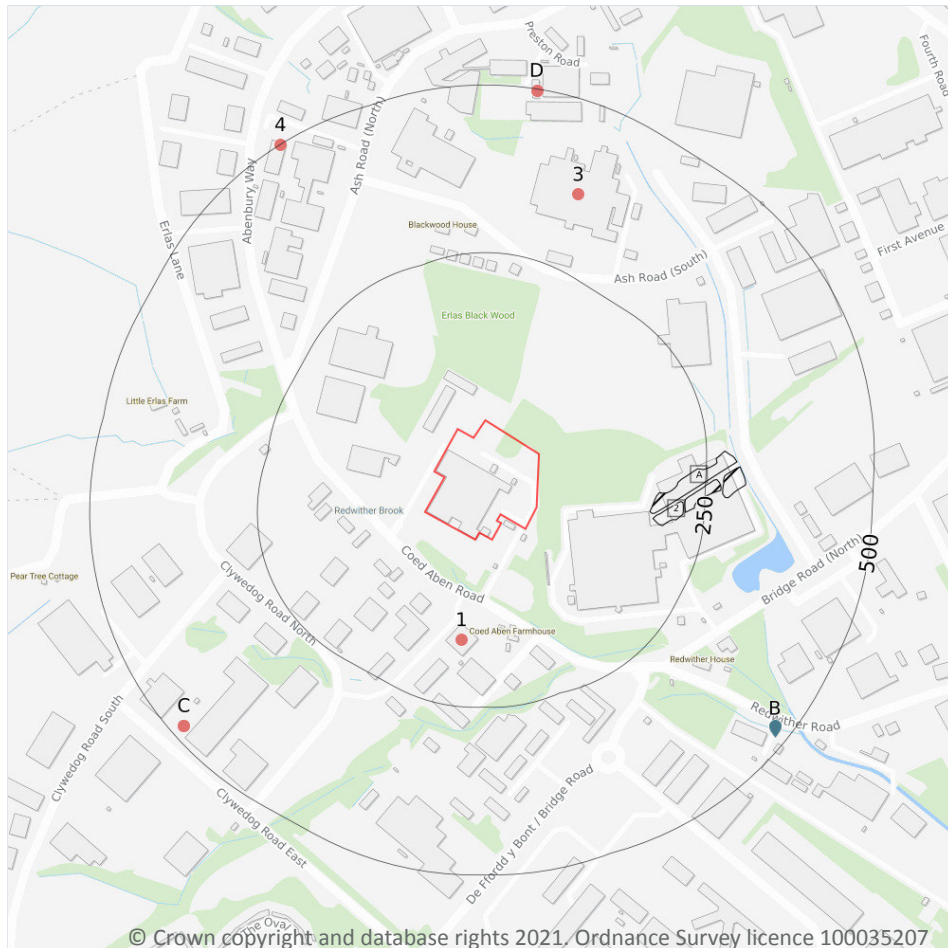
0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

4

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 29**

ID	Location	Details		
A	168m E	Site Address: British Celanese Licence Holder Address: -	Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: British Celanese Limited First Recorded 31/12/1953 Last Recorded: 31/12/1983
2	174m E	Site Address: British Celanese Licence Holder Address: -	Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: British Celanese Limited First Recorded 31/12/1953 Last Recorded: 31/12/1983
A	220m E	Site Address: British Celanese Licence Holder Address: -	Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: British Celanese Limited First Recorded 31/12/1953 Last Recorded: 31/12/1983
A	276m E	Site Address: British Celanese Licence Holder Address: -	Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: British Celanese Limited First Recorded 31/12/1953 Last Recorded: 31/12/1983

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

7

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 29**

ID	Location	Details		
B	476m SE	Site Name: Redwither Road Transfer Station Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REY001 EPR reference: AP3394FT/V003 Operator: Reynolds Services North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 4999	Issue Date: 19/02/2001 Effective Date: - Modified:: 17/03/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	476m SE	Site Name: - Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

ID	Location	Details		
B	476m SE	Site Name: - Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: - Waste Management licence No: 37221 Annual Tonnage: 0	Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified:: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired
B	476m SE	Site Name: - Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 0	Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified:: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired
B	476m SE	Site Name: - Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RD Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 0	Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified:: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired
B	476m SE	Site Name: - Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 0	Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified:: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired



ID	Location	Details		
B	476m SE	Site Name: Redwither Road Transfer Station Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REY001 EPR reference: AP3394FT/V003 Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 4999	Issue Date: 19/02/2001 Effective Date: - Modified:: 17/03/2006 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

8

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 29**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	152m S	LOCKWELL ELECTRICAL , Lockwell Lectrics Ltd, Unit 100, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9UH	NRW-WME049814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	363m N	BK Nolte Contracts Limited , B K House, Ash Road South, Ystad Ddiwydiannol Wreccsam, Wreccsam, LL139UG	NRW-WME008197	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	481m SW	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Cleaning, washing, spraying or coating relevant waste

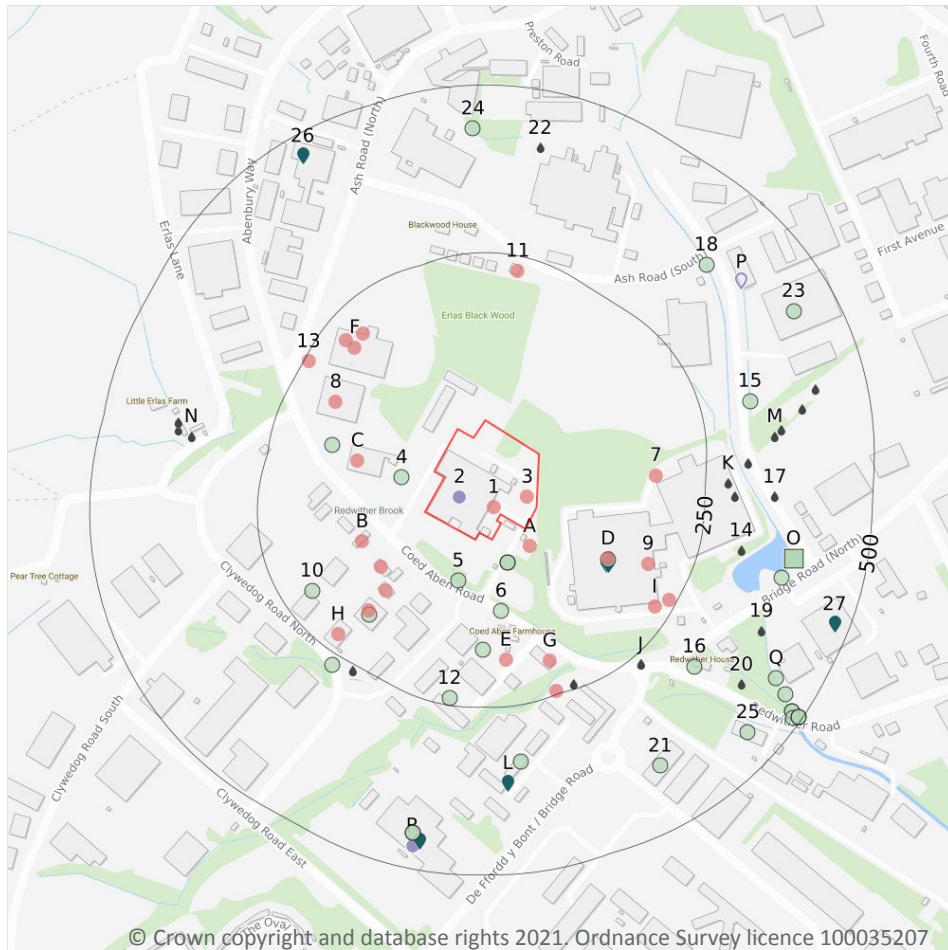


ID	Location	Site	Reference	Category	Sub-Category	Description
C	481m SW	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
C	481m SW	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
D	497m N	W&S Waste Management Ltd, W&S WASTE MANAGEMENT LTD, UNIT 3E YARD 2, WREXHAM ENTERPRISE PARK, WREXHAM, LL13 9JT	NRW-WME041914	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	497m N	W&S Waste Management Ltd, W&S WASTE MANAGEMENT LTD, UNIT 3E YARD 2, WREXHAM ENTERPRISE PARK, WREXHAM, LL13 9JT	NRW-WME041914	Storing waste exemption	Not on a farm	Storage of waste in secure containers
4	499m NW	Specialist Building Products T/A Ecodek, Ecodek, Unit 13, Abenbury Way, Wrexham, Wreccsam, LL139UZ	NRW-WME029714	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

23

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
3	On site	Tank	Clwyd, LL13	Tanks (Generic)	Industrial Features
A	27m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
B	104m SW	Broadway Leisure	Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Sports and Leisure Equipment Repair	Repair and Servicing
B	105m SW	Business Print & Design	Millwood House, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Published Goods	Industrial Products
C	116m W	Village Bakery	Unit 14, Abenbury Way, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UZ	Baking and Confectionery	Foodstuffs
D	130m SE	Ardagh Group	Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS	Packaging	Industrial Products
B	130m SW	Zaviz International Ltd	Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	169m SW	Roil Foods Ltd	Unit 52, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	Dairy Products	Foodstuffs
7	176m E	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
8	179m NW	Ecodek	Unit 13, Abenbury Way, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UZ	Garden Goods	Consumer Products
E	180m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
9	186m SE	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
F	196m NW	Proserve Ltd	Unit 12, Ash Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9JT	Distribution and Haulage	Transport, Storage and Delivery
G	200m S	B T L Industrial Solutions	Unit 101, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Bearing, Gear and Drive Elements	Industrial Products
F	201m NW	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
F	214m NW	Milner Engineering Services Ltd	Unit 12, Ash Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9JT	Precision Engineers	Engineering Services
H	224m SW	Etiquette Labels Ltd	Unit 51, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	Stationery, Stamps, Tags and Labels	Industrial Products
I	225m SE	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
11	228m N	Clwyd Transport Services Ltd	Clwyd House, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG	Distribution and Haulage	Transport, Storage and Delivery
I	238m SE	Tank	Clwyd, LL13	Tanks (Generic)	Industrial Features
13	244m NW	Tank	Clwyd, LL13	Tanks (Generic)	Industrial Features
G	245m SE	Mast	Clwyd, LL13	Telecommunications Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

4

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Details	
2	On site	Operator: Stadex Industries Ltd Address: Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UL Process: Di-isocyanate Processes Permit Number: BF1220	Original Permit Number: IPCAPP Date Approved: 8-6-1999 Effective Date: 9-6-1999 Status: Revoked
R	465m S	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AS4117	Original Permit Number: IPCAIRAPP Date Approved: 4-12-1995 Effective Date: 8-12-1995 Status: Superseded By Variation

ID	Location	Details	
R	465m S	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AX6443	Original Permit Number: IPCMAJVAR Date Approved: 1-5-1997 Effective Date: 1-5-1997 Status: Superseded By Variation
R	465m S	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: BD8312	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

27

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Details	
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: WREXHAM CONVENIENCE FOODS EPR/WP3534GX Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: PP3538VJ Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 25/06/2014 Effective Date: 25/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: WREXHAM CONVENIENCE FOODS EPR/WP3534GX Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: PP3538VJ Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 25/06/2014 Effective Date: 25/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: WP3131ZF Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 26/03/2013 Effective Date: 26/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: WP3131ZF Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 26/03/2013 Effective Date: 26/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS EA/EPR/WP3534GX/A001 Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: WP3534GX Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 10/09/2009 Effective Date: 10/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS EA/EPR/WP3534GX/A001 Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: WP3534GX Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 10/09/2009 Effective Date: 10/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
P	395m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: WP3131ZF Original Permit Number: WP3534GX	EPR Reference: - Issue Date: 26/03/2013 Effective Date: 26/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
P	396m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS LIMITED Process: - Permit Number: WP3534GX Original Permit Number: -	EPR Reference: - Issue Date: 03/03/2016 Effective Date: 03/03/2016 Last date noted as effective: 01/04/2017 Status: ISSUED
P	396m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS LIMITED Process: TREATMENT AND PROCESSING, OTHER THAN EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW... Permit Number: WP3534GX Original Permit Number: -	EPR Reference: - Issue Date: 03/03/2016 Effective Date: 03/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
P	396m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS LIMITED Process: TREATMENT AND PROCESSING, OTHER THAN EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW... Permit Number: WP3534GX Original Permit Number: -	EPR Reference: - Issue Date: 03/03/2016 Effective Date: 03/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE



ID	Location	Details	
P	396m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS LIMITED Process: DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 50 TONNES PER DAY (OR ... Permit Number: WP3534GX Original Permit Number: -	EPR Reference: - Issue Date: 03/03/2016 Effective Date: 03/03/2016 Last date noted as effective: 26/10/2020 Status: EFFECTIVE
P	396m NE	Operator: OSCAR MAYER LIMITED Installation Name: ROWAN FOODS LIMITED Process: TREATMENT AND PROCESSING, OTHER THAN EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW... Permit Number: WP3534GX Original Permit Number: -	EPR Reference: - Issue Date: 03/03/2016 Effective Date: 03/03/2016 Last date noted as effective: 26/10/2020 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: - Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BK3638 Original Permit Number: BK3638	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK3638 Original Permit Number: BK3638	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 26/10/2020 Status: EFFECTIVE



ID	Location	Details	
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 26/10/2020 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BK3638IF Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK3638IF Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BP3934LJ Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 14/07/2009 Effective Date: 14/07/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BP3934LJ Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 14/07/2009 Effective Date: 14/07/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: FP3836WE Original Permit Number: BK3638IF	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: DETERMINATION
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: FP3836WE Original Permit Number: BK3638IF	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: DETERMINATION
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: HP3338VH Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
R	465m S	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: HP3338VH Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

7

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
D	130m SE	Ball Packaging Europe, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS	Process: Surface Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.



ID	Location	Address	Details	
D	131m SE	Ardagh Metal Beverage, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS	Process: Coating Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
D	134m SE	Ball Packaging Europe, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS	Process: Surface Cleaning Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
L	363m S	Williams Services & Steve Williams Transport, Unit 11 Bridge Way Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
R	457m S	Hydro Aluminium Deeside Ltd, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 30/03/2006 Comment: Wood processing
26	468m NW	Ipsen Biopharm Ltd, Unit 9, Ash Road North, Wrexham Industrial Estate, Wrexham, LL13 9UF	Process: Plant Health and Biocides Products Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
27	477m E	Tritech Precision Products Ltd, Bridge Road North, Wrexham Industrial Estate, Wrexham, LL13 9PS	Process: Other Metal Processes Status: Current Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 12/03/2007 Comment: Not given

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

20

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
G	243m S	WREXHAM IND ESTATE FACTORY/COEDABEN, WREXHAM IND ESTATE FACTORY/COEDA, FACTORY/COEDABEN ROAD	Effluent Type: UNSPECIFIED Permit Number: CM0064501 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 27/04/1971 Effective Date: 27/04/1971 Revocation Date: 28/04/1993
H	260m SW	PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD	Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 1 Receiving Water: STREAM NR REDWITHER BROOK	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1901 Effective Date: 01/01/1901 Revocation Date: 28/01/1990
H	260m SW	PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD	Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 2 Receiving Water: STREAM NR REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/01/1990 Effective Date: 29/01/1990 Revocation Date: 06/05/1993
J	265m SE	CONTINENTAL CAN CO LTD	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CM0085401 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: REVOKED - UNSPECIFIED Issue date: 30/04/1979 Effective Date: 30/04/1979 Revocation Date: 08/03/1994
J	265m SE	CONTINENTAL CAN CO LTD	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CM0085401 Permit Version: 2 Receiving Water: REDWITHER BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 09/03/1994 Effective Date: 09/03/1994 Revocation Date: 21/01/2004
K	283m E	WREXHAM IND.EST.DIS.2	Effluent Type: UNSPECIFIED Permit Number: CM0093602 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993
K	294m E	WREXHAM IND. ESTATE - DISCHARG	Effluent Type: UNSPECIFIED Permit Number: CM0093601 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993



ID	Location	Address	Details	
14	311m E	PCB CONTAINMENT CELL MARLBOROUGH RO, MARLBOROUGH ROAD, WREXHAM INDUSTRIAL ESTATE, WREXHAM	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CM0149901 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: REVOKED - UNSPECIFIED Issue date: 13/01/1987 Effective Date: 13/01/1987 Revocation Date: 27/03/1995
K	311m E	WREXHAM IND. ESTATE - DISCHARG	Effluent Type: UNSPECIFIED Permit Number: CM0093603 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993
M	352m E	WREXHAM IND. ESTATE - DISCHARG	Effluent Type: UNSPECIFIED Permit Number: CM0093604 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993
17	353m E	PCB CONTAINMENT CELL MARLBOROUGH RO, MARLBOROUGH ROAD, WREXHAM INDUSTRIAL ESTATE, Wrexham	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CM0149901 Permit Version: 3 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 23/08/2005 Effective Date: 24/08/2005 Revocation Date: -
M	363m E	WREXHAM IND.EST.DIS.6	Effluent Type: UNSPECIFIED Permit Number: CM0093605 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993
N	366m W	UNIT 2, LITTLE ERLAS, ERLAS LANE, ABENBURY, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337201 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -
19	382m SE	WREXHAM IND ESTATE BRITISH CELANESE, WREXHAM IND ESTATE BRITISH CELAN, BRITISH CELANESE SITE	Effluent Type: UNSPECIFIED Permit Number: CM0001801 Permit Version: 1 Receiving Water: TRIB.OF REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 31/01/1966 Effective Date: 31/01/1966 Revocation Date: 26/02/1993
N	387m W	UNIT 2, LITTLE ERLAS, ERLAS LANE, ABENBURY, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337202 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -



ID	Location	Address	Details	
N	389m W	UNIT 2, LITTLE ERLAS, ERLAS LANE, ABENBURY, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337203 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -
20	396m SE	WREXHAM IND ESTATE CONREN LTD, CONREN LTD	Effluent Type: UNSPECIFIED Permit Number: CM0086201 Permit Version: 1 Receiving Water: TRIB. OF REWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 04/10/1979 Effective Date: 04/10/1979 Revocation Date: 26/04/1995
M	397m E	WREXHAM IND. ESTATE - DISCHARG	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CM0093606 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993
22	414m N	WREXHAM IND.EST. BRITISH CELANESE S, WREXHAM IND.EST. BRITISH CELANES, BRITISH CELANESE SITE SUPERSEDED, SUPERSEDED BY CM01347.01	Effluent Type: UNSPECIFIED Permit Number: CM0052201 Permit Version: 1 Receiving Water: UN-NAMED TRIB OF REDWITHER BRO	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 17/10/1968 Effective Date: 17/10/1968 Revocation Date: 26/02/1993
M	422m E	WREXHAM IND.EST.DIS.8.	Effluent Type: UNSPECIFIED Permit Number: CM0093607 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 28/04/1993

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

1

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Name	Status	Receiving Water	Authorised Substances
O	391m E	Welsh Development Agency Pcb Cell 283	Active	-	Biphenyl

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

30

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Details	
A	41m SE	Incident Date: 19/01/2006 Incident Identification: 371865 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	41m SE	Incident Date: 19/01/2006 Incident Identification: 371865 Pollutant: Organic Chemicals/Products Pollutant Description: Pesticides and Biocides	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	49m W	Incident Date: 19/08/2019 Incident Identification: 1905523 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 2 (Significant) Land Impact: No Details Air Impact: Category 2 (Significant)

ID	Location	Details	
5	66m SW	Incident Date: 13/07/2004 Incident Identification: 250782 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
6	107m S	Incident Date: 03/10/2002 Incident Identification: 112354 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	129m SE	Incident Date: 15/07/2001 Incident Identification: 16543 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	156m W	Incident Date: 04/02/2016 Incident Identification: 1408258 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	164m S	Incident Date: 08/08/2002 Incident Identification: 98530 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	173m SW	Incident Date: 29/10/2015 Incident Identification: 1384243 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	205m SW	Incident Date: 18/03/2002 Incident Identification: 64721 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
12	239m S	Incident Date: 01/06/2001 Incident Identification: 7295 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	266m SW	Incident Date: 04/05/2001 Incident Identification: 4393 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
15	324m E	Incident Date: 08/12/2015 Incident Identification: 1393353 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Suspended Solids	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
16	324m SE	Incident Date: 15/05/2013 Incident Identification: 1113038 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	333m S	Incident Date: 16/07/2014 Incident Identification: 1256528 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
18	376m NE	Incident Date: 19/10/2015 Incident Identification: 1381826 Pollutant: Organic Chemicals/Products Pollutant Description: Paints and Varnishes	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	379m E	Incident Date: 02/01/2008 Incident Identification: 553362 Pollutant: Sewage Materials Pollutant Description: Process Effluent	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
21	406m SE	Incident Date: 21/03/2002 Incident Identification: 65555 Pollutant: Inorganic Chemicals/Products Pollutant Description: Ammonia Solutions	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
Q	434m SE	Incident Date: 26/06/2009 Incident Identification: 691429 Pollutant: Contaminated Water Pollutant Description: Vegetable Washings	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
23	435m NE	Incident Date: 04/10/2003 Incident Identification: 194336 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
24	435m N	Incident Date: 09/01/2014 Incident Identification: 1192657 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
R	446m S	Incident Date: 08/05/2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
R	446m S	Incident Date: 08/05/2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
25	449m SE	Incident Date: 17/07/2003 Incident Identification: 174571 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
Q	459m SE	Incident Date: 20/02/2015 Incident Identification: 1315409 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	481m SE	Incident Date: 23/01/2017 Incident Identification: 1700388 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other
Q	481m SE	Incident Date: 23/01/2017 Incident Identification: 1700388 Pollutant: Pollutant Not Identified Pollutant Description: Pollutant Not Identified	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other
Q	487m SE	Incident Date: 20/04/2002 Incident Identification: 73352 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	494m SE	Incident Date: 22/11/2016 Incident Identification: 1606987 Pollutant: Oils and Fuels Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
Q	494m SE	Incident Date: 22/11/2016 Incident Identification: 1606987 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m

2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	TILL-DMTN	TILL	DIAMICTON
320m NW	GSG-SAGR	GLACIAL SAND AND GRAVEL	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

Records within 500m

2

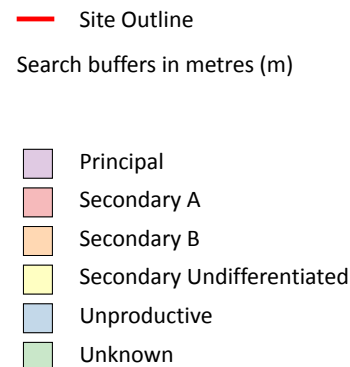
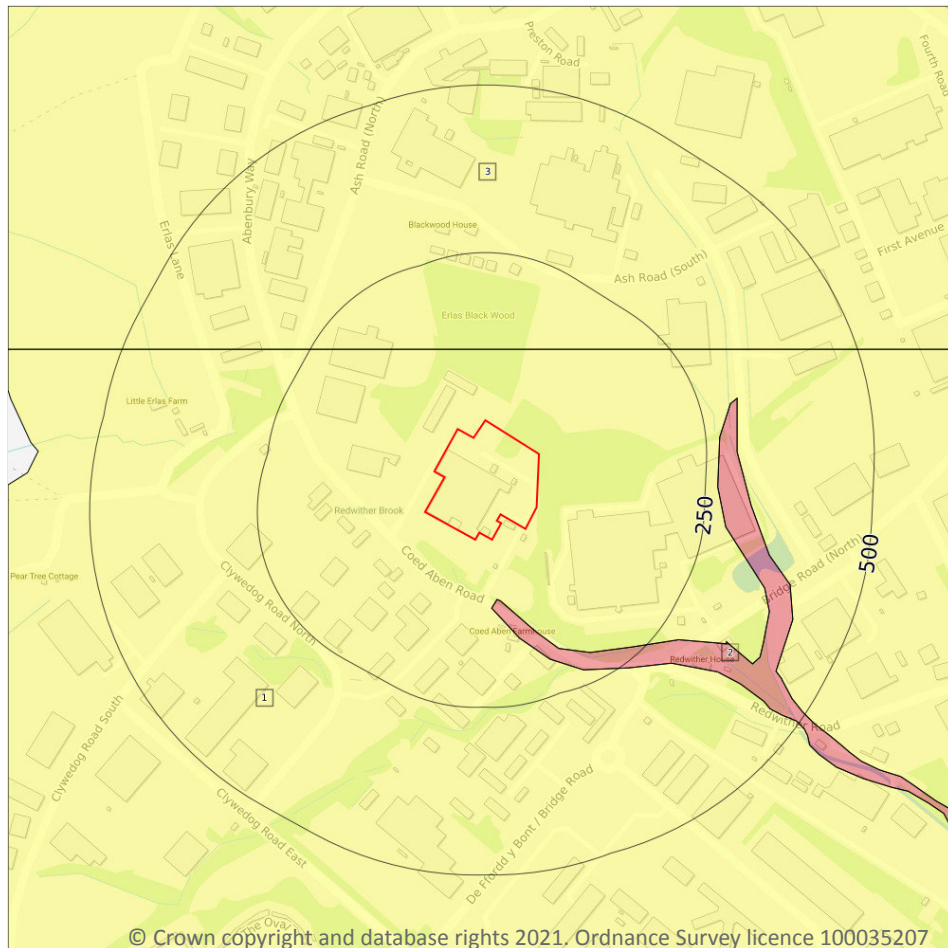
Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	WAWK-SISDM	WARWICKSHIRE GROUP	SILTSTONE AND SANDSTONE WITH SUBORDINATE MUDSTONE
357m N	PUND-SCON	PERMIAN ROCKS (UNDIFFERENTIATED)	SANDSTONE AND CONGLOMERATE, INTERBEDDED

This data is sourced from the British Geological Survey.



6 Hydrogeology - Superficial aquifer



6.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 54**

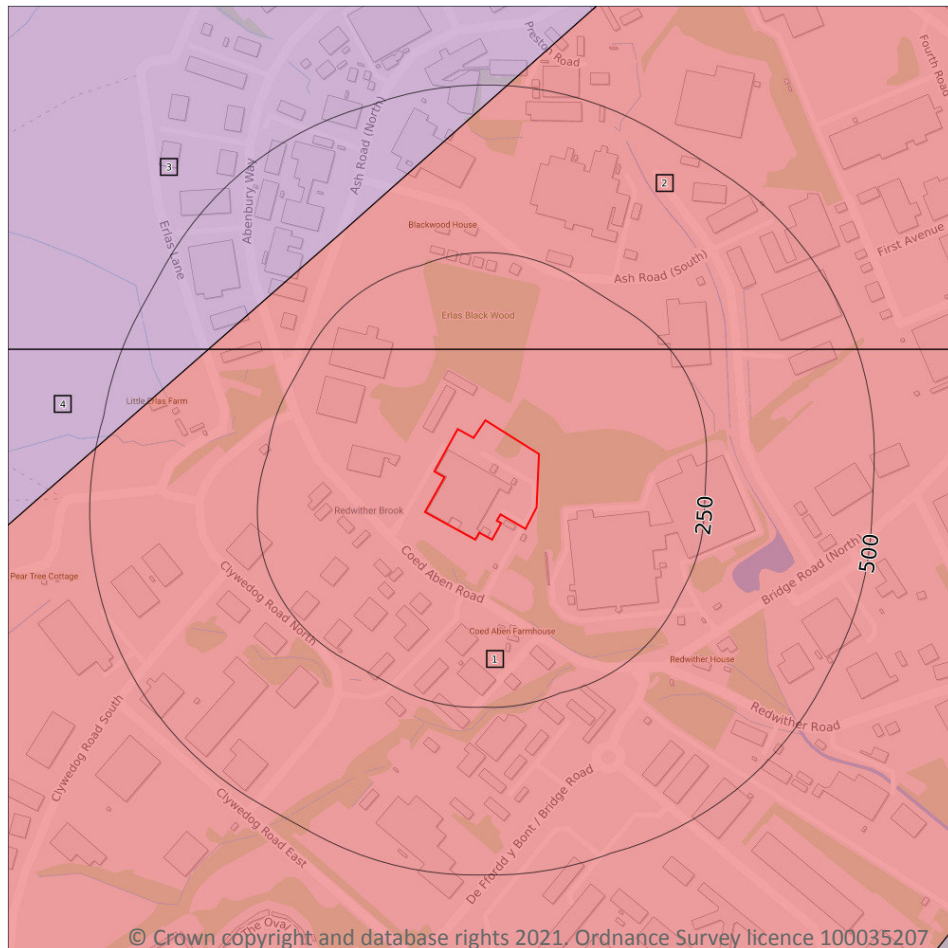
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	90m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	106m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

6.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 56](#)

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	106m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

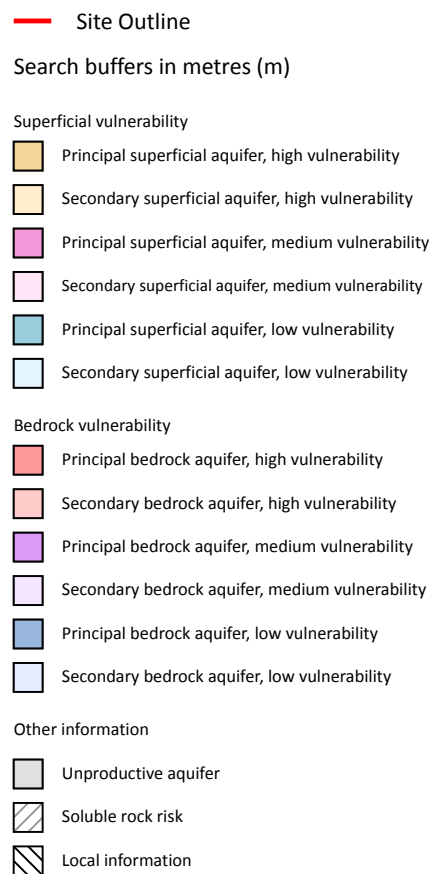


ID	Location	Designation	Description
3	335m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	383m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



6.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 58**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

6.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

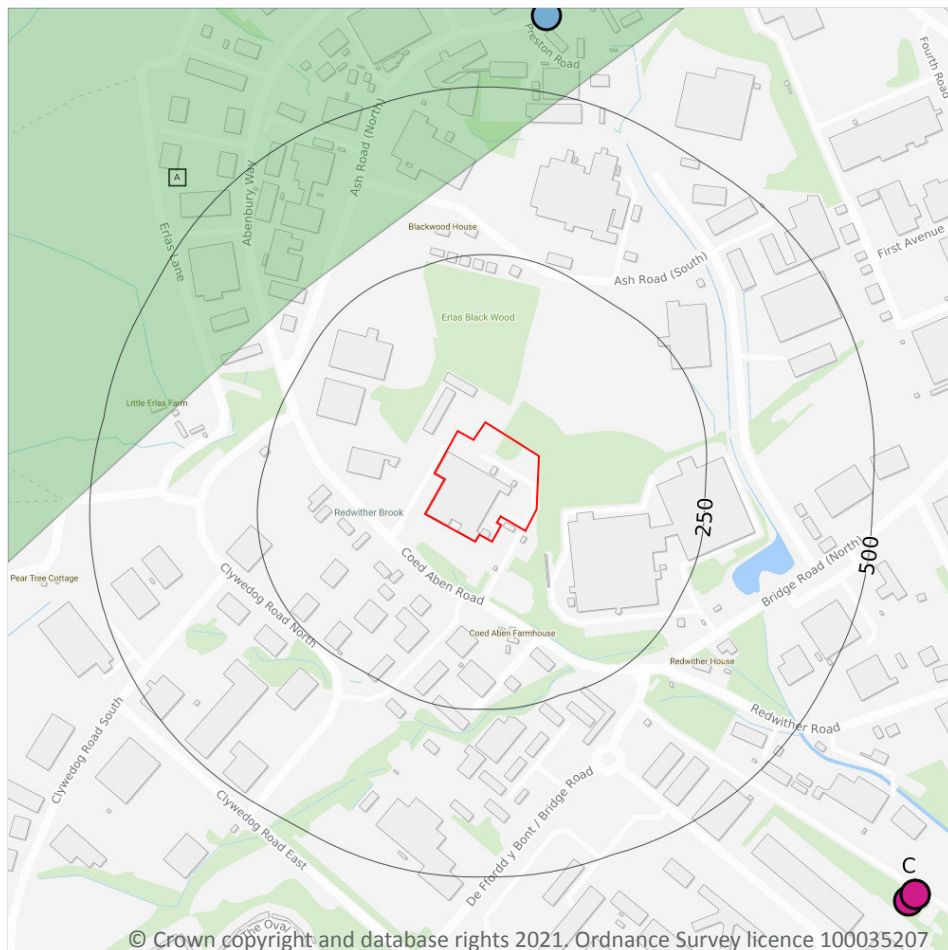
6.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

6.6 Groundwater abstractions

Records within 2000m

11

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 60**

ID	Location	Details	
-	790m SE	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -
-	790m SE	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -
-	790m SE	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
C	794m SE	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: SPECTRUM BUSINESS PARK BOREHOLE AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338350 Northing: 349180	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
C	795m SE	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338360 Northing: 349190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -



ID	Location	Details	
C	795m SE	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338360 Northing: 349190	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -
-	892m SE	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -
-	892m SE	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -
-	892m SE	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
-	892m SE	Status: Active Licence No: WA/067/0007/006 Details: Process Water - Medium Direct Source: Underground strata Point: - Data Type: Point Name: - Easting: 338190 Northing: 348940	Annual Volume (m ³): 131,400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: Oct 2 2016 12:00AM Expiry Date: Mar 30 2027 12:00AM Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	1361m N	Status: Historical Licence No: 24/67/9/0130 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL Data Type: Point Name: Taylor Easting: 337980 Northing: 351230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 14/06/1968 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

6.7 Surface water abstractions

Records within 2000m	1
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 60**

ID	Location	Details	
1	612m N	Status: Historical Licence No: 24/67/7/0178 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: TRIBUTARY OF REDWITHER BROOK Data Type: Point Name: Caparo Wire Ltd Easting: 337810 Northing: 350500	Annual Volume (m ³): 9955.74 Max Daily Volume (m ³): 27.276 Original Application No: - Original Start Date: 12/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

6.8 Potable abstractions

Records within 2000m	0
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

6.9 Source Protection Zones

Records within 500m**2**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 60**

ID	Location	Type	Description
A	306m NW	3	Total catchment
A	307m NW	3	Total catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

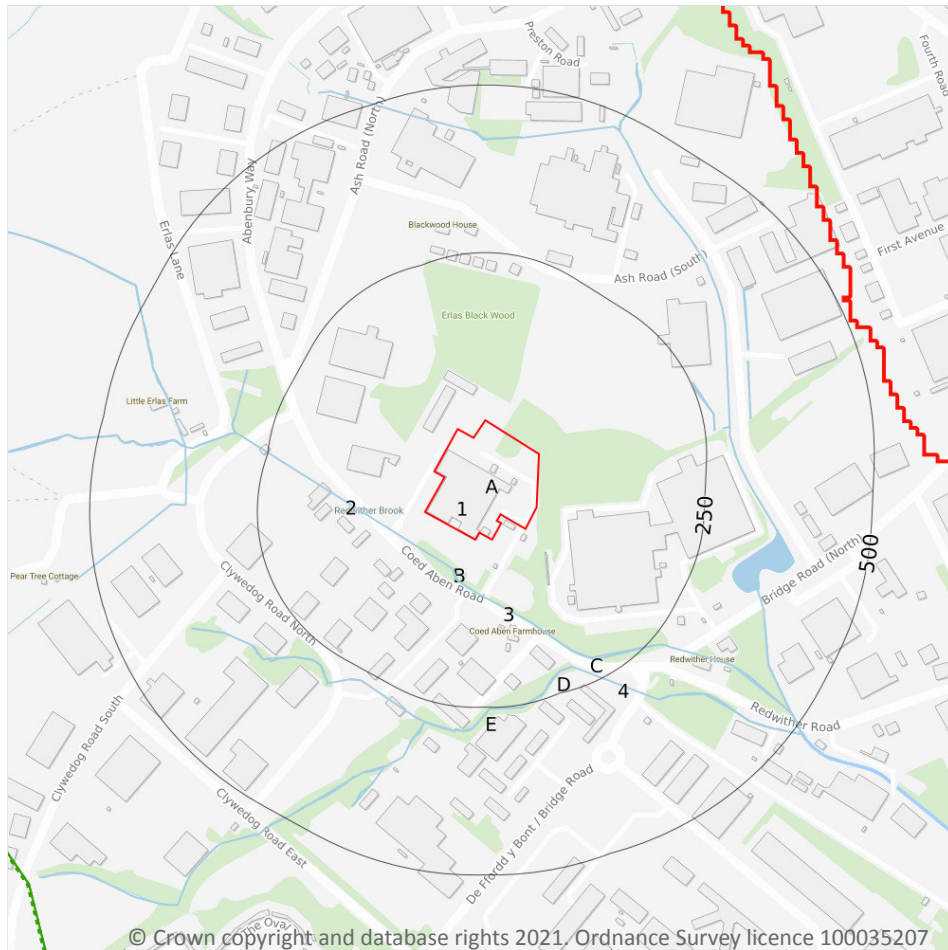
6.10 Source Protection Zones (confined aquifer)

Records within 500m**0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

7 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m

9

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 65**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	49m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
B	53m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
B	54m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
3	75m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
C	134m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
4	216m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	216m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	241m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	241m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m

5

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 65**

This data is sourced from the Ordnance Survey.



7.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 65**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Clywedog - Dee to Gwenfro	GB111067052110	Clywedog - Dee	Dee

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 65**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	946m SE	River	Clywedog - Dee to Gwenfro	GB111067052110	Moderate	Fail	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 WFD Groundwater bodies

Records on site

2

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 65**



ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Dee Permo-Triassic Sandstone	GB41101G202400	Good	Good	Good	2015
A	On site	Dee Permo-Triassic Sandstone	GB41101G202400	Good	Good	Good	2016

This data is sourced from the Environment Agency and Natural Resources Wales.



8 River and coastal flooding

8.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

8.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

8.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

8.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

8.6 Flood Zone 2

Records within 50m	0
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Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

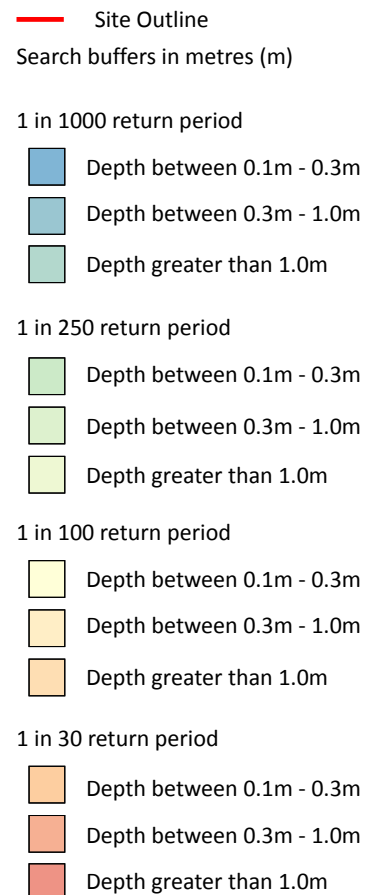
8.7 Flood Zone 3

Records within 50m	0
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Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

9 Surface water flooding



9.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 72**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

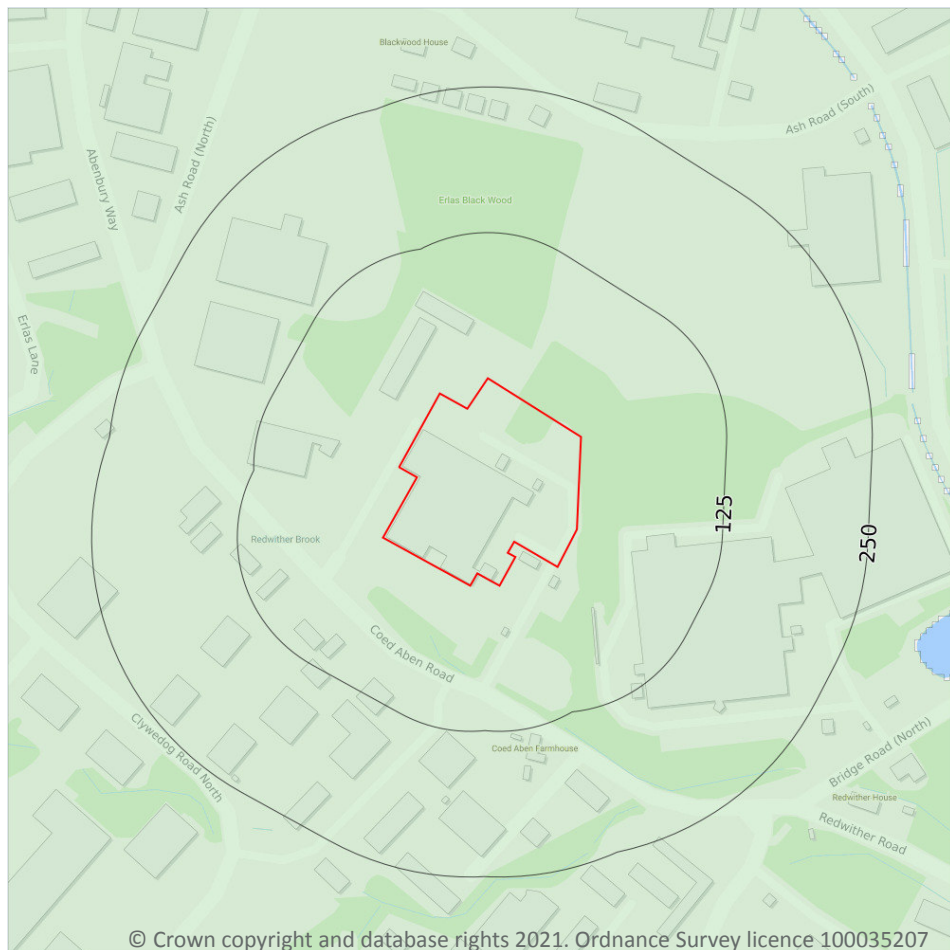
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



10 Groundwater flooding



10.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

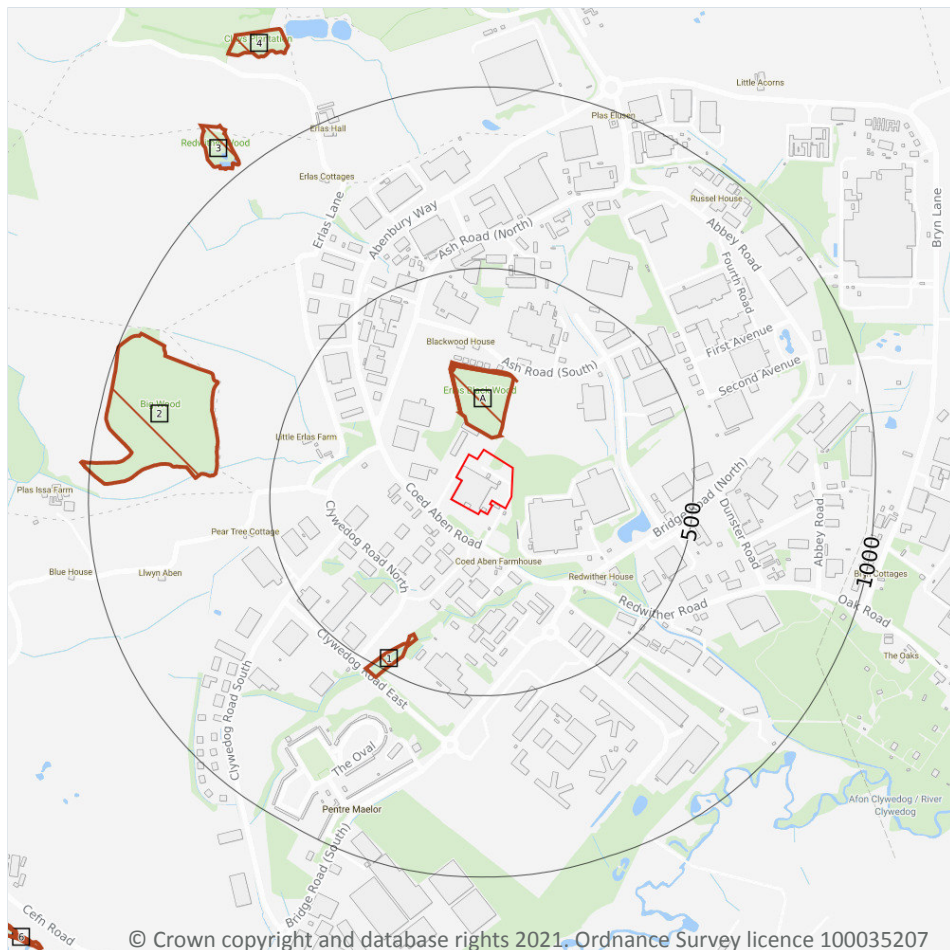
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 74**

This data is sourced from Ambiantal Risk Analytics.

11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.7 Designated Ancient Woodland

Records within 2000m

17

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 75**

ID	Location	Name	Woodland Type
A	39m NE	Unknown	Restored Ancient Woodland Site
A	115m N	Unknown	Restored Ancient Woodland Site
1	376m SW	Unknown	Ancient Semi Natural Woodland
2	652m W	Unknown	Ancient Semi Natural Woodland
3	1021m NW	Unknown	Ancient Semi Natural Woodland
4	1217m NW	Unknown	Restored Ancient Woodland Site
-	1270m W	Unknown	Ancient Semi Natural Woodland
6	1672m SW	Unknown	Ancient Semi Natural Woodland
7	1693m SW	Unknown	Restored Ancient Woodland Site
-	1715m SW	Unknown	Ancient Semi Natural Woodland
-	1821m S	Unknown	Ancient Semi Natural Woodland
-	1832m NW	Unknown	Ancient Semi Natural Woodland
-	1832m W	Unknown	Ancient Semi Natural Woodland
-	1868m W	Unknown	Ancient Semi Natural Woodland
-	1880m SE	Unknown	Ancient Semi Natural Woodland
-	1888m S	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
-	1966m S	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.8 Biosphere Reserves

Records within 2000m	0
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Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.9 Forest Parks

Records within 2000m	0
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These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

11.10 Marine Conservation Zones

Records within 2000m	0
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A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.11 Green Belt

Records within 2000m	0
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Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

11.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

11.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

11.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

11.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.



11.16 Nitrate Vulnerable Zones

Records within 2000m

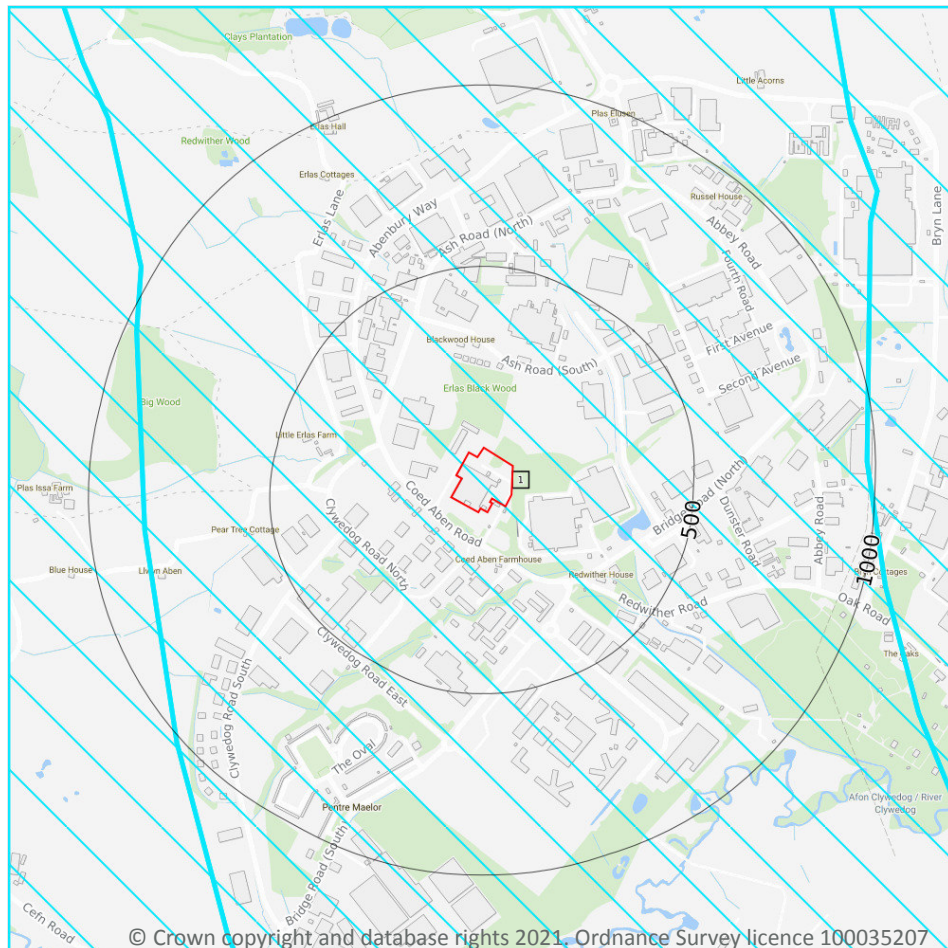
0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

11.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 81**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t)</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

12 Visual and cultural designations

12.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

12.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

12.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.



13 Agricultural designations

13.1 Agricultural Land Classification

Records within 250m

0

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

This data is sourced from Natural Resources Wales.

13.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

13.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

13.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



14 Habitat designations

14.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

14.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

14.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



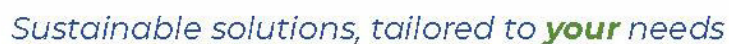
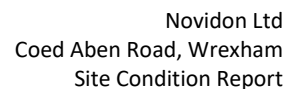
Data providers

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