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The evaluation and assessment provided in this report is specific to the iteration of the proposal detailed in *Section 1*. It would no longer be valid should the layout be changed in anyway, should the report be used for a different proposal at the same site or should it be used a maximum of 12 months after the date of issue.

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Figure 1 – Extended Phase 1 Habitat Survey

1 INTRODUCTION

1.1 Project Background

1.1.1 Marches Ecology was commissioned by James Jones & Sons (Pallets and Packaging) Ltd to undertake a Preliminary Ecological Appraisal of land at James Jones & Sons Ltd, Off Oak Road, Wrexham Industrial Estate, Wrexham (approximate OS Grid Ref. SJ 3938 4931). This Preliminary Ecological Appraisal (PEA) comprised an ecological background data search and an Extended Phase 1 Habitat Survey. This report is provided as supporting information to a planning application for a small development comprising a biomass boiler house/ kilns/ dry pallet store and associated infrastructure.

1.1.2 This report has three key aims:

- to provide an initial appraisal of the ecological value of the site and local ecological resource and thereby identify ecological constraints relevant to the proposal;
- to identify further surveys that may be required; and
- to identify potential mitigation/ compensation measures where possible along with opportunities to deliver ecological enhancement.

The structure of this Preliminary Ecological Appraisal Report (PEAR) is based on the guidance provided in the Chartered Institute of Ecology and Environmental Management (CIEEM) documents CIEEM (2017a) and CIEEM (2017b).

1.2 Report Author

1.2.1 This report was produced by Max Ellson of Marches Ecology. Max Ellson is an ecologist with over nineteen years of consultancy experience and has undertaken Extended Phase 1 Habitat Surveys on a wide range of sites. His relevant academic qualifications and professional memberships are as follows:

- Chartered Environmentalist (Society for the Environment).
- Full Member of the Chartered Institute of Ecology and Environmental Management (CIEEM).
- MSc Vegetation Survey and Assessment.
- BSc (Hons) Environmental Biology.

1.3 Site Description and Context

1.3.1 The survey site extends to approximately 0.6 hectares (ha); it is understood this reflects the 'redline planning boundary'. This is slightly larger than the proposed development site, which extends to approximately 0.43 ha. The proposed development/ survey site is located within/ immediately adjacent to the north-eastern end of the existing James Jones & Sons Ltd facility (which comprises a wooden pallet and packaging manufacturing site). This is itself located to the north of Oak Road, on the eastern edge of Wrexham Industrial Estate.

1.3.2 Part of the proposed development/ survey site is located within the existing facility and comprises amenity grassland, hard-standing and a small number of built structures. There is no defined southern/ eastern boundary to this area; the western boundary (and the boundary of the James Jones & Sons Ltd facility at this location) comprises a fence line, on the

opposite side of which is located another light industrial complex dominated by a large warehouse-type building.

- 1.3.3 The remainder of the proposed development/ survey site is located outside of the existing James Jones & Sons Ltd facility, albeit within the same landholding, from which it is separated by a fence line. This area comprises part of a larger field unit which is characterised by unmanaged grassland/ scrub. The western boundary of this area is fenced as above. There are no other defined boundaries, although parts of the northern/ eastern edges of the proposed development site were demarcated with red posts at the time of the Extended Phase 1 Habitat Survey. The wider field unit is fenced on all sides. A similar field unit is located to the immediate north. Open agricultural fields dominate the landscape to the east.

1.4 The Development

- 1.4.1 The proposed development is outlined within a 'Design and Access Statement' (Kingsway Design 2020) which describes the proposal as follows:

'the construction of a biomass boiler house and kilns and a dry pallet store together with associated fuel store and external works'.

- 1.4.2 The statement further outlines that the development will comprise of four key aspects, as follows:

1. The construction of a new biomass boiler house with an attached fuel store.
2. The construction of 2 no. new kilns (with a further 3 no. kilns to possibly be added at a later date) heated by steam produced in the new boiler house.
3. The construction of a new dry pallet store.
4. Associated drainage and external works.

- 1.4.3 The proposals are illustrated on a series of Kingsway Design plans, including Drawing no. 0729/01 (dated November 2019), entitled '*Site Plan as Existing*', and Drawing no. 0729/02_RevB (dated October 2020), entitled '*Site Plan as Proposed*'.

- 1.4.4 The statement further describes that the boiler house and kilns will be constructed off-site and once installed will be clad with profiled metal sheeting. The dry pallet store will comprise a profiled metal sheeted roof, supported by steel columns. 4 no. existing built structures will be demolished to accommodate the proposals. Although no adjustment to existing site access roads from Oak Road will be necessary, it is understood that a short new access road from existing areas of hard-standing to the new pallet store/ boiler house will be required. No details on this have been provided at the current time.

- 1.4.5 Drawing no. 0729/02_RevB indicates that surface and building runoff water will be directed to a new subterranean holding tank which will hold water before it is released into the existing site sewer system at a gradual pace. No further details on the drainage scheme have been provided to inform this report.

- 1.4.6 It is understood (Kingsway Development, *pers. comm.*) that new boundaries will be secured with metal palisade fencing on completion of the construction works.

- 1.4.7 No details on the approximate time scale/ duration of the construction phase have been provided to inform this report. No further detail with regards the proposed development has been provided at this stage.

1.5 Planning Policy

Introduction

- 1.5.1 This section provides a brief summary of key national and local planning policies. It is not a comprehensive review of all such planning policy, the intention being to identify those considered to be of most relevance to ecology and provide context for the proposal.

Wales

Planning Policy Wales

- 1.5.2 Planning Policy Wales (PPW) sets out national land use planning policies (Welsh Government 2018). Chapter 6 is of particular relevance (though it is complementary to other themes within the document) and is entitled 'Distinctive and Natural Places'.

With specific reference to development proposals the following key statement is made:

'Development plan strategies, policies and development proposals must consider the need to:

- support the conservation of biodiversity, in particular the conservation of wildlife and habitats;*
- ensure action in Wales contributes to meeting international responsibilities and obligations for biodiversity and habitats;*
- ensure statutorily and non-statutorily designated sites are properly protected and managed;*
- safeguard protected and priority species and existing biodiversity assets from impacts which directly affect their nature conservation interests and compromise the resilience of ecological networks and the components which underpin them, such as water and soil, including peat; and secure enhancement of and improvements to ecosystem resilience by improving diversity, condition, extent and connectivity of ecological networks'.*

Furthermore, it states that:

- 'It is important that biodiversity and resilience considerations are taken into account at an early stage in both development plan preparation and when proposing or considering development proposals'.*
- 'The planning system has a key role to play in helping to reverse the decline in biodiversity and increasing resilience of ecosystems, at various scales, by ensuring appropriate mechanisms are in place to both protect against loss and to secure enhancement'.*
- 'Where adverse effects on the environment cannot be avoided or mitigated, it will be necessary to refuse planning permission'.*

Use of the mitigation hierarchy is emphasised:

'Planning authorities must follow a stepwise approach to maintain and enhance biodiversity and build resilient ecological networks by ensuring that any adverse environmental effects

are firstly avoided, then minimized, mitigated, and as a last resort compensated for; enhancement must be secured wherever possible'.

- 1.5.3 Areas that Chapter 6 covers include biodiversity and resilience of ecosystems duty, designated sites, maintaining and enhancing biodiversity, protected species, specific habitats/ areas, sustainable drainage systems (SuDS) and de-risking development.

Technical Advice Note 5

- 1.5.4 PPW is supplemented by a series of Technical Advice Notes (TAN). TAN 5 covers 'Nature Conservation and Planning' (Welsh Government 2009). It provides advice to local planning authorities on how the land use planning system should contribute to protecting and enhancing biodiversity and geological conservation. It includes chapters covering the key principles of planning for nature conservation; the preparation and review of development plans; nature conservation in development control procedures; the conservation of internationally and nationally designated sites, habitats and local sites; and the conservation of protected and priority habitats and species.

- 1.5.5 In paragraph 2.4 it states that '*...when deciding planning applications that may affect nature conservation, local planning authorities should:*

- *pay particular attention to the principles of sustainable development, including respect for environmental limits, applying the precautionary principle, using scientific knowledge to aid decision making and taking account of the full range of costs and benefits in a long term perspective (PPW 2.2.1¹);*
- *contribute to the protection and improvement of the environment, so as to improve the quality of life and protect local and global ecosystems, seeking to avoid irreversible harmful effects on the natural environment (PPW 2.3.2);*
- *promote the conservation and enhancement of statutorily designated areas and undeveloped coast (PPW 2.3.2);*
- *ensure that appropriate weight is attached to designated sites of international, national and local importance (PPW 5.3.2);*
- *protect wildlife and natural features in the wider environment, with appropriate weight attached to priority habitats and species in Biodiversity Action Plans (PPW 5.2);*
- *ensure that all material considerations are taken into account and decisions are informed by adequate information about the potential effects of development on nature conservation (PPW paragraphs 5.5.1 and 5.5.2);*
- *ensure that the range and population of protected species is sustained (PPW 5.2.3, 5.5.11 and 5.5.12);*
- *adopt a step-wise approach to avoid harm to nature conservation, minimise unavoidable harm by mitigation measures, offset residual harm by compensation measures and look for new opportunities to enhance nature conservation; where there may be significant harmful effects local planning authorities will need to be satisfied that any reasonable alternative sites that would result in less or no harm have been fully considered (PPW 5.2.2, 5.2.7 and 5.5.2).*

¹ References to the relevant part of PPW.

Wrexham

- 1.5.6 Local planning authorities will consider biodiversity/ nature conservation issues in accordance with adopted policies and plans. The following are considered of particular relevance to the proposal.

Wrexham Unitary Development Plan

- 1.5.7 The Wrexham Unitary Development Plan (UDP) was adopted in February 2005. It will be replaced by the Local Development Plan. The UDP '*...provides a framework for local decision making and the reconciliation of development and conservation interests...*'.

Relevant strategic and general development policies include:

- *Policy PS2. Development must not materially detrimentally affect countryside, landscape/townscape character, open space, or the quality of the natural environment.*
- *Policy PS11. Encouragement will be given to proposals which improve the biodiversity value of sites and to the establishment of local nature reserves where the nature conservation and landscape interest of the land will be protected and enhanced.*
- *Policy GDP1f). Ensure the safety and amenity of the public and safeguard the environment from the adverse effects of pollution of water, land or air, hazards from industry and quarrying, and associated noise, odour or vibration arising from development.*
- *Policy GDP1h). Safeguard sites and areas of nature conservation and wildlife interest, and to provide new habitats where there is an unavoidable loss of existing habitats and areas of wildlife interest.*

Section 5 of the UDP concerns 'Environment and Conservation'. The relevant policies listed are as follows:

- *Policy EC4. Development proposals should provide for the conservation and management of hedgerows, trees, orchards, woodland, wildlife and other natural landscape and water features, and include new planting in order to enhance the character of the landscape and townscape. Development which results in the loss or significant damage to valuable trees, important hedgerows or ancient woodland sites will not be permitted.*
- *Policy EC6. Development either within or close to sites of biodiversity interest will only be permitted where it can be clearly demonstrated that the need for the development outweighs the need to safeguard the intrinsic nature conservation value of the site. Where such development is permitted, damage should be kept to a minimum, and compensatory measures should be provided. Measures to improve the biodiversity value of sites and enhance their natural conservation interest and landscape quality including the establishment of local nature reserves, will be supported.*
- *Policy EC13. Development which would result in an unacceptable adverse impact on the water environment due to additional surface water run-off will not be permitted.*
- *Policy EC14. Development which would have an unacceptable adverse impact upon the capacity, flow, quality or availability of controlled waters and associated land will not be permitted.*

Local Planning Guidance

- 1.5.8 Wrexham County Borough Council (WCBC) has produced a series of supplementary planning guidance documents which set out detailed advice on the way in which Development Plan policies will be applied. Supplementary planning guidance is a material consideration in the determination of planning applications for development. The following Local Planning Guidance (LPG) notes are of particular relevance:
- LPG 17 Trees and Development. Adopted September 2000, Updated December 2012. Provides further advice in relation to UDP policy EC4.
 - LPG 29 Wrexham Industrial Estate – Employment Development and Nature Conservation. Adopted August 2009.
 - LPG 32 Biodiversity and Development. Adopted March 2011. Provides further advice in relation to UDP policies PS2, PS11, EC4 and EC6. Of particular importance it details the requirements for ecological survey and reporting.
- 1.5.9 The Wrexham Biodiversity Action Plan (WBAP) is also listed as supplementary planning guidance on the WCBC website. This reference is out-of-date, the WBAP has been archived and is no longer available.

1.6 Legislation

Introduction

- 1.6.1 This sub-section provides a brief summary of key legislation relevant to ecology/ nature conservation and the development. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation but summarises the salient points. Further information on how this legislation affects the protection of particular species is provided in *Appendix 1*.
- 1.6.2 The UK exited the EU on 31st January 2020. There will now follow a transition period until the end of the year during which EU legislation and policy will be followed². *'EU legislation which applied directly or indirectly to the UK before 11.00 pm on 31st December 2020 has been retained in UK law as a form of domestic legislation known as 'retained EU legislation'. This is set out in Sections 2 and 3 of the European Union (Withdrawal) Act 2018'*³.

The Conservation of Habitats and Species Regulations 2017 (The Regulations)

- 1.6.3 Transposed the *EC Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora 1992* into UK law. The Regulations provide for the protection of sites in the UK that support habitats and species of European importance (e.g. Special Protection Areas (SPAs) and Special Areas of Conservation (SACs)). The Regulations also provide full protection for certain species which are frequently referred to as European Protected Species (EPS). EPS of potential relevance to the site include bats and Great Crested Newt (*Triturus cristatus*).

² <https://cieem.net/referencing-environmental-eu-legislation-post-brexit/>

³ <https://www.legislation.gov.uk/eu-legislation-and-uk-law#:~:text=The%20UK%20is%20no%20longer,on%20legislation.gov.uk>

The Wildlife and Countryside Act 1981, as amended (WCA)

- 1.6.4 The WCA strengthened protection for nature conservation sites of at least national importance and provides varying levels of protection for a number of species within the UK. This protection may include prohibition of some or all of: killing, injuring, disturbing, taking, sale/barter or possession of species and also protection of breeding/ sheltering places. The following species/ species groups that receive some level of protection under the WCA and are of potential relevance to the proposal include Badger (*Meles meles*), bats, Great Crested Newts, reptiles and birds. The WCA also prohibits the spread of certain non-native invasive species.

The Countryside and Rights of Way Act 2000 (The CRow Act)

- 1.6.5 The CRow Act includes legislation in relation to the Biodiversity Action Plan; more stringent management, protection and consenting measures for SSSIs; greater penalties for wildlife crime; and greater protection for species listed in the WCA. Some of this legislation was superseded by the NERC Act.

The Natural Environment and Rural Communities Act 2006 (The NERC Act)

- 1.6.6 *Sections 40 to 42* of the NERC Act replace *Section 74* of the CRow Act. *Section 40* of the NERC Act extends to all public authorities (including local planning authorities) the existing *Section 74* duty to have regard to biodiversity as far as is consistent with the proper exercise of their functions. In addition, *Sections 41* (England) and *42* (Wales) provide a list of species and habitats of principal importance for conservation of biological diversity. Government has a statutory duty to promote steps “to further the conservation” of habitats and species listed in *Sections 41* and *42*.

Environment (Wales) Act 2016

- 1.6.7 The Environment Act enhances and replaces the current NERC Act (*Section 40*) duty to require all public authorities, when carrying out their functions in Wales, to seek to ‘maintain and enhance biodiversity’ where it is within the proper exercise of their functions. In doing so, public authorities must also seek to ‘promote the resilience of ecosystems’. *Section 7* of the Environment Act provides a list of the living organisms and habitats of principal importance for the purpose of maintaining and enhancing biodiversity in Wales. This list replaces that previously provided in *Section 42* of the NERC Act.

The Protection of Badgers Act 1992 (The Badgers Act)

- 1.6.8 The Badgers Act provides for the protection of Badgers and their setts. This legal protection is provided for welfare rather than the conservation value of the species.

2 METHODOLOGY

2.1 Desk Study

2.1.1 A desk study was undertaken to provide background information on the ecological status of the proposed development/ survey site and its surroundings (a 1 km search area centred on the site was defined). Information was requested from Cofnod. Information sought included designated (nature conservation) sites, Ancient Woodland/ other habitats, legally protected species and other species of nature conservation interest. In addition, contextual information available on the MAGIC environmental database (<http://magic.defra.gov.uk/>) was consulted.

2.1.2 Cofnod provide two sets of records – a ‘Confidential’ set which is not authorised for release into the public domain, and a ‘Public Version’ where the accuracy of some of the grid references has been reduced. The Confidential data set has been issued to the client as part of this study; ‘Public Version’ records are utilised in this document (the full report of which is provided as *Appendix 2*).

2.2 Field Survey

Extended Phase 1 Habitat Survey

2.2.1 The Extended Phase 1 Habitat Survey was carried out on 01st February 2021 by Max Ellson of Marches Ecology. The Extended Phase 1 Habitat plan is provided as *Figure 1*. The survey focussed on land within the site boundary (the ‘survey site’, refer to *Figure 1*), this encompassed the ‘proposed development site’ (again, refer to *Figure 1*), as well as a small area of adjacent land which is understood to correspond to the ‘planning redline boundary’. The field at *Target Note 4* is partly within the survey site, areas within this field which are outside of the survey site were only briefly assessed. Immediately adjacent habitat was considered where deemed appropriate and viewed from the survey site boundary where possible. The weather during the survey was sunny, calm and cold.

2.2.2 Phase 1 Habitat Survey involves identifying areas or features of particular interest either in terms of their botanical interest, and/or habitat potential for protected or other notable species that are likely to occur in the region and within the survey site. The Phase 1 Habitat Survey has been adapted in this instance as an ‘extended’ Phase 1 Habitat Survey, where more information has been obtained to inform site assessment. The methods used centre on the Phase 1 Habitat Survey approach (JNCC 2010) as extended for use in Environmental Impact Assessment (Institute of Environmental Assessment 1995). Extended Phase 1 Habitat Survey involves the following elements:

- Habitat mapping using a set of standard colour codes to indicate habitat types on a Phase 1 Habitat map.
- Description of features of ecological or nature conservation interest in notes relating to numbered locations on the Phase 1 Habitat map, called target notes.

2.2.3 In addition to the habitat map and target notes, a plant species list was compiled (provided in *Table 1, Section 8*). Plant nomenclature in this report follows Stace (2010). February is outside the accepted survey period for Extended Phase 1 Habitat Surveys. It is unrealistic to suppose that walk-through surveys can generate completely exhaustive species lists at any time of year. It is considered that the list in this report indicates the character of the vegetation and the ecological value of the area inspected.

2.2.4 Further information describing the assessment conducted during the Extended Phase 1 Habitat Survey for particular species is provided briefly below:

- Badger. Areas within the survey site that might be used by Badger for foraging and sett building were assessed. Incidental foraging signs, tree scratching, paths, latrines and setts were recorded if found (Harris *et al.*, 1989).
- Bats. The potential value of the habitat for foraging/ commuting and roosting was assessed in accordance with *Table 4.1* provided in Collins (2016).
- Great Crested Newts. The quality of terrestrial and aquatic habitat for Great Crested Newts was assessed. The assessment of aquatic habitat was based on the Habitat Suitability Index (Oldham, *et al.* 2000).
- Reptiles. A qualitative assessment of the habitat for reptiles was undertaken. The survey involved identifying potential basking areas, hibernation sites and foraging habitat. English Nature (2004) provides information on the distribution and ecology of the four widespread species. Habitat requirements differ between species but are summarised in Edgar *et al.* (2010).
- Birds. The habitat within the survey site was assessed for its potential value for breeding birds based on guidance provided in e.g. JNCC (2004).

2.3 Survey Limitations

2.3.1 The following may be considered survey limitations:

- The Extended Phase 1 Habitat Survey was undertaken outside the accepted optimal period for such surveys. Many plants may not be visible at this time of year.
- Some parts of the survey site are characterised by scrub or other dense vegetation (e.g. *Target Note 5*) which may have obscured evidence of use of the survey site by protected/ notable species.

None of the survey limitations listed above significantly affected the findings of the survey and therefore the conclusions and prescribed mitigation measures. The survey was conducted in accordance with a Covid-19 Risk Assessment. This did not give rise to any limitations at this site.

2.4 Evaluation

2.4.1 The ecological importance (value) of habitats and/or species is often assessed according to a number of widely used criteria of which perhaps the most frequently used are naturalness, extent, rarity, and diversity. For the purpose of this report the ecological importance of the habitat and species present on the site has been determined using the approach detailed in CIEEM (2018). Geographical context is used as a frame of reference for identifying the importance of ecological features. The frame of reference has the following categories: International/ European - National - Regional - Metropolitan/County/Vice-county/ other local-authority wide area - Local. Within this report Local is defined as relating to district or parish; less than local refers to features of value at a Site level.

2.4.2 Broadly speaking habitat importance should be determined by identifying designated sites, 'priority habitats' (as defined in CIEEM, 2017a) or by using published, ideally local, site selection criteria. The ecological importance of a species considers its distribution and legal or conservation status, the latter is mostly due to inherent rarity. 'Priority species' are also

defined in CIEEM (2017a) and include legally protected species as well as those identified on various conservation lists.

3 BASELINE ECOLOGICAL CONDITIONS

3.1 Protected Sites

Statutory

- 3.1.1 There are no statutory designated sites within 1 km of the proposed development/ survey site. The closest such sites are the River Dee and Bala Lake/ Afon Dyfrdwy a Llyn Tegid Site of Special Scientific Interest (SSSI)/ River Dee and Bala Lake Special Area of Conservation (SAC) which are located approximately 1.7 km/ 2.2 km (respectively) to the east at their closest points.

Non-statutory

- 3.1.2 There is one non-statutory designated site within 1 km of the proposed development/ survey site: Wrexham Industrial Estate (W337) Wildlife Site (WS). It has two parts within the 1 km search area, the nearest of which is located approximately 315 m to the southwest of the proposed development/ survey site at its closest point. This is known as Cefn Park and consists of a complex mosaic of scrub, species-rich grassland and tall herbs; it also incorporates short lengths of Redwither Brook and the River Clywedog.
- 3.1.3 No areas of Ancient Semi-natural Woodland (ASNW) are located within the 1 km search area.

3.2 Habitats and Flora

Introduction

- 3.2.1 The Extended Phase 1 Habitat map is provided as *Figure 1*. The Target Notes (numbered 1 to 1a-d, 2, 3, 4 & 5 for the proposed development/ survey site, and 1e, 6, 7 & 8 for immediately adjacent land) are provided in *Section 6* and shown on *Figure 1*.

Scrub and Trees

- 3.2.2 Dense scrub at *Target Note 5* dominates the margins of a field unit which is located partly within the proposed development/ survey site. This resource is located adjacent to boundary fences and is impenetrable, being largely characterised by *Rubus fruticosus* agg. (Bramble) to 2 m high and frequently more than 10 m wide. This resource does not appear to be very species-rich.



An example of the dense scrub at *Target Note 5*; photo taken looking towards Willow tree at *Target Note 2*.



An example of the dense scrub at *Target Note 5*; photo taken looking towards the off-site trees at *Target Note 6*.

- 3.2.3 Elsewhere scrub is limited: occasional young bushes (largely *Crataegus monogyna* (Hawthorn)) are scattered within the grassland resource at *Target Note 4*, where there is also occasional young, incipient Bramble within the sward. There is also a small corner of young Bramble scrub located under the canopy of a mature *Salix caprea* (Goat Willow) at *Target Note 2* (the only 'tree' present).



The mature Goat Willow/ associated Bramble scrub at *Target Note 2*.

Grassland

- 3.2.4 Two distinct types of grassland are located within the proposed development/ survey site; amenity grassland and unmanaged, unimproved, neutral grassland.
- 3.2.5 Amenity grassland at *Target Note 3* occupies a small area adjacent to an existing storage pad within the curtilage of the existing facility. It appears to be frequently managed (mown), with the sward height being to approximately 0.05m, but frequently less. It is dominated by a range of grasses including *Lolium perenne* (Perennial Rye-grass), *Holcus lanatus* (Yorkshire-fog) and *Festuca rubra* (Red Fescue). *Bellis perennis* (Daisy) and *Ranunculus repens* (Creeping Buttercup) are frequent/ locally abundant throughout the sward. Other forbs are limited and are scattered at low levels of abundance.



Amenity grassland at Target Note 3.

- 3.2.6 The unmanaged, unimproved, neutral grassland at *Target Note 4* extends outside of the proposed development/ survey site to occupy the majority of a field unit (which is fringed by dense scrub, for example *Target Note 5*). The grassland is wet underfoot and there are occasional old machine tracks which hold shallow standing water. The sward is dense and tussocky and appears unmanaged; it is frequently to approximately 1 m in height. It appears to be co-dominated by *Deschampsia cespitosa* (Tufted Hair-grass) and *Juncus inflexus* (Hard Rush) with frequent *Dactylis glomerata* (Cock's-foot), Yorkshire-fog and *Agrostis stolonifera* (Creeping Bent), with less amounts of *Carex cf. nigra* (Common Sedge) and *Arrhenatherum elatius* (False Oat-grass). Tall-herbs and low-growing forbs are scattered throughout at various levels of abundance, such as frequent/ locally abundant *Centaurea nigra* (Common Knapweed), with locally frequent *Potentilla reptans* (Creeping Cinquefoil), occasional *Cirsium arvense* (Creeping Thistle), *Epilobium hirsutum* (Great Willowherb), *Pulicaria dysenterica* (Common Fleabane), and *Lathyrus pratensis* (Meadow Vetchling) and lesser amounts of *Leucanthemum vulgare* (Oxeye Daisy), *Plantago lanceolata* (Ribwort Plantain), *Prunella vulgaris* (Self-heal), and *Urtica dioica* (Common Nettle). Young shrub saplings are occasionally present (refer above).



The neutral grassland at *Target Note 4*. The red posts mark the boundary of the proposed development site. Photo taken looking towards the off-site trees at *Target Note 6*.



The neutral grassland at *Target Note 4*. One of the red posts (refer above) is circled. Photo taken looking to the southwest towards the main James Jones & Sons Ltd facility.

Other Habitats

3.2.7 Other habitats are restricted to the following resources:

- 4 no. built structures at *Target Notes 1a-1d* (these are further described below with regards bats);
- hard-standing; and
- fences.

Immediately Adjacent Habitats

- 3.2.8 The existing facility extends to the south/ south-east and is largely characterised by buildings and hard-standing with occasional stands of amenity grassland and shrub plantings.
- 3.2.9 Immediately to the west there is another light industrial site associated with a different company; this is dominated by a large industrial shed. Much of the immediate boundary adjacent to the proposed development/ survey site was not visible (for example due to the dense boundary scrub at *Target Note 5*), however small areas of ephemeral vegetation were noted, along with a small built structure at *Target Note 1e*, and 2 no. trees at *Target Note 6* (these are further considered below with regards bats).
- 3.2.10 The wider field unit associated with *Target Notes 4* and *5* outside the survey site appears to support a similar grassland resource, although some areas maybe drier with less Tufted Hair-grass and Common Knapweed.



Wider field unit associated with *Target Note 4*; photo taken from south-eastern corner.

- 3.2.11 There is also an adjacent field unit to the north (*Target Note 8*) which appears to support similar vegetation to that described at *Target Notes 4* and *5*.



The adjacent field unit at **Target Note 8**.

Flora

- 3.2.12 One notable plant was recorded during the survey; a few scattered plants of *Erodium cicutarium* (Common Stork's-Bill) were recorded from the edge of amenity grassland at **Target Note 3**. This is noted as 'Locally Scarce'⁴⁵ in Williams (2014).
- 3.2.13 No species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* were recorded.
- 3.2.14 None of the plant records provided by Cofnod are from within the proposed development/ survey site or immediately adjacent habitat. Notable records from the 1 km search, which are of potential relevance to the proposed development/ survey site area, include *Ononis spinosa* (Spiny Restharrow), *Sinapis arvensis* (Charlock), *Polemonium caeruleum* (Jacob's-ladder), *Cichorium intybus* (Chicory), *Genista tinctoria* (Dyer's Greenweed), *Populus nigra* ssp. *betulifolia* (Black-poplar), *Lathyrus nissolia* (Grass Vetchling), *Crepis biennis* (Rough Hawk's-beard), and *Silaum silaus* (Pepper-saxifrage).
- 3.2.15 Several species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* have been recorded from Wrexham Industrial Estate: Cofnod provided records of *Fallopia japonica* (Japanese Knotweed) and *Crocasmia x crocosmiiflora* (Montbretia) (both recorded from an adjacent 1 km grid square to the proposed development/ survey site), and *Impatiens glandulifera* (Indian Balsam) (the nearest record for which is from the River Clywedog, approximately 600 m away).

⁴ Found in 4-15 Wells sites in Denbighshire.

⁵ It is understood by the author that this status is to be revised in the near future, where upon it will no longer be considered locally scarce (or rare).

3.3 Species/ Species Groups

Badgers

- 3.3.1 No setts were recorded within the proposed development/ survey site. However evidence may have been obscured by dense vegetation, especially at *Target Note 5*. Opportunities for sett excavation within the site are provided by the dense stands of Bramble scrub at *Target Note 5*. However, the associated land is very flat and it is also unclear how wet the ground might be which may reduce the potential value.
- 3.3.2 No evidence of Badger activity was recorded from the proposed development/ survey site. 2 no. animal breaches were recorded under a wire mesh fence to the north (*Target Note 7*). Neither appeared particularly well used. Although at least one is of a shape/ size which could be used by Badger, no evidence was observed. Short paths extend into the field in which the proposed development/ survey site is located, however these soon peter out. Possible paths also extend on the opposite side of the fence [not accessible]. Occasional short lengths of infrequently used animal paths were observed within the survey site; Fox (*Vulpes vulpes*) is known to use the site (Site Manager *pers. comm.*) and Rabbit (*Oryctolagus cuniculus*) evidence was also located. The unmanaged grassland at *Target Note 4* provides habitat of moderate potential value for Badger foraging.
- 3.3.3 Cofnod provided five records of Badger from the 1 km search area, all are for setts with records between 1983 and 2008. The closest of these records is from approximately 600 m from the proposed development/ survey site.

Bats

- 3.3.4 There is only a single tree within the proposed development/ survey site, this being a mature Goat Willow at *Target Note 2* (refer to photo above). This is not of a sufficient age/ size to contain features of potential value for roosting bats and it provides negligible bat roost potential only. There are 2 no. trees located immediately adjacent to the proposed development/ survey site at *Target Note 6*; it was not possible to access near to these features due to dense scrub within the site. However one appears to be a *Betula pendula* (Silver Birch), and the other a Willow. They do not appear likely to provide more than negligible bat roost potential.
- 3.3.5 There are 4 no. built structures within the proposed development/ survey site (*Target Notes 1a-d*) and 1 no. immediately adjacent to it (*Target Note 1e*). These can be described as follows:
- *Target Note 1a*. The largest of the 4 structures, this comprises a single storey shed-type building which is constructed of corrugated metal walls and roof. It has a small number of windows and a large access door on the south-west facing wall. It appears to be in good condition. No internal access was sought. There appear to be minor gaps where some of the corrugated roof plates meet the walls.
 - *Target Note 1b & 1d*. 2 no. metal units.
 - *Target Note 1c*. A small wooden shed with single-skin walls. There are gaps between the roof and the front wall.



Building at *Target Note 1a*; eastern side.



Structure at *Target Note 1d*.

- 3.3.6 None of these structures are considered to provide any more than negligible bat roost potential; although the metal shed at *Target Note 1a* has minor gaps at the roof/ wall interface, the metal material is not deemed likely to provide suitable environmental attributes for bats. The small wooden shed at *Target Note 1c* is too small a structure to be of any particular potential value.
- 3.3.7 The part of the proposed development/ survey site associated with the amenity grassland and built structures (*Target Notes 1a-d* and 3) is unlikely to be of any particular value to

foraging bats. However, the adjacent unmanaged grassland and scrub at *Target Notes 4* and *5* is likely to be of moderate to high potential value for foraging bats. The sheltered edges of scrub are likely to be of particular potential value. However, it does represent only a small part of a much larger area of similar habitat (associated with the remainder of the field unit and also extending into similar habitat further north, e.g. *Target Note 8*). As a stand-alone resource the scrub is not considered likely to provide any particular value for commuting bats as it represents only a small corner of a wider resource and is not directly connected to any similar habitats to the south (which is characterised by the existing facility) or west. The scrub resource to the east of the proposed development/ survey site is deemed more likely to be of value to commuting bats; review of aerial photography indicates that this is part of a linear corridor (associated with a ditch) that passes adjacent to unmanaged habitats both to the north and south.

- 3.3.8 Cofnod provided records of 7 species of bat for within the 1 km search area: Brown Long-eared Bat (*Plecotus auritus*), Common Pipistrelle (*Pipistrellus pipistrellus*), Lesser Horseshoe Bat (*Rhinolophus hipposideros*), Noctule Bat (*Nyctalus noctule*), Soprano Pipistrelle (*Pipistrellus pygmaeus*), Whiskered Bat (*Myotis mystacinus*) and 'Unknown Bat'. The closest of these records to the survey site is for an 'Unknown Bat' from approximately 400 m away, dated 2005 (no other details are provided). The next closest is for a Common Pipistrelle from approximately 550 m away, dated 1993 (no other details provided).

Great Crested Newts

- 3.3.9 There is no aquatic habitat within the proposed development/ survey site and or immediately adjacent.
- 3.3.10 An initial review of the OS map 1:25, 000 scale and relevant internet-based mapping including aerial photography⁶ indicates that there may be five waterbodies within approximately 250 m of the proposed development/ survey site (excluding ditches), as follows:
- Pond 1. A pond within an agricultural field at SJ 3956 4932. This is located approximately 130/ 115 m to the east of the proposed development/ survey site respectively.
 - Pond 2. A pond within an agricultural field at SJ 3960 4912. This is located approximately 265/ 250 m to the southeast of the proposed development/ survey site respectively (refer to Cofnod records below).
 - Pond 3. A marsh/ possible pond to the immediate north of Pond 2 at approx. SJ 3961 4915. This is located approximately 255/ 240 m to the southeast of the proposed development/ survey site respectively (refer to Cofnod records below).
 - Pond 4. A possible water feature on a light industrial site at SJ 3915 4931. This is shown on the 1:25000 scale map but is not visible on aerial photography; it appears to be a square man-made structure. This is located approximately 165 m to the west of the proposed development/ survey site from which it is separated by industrial land including a large building (refer to Cofnod records below).
 - Pond 5. A man made industrial feature on a light industrial site at SJ 3915 4938. This is located approximately 180 m to the west of the proposed development/ survey site from

⁶ <https://www.google.com/maps/search/wrexham+industrial+estate/@53.037561,-2.9087044,17z>

which it is separated by industrial land including a large building (refer to Cofnod records below).

There is a possible sixth pond (Pond 6) located just outside the 250 m buffer to the north of the proposed development/ survey site at SJ 3958 4957. This appears to be shown on 1:50000 scale mapping only and is not visible on aerial photography. Refer to Cofnod records below.

A ditch system is also visible on OS mapping to the east of the proposed development/ survey site.

- 3.3.11 A detailed pond scoping exercise has not been undertaken to confirm the presence/ absence of these waterbodies.
- 3.3.12 The unmanaged grassland and scrub habitats at *Target Notes 4* and *5* provide high quality potential terrestrial habitat for Great Crested Newts. This terrestrial habitat is linked to further high quality terrestrial habitat outside the proposed development/ survey site, for example the remainder of the field unit at *Target Note 4*, and the field to the immediate north (*Target Note 8*). The amenity grassland resource at *Target Note 3* is of negligible value, however there are features within this area which could be utilised by amphibians, for example the unmanaged scrub corner at *Target Note 2*, a small debris pile at *Target Note 3a*, and the bases of buildings/ associated hard-standing (for example there are patio slabs to the immediate west of the building at *Target Note 1a*).
- 3.3.13 Cofnod provided a large number of records for Great Crested Newt from the 1 km search area. Within the 250 m buffer these records are as follows:
- A 1992 record of 'presence' from Pond 2, and another 1992 record with no details given.
 - 2 no. 1992 records for 'presence' from Pond 3.
 - A 1999 record from SJ 391 493 for '2 male and 2 female'. It is thought likely this is from the feature described as Pond 4.
 - 2 no. 1992 records from SJ 3909 4934 for 'presence'. It is unclear what feature this record is from but may be from the feature described at Pond 5 to the north of the location shown.

Pond 6 (just outside the 250 m buffer) also holds a Cofnod record, this being for 3 no.1992 records for 'presence'.

No records are provided for the closest pond (Pond 1) or any of the ditches within the 250 m buffer.

- 3.3.14 Outside the 250 m buffer, most agricultural ponds to the east and north have positive records. There is also a particular cluster of records to the west of Ponds 4 and 5, and there is a large number of records either side of Bryn Lane in the north of the search area.
- 3.3.15 Cofnod also provided over twenty records of Smooth Newt (*Lissotriton vulgaris*) and eighteen records of either/ or Common Toad (*Bufo bufo*) and Common Frog (*Rana temporaria*) from the 1 km search area.

Reptiles

- 3.3.16 The unmanaged grassland and scrub habitats at *Target Notes 4* and *5* provide habitat of high potential value for reptiles. This is particularly the case given that the area of this

habitat within the proposed development/ survey site is a small corner or a larger field unit which provides a similar habitat resource. In addition to this, the field unit is known to connect to similar habitat to the immediate north (*Target Note 8*) and, from a review of aerial photography, appears to be part of a complex of semi-natural habitats that extend north and south on the fringes of the industrial estate.

- 3.3.17 Cofnod provided 2 records of both Adder (*Vipera berus*) and Slow-worm (*Anguis fragilis*) from the 1 km search area. They are both dated 1999 and are from an adjacent 1 km grid square (SJ 3849) to that in which the proposed development/ survey site is located. Marches Ecology has also undertaken a number of reptile presence/ absence surveys across Wrexham Industrial Estate over the last 14 years (for unrelated projects) and have not recorded any reptiles in this time. However despite this, in recent years it is known that both Grass Snake (*Natrix natrix*) and Common Lizard (*Zootoca vivipara*) have been recorded in low numbers from the industrial estate.

Birds

- 3.3.18 The proposed development/ survey site provides nesting opportunities for species of bird associated with trees/ dense scrub and possibly built structures (for example the features at *Target Notes 1a* and *1c* provide some, albeit minimal, opportunities).
- 3.3.19 A small number of Snipe (*Gallinago gallinago*) were flushed away on several occasions from the grassland at *Target Note 4*; these would be using the grassland for wintering/ feeding purposes only.
- 3.3.20 Cofnod provided a large number of bird records from within 1 km of the proposed development/ survey site (though none from within/ immediately adjacent to it) largely with four-figure grid references. Records of possible relevance to the proposed development/ survey site include Dunnock (*Prunella modularis*), Starling (*Sturnus vulgaris*), Fieldfare (*Turdus pilaris*), Bullfinch (*Pyrrhula pyrrhula*), Snipe, Song Thrush (*Turdus philomelos*), Barn Owl (*Tyto alba*), Swallow (*Hirundo rustica*), Willow Warbler (*Phylloscopus trochilus*), Green Woodpecker (*Picus viridis*), Woodcock (*Scolopax rusticola*), Tree Sparrow (*Passer montanus*) and Whitethroat (*Sylvia communis*). Species such as Bullfinch, Song Thrush, Willow Warbler, Tree Sparrow and Whitethroat could potentially nest within the survey site. The grassland provides suitable hunting habitat for the Barn Owl, although only a small proportion of a larger resource is present.

Other Species

- 3.3.21 Cofnod provided a large number of butterfly and moth records within 1 km of the proposed development/ survey site (though none from within it). Records of possible relevance to the survey site include Dingy Skipper (*Erynnis tages*), Grizzled Skipper (*Pyrgus malvae*), Small Heath (*Coenonympha pamphilus*), Wall (*Lassiomata megera*) and Cinnabar (*Tyria jacobaeae*). The closest records for both Dingy Skipper and Grizzled Skipper are for over 500 m away to the west.
- 3.3.22 The proposed development/ survey site is unlikely to be of potential value for either species of Skipper or Wall or Small Heath. It could possibly support the Cinnabar though this would be restricted by the limited amount of Ragwort present.
- 3.3.23 Cofnod provided several records of other invertebrates none of which are from the proposed development/ survey site or immediately adjacent habitats.

- 3.3.24 A small number of other mammal records were supplied by Cofnod; including for American Mink (*Neovison vison*), Hare (*Lepus europaeus*), Otter (*Lutra lutra*) and Stoat (*Mustela erminea*). With the exception of Otter, the habitats present could support these species but is unlikely to be of any particular value.
- 3.3.25 A small number of Atlantic Salmon (*Salmo salar*), Brown/ Sea Trout (*Salmo trutta*) and Eel (*Anguilla anguilla*) records were also provided from the Afon Clywedog, which passes to the south of the proposed development/ survey site (approximately 500 m at its closest point).

4 EVALUATION, ASSESSMENT AND RECOMMENDATIONS

4.1 Introduction

4.1.1 Brief details regarding the proposal are provided in *Section 1.4*. An assessment of ecological issues based on the information provided is detailed below and considers:

- potential ecological constraints relevant to the proposal;
- further survey requirements; and
- potential mitigation/ compensation measures along with opportunities for ecological enhancement.

These are dealt with in turn for designated sites, habitats and flora, and specific species groups in the section below. Potential impacts have been considered with reference to the information/ plans provided only. This assessment considers the proposed development site and immediately surrounding area.

4.2 Evaluation, Assessment and Recommendations

Designated Sites

4.2.1 No statutory or non-statutory designated sites would be directly impacted by the proposed development. No ASNW would be (in)directly impacted.

4.2.2 Potential indirect impacts that require consideration are likely to be limited to aerial emissions during the operation phase. The proposed development site is located within the 2nd outer Impact Risk Zone (IRZ) for the River Dee and Bala Lake protected site. *'Impact Risk Zones (IRZs) are a GIS tool developed by Natural England to make a rapid initial assessment of the potential risks posed by development proposals to SSSIs, SACs, SPAs and Ramsar sites. They define zones around each site 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'*.

4.2.3 While IRZs were developed for use in England it does provide a useful initial assessment. Applicable categories of development which are identified as posing a risk in this instance are:

'Any industrial/ agricultural development that could cause air pollution including industrial processes with a floorspace greater than 500 m²'

'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.'

4.2.4 The footprint of the proposed development (new additional floor areas) is 1275 m² without the 3 additional kilns which might be installed in the future (refer to *Section 1.4*). It is understood (Kingsway Design, *pers. comm.*) that *'the only emissions from the new biomass boiler is steam and the boiler is rated at 2.1 Mw'*. Taking these factors into account, along with the overall scale of the proposed development and the distance to the River Dee it is

⁷ <https://data.gov.uk/dataset/5ae2af0c-1363-4d40-9d1a-e5a1381449f8/sssi-impact-risk-zones>

considered unlikely that the proposal would give rise to any significant indirect impacts on this protected site.

- 4.2.5 The closest non-statutory site ('Wrexham Industrial Estate') is located 315 m away from the proposed development site. No indirect impacts are anticipated.

Habitat

- 4.2.6 The proposed development/ survey site includes the following habitat resources:

- Unimproved neutral grassland;
- Amenity grassland;
- Dense and scattered scrub;
- A single individual tree;
- Built structures; and
- Hard-standing.

Due to the size, quality and geographical location of the habitat resources listed above they may be considered individually to be of no more than site value⁸. However, the neutral grassland and scrub is part of a larger complex within the same field unit and should be considered as a whole unit. When considered as a whole, this resource it is likely to be of local value.

- 4.2.7 No further survey of this habitat resource is considered necessary at this time (although refer below with regards a survey to inform design of an ecological mitigation area; also see 'Flora').
- 4.2.8 The proposal would result in the permanent loss of all the habitat within the proposed development site. However, taking into account the small areas concerned, loss of these habitat resources would not give rise to a significant impact. The wider field unit at *Target Notes 4 and 5* would not be directly impacted by the proposal; loss of the small area (approximately 0.26 ha) of neutral grassland and scrub within the footprint of the proposed development is not considered likely to affect the overall integrity/ ecological value of the retained habitats. No particular mitigation measures are proposed (other than the avoidance/ best practice measures, and fauna species-specific led requirements, as detailed below).
- 4.2.9 As further detailed below, it is proposed that an ecological mitigation area (EMA) is provided largely to offset perceived impacts on Great Crested Newts and to some extent other valued ecological resources (such as scrub nesting birds). It is suggested that this is situated within the wider field unit associated with *Target Notes 4 and 5* which would allow retention of scrub and unmanaged grassland within the EMA. It is likely to be beneficial for it to be at least in part directly adjacent to the proposed development site (for example to enable ease of access for machinery etc.) This will require further detailed design and should in the first instance be informed by completion of an Extended Phase 1 Habitat Survey of the whole field unit. It is likely that a new pond/ hibernaculum will be created in the EMA (with regards Great Crested Newts) and also that scrub planting will be undertaken (with regards off-setting perceived impacts on scrub nesting birds). It is suggested that the EMA would be outlined within an Ecological Mitigation Method Statement, or similar document. The requirement for and scope of the EMA/ EMMS should be discussed with Emma Broad

⁸ In accordance with CIEEM (2018).

(Wrexham County Borough Council (WCBC) Ecologist) including whether the EMMS (or similar document) can be subject to a planning condition. It is likely that the EMMS will need to include broad details of proposed management of retained/ created habitats.

- 4.2.10 In addition, it is recommended that a new native species-rich hedge is established around the edge of the development (where it abuts the remainder of the grassland/ scrub resource at *Target Notes 4 and 5*). If appropriate, and subject to further design, this could be incorporated into the EMA.
- 4.2.11 Technical Advice Note 5: Nature Conservation and Planning (Welsh Assembly Government 2009) seeks development to achieve net biodiversity gain. Creation and management of the EMA will provide an enhancement in the long-term and be in line with TAN 5.
- 4.2.12 Any scrub or hedge planting should include shrubs that are of ideally locally native provenance but as a minimum certified British native origin.
- 4.2.13 Prior to the start of construction or preparatory operations temporary protective fencing will be installed around the outside of the proposed development site to ensure adjacent/ retained habitats (including the EMA) are not subject to inadvertent disturbance. Additional fencing may be required within the EMA itself to protect retained habitats from e.g. pond creation works.
- 4.2.14 General best practice measures will be implemented during preparatory works and the construction phase to avoid any indirect impacts (e.g., dust, diffuse pollution, etc) on adjacent habitat. The general advice contained in the Guidance for Pollution Prevention (GPP) leaflets produced by SEPA, EA and the Environment and Heritage Service (Northern Ireland) will be adhered to, particularly the following:
- PPG1: Understanding Your Environmental Responsibilities - Good Environmental Practices.
 - PPG6: Working at Construction and Demolition Sites.

This should be included in any EMMS that is prepared.

- 4.2.15 Assuming the appropriate installation and maintenance of the temporary protective fencing along with the adoption of best practice measures, no significant impact is anticipated on valued habitat resources located within or close to the development site.

Flora

- 4.2.16 No species of plant listed in categories (above Least Concern) in the most recent Vascular Plant Red Data List for Wales (Dines 2008) or in Williams (2014) were recorded from the proposed development/ survey site. No plants listed in *Schedule 9 to the Wildlife and Countryside Act 1981* (as amended) were recorded. If possible, the vegetation where Common Stork's-Bill is growing at *Target Note 3* should be scrapped off and re-lain on a suitable area of ground at the edge of the proposed development or elsewhere within the James Jones & Sons Ltd facility.
- 4.2.17 From author knowledge of Wrexham Industrial Estate, it is deemed possible that the grassland resource at *Target Note 4* could support plant species of local value which will not be evident in February. As such, and if the development timescales allow, it would be beneficial for a botanical update survey to be completed; this should ideally be undertaken in June/ July, although could be completed earlier if necessary. Whilst this is unlikely to change any of the assessment/ mitigation provision outlined in this report, should any plants

of local value be recorded it would provide the opportunity to tweak any pond creation/ scrub planting proposals within the EMA, as well as enable translocation of any notable plants from the footprint of the development to the EMA. This survey should focus on the whole of the wider field unit in which the proposed development is located.

- 4.2.18 A very small number of Ash saplings were recorded within the proposed development/ survey site. Although no symptoms of 'Ash dieback' (caused by the fungus *Hymenoscyphus fraxineus*) were recorded, as a precautionary approach basic biosecurity measures will be required particularly when undertaking initial vegetation clearance. Best practice guidance is available on the Natural Resources Wales website⁹. Biosecurity measures will form a requirement of the Great Crested Newt licence application (see below).

Fauna

Badgers

- 4.2.19 No setts were recorded within the proposed development/ survey site. However evidence may have been obscured by dense vegetation, especially at *Target Note 5*. Opportunities for sett excavation within the proposed development/ survey site are provided by the dense stands of Bramble scrub at *Target Note 5*. No evidence of Badger activity was recorded during the survey. The unmanaged grassland at *Target Note 4* provides habitat of moderate potential value for Badger foraging.
- 4.2.20 The proposed development would result in the loss of a small amount of unmanaged grassland that could be used for foraging. The proposed development site only comprises a small corner of a larger field unit which supports similar habitats and which would continue to be available to Badgers (should they be present) for foraging and sett construction. The loss of the habitats within the proposed development site is not considered likely to impact (potential) Badger movements as it will not result in any measurable fragmentation (there being existing industrial facilities to the immediate south and west). No particular impacts on Badgers are anticipated at the current time.
- 4.2.21 As a precautionary approach however, best practice will be implemented during the preparatory and construction phases to avoid any potential impacts on Badgers. Further details should be provided in the EMMS.
- 4.2.22 Although no evidence of Badgers and no setts were recorded, there remains the potential for a sett(s) to be obscured by the dense scrub vegetation at *Target Note 5*, which is up to approx. 10 m deep. A pre-construction survey is not deemed likely to provide any additional information in the short term, although if site clearance/ construction work is not implemented within 12 months of the Extended Phase 1 Habitat Survey then the site will be re-surveyed by a suitably qualified ecologist to check for any setts. However regardless of this, it is proposed that scrub clearance works are either supervised by an ecologist and/ or subject to a watching brief by site personnel. This will encompass scrub being cleared with hand-tools only in a methodical manner from one edge of the scrub at a time. It should be cleared in narrow strips only with hand-/ visual searches being completed for setts as it progresses. Should a sett/ possible sett be located by the ecologist and or site personnel during this process, all clearance works will cease immediately and an ecologist informed (should one not be present on site). Further decisions will be made at that time with regards

⁹ <https://naturalresources.wales/guidance-and-advice/business-sectors/forestry/tree-health-and-biosecurity/?lang=en>

potential licencing requirements. This approach should be discussed and confirmed or otherwise with Emma Broad in the first instance.

Bats

- 4.2.23 There are no trees that could provide potential roosting features located within the proposed development/ survey site or immediately adjacent habitats. Likewise none of the built structures present provide any more than negligible bat roost potential. As such the proposal would not have any impact on (roosting) bats.
- 4.2.24 Although the unmanaged grassland and scrub at *Target Notes 4* and *5* within the proposed development site which is to be lost due to the proposal is likely to be of moderate to high potential value for foraging bats, it represents only a small part of a much larger area of similar habitat (associated with the remainder of the field unit and also extending into similar habitat further north, *e.g. Target Note 8*). As such and as a stand-alone resource the scrub is not considered likely to provide any particular value for commuting bats. The scrub resource to the east of the proposed development/ survey site is deemed more likely to be of value to commuting bats.
- 4.2.25 The wider field unit will be retained, part of which will be incorporated into an EMA as outlined above. The EMA will seek to retain areas of unmanaged grassland and scrub, with any proposed scrub planting seeking to enhance existing sheltered lines/ corridors/ bolster connectivity. It is also proposed that it would be enhanced by the creation of a new pond which is likely to be of value for foraging bats. Overall, based on the small-scale of the proposal, and the proposed EMA, no significant impact is anticipated on foraging/ commuting bats. No further survey is proposed.
- 4.2.26 No information is currently available on external lighting with regards the proposal. The potential impact of lighting (both during construction and operation) on bats that may use the proposed development/ survey site and adjacent habitat should be considered. Any external lighting at the proposed development site should follow guidance provided by The Bat Conservation Trust and Institution of Lighting Professionals (2018). Further details should be provided in the EMMS but should take account of the following:
- Lighting that reduces vertical and horizontal light spillage should be used.
 - Adjacent retained and or created habitats should be kept as dark as possible with ideally lighting adjacent to these areas avoided.
 - 'Warm white' LED lamps should be used.
 - All luminaires should lack UV elements when manufactured and have an upward light ratio of 0%.
 - All luminaires used will be fully directional (*e.g.*, LED) and will point straight down to where the light is required. They will be mounted on the horizontal, *i.e.*, no upward tilt.
 - Lighting that reduces vertical and horizontal light spillage will be used.
 - The number of poles/ bollards/ lamps installed will be kept to a minimum and will be as low (in height) as possible.
 - Low wattage lamps (<70W) will be used.

- All external lighting will only be turned on when the area is in use wherever possible (and should be fitted with motion detectors, automatic timers and/ or dimmers).
- Cowls/ hoods/ baffles or similar will be used where the light spillage is likely to cause an unacceptable light level increase in adjacent retained and or created habitat.

4.2.27 Assuming that a sympathetic lighting arrangement is installed, no significant impact on potential foraging/ commuting resources close to the proposed development site is anticipated.

4.2.28 The proposed development presents an opportunity to increase potential roost features within the site. Consideration will be given to installing a small number of pole-mounted bat-boxes within the EMA. This would provide an enhancement in line with TAN 5. The number and specification of these boxes will be discussed and agreed with Emma Broad and included for within the EMMS. However, if a Barn Owl box is deemed more appropriate at this site (refer below), this will be installed instead of bat-boxes.

Great Crested Newts

4.2.29 The unmanaged grassland and scrub habitats that will be impacted by the proposed development provide high quality potential terrestrial habitat for Great Crested Newts. This terrestrial habitat is linked to further high quality terrestrial habitat outside the proposed development site. Other features which could also be utilised by amphibians are located within the proposed development site, for example the unmanaged scrub corner at *Target Note 2*, a small debris pile at *Target Note 3a*, and the bases of buildings/ associated hard-standing (particularly patio slabs).

4.2.30 The potential presence of Great Crested Newts in terrestrial habitat is governed more by the proximity of a suitable breeding waterbody than by the quality of the terrestrial habitat. There are 5 possible waterbodies within 250 m of the proposed development/ survey site, from which Great Crested Newts have been recorded from three (possibly four), largely these records are for 'presence' only and are approximately 20 years old (1992). The closest pond to the proposed development/ survey site which has a Great Crested Newt record is Pond 3 which is located approximately 255/ 240 m to the southeast of the proposed development/ survey site respectively. There is no record for the closest pond (Pond 1) which is located approximately 130/ 115 m to the east of the proposed development/ survey site respectively, or a nearby ditch system. The majority of agricultural ponds to the east of the industrial estate at this location do have positive records though and it would seem likely that Pond 1 and the adjacent ditch would support (breeding) Great Crested Newts if they provide suitable habitat.

4.2.31 Taking the above into account, and that the ponds to the east of the site are located in agricultural land which provides largely low quality terrestrial habitat, it is considered likely that populations which breed at these ponds would utilise the terrestrial habitats associated with the proposed development site and similar adjacent areas.

4.2.32 In the absence of mitigation measures the proposed development is unlikely to result in a significant impact on the local Great Crested Newt population. This is due to the small area of (albeit high quality) terrestrial habitat that will be impacted, distance from ponds, and there being likely no impacts on dispersal opportunities or fragmentation of habitats/ creation of barriers. However, as there is a risk of disturbing/ killing individual Great Crested Newts during any proposed development, a 'development' licence would be required from Natural

Resources Wales (NRW) in order for any scheme to legally proceed. The associated licence application will need to consider in detail maintenance of the Favourable Conservation Status (FCS) of the species in this area both during and after construction. Further details on the proposed mitigation/ compensation should be provided in the EMMS.

- 4.2.33 In the first instance however, further survey is considered necessary as there is considered to be insufficient data available at the current time with which to assess potential impacts. Taking into account barriers to dispersal associated with Ponds 4 and 5, this further survey should focus on Ponds 1, 2, 3 and 6, along with the ditch system near Pond 1. Although it is recognised that Ponds 2, 3 and 6 are just outside 250 m from the proposed development site, the perceived lack of terrestrial habitat near these ponds warrants survey as any newts that breed here are considered likely to use terrestrial habitat afforded by the proposed development site.
- 4.2.34 The survey should be initiated by completion of a pond-scoping exercise (to include a Habitat Suitability Index (HSI) assessment) to assess the ponds/ ditches for their potential value to breeding Great Crested Newts, and to locate any other ponds/ suitable breeding features should any be present. Subsequent detailed survey should involve traditional techniques (*i.e.* egg search/ bottle trap/ torching/ netting) and follow published guidance. It should be completed by personnel who hold NRW 'survey and disturbance' licences. The requirement for/ scope of the survey should in the first instance be discussed and agreed with Emma Broad and or NRW as deemed appropriate. This should include discussion as to whether this information is required to support the planning application; this may depend on whether the EMMS can be subject to a planning condition and/ or if the survey data would be required to support a licence application only. It may also be appropriate to complete fewer survey visits than is usually required for a population estimate (6).
- 4.2.35 It will be necessary for the EMMS to outline appropriate mitigation measures to ensure that the proposal would have a positive impact in the medium-term. This is likely to require, for example, completion of a licenced translocation programme, and provision of a new pond, hibernaculum and scrub planting, as well as securing appropriate long-term site security and management of the EMA.

Reptiles

- 4.2.36 The unmanaged grassland and scrub habitats at *Target Notes 4* and *5* provide habitat of high potential value for reptiles. It is part of a larger field unit which supports similar habitat, which in turn appears to be part of a complex of semi-natural habitats that extend north and south on the fringes of the industrial estate. Taking this into account, the apparent lack of records in this area should not be taken as evidence that reptiles are not present. Indeed it is known that in recent years both Grass Snake and Common Lizard have been recorded in low numbers from the industrial estate.
- 4.2.37 As such in the first instance completion of a reptile 'presence/ absence' survey is deemed necessary to determine if any reptiles are present at the site. This should focus on the unmanaged grassland/ scrub at *Target Notes 4* and *5* and should encompass the whole field unit in which the proposed development site is located. The requirement for/ scope of the survey should in the first instance be discussed and agreed with Emma Broad.
- 4.2.38 Should any reptiles be found it will be necessary to design and implement appropriate reptile mitigation/ avoidance measures. Such details would need to be included within the EMMS.

It is likely that these will be able to be accommodated within the measures to be designed for Great Crested Newts.

Birds

- 4.2.39 The proposal would result in the loss of a small area (approximately 0.15 ha) of dense Bramble dominated scrub, along with scattered shrubs and a single tree that could be used by nesting birds, and two built structures which provide minimal opportunities. The proposed EMA should include retention of existing scrub habitats and should also seek to incorporate new (native/ diverse) scrub planting. This would partly offset the loss of these habitat features in the medium-term (it is however recognised that given the likely size of the EMA, and requirement to consider other ecological resources that it is unlikely to be possible for this to represent like-for-like mitigation for the loss of nesting opportunities). Whilst it is unlikely that the scrub resource that is to be lost could be fully mitigated for and there is likely to be some loss of scrub habitat, assuming careful design of the EMA and subsequent targeted long-term management (which should be further detailed in the EMMS) it is considered unlikely that the proposal would give rise to a significant impact on local bird populations.
- 4.2.40 Snipe are considered likely to be able to use the remainder of the grassland resource that is not impacted in the long-term.
- 4.2.41 No further survey for birds is deemed necessary (other than a pre-work check should work be undertaken during the nesting season as detailed below).
- 4.2.42 The destruction of any bird nests that are in use is illegal. The simplest option to avoid issues arising from the presence of nesting birds is to schedule work that affects nesting habitat (e.g. clearance of scrub, trees, demolition of buildings) outside the nesting period (March to August inclusive). If habitat/ features that could be used by nesting birds is affected during this period it will be the subject of a pre-work check by a suitably qualified ecologist.
- 4.2.43 Consideration will be given to installing a pole-mounted Barn Owl within the EMA. This will be subject to discussion and agreement with Emma Broad, and will be instead of (not as well as) pole mounted bat-boxes. There are local records nearby, and the remaining grassland will continue to provide a potential hunting resource. This would provide an enhancement in line with TAN 5.

Other Species

- 4.2.44 No significant impact on any other species of conservation interest is currently anticipated, and no particular mitigation measures are proposed.

5 SUMMARY CONCLUSIONS

5.5.1 This report concludes the following with regards existing (on- and off-site) ecological resources:

- No designated sites would be directly or indirectly impacted by the proposed development.
- No ASNW would be directly or indirectly impacted by the proposed development.
- A small area (approx. 0.26 ha) of neutral grassland/ scrub which is part of a larger resource deemed to be of local value would be lost due to the proposed development.
- Other habitat resources which will be lost are limited to features of site value only such as scattered shrubs, a single mature Goat Willow 'tree', amenity grassland and built structures.
- A single locally scarce plant – Common Stork's-bill – was recorded within the proposed development site. It is however understood that this is in the process of being re-registered with no local scarcity status.
- No non-native plants listed in *Schedule 9* were recorded from the development site.
- Opportunities for sett excavation within the proposed development site are provided by dense Bramble scrub which is impenetrable and up to approx. 10 m deep. The proposed development site provides a small area of potential foraging habitat. No particular impacts on Badgers are anticipated at the current time.
- The proposal would not have any impact on (roosting) bats.
- Although the unmanaged grassland and scrub resource within the proposed development site is likely to be of moderate to high potential value for foraging bats, it represents only a small part of a much larger area of similar habitat. The scrub is not considered likely to provide any particular value for commuting bats at this location. No significant impacts on foraging/ commuting bats are anticipated.
- The unmanaged grassland and scrub habitats that will be impacted by the proposed development provide high quality potential terrestrial habitat for Great Crested Newts. There are 5 possible waterbodies within 250 m of the proposed development/ survey site, from which Great Crested Newts have been recorded from three (possibly four). It is considered likely that populations which breed at these ponds would utilise the terrestrial habitats associated with the proposed development site.
- In the absence of mitigation measures the proposed development is unlikely to result in a significant impact on the local Great Crested Newt population. However, there is a considered to be risk of disturbing/ killing individual Great Crested Newts during any proposed development.
- The proposed development site provides habitat of high potential value for reptiles. It is not possible to conclude an assessment of potential impacts at the current time without presence/ absence information.
- Opportunities for nesting birds are provided by a small area of dense Bramble scrub, along with scattered shrubs and a single tree, and two built structures which provide minimal opportunities. The proposal is not deemed likely to give rise to a significant impact on local bird populations.

5.5.2 This report recommends the following avoidance/ mitigation measures:

- Provision of an ecological mitigation area (EMA) to be outlined with an Ecological Mitigation Method Statement (EMMS). This is to be provided largely to offset perceived

impacts on Great Crested Newts and to some extent other valued ecological resources (such as scrub nesting birds). To include a new pond/ hibernaculum and scrub planting.

- Further detailed design of the EMA should in the first instance be informed by completion of an Extended Phase 1 Habitat Survey of the whole field unit (at *Target Notes 4 and 5*).
- The requirement for and scope of the EMA/ EMMS should be discussed with Emma Broad (WCBC Ecologist).
- Provision of a new native species-rich hedge around the edge of the development.
- Any scrub or hedge planting should include shrubs that are of ideally locally native provenance but as a minimum certified British native origin.
- Protective fencing will be installed to protect the adjacent habitats during preparatory/ construction works.
- General best practice measures will be implemented during preparatory/ construction works to avoid any indirect impacts on adjacent habitat.
- If possible, the vegetation where Common Stork's-Bill is growing should be scrapped off and re-lain elsewhere.
- If the development timescales allow, a botanical update survey should be completed at an appropriate time of year.
- Appropriate biosecurity measures will be established and implemented during preparatory and construction works.
- A pre-construction Badger survey should be undertaken if the development is not commenced within 12 months of this survey. Regardless of this, it is proposed that scrub clearance works are either supervised by an ecologist and/ or subject to a watching brief by site personnel. This approach should be discussed and confirmed or otherwise with Emma Broad in the first instance.
- As a precautionary approach best practice will be implemented during the preparatory and construction phases to avoid any potential impacts on Badgers.
- The design of the EMA should seek to enhance existing sheltered lines/ corridors/ bolster connectivity for foraging/ commuting bats.
- Any external lighting provided as part of the proposed development should accord with best practice guidance to minimise impacts on foraging/ commuting bats and keep adjacent retained/ created habitats as dark as possible.
- A Great Crested Newt 'development' licence would be required from Natural Resources Wales (NRW) in order for any scheme to legally proceed at this site. The associated licence application will need to consider in detail maintenance of the Favourable Conservation Status (FCS) of the species. Further details on the proposed mitigation/ compensation should be provided in the EMMS.
- Further Great Crested Newt survey is considered necessary as there is considered to be insufficient data available at the current time with which to assess potential impacts. The survey should be initiated by completion of a pond-scoping exercise (to include HSI assessment). Subsequent detailed survey should involve traditional techniques (*i.e.* egg search/ bottle trap/ torching/ netting) and follow published guidance. The requirement for/ scope of the survey should in the first instance be discussed and agreed with Emma Broad and or NRW as deemed appropriate.

- Completion of a reptile 'presence/ absence' survey is required to determine if any reptiles are present at the site. The requirement for/ scope of the survey should in the first instance be discussed and agreed with Emma Broad.
- Site clearance works/ removal of vegetation/ demolition of built structures should be undertaken outside the bird nesting season. Should this not be possible then suitable habitat/ features would need to be checked by a qualified ecologist prior to the commencement of work.

5.1.3 This report recommends the following enhancement measure:

- Consideration will be given to installing a small number of pole-mounted bat-boxes or a pole-mounted Barn Owl box within the EMA. The number and specification of these boxes will be discussed and agreed with Emma Broad and included for within the EMMS.

6 TARGET NOTES

Target Notes 1a-d. 4 no built structures, as follows:

Target Note 1a. The largest of the 4 structures, this comprises a single storey shed-type building which is constructed of corrugated metal walls and roof. It has a small number of windows and a large access door on the south-west facing wall. It appears to be in good condition. No internal access was sought. There appear to be minor gaps where some of the corrugated roof plates meet the walls.

Target Note 1b & 1d. 2 no. metal units.

Target Note 1c. A small wooden shed with single-skin walls. There are gaps between the roof and the front wall, allowing potential access for birds.

None of these structures are considered to provide any more than negligible bat roost potential. The structures at *Target Notes 1a* and *1c* could however provide minor bird nesting opportunities.

Target Note 1e. [Outside the survey site]. A brick built small electricity substation building. It could not be viewed in detail but did not appear likely to provide more than negligible bat roost potential.

Target Note 2. A mature *Salix caprea* (Goat Willow) and associated scattered/ low growing scrub (mostly *Rubus fruticosus* agg (Bramble)) in an apparently unmanaged corner of the survey site. The Willow does not provide any more than negligible bat roost potential.

Target Note 3. Amenity grassland. An area of apparently frequently managed (mown) grassland. The sward height is to approximately 0.05m, but frequently less. It is dominated by a range of grasses including *Lolium perenne* (Perennial Rye-grass), *Holcus lanatus* (Yorkshire-fog) and *Festuca rubra* (Red Fescue). *Bellis perennis* (Daisy) and *Ranunculus repens* (Creeping Buttercup) are frequent/ locally abundant throughout the sward. Other forbs are limited and are scattered at low levels of abundance; they include *Cerastium fontanum* (Common Mouse-ear), *Prunella vulgaris* (Self-heal), *Plantago lanceolata* (Ribwort Plantain), *Hypochaeris radicata* (Cat's-ear) and *Leucanthemum vulgare* (Oxeye Daisy).

Target Note 3a. A small debris pile (comprising bricks/ rubble/ timbers etc.) adjacent to the building at *Target Note 1a*.

Target Note 4. Unmanaged neutral grassland which extends outside of the survey site to occupy the majority of a field unit (which is fringed by dense scrub, for example *Target Note 5*). The grassland is wet underfoot and there are occasional old machine tracks which hold shallow standing water. The sward is dense and tussocky and appears unmanaged; it is frequently to approximately 1 m in height. It appears to be co-dominated by *Deschampsia cespitosa* (Tufted Hair-grass) and *Juncus inflexus* (Hard Rush) with frequent *Dactylis glomerata* (Cock's-foot), Yorkshire-fog and *Agrostis stolonifera* (Creeping Bent), with less amounts of *Carex cf. nigra* (Common Sedge) and *Arrhenatherum elatius* (False Oat-grass). Tall-herbs and low-growing forbs are scattered throughout at various levels of abundance, such as frequent/ locally abundant *Centaurea nigra* (Common Knapweed), with locally frequent *Potentilla reptans* (Creeping Cinquefoil), occasional *Cirsium arvense* (Creeping Thistle), *Epilobium hirsutum* (Great Willowherb), *Pulicaria dysenterica* (Common Fleabane) and *Lathyrus pratensis* (Meadow Vetchling) and lesser amounts of Oxeye Daisy, Ribwort Plantain, Self-heal, and *Urtica dioica* (Common Nettle). [The wider field unit outside the survey site appears to support a similar resource, although some areas appear to be drier with less Tufted Hair-grass and Common Knapweed.] Young shrub saplings are occasionally present, largely *Crataegus monogyna* (Hawthorn) with occasional *Quercus robur* (Pedunculate Oak) and *Fraxinus excelsior* (Ash). A small number of Snipe (*Gallinago gallinago*) were flushed away on several occasions.

Target Note 5. Dense scrub is located adjacent to boundary fences and is impenetrable, being largely characterised by Bramble to 2 m high and frequently more than 10 m wide.

Target Note 6. [Outside the survey site]. 2 no. mature trees located immediately adjacent to a fenced boundary. It was not possible to access near to these features due to dense scrub within the survey site. However one appears to be a *Betula pendula* (Silver Birch), and the other a Willow. They do not appear likely to provide more than negligible bat roost potential.

Target Note 7. [Outside the survey site]. 2 no. animal breaches under a wire mesh fence. Neither appear particularly well used. Although at least one is of a shape/ size which could be used by Badger, no evidence was observed. Short paths extend into the field in which the survey site is located, however these soon peter out. Possible paths also extend on the opposite side of the fence [not accessible]. Occasional short lengths of infrequently used animal paths were observed within the survey site; Fox (*Vulpes vulpes*) is known to use the site (Site Manager *pers. comm.*) and Rabbit (*Oryctolagus cuniculus*) evidence was also located.

Target Note 8. [Outside the survey site]. This field unit appears to support similar vegetation to that described at *Target Notes 4* and *5*.

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8 DATA

Table 1 – Vascular plant species recorded within the survey site

Plant Species	<i>Festuca rubra</i> (Red Fescue)
<i>Betula pendula</i> (Silver Birch)	<i>Galium aparine</i> (Cleavers)
<i>Crataegus monogyna</i> (Hawthorn)	<i>Holcus lanatus</i> (Yorkshire-fog)
<i>Fraxinus excelsior</i> (Ash)	<i>Hypericum perforatum</i> (Perforate St. John's-wort)
<i>Quercus robur</i> (Pedunculate Oak)	<i>Hypochaeris radicata</i> (Cat's-ear)
<i>Rosa canina</i> agg. (Dog-rose)	<i>Juncus inflexus</i> (Hard Rush)
<i>Salix caprea</i> (Goat Willow)	<i>Lathyrus pratensis</i> (Meadow Vetchling)
	<i>Leucanthemum vulgare</i> (Oxeye Daisy)
<i>Agrostis stolonifera</i> (Creeping Bent)	<i>Lolium perenne</i> (Perennial Rye-grass)
<i>Anagallis arvensis</i> (Scarlet Pimpernel)	<i>Poa annua</i> (Annual Meadow-grass)
<i>Arrhenatherum elatius</i> (False Oat-grass)	<i>Plantago lanceolata</i> (Ribwort Plantain)
<i>Bellis perennis</i> (Daisy)	<i>Potentilla reptans</i> (Creeping Cinquefoil)
<i>Cardamine</i> cf. <i>hirsuta</i> (Hairy Bittercress)	<i>Prunella vulgaris</i> (Selfheal)
<i>Carex</i> cf. <i>nigra</i> (Common Sedge)	<i>Pulicaria dysenterica</i> (Common Fleabane)
<i>Centaurea nigra</i> (Common Knapweed)	<i>Ranunculus repens</i> (Creeping Buttercup)
<i>Cerastium fontanum</i> (Common Mouse-ear)	<i>Rubus fruticosus</i> agg. (Bramble)
<i>Cirsium arvense</i> (Creeping Thistle)	<i>Rumex</i> sp. (a Dock)
<i>Cirsium vulgare</i> (Spear Thistle)	<i>Scrophularia nodosa</i> (Common Figwort)
<i>Dactylis glomerata</i> (Cock's-foot)	<i>Senecio jacobaea</i> (Common Ragwort)
<i>Deschampsia cespitosa</i> (Tufted Hair-grass)	<i>Taraxacum</i> sect. <i>Ruderalia</i> (Common Dandelion)
<i>Epilobium hirsutum</i> (Great Willowherb)	<i>Trifolium repens</i> (White Clover)
<i>Epilobium</i> sp. (a Willowherb)	<i>Urtica dioica</i> (Common Nettle)
<i>Erodium cicutarium</i> (Common Stork's-bill)	<i>Veronica persica</i> (Common Field-Speedwell)

9 APPENDIX 1 - SPECIES-SPECIFIC LEGISLATION

9.1 Introduction

9.1.1 The species-specific legislation below is presented here due either to the actual or suspected/ possible presence of each species on the site or within the zone of influence and is therefore considered to be relevant for this study.

9.1.2 This sub-section provides a brief summary of key relevant species legislation. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation, but summarises the salient points.

9.2 Badger

9.2.1 The Badger is protected in Britain under the *Protection of Badgers Act 1992* and *Schedule 6* of the *Wildlife and Countryside Act 1981* (as amended). The legislation affords protection to Badger and Badger setts, and makes it a criminal offence to:

- wilfully kill, injure, take, possess or cruelly ill-treat a Badger, or attempt to do so;
- interfere with a sett by damaging or destroying it;
- to obstruct access to, or any entrance of, a Badger sett; or
- to disturb a Badger when it is occupying a sett.

9.3 Bats

9.3.1 All species of British bat are listed on *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), and receive full protection under *Section 9*. They are also listed as European Protected Species on *Schedule 2* of *The Conservation of Habitats and Species Regulations 2017* which gives them full protection under *Regulation 42(1)*. Protection was extended by the *Countryside and Rights of Way Act 2000* (the *CRoW Act 2000*).

9.3.2 Under the above legislation it is an offence to intentionally or recklessly:

- kill, injure or take an individual of such a species;
- possess any part of such species either alive or dead;
- damage, destroy or obstruct access to any place or structure used by such species for shelter, rest, protection or breeding;
- disturb such a species whilst using any place of shelter or protection; or
- sell or attempt to sell any such species.

9.3.3 Several species of bat are included on *Section 7* of the *Environment Act 2016*.

9.3.4 All species of British bat are also protected under *Schedule 6* of the *Wildlife and Countryside Act 1981* (as amended). This protection relates specifically to trapping and direct pursuit of the species.

9.4 Great Crested Newt

9.4.1 Great Crested Newts are listed on *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), and receive full protection under *Section 9*. The 1981 Act was amended by the *CRoW Act 2000* which further extends the protection. They are also listed as European

Protected Species on *Schedule 2 of The Conservation of Habitats and Species Regulations 2017* which gives it full protection under *Regulation 42(1)*. The legislation applies to all life stages of the Great Crested Newt, including eggs, larvae, juveniles and adults.

9.4.2 Under the above legislation it is an offence to intentionally or recklessly:

- kill, injure or take an individual of such a species;
- possess any part of such species either alive or dead;
- damage, destroy or obstruct access to any place or structure used by such species for shelter, rest, protection or breeding;
- disturb such a species whilst using any place of shelter or protection; or
- sell or attempt to sell any such species.

9.4.3 The Great Crested Newt is included on *Section 7* of the *Environment Act 2016*.

9.5 Reptiles

9.5.1 Viviparous Lizard, Grass Snake, Slow-worm and Adder are all listed under *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), in respect of *Section 9(5)* and part of *Section 9(1)*. This protection was extended by the *CRoW Act 2000*.

9.5.2 Under the above legislation it is an offence to:

- intentionally or recklessly kill or injure any individual of such a species; or
- sell or attempt to sell any part of the species alive or dead.

9.5.3 All four of the above listed reptiles are included on *Section 7* of the *Environment Act 2016*.

9.6 Birds

9.6.1 All species of bird are protected under *Section 1* of the *Wildlife and Countryside Act 1981* (as amended). The protection was extended by the *CRoW Act 2000*.

9.6.2 The legislation makes it an offence to intentionally or recklessly:

- kill, injure or take any wild bird;
- take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
- take or destroy an egg of any wild bird.

9.6.3 Certain species of bird are listed on *Schedule 1* of the *Wildlife and Countryside Act 1981* (as amended) and receive protection under *Sections 1(4)* and *1(5)* of the Act. The legislation confers special penalties where the above mentioned offences are committed for any such bird and also make it an offence to intentionally or recklessly:

- disturb any such bird, whilst building its nest or it is in or near a nest containing dependant young; or
- disturb the dependant young of such a bird.

9.6.4 *Section 7* of the *Environment Act 2016* includes several birds.

10 APPENDIX 2 – DATA SUPPLIED BY COFNOD (PUBLIC VERSION)

Cofnod Environmental Information Search (PUBLIC VERSION)

Our Reference	E08675
Your Reference	C442
Requested By	Marches Ecology
Data Users	Max Ellson, Partner, Marches Ecology LLP Tom Knight, Partner, Marches Ecology LLP Maurice Standish, Kingsway Design Peter McKenzie, James Jones & Sons Ltd Tony Silva, James Jones & Sons Ltd
Search Date	22/01/2021
Expiry Date	22/07/2021
Search Type	Chargeable

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- Please [contact us](#) if you have any questions about using the data or wish to add further Data Users.

Notes

- Cofnod uses a search system which optionally reports species (usually high priority or protected species) within a specified search radius or buffer. Where required a search will also include high priority 'Mobile Species', such as bats, otters, amphibians and certain invertebrates, which lie outside the specified search radius. These species are highlighted on the report with **(Mobile)** next to the distance. They have been selected as 'Mobile Species' as their territory (possibly due to foraging activity or life cycle) could intersect with the search radius.
- Records with 4 figure grid references are displayed as 1km squares on any relevant maps. They are highlighted with **(1km)** next to the distance.
- Records shown in **bold** typeface are sensitive species records, and some details have been restricted in this public version of the report.

Data Description

Distance	Indicates the distance, in metres, between the GRID REFERENCE of the record (using the central point of the grid square) and the search location. For any Sensitive Species Records, this cannot be released into the Public Domain.
Species Name	Name of the taxon (usually identified to species level) using the binomial system.
Grid Reference	Full grid reference based on the Ordnance Survey grid system. For any Sensitive Species Records, this cannot be released into the Public Domain.
Date	Date on which the record was made. In some cases this might be a date range, or a vague date such as 'Summer 2010'.
Recorder(s)	One or more people who made the original observation and recorded it in some way. It may have subsequently been included in a data collation by another person or it may have been submitted to Cofnod directly.
Abundance	Number of individuals recorded. Where not specified it is assumed that at least one was present.
Record Type	The recording methods used (only where specified).
Site Name	The site name (if one has been supplied). For any Sensitive Species Records, this cannot be released into the Public Domain.
Comments	Any additional notes about the sighting, including any information on habitat or substrate if this is available. For any Sensitive Species Records, this cannot be released into the Public Domain.
Dataset ID	ID of this dataset. See 'Important Issues' for more details.
Lists	Any local, national or international conservation statuses or legal protection which apply to this species and whether it is included in any Local Biodiversity Action Plans. See 'Abbreviations' for more details.
V	Summarised record Verification Level. The following codes are used: 1 - Unassessed, 2 - Unconfirmed, 3 - Considered Correct by Cofnod, 4 - Considered Correct by Expert. See our Data Quality policy, available from the Cofnod website for more details.

Abbreviations

ANG - Anglesey County Council Local Biodiversity Action Plan, **AONB** - Area of Outstanding Natural Beauty, **AW** - Ancient Woodland, **BAP** - UK Biodiversity Action Plan, **BDir1** - EU Birds Directive Annexe 1, **BDir2.1** - EU Birds Directive Annexe 2.1, **BDir2.2** - EU Birds Directive Annexe 2.2, **Bern** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, **Bonn** - Bonn Convention on the Conservation of Migratory Species of Wild Animals, **CITES** - Convention on International Trade in Endangered Species of Wild Fauna and Flora, **CON** - Conwy County Borough Council Local Biodiversity Action Plan, **DEN** - Denbighshire County Council Local Biodiversity Action Plan, **EPS** - European Protected Species, **FLI** - Flintshire County Council Local Biodiversity Action Plan, **GWY** - Gwynedd County Council Local Biodiversity Action Plan, **HDir** - EU Habitats Directive, **INNS** - Invasive Non-native Species, **LBAP** - Local Biodiversity Action Plan species for the listed area, **LI** - Locally Important within the listed area, **LNR** - Local Nature Reserve, **MNR** - Marine Nature Reserve, **NNR** - National Nature Reserve, **NRW** - Natural Resources Wales Priority Species, **PBA** - Protection of Badgers Act 1992, **RD1(UK)** - Red Data Book listing for the UK based on IUCN guidelines, **RD1(Wales)** - Red Data Book listing for Wales based on IUCN guidelines, **RD2(UK)** - Red Data Book listing for the UK not based on IUCN guidelines, **RIGS** - Regionally Important Geodiversity Site, **S7** - Environment (Wales) Act 2016 (Section 7), **SAC** - Special Area of Conservation, **SNP** - Snowdonia National Park Local Biodiversity Action Plan, **SPA** - Special Protection Area, **SSSI** - Site of Special Scientific Interest, **UKBA** - RSPB UK Birds Amber List (not based on IUCN criteria), **UKBR** - RSPB UK Birds Red List (not based on IUCN criteria), **WBA** - RSPB Welsh Birds Amber List (not based on IUCN criteria), **WBR** - RSPB Welsh Birds Red List (not based on IUCN criteria), **WCA1.1** - Wildlife & Countryside Act 1981 Schedule 1.1 (Birds which are protected at all times), **WCA1.2** - Wildlife & Countryside Act 1981 Schedule 1.2 (Birds which are protected at certain times), **WCA5** - Wildlife & Countryside Act 1981 Schedule 5 (Animals which are protected from killing and taking, possession, disturbance and sale), **WCA8** - Wildlife & Countryside Act 1981 Schedule 8 (Plants which are protected), **WCA9** - Wildlife & Countryside Act 1981 Schedule 9 (Non-native animals and plants which are established in the wild), **WRE** - Wrexham County Council Local Biodiversity Action Plan, **WS** - Wildlife Site, **WVP** - IUCN Threat Listing of Welsh Vascular Plants

Contact Us

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Search Location	Grid Reference
James Jones & Sons Ltd	SJ39384931

Bees, Wasps, Ants and Sawflies										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Andrena (Poecilandrena) labiata</i> (Red-girdled Mining Bee)	SJ386492	2 records, between 1991 and 14/05/1993	Recorder Name Withheld	1 Adult		Wrexham Ind. estate	Method: Netted	D1650/001/02 , D0217/001/04	RD2(UK)NA	4
<i>Andrena (Poecilandrena) labiata</i> (Red-girdled Mining Bee)	SJ385495	1993	Recorder Name Withheld		Field record	The Oaks		D0217/001/04	RD2(UK)NA	3
<i>Andrena (Poecilandrena) labiata</i> (Red-girdled Mining Bee)	SJ392502	2 records, both on 11/05/1999	Recorder Name Withheld	1 Adult; 1 Male	Netted	Owens Corning Factory	Method: Netted; Netted from the blue flower of Germander Speedwell (<i>Veronica chamaedrys</i>) near the new fishing pool	D1650/001/02 , D1453/001/01	RD2(UK)NA	4

Birds										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Accipiter gentilis</i> (Goshawk / Gwalch Marthin)	SJ34 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0132/001/02	CITES, WCA1.1, WCA9, LBAP[CON]	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ39595004 (Selected from Interactive Map)	24/07/2016	Recorder Name Withheld	5 Full-Grown		Wrexham Industrial Estate		D1695/001/01	WBA	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3948	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656- BGBW2009-16448539-106734640	D1852/002/01	WBA	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3950	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656- BGBW2009-16448728-106734762	D1852/002/01	WBA	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ4048	3 records, between 24/01/2009 and 17/09/2017	Recorder Name Withheld	1; 6		Sutton Green	BirdTrack; Occurrence ID: NBN- GA000656-BGBW2009-16448858- 106734700	D1297/025/01 , D1852/002/01	WBA	4
<i>Aix galericulata</i> (Mandarin Duck / Hwyaden Gribog)	SJ3949	24/06/2016	Recorder Name Withheld	1	Reported to recorder	Wrexham, Industrial Estate, E	2 dead ducklings, hartched shells. Activity: UN. Survey: Observer data	D0062/008/01	INNS, WCA9	3
<i>Aix galericulata</i> (Mandarin Duck / Hwyaden Gribog)	SJ4048	17/09/2017	Recorder Name Withheld	4		Sutton Green	BirdTrack	D1297/025/01	INNS, WCA9	4
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ397495 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld				Shoot Size Range: 0-3km	D0132/001/02	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3848	2 records, between 10/04/2009 and 24/04/2011	Recorder Name Withheld	2; 1	Reported to recorder	Parkey	Singing, roving record. Survey: Observer data; Activity: S. Survey: Observer data	D0062/008/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ4048	31/12/2018	Recorder Name Withheld	2		Sutton Green		D1297/025/01	BDir2.1, CITES, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wylt)	SJ39625003 (Selected from Interactive Map)	24/07/2016	Recorder Name Withheld	1 Full-Grown		Wrexham Industrial Estate		D1695/001/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	4
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wylt)	SJ4048	3 records, between 24/02/2014 and 31/12/2018	Recorder Name Withheld	2; 54		Sutton Green	BirdTrack; Birdtrack. All in one flooded field pool	D1297/025/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	4
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ4048	24/02/2014	Recorder Name Withheld	1		Sutton Green	BirdTrack	D1297/025/01	Bern, UKBA, WBA, LBAP[CON]	4
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3850	15/06/2008	Recorder Name Withheld	2		Wrexham, Industrial Estate	Birdtrack. Activty: FL	D1297/025/01	BDir2.1, INNS, WCA9	4
<i>Cettia cetti</i> (Cetti's Warbler / Telor Cetti)	SJ34 (Selected from Interactive Map)	21/05/2017	Recorder Name Withheld	1 Adult Male		Site Name Withheld	Comments Withheld	D1117/001/01	WCA1.1, LBAP[ANG]	4
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ4048	2 records, between 17/09/2017 and 31/12/2018	Recorder Name Withheld	4; 49		Sutton Green	BirdTrack	D1297/025/01	BDir2.2, UKBA, WBA, LBAP[CON]	4
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ3850	15/03/2006	Recorder Name Withheld	2	Reported to recorder	Wrexham, Industrial Estate	Survey: Observer data	D0062/008/01	BDir2.2, UKBA, WBA, LBAP[CON]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ4050	03/05/2004	Recorder Name Withheld	2	Reported to recorder	Isycoed	Inland. Survey: Observer data	D0062/008/01	BDir2.2, UKBA, WBA, LBAP[CON]	3
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ4049	24/04/2002	Recorder Name Withheld	3 Male	Reported to recorder	Isycoed, S	Survey: Observer data	D0062/008/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ4050	20/03/2002	Recorder Name Withheld	1 Male	Reported to recorder	Isycoed	Activity: S. Survey: Observer data	D0062/008/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ35 (Selected from Interactive Map)	01/06/2016	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1748/001/01	BDir1, Bern, CITES, WCA1.1, LBAP[ANG, CON, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ38544978 (Selected from Interactive Map)	28/02/2015	Recorder Name Withheld	1 Full-Grown		Marlborough Road, Wrexham Industrial Estate	Hunting over this area of rough grassland throughout the day	D1117/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3949	16/04/2008	Recorder Name Withheld	2		Wrexham, Industrial Estate, E	Birdtrack	D1297/025/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3849	2 records, between 16/04/2008 and 17/03/2009	Recorder Name Withheld	1		Wrexham, Industrial Estate, W	Birdtrack	D1297/025/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3950	03/01/2008	Recorder Name Withheld	1	Reported to recorder	Isycoed, W	Survey: Observer data	D0062/008/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3850 (Selected from Interactive Map)	3 records, between 15/06/2008 and 05/06/2014	Recorder Name Withheld	1 Chick; 1	Live Sighting; Reported to recorder	Wrexham Industrial Estate	Nest found with adult female in attendance with 1 chick; Birdtrack. Activity: H; Survey: Observer data	D1117/001/01 , D1297/025/01 , D0062/008/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3848	10/04/2009	Recorder Name Withheld	1	Reported to recorder	Parkey	Roving record. Survey: Observer data	D0062/008/01	BDir2.1, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ393491 (Approximate)	23/07/2016	Recorder Name Withheld	3+		WIE 10. The Club House		D1695/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	4
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3849	6 records, between 03/10/2007 and 16/09/2010	Recorder Name Withheld	2; 6; 2 Adult; 3 Adult; 3 Juvenile	Reported to recorder	Wrexham, Industrial Estate, W	Survey: Observer data; 2 with young. Survey: Observer data; 3 young still on beam in warehouse. Survey: Observer data; still on same beam, parents trying to move young. Survey: Observer data	D0062/008/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ4048	17/09/2017	Recorder Name Withheld	3		Sutton Green	BirdTrack	D1297/025/01	Bern, WBA, LBAP[ANG, CON, GWY]	4
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3850	15/06/2008	Recorder Name Withheld	2		Wrexham, Industrial Estate	Birdtrack. Activity: H	D1297/025/01	Bern, WBA, LBAP[ANG, CON, GWY]	4
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ393491 (Approximate)	23/07/2016	Recorder Name Withheld	4+		WIE 10. The Club House		D1695/001/01	BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	4
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ393491 (Approximate)	2 records, between 23/07/2016 and 24/07/2016	Recorder Name Withheld	7+; 1 Adult Male; 1 Adult Female		WIE 10. The Club House	Male singing	D1695/001/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3848	2 records, between 24/04/2011 and 19/06/2011	Recorder Name Withheld	4	Reported to recorder	Parkey	Activity: P. Survey: Observer data; Activity: T. Survey: Observer data	D0062/008/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ387501 (Selected from Interactive Map)	26/04/2011	Recorder Name Withheld	1 Adult	Auditory record	Bryn Lane Recycling Centre		D1117/001/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	4
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ3848	24/04/2011	Recorder Name Withheld	4	Reported to recorder	Parkey	Activity: S. Survey: Observer data	D0062/008/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ3850	15/06/2008	Recorder Name Withheld	1		Wrexham, Industrial Estate	Birdtrack. Activity: S	D1297/025/01	Bern, S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	4
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ39694988 (Selected from Interactive Map)	24/07/2016	Recorder Name Withheld	2 Full-Grown		Wrexham Industrial Estate		D1695/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ393491 (Approximate)	23/07/2016	Recorder Name Withheld			WIE 10. The Club House		D1695/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3849	26/01/2008 - 27/01/2008	Recorder Name Withheld			Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135613-139526450	D1852/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3950	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448728-106609266	D1852/002/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ4048	3 records, between 24/01/2009 and 24/02/2014	Recorder Name Withheld	50; 4+		Sutton Green	Birdtrack. Biggest Sparrow flock I have seen for a number of years, birds in and out of hedges both side of road.; BirdTrack; Occurrence ID: NBN-GA000656-BGBW2009-16448858-106609210	D1297/025/01 , D1852/002/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer montanus</i> (Tree Sparrow / Golfan y Mynydd)	SJ4050	2 records, between 01/05/2006 and 09/01/2011	Recorder Name Withheld	1; 5	Reported to recorder	Isycoed	Survey: Observer data	D0062/008/01	S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3948	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448539-106179879	D1852/002/01	Bern, WBA, LBAP[CON]	4
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ4048	2 records, between 17/09/2017 and 31/12/2018	Recorder Name Withheld	4; 6		Sutton Green	BirdTrack	D1297/025/01	WBA, LBAP[CON, GWY]	4
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3848	3 records, between 10/04/2009 and 24/04/2011	Recorder Name Withheld	1; 4; 3	Reported to recorder	Parkey	Roving record. Survey: Observer data; Activity: S. Survey: Observer data	D0062/008/01	UKBA, WBR, LBAP[CON]	3
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3850949263 (Selected from Interactive Map)	16/05/2019	Recorder Name Withheld	1 Adult		Wrexham industrial estate	Heard only	D1117/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	4
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ392503 (Selected from Interactive Map)	08/04/2019	Recorder Name Withheld	1	Auditory record	Bryn Lane, Wrexham Industrial Estate		D1696/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	4
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3848	2 records, between 24/04/2011 and 19/06/2011	Recorder Name Withheld	1; 2	Reported to recorder	Parkey	Survey: Observer data	D0062/008/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3948	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448539-106179882	D1852/002/01	Bern, S7, UKBA, LBAP[CON]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ4048	31/12/2018	Recorder Name Withheld	1		Sutton Green		D1297/025/01	Bern, S7, UKBA, LBAP[CON]	4
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3850	15/06/2008	Recorder Name Withheld	1		Wrexham, Industrial Estate	Birdtrack	D1297/025/01	Bern, S7, UKBA, LBAP[CON]	4
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ389489 (Selected from Interactive Map)	23/07/2016	Recorder Name Withheld	1 Adult Male		WIE 1. The Oaks LWS & River Clywedog		D1695/001/01	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	4
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ386493 (Approximate)	23/07/2016	Recorder Name Withheld		Auditory record	WIE 1. The Oaks LWS & River Clywedog		D1695/001/01	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	4
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ397495 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld				Shoot Size Range: 0-3km	D0132/001/02	BDir2.1, UKBR, WBA, LBAP[CON, DEN, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ393491 (Approximate)	23/07/2016	Recorder Name Withheld	25+		WIE 10. The Club House		D1695/001/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3849	01/03/2007	Recorder Name Withheld	50+	Reported to recorder	Wrexham, Industrial Estate, W	Birds gathering between Redwither pub and Firestone site. Survey: Observer data	D0062/008/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3950	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448728-106878562	D1852/002/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ4048	3 records, between 24/02/2014 and 31/12/2018	Recorder Name Withheld	5+; 8; 300+		Sutton Green	BirdTrack	D1297/025/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3850949263 (Selected from Interactive Map)	16/05/2019	Recorder Name Withheld	3 Adult		Wrexham industrial estate		D1117/001/01	WBA, LBAP[CON]	4
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3848	07/05/2009	Recorder Name Withheld	10+	Reported to recorder	Parkey	Roving record. Survey: Observer data	D0062/008/01	WBA, LBAP[CON]	3
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ4048	2 records, between 24/02/2014 and 31/12/2018	Recorder Name Withheld	10+		Sutton Green	BirdTrack	D1297/025/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	4
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3948	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448539-106817408	D1852/002/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3950	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16448728-106817475	D1852/002/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3848	2 records, between 07/05/2009 and 26/04/2011	Recorder Name Withheld	4; 1	Reported to recorder	Parkey	Roving record. Survey: Observer data; Activity: S. Survey: Observer data	D0062/008/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3950	30/10/2010	Recorder Name Withheld	50	Reported to recorder	Isycoed, W	Survey: Observer data	D0062/008/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ4048	3 records, between 24/12/2013 and 31/12/2018	Recorder Name Withheld	12; 5+; 40+		Sutton Green	BirdTrack	D1297/025/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	4
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ34 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0132/001/02	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ44	2 records, between 08/03/2011 and 16/06/2017	Recorder Name Withheld	1 Adult; 1	Reported to recorder	Site Name Withheld	Comments Withheld	D0062/008/01	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	2 records, between 15/03/2006 and 20/03/2007	Recorder Name Withheld	1	Reported to recorder	Site Name Withheld	Comments Withheld	D1297/025/01 , D0062/008/01	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ45	29/01/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1297/025/01	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ397495 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld				Shoot Size Range: 0-3km	D0132/001/02	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4

Butterflies and Moths										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Chiasmia clathrata</i> (Latticed Heath / Seffyr Delltog)	SJ386492	22/06/2007	Recorder Name Withheld	2 Adult		Wrexham Ind. estate	Habitat: Grassland: neutral. Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Chiasmia clathrata</i> (Latticed Heath / Seffyr Delltog)	SJ392502	11/06/1999	Recorder Name Withheld	2 Adult		Owens Corning Factory	Habitat: Scrub. Method: Netted	D1285/001/03	S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ388493	19/05/2004	Recorder Name Withheld	4	Field record	Wrexham Ind Estate - S of Bryn Lane		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ386492	1991 - 1998	Recorder Name Withheld			The Oaks		D0217/001/04	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3864749445	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ385493 (Estimated (Centroid of Site))	4 records, between 01/06/1998 and 18/05/2010	Recorder Name Withheld	2; 2 Adult; 7 Adult	Field record	Wrexham Industrial Estate	Breeding: No. Mature: Yes. Record type: Field record / observation; JVS's Map Ref SJ 384493 : also recorded PBF - not accepted yet	D0127/001/02 , D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3853349255	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ38824998 (Selected from Interactive Map)	2 records, both on 23/05/2018	Recorder Name Withheld	8	Live Sighting	Wrexham recycling Park		D1696/001/01 , D1748/002/01	RD1(UK)NT, S7, LBAP[GWY]	4
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3849949354	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ392502	16/06/1999	Recorder Name Withheld	6		Owens Corning site, Wrexham Industrial Estate	Found near the old fishing pond	D1453/001/01	RD1(UK)NT, S7, LBAP[GWY]	4
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ38895016	2 records, both on 23/05/2018	Recorder Name Withheld	8 Adult		Wrexham Recycling Park Mitigation Area		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ388501	39 records, between 22/05/2012 and 24/06/2013	Recorder Name Withheld	2; 4; 3; 1; 6		Bryn Lane Wrexham Ind Estate S10	Grid reference type: Estimated (centroid of transect section)	D1924/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Diloba caeruleocephala</i> (Figure of Eight / Crwbach Ffigwr Wyth)	SJ392502	11/05/1999	Recorder Name Withheld	1 Larval		Owens Corning Factory	Habitat: Scrub. Method: Daytime observation	D1285/001/03	S7	3
<i>Ecliptopera silaceata</i> (Small Phoenix / Ffenics Bach)	SJ386492	1972	Recorder Name Withheld	1 Adult		Wrexham Ind Estate (Oaks Site)	Habitat: Scrub: scattered	D1285/001/03	S7, LBAP[GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Ecliptopera silaceata</i> (Small Phoenix / Ffenics Bach)	SJ385495	1972 - 1973	Recorder Name Withheld			Wrexham Industrial Estate		D0217/001/04	S7, LBAP[GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ388493	19/05/2004	Recorder Name Withheld	4		Wrexham Ind Estate - S of Bryn Lane		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ388491	30/04/2007	Recorder Name Withheld	1		Off Oak Road Wrexham industrial Estate		D1117/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	4
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3878749233	21/05/2014	Recorder Name Withheld	2 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3877249242	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ387492	2 records, between 21/05/2006 and 22/05/2018	Recorder Name Withheld	2 Adult; 1		Wxm Ind Estate, Oak Road		D1373/001/05 , D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3876049140	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ385493	10 records, between 29/05/2001 and 30/05/2010	Recorder Name Withheld	4 Adult; 7 Adult; 10 Adult; 2 Adult; 20 Adult; 15 Adult; 2	Field record	Wrexham Industrial Estate	JVS's Map Ref SJ 384493 : also recorded PBF - not accepted yet	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3850949263 (Selected from Interactive Map)	16/05/2019	Recorder Name Withheld	3 Adult		Wrexham industrial estate		D1117/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	4
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3849949354	21/05/2014	Recorder Name Withheld	2 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3845749320	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ384493	29/05/2001	Recorder Name Withheld	2		Wrexham Ind Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ38895016	4 records, all on 23/05/2018	Recorder Name Withheld	6 Adult; 6	Live Sighting	Wrexham Recycling Park Mitigation Area		D1373/001/05 , D1696/001/01 , D1748/002/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ388501	25/05/2012	Recorder Name Withheld	1		Bryn Lane Wrexham Ind Estate S8	Grid reference type: Estimated (centroid of transect section)	D1924/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3849	2 records, between 12/05/2000 and 15/05/2000	Recorder Name Withheld			The Oaks	Approx. 20-25 adults	D0217/001/04	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3848	3 records, between 01/01/1995 and 12/05/2005	Recorder Name Withheld	2		SJ3848	Wrexham Ind Estate; Breeding: No. Mature: Yes. Record type: Field record / observation	D1858/001/02 , D0127/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Hemistola chrysoprasaria</i> (Small Emerald / Emralt Barf yr Hen Wr)	SJ386492	1973	Recorder Name Withheld	1 Adult		Wrexham Ind. estate	Habitat: Grassland: neutral. Method: MV Light Trap	D1285/001/03	S7, LBAP[GWY]	3
<i>Hemistola chrysoprasaria</i> (Small Emerald / Emralt Barf yr Hen Wr)	SJ385495	1972 - 1973	Recorder Name Withheld			Wrexham Industrial Estate		D0217/001/04	S7, LBAP[GWY]	3
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ386492	1991 - 1998	Recorder Name Withheld			The Oaks		D0217/001/04	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ392502	1999	Recorder Name Withheld			Owens Corning site, Wrexham Industrial Estate	Thriving colonies in two areas	D1453/001/01	RD1(UK)NT, S7, LBAP[GWY]	4
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ3848 (Estimated (Centroid of Site))	1995	Recorder Name Withheld	2		SJ3848	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ388493	19/05/2004	Recorder Name Withheld	3		Wrexham Ind Estate - S of Bryn Lane		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3881149445	29/04/2014	Recorder Name Withheld	3 Adult		Bryn Cottages/Oak Rd		D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3880949454	24/05/2012	Recorder Name Withheld	3 Adult		Wrexham Industrial Estate: Bryn Cottages	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38804945	24/05/2012	Recorder Name Withheld	3		Wrexham Industrial Estate: Bryn Cottages		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ386492	2 records, between 13/05/1993 and 01/06/1998	Recorder Name Withheld	2 Adult; 8 Adult		The Oaks		D0217/001/04	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3864649406	17/05/2011	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Redwither	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38644940	17/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38624925	24/05/2012	Recorder Name Withheld	1		Wrexham Industrial Estate: Redwither		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3862549254	24/05/2012	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Redwither	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ385493	12 records, between May 1993 and 30/05/2010	Recorder Name Withheld	2; 2 Adult; 1 Adult; 6 Adult; 8 Adult; 5 Adult; 4 Adult		Wrexham Ind Estate	Breeding: No. Mature: Yes. Record type: Daytime observation; Breeding: No. Mature: Yes. Record type: Field record / observation	D1858/001/02 , D0127/001/02 , D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3852849251	24/05/2012	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Redwither	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38524925	24/05/2012	Recorder Name Withheld	1		Wrexham Industrial Estate: Redwither		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38604969	2 records, both on 04/06/2015	Recorder Name Withheld	1 Adult		Abbey Road		D1373/001/05 , D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3850949263 (Selected from Interactive Map)	16/05/2019	Recorder Name Withheld	2 Adult		Wrexham industrial estate		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3845749320	21/05/2014	Recorder Name Withheld	1 Adult		The Oaks		D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38895016	4 records, all on 23/05/2018	Recorder Name Withheld	5 Adult; 5	Live Sighting	Wrexham Recycling Park Mitigation Area		D1373/001/05 , D1696/001/01 , D1748/002/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ388501	12 records, between 11/05/2012 and 29/05/2012	Recorder Name Withheld	3; 1; 2		Bryn Lane Wrexham Ind Estate S2	Grid reference type: Estimated (centroid of transect section)	D1924/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3849	2 records, between 12/05/2000 and 15/05/2000	Recorder Name Withheld	3 Adult; 11 Adult		The Oaks		D0217/001/04	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3848	12/05/2005	Recorder Name Withheld	1		SJ3848	Wrexham Ind Estate	D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ392502	13/07/1999	Recorder Name Withheld	3 Adult		Owens Corning Factory	Habitat: Scrub. Method: Netted	D1285/001/03	S7, LBAP[GWY]	3
<i>Timandra comae</i> (Blood-vein / Gwyfyn Gwythïen Goch)	SJ396489	04/08/2006	Recorder Name Withheld	1 Adult		Bowling bank Pond	Habitat: pond. Method: Netted	D1285/001/03	S7	3
<i>Tyria jacobaeae</i> (Cinnabar / Teigr y Benfelen)	SJ392502	16/06/1999	Recorder Name Withheld	2 Adult		Owens Corning Factory	Habitat: Scrub. Method: Netted	D1285/001/03	S7, LBAP[GWY]	3
<i>Watsonalla binaria</i> (Oak Hook-tip / Bachadain y Deri)	SJ386492	1972	Recorder Name Withheld	1 Adult		Wrexham Ind. estate	Habitat: Grassland: neutral. Method: MV Light	D1285/001/03	S7, LBAP[GWY]	3
<i>Watsonalla binaria</i> (Oak Hook-tip / Bachadain y Deri)	SJ385495	1972 - 1973	Recorder Name Withheld			Wrexham Industrial Estate		D0217/001/04	S7, LBAP[GWY]	3

Fish										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Anguilla anguilla</i> (Eel / Llysywen)	SJ395483	18/07/2002	Recorder Name Withheld	100 to 999 [Captured - Survey]		River Dee / Alyn, 213	Survey type: Electric Fishing	D1702/001/01	RD1(UK)CR, S7, LBAP[CON, GWY]	3
<i>Salmo salar</i> (Atlantic Salmon / Eog)	SJ395483	09/07/2001	Recorder Name Withheld	1 to 9 [Captured - Survey]		River Dee / Clywedog, 206	Survey type: Electric Fishing	D1702/001/01	Bern, HDir, RD2(UK), S7, LBAP[CON, DEN, FLI, GWY]	3
<i>Salmo salar</i> (Atlantic Salmon / Eog)	SJ396483	01/08/1994	Recorder Name Withheld			Higher Oak; Afon Clywedog		D1153/001/02	Bern, HDir, RD2(UK), S7, LBAP[CON, DEN, FLI, GWY]	3
<i>Salmo trutta</i> (Brown/Sea Trout / Siwin; Brithyll)	SJ396483	01/08/1994	Recorder Name Withheld			Higher Oak; Afon Clywedog		D1153/001/02	S7, LBAP[CON, GWY]	3

- PUBLIC VERSION -

Mammals										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Chiroptera</i> (Unknown Bat / Ystlum Anhysbys)	SJ3949 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0132/001/02	EPS, WCA5, LBAP[ANG, DEN, FLI, SNP]	4
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ397495 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld				Shoot Size Range: 0-3km	D0132/001/02	S7, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ4050	2 records, between 01/05/1945 and 01/05/1946	Recorder Name Withheld		Shot	Site Name Withheld	Comments Withheld	D1118/006/01	Bern, CITES, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ3948	12 records, between 20/07/1991 and 27/10/2009	Recorder Name Withheld	2 spraints	Tracks/Trail; Dung/Droppings/ Frass/Pellet, etc.	Site Name Withheld	Comments Withheld	D1558/001/01 , D1118/006/01 , D1153/001/02	Bern, CITES, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ3948	3 records, between 20/07/1991 and 06/11/2003	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0045/001/02 , D1923/001/01	Bern, CITES, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3848	1983	Recorder Name Withheld		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/03	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3849	1983	Recorder Name Withheld		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/03	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3849	13/11/2007	Recorder Name Withheld		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/03	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3849	02/01/2003	Recorder Name Withheld		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/03	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3948	19/11/2008	Recorder Name Withheld		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/03	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Mustela erminea</i> (Stoat / Carlwm)	SJ39045017 (Selected from Interactive Map)	01/06/2016	Recorder Name Withheld	1		Bryn Lane, Wrexham Industrial Estate		D1748/001/01	Bern, NRW, LBAP[ANG, CON, FLI]	4
<i>Myotis mystacinus</i> (Whiskered Bat / Ystlum Barfog)	SJ3849	28/09/1999	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1486/001/01	Bern, EPS, HDir, RD2(UK), WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]	3
<i>Neovison vison</i> (American Mink / Minc)	SJ397495 (Estimated (Centroid of Site))	2005 approx	Recorder Name Withheld				Shoot Size Range: 0-3km	D0132/001/02	INNS, WCA9	1
<i>Nyctalus noctula</i> (Noctule Bat / Ystlum Mawr)	SJ3849 (Approximate)	2 records, between 22/07/2016 and 23/07/2016	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1695/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle / Ystlum Lleiaf Cyffredin)	SJ3949	3 records, between 16/08/1993 and 18/08/1993	Recorder Name Withheld	32; 22; 8		Site Name Withheld	Comments Withheld	D1486/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle / Ystlum Lleiaf Cyffredin)	SJ3849 (Approximate)	2 records, between 22/07/2016 and 23/07/2016	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1695/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle / Ystlum Lleiaf Cyffredin)	SJ3948	1994	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1486/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle / Ystlum Lleiaf Cyffredin)	SJ3849	1998	Recorder Name Withheld	60 (Exact)		Site Name Withheld	Comments Withheld	D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Pipistrellus pygmaeus</i> (Soprano Pipistrelle / Ystlum Lleiaf Uchelsain)	SJ3849 (Approximate)	23/07/2016	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1695/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]	4
<i>Plecotus auritus</i> (Brown Long-eared Bat / Ystlum Hirglust)	SJ3849	10/10/2005	Recorder Name Withheld	1 (Exact)		Site Name Withheld	Comments Withheld	D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Rhinolophus hipposideros</i> (Lesser Horseshoe Bat / Ystlum Pedol Lleiaf)	SJ3849	08/09/2005	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3

- PUBLIC VERSION -

Other Invertebrates										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Acanthiophilus helianthi</i>	SJ3849	04/07/2000	Recorder Name Withheld			The Oaks		D0217/001/04	RD2(UK)N	3
<i>Diplapion stolidum</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Adult		The Oaks		D0217/001/04	RD2(UK)NB	3
<i>Lestes sponsa</i> (Emerald Damselfly / Mursen Werdd)	SJ396489	04/08/2006	Recorder Name Withheld	1 adult		Bowling Bank Pond		D1295/001/04	LBAP[SNP], LI[VC50]	3
<i>Lestes sponsa</i> (Emerald Damselfly / Mursen Werdd)	SJ396500	2 records, both on 01/08/1979	Recorder Name Withheld	Present adult				D0158/003/01 , D1295/001/04	LBAP[SNP], LI[VC50]	4
<i>Lestes sponsa</i> (Emerald Damselfly / Mursen Werdd)	SJ403491	2 records, both on 19/07/1979	Recorder Name Withheld	Present adult				D0158/003/01 , D1295/001/04	LBAP[SNP], LI[VC50]	4
<i>Neophytobius quadrinodosus</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Female		The Oaks		D0217/001/04	RD2(UK)NA	3
<i>Oxycera morrisii</i> (White-barred Soldier)	SJ392502	4 records, all on 17/07/1999	Recorder Name Withheld	1 Adult; 1		Owens Corning Factory	Malaise Trap; In malaise trap; iRecord (iRecord Import)	D1650/006/01 , D1453/001/01 , D1906/001/01 , D1844/001/03	RD2(UK)N	1
<i>Phaonia atriceps</i>	SJ392502	18/08/1999	Recorder Name Withheld	3		Owens Corning site, Wrexham Industrial Estate	In malaise trap	D1453/001/01	RD2(UK)N	1
<i>Pseudorchestes pratensis</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Adult		The Oaks		D0217/001/04	RD2(UK)NB	3
<i>Sympetrum sanguineum</i> (Ruddy Darter / Gwäell Rudd)	SJ38865016 (Selected from Interactive Map)	21/07/2014	Recorder Name Withheld	1 Adult Male		Bryn Lane, Wrexham Industrial Estate		D1748/001/01	LBAP[SNP], LI[VC50]	4

Plants										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Calamagrostis epigejos</i> (Wood Small-reed / Corsen Fach y Coed)	SJ3849	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ38174894. Large patch on lip of depression	D1169/004/02	LBAP[GWY], LI[VC48, VC49, VC50, VC51]	3
<i>Cichorium intybus</i> (Chicory / Ysgellog)	SJ385496	20/07/2015	Recorder Name Withheld	6		Wrexham Industrial Estate	Council Reserve	D1169/004/02	LI[VC49, VC50, VC51]	3
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ387494	2 records, both in 1998	Recorder Name Withheld			Redwither	Redwither.	D0216/001/03 , D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	4
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ386492	29/06/2014	Recorder Name Withheld			Wrexham Industrial Estate	4ft Tall	D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	3
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ3849	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ3889.4915	D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	3
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ3848	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site		D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	3
<i>Crocsmia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia / Crib-y-Ceiliog)	SJ3850	19/04/2014	Recorder Name Withheld			Wrexham Industrial Estate North		D1169/004/02	INNS, WCA9	3
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ3848	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate		D1169/004/02	INNS, WCA9	3
<i>Genista tinctoria</i> (Dyer's Greenweed / Melynog y Waun)	SJ386494	27/06/2007	Recorder Name Withheld			Wrexham Industrial Estate	Cefn Park: uncut grassy area	D1169/004/02	LI[VC49, VC50, VC51]	3
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ3891348912	20/10/2016	Recorder Name Withheld			Wrexham Industrial estate	wet woodland, HB throughout. Mark DINNS	D1586/014/01	INNS, WCA9	4
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ386493 (Approximate)	23/07/2016	Recorder Name Withheld			WIE 1. The Oaks LWS & River Clywedog		D1695/001/01	INNS, WCA9	4
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ3849	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate		D1169/004/02	INNS, WCA9	3
<i>Lathyrus nissolia</i> (Grass Vetchling / Ytbsen Feinddail)	SJ3848	2 records, between 29/06/2009 and 11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	Widespread in the area	D1169/004/02	LI[VC49, VC50]	3
<i>Ononis spinosa</i> (Spiny Restharrow / Tagaradr Pigog)	SJ3848	11/08/2013	Recorder Name Withheld			Wrexham Industrial Estate	SJ381489. 5 plants. Track around pit, original place W	D1169/004/02	LI[VC49, VC50, VC52]	3
<i>Petasites hybridus</i> (Butterbur / Alan Mawr)	SJ3848	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate		D1169/004/02	LI[VC48, VC50]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Polemonium caeruleum</i> (Jacob's-ladder / Ysgol Jacob)	SJ3849	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ3889.4915. 4th for VC.	D1169/004/02	RD2(UK)R, LBAP[CON]	3
<i>Populus nigra</i> (Black-poplar / Poplysen Ddu)	SJ39264879 (Supplied by Original Recorder)	4 records, between 24/02/2004 and 19/11/2008	Recorder Name Withheld	6; 3; 2		River Clywedog; Pickhill Bridge farm	Two tall trees only	D1446/001/01	LBAP[DEN, FLI, SNP, WRE], LI[VC52]	4
<i>Populus nigra subsp. betulifolia</i> (Black Poplar)	SJ4010049400	1994	Recorder Name Withheld	1 Male	Field record	B5130 Isycoed	Hedge - Location to be checked	D0225/001/01	LBAP[CON, DEN, FLI, SNP, WRE], LI[VC48, VC50, VC52]	4
<i>Populus nigra subsp. betulifolia</i> (Black Poplar)	SJ4050	29/07/2012	Recorder Name Withheld			Isycoed		D1169/004/02	LBAP[CON, DEN, FLI, SNP, WRE], LI[VC48, VC50, VC52]	3
<i>Ranunculus trichophyllus</i> (Thread-leaved Water-crowfoot / Crafan-y-Frân Feinddail)	SJ3950	1979	Recorder Name Withheld					D0216/001/03	LBAP[GWY], LI[VC48, VC49, VC50, VC52]	4
<i>Ricciocarpos natans</i> (Fringed Heartwort / Grisial-Lys Eddiog)	SJ397498 (Selected from Interactive Map)	24/07/2016	Recorder Name Withheld			Wrexham Industrial Estate		D1695/001/01	RD1(Wales)EN, LI[VC50]	4
<i>Salix viminalis x cinerea</i> = <i>S. x holosericea</i> (Silky-leaved Osier)	SJ3849	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ38094918. On side of shallow ditch	D1169/004/02	LI[VC50, VC51]	3
<i>Sedum album</i> (White Stonecrop / Briweg Wen)	SJ386493 (Approximate)	2 records, both on 23/07/2016	Recorder Name Withheld			WIE 1. The Oaks LWS & River Clywedog		D1695/001/01	INNS	4
<i>Sedum album</i> (White Stonecrop / Briweg Wen)	SJ3849 (Selected from Interactive Map)	05/03/2020	Recorder Name Withheld			The Oaks LWS		D1117/001/01	INNS	4
<i>Silaum silaus</i> (Pepper-saxifrage / Ffenigl yr Hwch)	SJ387494	07/08/2009	Recorder Name Withheld			Wrexham Industrial Site		D1169/004/02	LI[VC50]	3
<i>Silaum silaus</i> (Pepper-saxifrage / Ffenigl yr Hwch)	SJ386492	29/06/2014	Recorder Name Withheld			Wrexham Industrial Estate	Wrexham Ind Estate (Oaks Site)	D1169/004/02	LI[VC50]	3
<i>Silaum silaus</i> (Pepper-saxifrage / Ffenigl yr Hwch)	SJ3848	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ38104889.	D1169/004/02	LI[VC50]	3
<i>Sinapis arvensis</i> (Charlock / Mwstard Gwyllt)	SJ3850	19/04/2014	Recorder Name Withheld			Wrexham Industrial Estate North		D1169/004/02	RD1(Wales)VU	3
<i>Veronica catenata</i> (Pink Water-Speedwell / Graeanllys-y-Dwr Rhosliw)	SJ397498 (Selected from Interactive Map)	24/07/2016	Recorder Name Withheld			Wrexham Industrial Estate		D1695/001/01	LI[VC48, VC49, VC50]	4

Reptiles and Amphibians										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ3849	2 records, both in 1999	Recorder Name Withheld			Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D0035/002/01 , D1076/001/02	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ395500 (Selected from Interactive Map)	14/04/2010	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P39 cluster (Ponds 3,4,5,6)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ38634948 (Supplied by Original Recorder)	23/07/2016	Recorder Name Withheld	1		WIE 1. The Oaks LWS & River Clywedog	Sub-Adult	D1695/001/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3910550060 (Selected from Interactive Map)	03/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P12 (D)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3958050192 (Selected from Interactive Map)	03/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P17 (H)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ390501	14/11/2015	Recorder Name Withheld	223	Pitfall Trap	Bryn Lane, Wrexham Industrial Estate	Trapped and translocated between October and November, mixture of adult and juveniles	D1672/001/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3910250172 (Selected from Interactive Map)	5 records, between 03/05/2005 and 07/04/2010	Recorder Name Withheld	1 Adult (Sex Unknown); Adult (Sex Unknown); 2 Adult (Sex Unknown); 1 Juvenile (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P11 (C)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ39345027	24/06/1992	Recorder Name Withheld					D1122/002/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ39035023	2 records, between 03/05/2005 and 24/03/2010	Recorder Name Withheld	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P32 (B)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ38915018 (Selected from Interactive Map)	4 records, between 11/04/2007 and 03/05/2007	Recorder Name Withheld	1 Adult (Sex Unknown); 1	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: Phase 1, Ditch		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ388501 (Selected from Interactive Map)	15/04/2013	Recorder Name Withheld	400 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: Phase 1, General		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ391493 (Supplied by Original Recorder (Checked))	06/03/1999	Recorder Name Withheld	+		Wrexham Industrial Estate	Torch survey of 2+ ponds	D0026/036/01	Bern, WCA5, LBAP[CON, DEN, FLI]	4
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39094934	11/06/1992	Recorder Name Withheld					D1122/002/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39064980	11/06/1992	Recorder Name Withheld					D1122/002/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39714882	03/06/1992	Recorder Name Withheld					D1122/002/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3932449953 (Selected from Interactive Map)	3 records, between 03/05/2005 and 13/05/2005	Recorder Name Withheld	2 Adult (Sex Unknown); 4 Adult (Sex Unknown); 3 Adult Male; 1 Adult Female	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P15 (F)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3925549949 (Selected from Interactive Map)	20/05/2005	Recorder Name Withheld	1 Adult Male	Bottle Trap	Wrexham Ind Estate - East: P14 (E)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3973249879 (Selected from Interactive Map)	4 records, between 25/03/2010 and 03/06/2010	Recorder Name Withheld	1 Adult Female; 1 Adult Male; 1 Adult Female; 2 Adult Female	Bottle Trap	Wrexham Ind Estate - East: P19 (R)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39505001 (Selected from Interactive Map)	3 records, between 07/04/2010 and 26/04/2010	Recorder Name Withheld	1 Adult Male; 1 Adult Female; 28 Adult Female; 8 Adult Male; 7 Adult Female; 4 Adult Male	Torch Count	Wrexham Ind Estate - East: P38 (Pond 7)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3895149895 (Selected from Interactive Map)	4 records, between 03/05/2005 and 13/05/2005	Recorder Name Withheld	1 Adult Male; 3 Adult Female; 2 Adult Male; 3 Adult Female; 4 Adult (Sex Unknown); 3 Adult (Sex Unknown)	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P13 (V)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3962050012 (Selected from Interactive Map)	2 records, between 04/05/2005 and 25/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown); 1 Adult Male	Bottle Trap	Wrexham Ind Estate - East: P18 (G)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ395500 (Selected from Interactive Map)	4 records, between 07/04/2010 and 26/04/2010	Recorder Name Withheld	3 Adult Female; 2 Adult Male; 6 Adult Female; 1 Adult Female; 10 Adult Male; 12 Adult Female	Torch Count	Wrexham Ind Estate - East: P39 cluster (Ponds 3,4,5,6)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3950950068 (Selected from Interactive Map)	5 records, between 24/03/2010 and 26/04/2010	Recorder Name Withheld	5 Adult Male; 5 Adult Female; 5 Adult Male; 8 Adult Female; 9 Adult Male; 19; 7 Adult Female; 15 Adult Male	Torch Count	Wrexham Ind Estate - East: P36 (Pond 1)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3958050192 (Selected from Interactive Map)	22 records, between 03/05/2005 and 04/06/2013	Recorder Name Withheld	20 Adult (Sex Unknown); 4 Adult Female; 2 Adult Male; 2 Adult Male; 5 Adult Female; 2 Adult Male; 2 Adult Female; 3 Adult Male; 3 Adult Female; 1 Adult Male; 1 Adult Male; 1 Adult Female; 2 Adult Fema...	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P17 (H)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ390501	14/11/2015	Recorder Name Withheld	58	Pitfall Trap	Bryn Lane, Wrexham Industrial Estate	Trapped and translocated between October and November, mixture of adult and juveniles	D1672/001/01	Bern, WCA5, LBAP[CON, DEN, FLI]	4
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3910250172 (Selected from Interactive Map)	9 records, between 04/05/2005 and 03/06/2010	Recorder Name Withheld	1 Adult Male; 5 Adult Male; 2 Adult Female; 8 Adult Male; 11 Adult Female; 13 Adult Male; 6 Adult Female; 1 Adult Male; 2 Adult Female; 2 Adult Female; 8 Adult Male; 3 Adult Male; 5 Adult Female; 5 Ad...	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P11 (C)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ38905012	4 records, between 12/05/2005 and 24/05/2005	Recorder Name Withheld	15 Adult (Sex Unknown); 1 Adult (Sex Unknown); 3 Adult Male; 1 Adult Female; 16 Adult (Sex Unknown)	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: P09 (X)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39525025	24/06/1992	Recorder Name Withheld					D1122/002/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3934250277 (Selected from Interactive Map)	15 records, between 13/05/2005 and 21/05/2013	Recorder Name Withheld	4 Adult Male; 1 Adult Female; 2 Adult Female; 5 Adult Male; 1 Adult Female; 7 Adult Male; 2 Adult Female; 1 Adult Male; 1 Adult Female; 1 Adult (Sex Unknown); 2 Adult Male; 1 Female; 4 Adult Male; 3 A...	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P09 (K)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3945350289 (Selected from Interactive Map)	21 records, between 04/05/2005 and 04/06/2013	Recorder Name Withheld	1 Adult Male; 4 Adult Male; 3 Adult Female; 9 Adult Male; 4 Adult Female; 1 Adult Male; 1 Adult Female; 7 Adult Male; 5 Adult Female; 5 Adult Male; 3 Adult Female; 2 Adult Male; 3 Adult Female; 2 Adul...	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P08 (J)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39145026	03/05/2005	Recorder Name Withheld	2 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P33 (U)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ39035023	9 records, between 12/05/2005 and 02/06/2010	Recorder Name Withheld	1 Adult Male; 1 Adult Female; 2 Adult Male; 1 Adult Female; 8 Adult (Sex Unknown); 3 Adult (Sex Unknown); 6 Adult (Sex Unknown); 4 Adult Male	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P32 (B)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ38915018 (Selected from Interactive Map)	13 records, between 11/04/2007 and 22/05/2007	Recorder Name Withheld	12 Adult Female; 10 Adult Male; 13 Adult Female; 19 Male; 34 Female; 31 Male; 10 Female; 17 Male; 41 Female; 13 Male; 16 Female; Egg; 48 Male; 55 Female; 29 Male; 9 Female; 6 Male; 8 Female; 5 Male; 4...	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: Phase 1, Ditch		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3973249879 (Selected from Interactive Map)	24/03/2010	Recorder Name Withheld	Frog Spawn	Torch Count	Wrexham Ind Estate - East: P19 (R)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ39505001 (Selected from Interactive Map)	07/04/2010	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P38 (Pond 7)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3962050012 (Selected from Interactive Map)	4 records, between 13/05/2013 and 04/06/2013	Recorder Name Withheld	Larva/Tadpole	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P18 (G)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ395500 (Selected from Interactive Map)	2 records, between 07/04/2010 and 21/04/2010	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P39 cluster (Ponds 3,4,5,6)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3910550060 (Selected from Interactive Map)	19/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P12 (D)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3888349963 (Supplied by Original Recorder)	17/05/2019	Recorder Name Withheld	2 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: Bryn Lane, Phase 2, P01		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3888049984 (Supplied by Original Recorder)	2 records, between 22/04/2015 and 29/04/2019	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: Bryn Lane, Phase 2, P02		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ390501	14/11/2015	Recorder Name Withheld	27	Pitfall Trap	Bryn Lane, Wrexham Industrial Estate	Trapped and translocated between October and November, mixture of adult and juveniles	D1672/001/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	4
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3910250172 (Selected from Interactive Map)	24/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P11 (C)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ39525025	24/06/1992	Recorder Name Withheld					D1122/002/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ38764858	09/06/1992	Recorder Name Withheld					D1122/002/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3934250277 (Selected from Interactive Map)	07/05/2013	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P09 (K)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ3945350289 (Selected from Interactive Map)	3 records, between 04/05/2005 and 24/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown); 4 Adult (Sex Unknown)	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P08 (J)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ38915018 (Selected from Interactive Map)	03/05/2007	Recorder Name Withheld	1	Torch Count	Wrexham Ind Estate - Central: Phase 1, Ditch		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ388501 (Selected from Interactive Map)	3 records, between 15/04/2013 and 19/06/2013	Recorder Name Withheld	Frog Spawn; Larva/Tadpole; 17 Adult (Sex Unknown); 4 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: Phase 1, General		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ391493 (Supplied by Original Recorder (Checked))	06/03/1999	Recorder Name Withheld	2 Male; 2 Female		Wrexham Industrial Estate	Torch survey of 2+ ponds	D0026/036/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39604918 (Supplied by Original Recorder)	2 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39604912 (Approximate)	1992	Recorder Name Withheld	Present		BICC cables		D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39094934 (Approximate)	2 records, between 1992 and 11/06/1992	Recorder Name Withheld	Present		BICC cables		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39614912 (Supplied by Original Recorder)	17/06/1992	Recorder Name Withheld					D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39584958 (Approximate)	3 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present		Cae Farm		D0137/001/01 , D1118/011/03 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ390493	3 records, all on 01/05/2004	Recorder Name Withheld	P Juvenile (Exact); P egg/ovum (Exact); P Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39044938 (Supplied by Original Recorder)	2 records, between 20/05/2004 and 09/06/2004	Recorder Name Withheld	6 Adult Male; 15 Adult Female; 1 Adult (Sex Unknown); 1 Adult Male; 7 Adult Female	Torch Count	Wrexham Ind Estate - East: P40		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39264898 (Approximate)	1992	Recorder Name Withheld	Present		Diamond Farm		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39034939 (Supplied by Original Recorder)	11/06/1992	Recorder Name Withheld				Probable record (supplied by local resident)	D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39024932 (Supplied by Original Recorder)	11/06/1992	Recorder Name Withheld				Probable record (supplied by local resident)	D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39534896 (Supplied by Original Recorder)	2 records, between 1992 and 03/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39584896 (Approximate)	1992	Recorder Name Withheld	Present		Diamond Farm		D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39484970 (Approximate)	2 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present				D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39624898 (Supplied by Original Recorder)	03/06/1992	Recorder Name Withheld					D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39584888 (Supplied by Original Recorder)	03/06/1992	Recorder Name Withheld					D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39844943 (Supplied by Original Recorder)	2 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39854915 (Approximate)	2 records, between 1992 and 03/06/1992	Recorder Name Withheld	Present		Cae Farm		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38944905 (Supplied by Original Recorder)	2 records, between 20/05/2004 and 09/06/2004	Recorder Name Withheld	1 Adult Male; 5 Adult Female; 7 Adult Female	Torch Count	Wrexham Ind Estate - Central: P17		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39064980 (Supplied by Original Recorder)	2 records, between 1992 and 11/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39714882 (Supplied by Original Recorder)	2 records, between 1992 and 03/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39404992 (Supplied by Original Recorder)	2 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present				D1122/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ388496	3 records, all on 04/04/2005	Recorder Name Withheld	231 Adult (Exact); 2 egg/ovum (Exact); 11 Juvenile (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ393499	03/05/2005 - 25/05/2005	Recorder Name Withheld	9 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3932649952	Before 23/03/2007	Recorder Name Withheld	9 Great Crested Newt (05)		Wrexham Industrial Estate	Terrestrial record	D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3932449953 (Selected from Interactive Map)	2 records, between 03/05/2005 and 12/05/2005	Recorder Name Withheld	9 Adult (Sex Unknown); 2 Adult Male	Torch Count	Wrexham Ind Estate - East: P15 (F)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3925549949 (Selected from Interactive Map)	03/05/2005	Recorder Name Withheld	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P14 (E)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ397498	03/05/2005 - 25/05/2005	Recorder Name Withheld	8 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ392499	03/05/2005 - 25/05/2005	Recorder Name Withheld	1 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3925249954	Before 23/03/2007	Recorder Name Withheld	1 Great Crested Newt (05)		Wrexham Industrial Estate	Terrestrial record	D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39794880 (Approximate)	2 records, between 1992 and 03/06/1992	Recorder Name Withheld	Present		Higher Oak		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3972949880	Before 23/03/2007	Recorder Name Withheld	8 Great Crested Newt (05)		School Farm		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3973249879 (Selected from Interactive Map)	12 records, between 13/05/2005 and 13/05/2013	Recorder Name Withheld	5 Adult Male; 2 Adult Female; 1 Adult (Sex Unknown); 2 Adult Male; 6 Adult Female; 1 Adult Male; 2 Adult Female; 1 Adult Male; 3 Adult Female; 3 Adult Female; 7 Adult Male; 2 Adult Male; 1 Adult Femal...	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P19 (R)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ389498	03/05/2005 - 25/05/2005	Recorder Name Withheld	13 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39505001 (Selected from Interactive Map)	2 records, between 07/04/2010 and 14/04/2010	Recorder Name Withheld	2 Adult Male; 3 Adult Female; 2 Adult Male; Egg	Torch Count	Wrexham Ind Estate - East: P38 (Pond 7)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3895149895 (Selected from Interactive Map)	8 records, between 03/05/2005 and 14/04/2010	Recorder Name Withheld	1 Adult Male; 1 Adult Female; 3 Adult Male; 4 Adult Female; 4 Adult (Sex Unknown); 5 Adult Male; 6 Adult Female; 5 Adult Male; 8 Adult Female; 10; 8 Adult (Sex Unknown)	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P13 (V)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39924980 (Approximate)	2 records, between 1992 and 17/06/1992	Recorder Name Withheld	Present		Barn farm		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39604861 (Approximate)	1992	Recorder Name Withheld	Present		The Smithy		D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38934990 (Supplied by Original Recorder)	17/06/1992	Recorder Name Withheld				Probable record (supplied by local resident)	D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ395500 (Selected from Interactive Map)	3 records, between 07/04/2010 and 21/04/2010	Recorder Name Withheld	1 Adult Female; 4 Adult Male; 5 Adult Female	Torch Count	Wrexham Ind Estate - East: P39 cluster (Ponds 3,4,5,6)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39624859 (Supplied by Original Recorder)	03/06/1992	Recorder Name Withheld				Probable record (supplied by local resident)	D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3950950068 (Selected from Interactive Map)	3 records, between 24/03/2010 and 14/04/2010	Recorder Name Withheld	1 Adult Male; 2 Adult Female; Egg; 2 Adult Male; 3 Adult Female; 1 Adult Male; 1 Adult Female	Torch Count	Wrexham Ind Estate - East: P36 (Pond 1)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3910550060 (Selected from Interactive Map)	03/05/2005	Recorder Name Withheld	1 Adult Male	Torch Count	Wrexham Ind Estate - East: P12 (D)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ390500	03/05/2005 - 25/05/2005	Recorder Name Withheld	1 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3911650079	Before 23/03/2007	Recorder Name Withheld	I GCN 05 (Terr Record)		Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39774860 (Supplied by Original Recorder)	2 records, between 1992 and 05/05/1992	Recorder Name Withheld	Present				D1122/001/01 , D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3888349963 (Supplied by Original Recorder)	29 records, between 25/04/2014 and 08/05/2020	Recorder Name Withheld	Egg; 2 Adult Female; 1 Adult Male; 3 Male; 2 Female; 1 Male; 1 Female; 2 Male; 3 Female; 2 Adult Male; 3 Adult Female; 1 Juvenile (Sex Unknown); 1 Adult Female; 8 Adult Male; 4 Adult Female	Not Applicable; Torch Count	Wrexham Ind Estate - Central: Bryn Lane, Phase 2, P01		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39704855 (Approximate)	2 records, between 1992 and 05/05/1992	Recorder Name Withheld	Present		The Smithy		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ388499	5 records, between 11/04/2007 and 22/05/2007	Recorder Name Withheld	1 Adult Male (Exact); P egg/ovum (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3888049984 (Supplied by Original Recorder)	32 records, between 25/04/2014 and 08/05/2020	Recorder Name Withheld	4 Adult Male; 3 Adult Female; Egg; 2 Adult Female; 2 Male; 2 Female; 1 Adult Male; 1 Adult Female; 2 Adult Male; 3 Adult Male; 1 Female; 1 Male	Torch Count; Not Applicable	Wrexham Ind Estate - Central: Bryn Lane, Phase 2, P02		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3888349996 (Supplied by Original Recorder)	19 records, between 22/04/2015 and 08/05/2020	Recorder Name Withheld	2 Adult Male; 2 Adult Female; Egg; 1 Male; 3 Adult Female; 1 Adult Male; 5 Adult Male; 1 Female; 1 Adult (Sex Unknown)	Torch Count; Not Applicable	Wrexham Ind Estate - Central: Bryn Lane, Phase 2, P03		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ389500	03/05/2005 - 25/05/2005	Recorder Name Withheld	10 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ396501	03/05/2005 - 25/05/2005	Recorder Name Withheld	13 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3957950187	Before 23/03/2007	Recorder Name Withheld	13 Great Crested Newt (05)		Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3958050192 (Selected from Interactive Map)	8 records, between 03/05/2005 and 23/04/2013	Recorder Name Withheld	5 Adult (Sex Unknown); 1 Adult Male; 1 Adult Female; 4 Adult Male; 9 Adult Female; 1 Adult Male; 1 Adult Male; 2 Adult Female	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P17 (H)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ390501	14/11/2015	Recorder Name Withheld	5 Adult	Pitfall Trap	Bryn Lane, Wrexham Industrial Estate	Trapped and translocated between October and November	D1672/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3910250172 (Selected from Interactive Map)	4 records, between 03/05/2005 and 28/04/2010	Recorder Name Withheld	1 Adult (Sex Unknown); 1 Adult Male; 2 Adult Male; 1 Adult Female; 7 Adult Male; 1 Adult Female	Torch Count; Bottle Trap	Wrexham Ind Estate - East: P11 (C)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38905012	2 records, between 12/05/2005 and 20/05/2005	Recorder Name Withheld	5 Adult (Sex Unknown); 1 Adult Male; 1 Adult Female	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: P09 (X)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ389501	9 records, between 19/04/2007 and 22/05/2007	Recorder Name Withheld	2 Adult Female (Exact); 7 Adult Male (Exact); 3 Adult Female (Exact); 2 Adult Male (Exact); 3 Adult Male (Exact); 8 Adult Male (Exact); 1 Adult Female (Exact); P egg/ovum (Exact); 1 Adult Male (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ392502	03/05/2005 - 25/05/2005	Recorder Name Withheld	6 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3920050242	Before 23/03/2007	Recorder Name Withheld	6 Great Crested Newt (05)		Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39525025 (Supplied by Original Recorder)	24/06/1992	Recorder Name Withheld				Probable record (supplied by local resident)	D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3910250227	Before 23/03/2007	Recorder Name Withheld	Max Count 1 GCN (Terrestrial)		Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38764858 (Approximate)	2 records, between 1992 and 09/06/1992	Recorder Name Withheld	Present		Pickhill Bridge farm		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39345027 (Approximate)	2 records, between 1992 and 24/06/1992	Recorder Name Withheld	Present		Cheetham Owens Fibreglass		D0137/001/01 , D1122/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3934250277 (Selected from Interactive Map)	25/05/2005	Recorder Name Withheld	1 Adult Female	Bottle Trap	Wrexham Ind Estate - East: P09 (K)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38744858	May 2015	Recorder Name Withheld	Peak count; 5		Pickhill, Pond 1	GCN survey	D1725/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3945350289 (Selected from Interactive Map)	21 records, between 04/05/2005 and 04/06/2013	Recorder Name Withheld	1 Adult Male; 2 Adult Male; 1 Adult Female; 5 Adult Male; 9 Adult Female; 1 Adult Male; 1 Adult (Sex Unknown); 6 Adult Male; 7 Adult Female; 11 Adult (Sex Unknown); 14 Adult (Sex Unknown); 3 Adult Mal...	Bottle Trap; Torch Count	Wrexham Ind Estate - East: P08 (J)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39145026	03/05/2005	Recorder Name Withheld	6 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - East: P33 (U)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3903250230	Before 23/03/2007	Recorder Name Withheld	Max Count 2 GCN (05)		Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ39035023 (Selected from Interactive Map)	4 records, between 24/05/2005 and 08/04/2019	Recorder Name Withheld	1 Egg; 1 Adult Female; 3 Adult Male; 1 Adult Female; 2 Adult (Sex Unknown)	Bottle Trap; Torch Count	Bryn Lane, Wrexham Industrial Estate	Egg search - confirmed present.	D1696/001/01 , D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38915018 (Selected from Interactive Map)	7 records, between 11/04/2007 and 22/05/2007	Recorder Name Withheld	1 Adult Male; 2 Male; Egg; 7 Male; 2 Female; 9 Male; 5 Female; 4 Male; 2 Male; 1 Female	Bottle Trap; Torch Count	Wrexham Ind Estate - Central: Phase 1, Ditch		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ388501 (Selected from Interactive Map)	6 records, between 11/04/2007 and 19/06/2013	Recorder Name Withheld	14 Maximum Count; 17 Adult Male; 11 Adult Female; Egg; 2 Adult Male; 9 Adult Female; Egg; 10 Adult Male; 12 Adult Female; Egg; P Adult Female (Exact); 1 Adult Female (Exact)	Live Sighting; Torch Count	Bryn Lane Recycling Centre	Tourch light survey	D1117/001/01 , D1320/014/01 , D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ390502	2 records, both on 03/05/2005	Recorder Name Withheld	2 Adult (Exact); 1 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3919250294	Before 23/03/2007	Recorder Name Withheld			Wrexham Industrial Estate		D1118/011/03	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ389502	03/05/2005 - 25/05/2005	Recorder Name Withheld	1 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ394503	03/05/2005 - 25/05/2005	Recorder Name Withheld	3 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ395503	03/05/2005 - 25/05/2005	Recorder Name Withheld	6 Adult (Exact)				D1923/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Vipera berus</i> (Adder / Gwiber)	SJ3849	2 records, both in 1999	Recorder Name Withheld			Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D0035/002/01 , D1076/001/02	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4

Statutory Sites returned by search	None
Wildlife Sites intersecting 1000m buffer	W337: Wrexham Industrial Estate (371m)
Ancient Woodland sites (if searched)	None
Phase I Habitats intersecting 1000m buffer (Habitat at central point shown in red, if found)	A.1.1.2: Planted Broad-leaved Woodland (0.27% / 8,482 sq.m), A.1.2.2: Planted Coniferous Woodland (0.26% / 8,143 sq.m), A.2.1: Dense Scrub (8.24% / 258,688 sq.m), B.2.2: Semi-improved Neutral Grassland (4.14% / 130,057 sq.m), B.4: Improved Grassland (51.04% / 1,603,320 sq.m), C.3.1: Tall Ruderal Herb (0.26% / 8,106 sq.m), G.1: Standing Water (0.53% / 16,644 sq.m), G.2: Running Water (0.69% / 21,779 sq.m), J.1.1: Arable (5.03% / 158,150 sq.m), J.1.2: Amenity Grassland (4.1% / 128,871 sq.m) , J.1.3: Ephemeral/Short Perennial (0.34% / 10,767 sq.m), J.3.6: Buildings (21.24% / 667,123 sq.m), J.4: Bare Ground (0.07% / 2,335 sq.m), NA: Not Accessed Land (1.41% / 44,434 sq.m)



-  Dense/ continuous scrub
-  Individual broad-leaved tree
-  Scattered scrub
-  Unimproved neutral grassland
-  Amenity grassland
-  Ephemeral/ short perennial
-  Building
-  Hard-standing
-  Fence
-  Approximate survey site boundary
-  Approximate proposed development site
-  Target Note

C441 Proposed Development at James Jones & Sons Ltd, off Oak Road, Wrexham Industrial Estate, Wrexham - Preliminary Ecological Appraisal

Figure 1 - Extended Phase 1 Habitat Survey

Date: 02/02/2021

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