

Report Title	Proposed Development, Plot B, Site 4000, Clywedog Road South, Wrexham Industrial Estate, Wrexham – Preliminary Ecological Appraisal
Date issued	25th June 2020
Author	Tom Knight
Report Version	C419/ 1.1
Client	Alpine Engineering Ltd
Contract Ref.	C419

this report was produced by

marches ecology

**Unit 23, The Malthouse Business Centre,
Regent Street, Llangollen, Denbighshire, LL20 8HS
01978 860889**

Marches Ecology is the trading name of Marches Ecology LLP, Partnership No. OC362423, Registered in England and Wales. Registered address: Unit 23, The Malthouse Business Centre, Regent Street, Llangollen, Denbighshire, LL20 8HS.

Quality Assurance

Survey/ Assessment Work Schedule		
Survey/Assessment Type	Surveyors/ Author	Date
Extended Phase 1 Habitat Survey	Tom Knight	17/03/20
Ecological background data search	Max Ellson	February 2020

Review Schedule				
Issue	Date	Author	Reviewed by	Approved by
1.0	17/06/20	Tom Knight	Max Ellson	Max Ellson
1.1	25/06/20	Tom Knight	Max Ellson	Max Ellson

This report has been prepared by Marches Ecology with all reasonable skill, care and diligence within the terms of the Contract with the client.

The terms of this Contract have been fulfilled by Marches Ecology in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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.

CONTENTS

1	INTRODUCTION.....	4
1.1	PROJECT BACKGROUND	4
1.2	REPORT AUTHOR	4
1.3	SITE DESCRIPTION AND CONTEXT	5
1.4	THE DEVELOPMENT.....	5
1.5	PLANNING POLICY	5
1.6	LEGISLATION	9
2	METHODOLOGY.....	11
2.1	DESK STUDY.....	11
2.2	FIELD SURVEY	11
2.3	SURVEY LIMITATIONS.....	12
2.4	EVALUATION.....	12
3	BASELINE ECOLOGICAL CONDITIONS	14
3.1	PROTECTED SITES	14
3.2	HABITATS AND FLORA.....	14
3.3	SPECIES/ SPECIES GROUPS.....	20
4	EVALUATION, ASSESSMENT AND RECOMMENDATIONS	24
4.1	INTRODUCTION.....	24
4.2	EVALUATION, ASSESSMENT AND RECOMMENDATIONS.....	24
5	TARGET NOTES	31
6	REFERENCES.....	33
7	DATA.....	35
8	APPENDIX 1 - SPECIES-SPECIFIC LEGISLATION.....	37
8.1	INTRODUCTION.....	37
8.2	BADGER.....	37
8.3	BATS	37
8.4	OTTER.....	37
8.5	WATER VOLE	38
8.6	GREAT CRESTED NEWT.....	38
8.7	REPTILES.....	39
8.8	BIRDS	39
9	APPENDIX 2 – DATA SUPPLIED BY COFNOD (PUBLIC VERSION).....	40

Figure 1 – Site Boundary

Figure 2 – Extended Phase 1 Habitat Survey

1 INTRODUCTION

1.1 Project Background

1.1.1 Marches Ecology was commissioned by Alpine Engineering Ltd to undertake a Preliminary Ecological Appraisal of land at Plot B, Site 4000, Clywedog Road South, Wrexham Industrial Estate, Wrexham (approximate OS Grid Ref. SJ 370 488). 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.

1.1.2 The current application concerns a small industrial unit proposed to be constructed on the northern part of the site. It is also proposed to construct a similar unit on the southern part of the site though this would be the subject of a future planning application. The proposed mitigation/ compensation measures address the perceived impacts of the proposal across the whole site (e.g. construction of both units). The boundary of the site for the purpose of this PEA is shown on *Figure 1* and includes both the application site and future development site. The whole site is henceforth referred to as the survey site.

1.1.3 The survey site was previously subject to survey in 2018 and the PEA (Arbtech 2018) produced was submitted in support of the same planning application. Following the submission of this report Wrexham County Borough Council (WCBC) requested the provision of further information. The main purpose of this report is to review and update the findings of the previous Appraisal, and to provide the information requested.

1.1.4 This report has three key aims:

- to provide/ review an initial appraisal of the ecological value of the site and local ecological resource and thereby identify ecological constraints relevant to the development;
- to identify further surveys that may be required; and
- to identify/ review 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).

1.1.5 An Ecological Mitigation Method Statement (EMMS) (Marches Ecology 2020) has also been produced in support of this planning application. This PEA should be read and used in conjunction with the information provided in the aforementioned report.

1.2 Report Author

1.2.1 This report was produced by Tom Knight of Marches Ecology. Tom Knight is an ecologist with over twenty 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).
- PgDip Conservation Management.
- BSc (Hons) Environmental Studies.

- C&G Biological Surveying.

1.3 Site Description and Context

- 1.3.1 The survey site extends to approximately 0.48 hectares. It is located to the immediate west of Clywedog Road South on the southwestern edge of Wrexham Industrial Estate. Clywedog Road South forms the eastern boundary of the proposed development site while there is a ditch along the northern boundary. This ditch flows into a second ditch that is aligned parallel to the eastern boundary. The western boundary is partly formed by a line of scrub. To the south the proposed development site is directly bordered by hard-standing.
- 1.3.2 The proposed development site is bordered to the north and south by small office buildings and industrial units. On the opposite side of Clywedog Road South there is a large undeveloped plot that is characterised by species-rich unimproved neutral grassland, stands of tall ruderals, scattered scrub and trees. The western boundary is bordered by open countryside with arable and pasture fields.

1.4 The Development

- 1.4.1 The proposed layout is illustrated on a hand-drawn plan entitled '*Proposed Industrial Units at Clywedog Road, Wrexham Industrial Estate*, dwg. no. AE 20.03 (undated). This plan shows a small industrial unit aligned parallel with the northern site boundary. This building measures 50 m long by 15 m wide. A new 6 m wide road access would be provided off Clywedog Road South. The ditch close to the eastern site boundary would be culverted beneath this road. The area within the application site to the south of the proposed building would be laid to hard-standing (the kerb-line of which is not shown). It is believed that the surface treatment would be tarmacadam. 16 car parking spaces are defined.
- 1.4.2 Two further plans with the same title (Dwg nos. AE18.02 and AE18.03 (undated)) present the proposed elevations/ floor plan. The proposed building would be a single-storey portal frame structure with metal sheet cladding.
- 1.4.3 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).*

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*

¹ References to the relevant part of PPW.

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 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*.

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

- 1.6.2 Transposes 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, Otters (*Lutra lutra*) and Great Crested Newt (*Triturus cristatus*).

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

- 1.6.3 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, Otter, Water Vole (*Arvicola amphibius*), 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)

- 1.6.4 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)

- 1.6.5 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

- 1.6.6 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)

- 1.6.7 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 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*).
- 2.1.3 In addition to the data search, the previous PEA (Arbtech 2018) has been reviewed and any relevant information is included in this report.

2.2 Field Survey

Extended Phase 1 Habitat Survey

- 2.2.1 The Extended Phase 1 Habitat Survey was carried out on 17th March 2020 by Tom Knight 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*). Immediately adjacent habitat was considered where deemed appropriate and viewed from the survey site boundary where possible. The weather during the survey was generally sunny with 80-90% white cloud and a light to moderate breeze.
- 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 7*). Plant nomenclature in this report follows Stace (2010). March 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).
- Otter. The assessment method was adapted from that described in JNCC (2004a).
- Water Vole. The potential value of available habitat for Water Voles was assessed in accordance with guidance provided in Dean *et al.* (2016) and JNCC (2004a).
- 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 (2004b).

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 9*) which may have obscured evidence of use of the survey site by protected/ notable species.
- It was difficult to establish where the northwest boundary of the survey site was within the woodland at *Target Note 7*.

None of the survey limitations listed above significantly affected the findings of the survey and therefore the conclusions and prescribed mitigation measures.

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 survey site. The closest such site is 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 is located approximately 2.9 km to the southeast at its closest point.

Non-statutory

- 3.1.2 There is one non-statutory designated site within 1 km of the survey site: Cefn Park (W316) Wildlife Site (WS). It is located approximately 895 m to the north of the survey site at its closest point. This WS comprises a series of semi-natural broad-leaved woodlands and patches of fen within Cefn Park Estate. Big Wood is the largest woodland block (and nearest to the survey site), with other blocks known as Rhododendron Spinney, Clays Plantation and Redwither Wood. The woodland resource supports a rich ground flora.
- 3.1.3 There are four areas of Ancient Semi-natural Woodland (ASNW), and one Restored Ancient Woodland Site (RAWS) within 1 km of the survey site. The nearest ASNW site is located approximately 520 m to the northeast of the survey site and appears to be associated with Redwither Brook. Two other ASNW sites and the RAWS are located in a cluster associated with the Afon Clywedog, approximately 580 m to the southwest of the survey site at its closest point. The remaining ASNW site is associated with Big Wood which is approximately 895 m to the north of the survey site at its closest point.

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 11a) are provided in *Section 5* and shown on *Figure 1*.

Woodland

- 3.2.2 There is a narrow strip of fairly open semi-natural broad-leaved woodland/ scrub in the northwest corner of the site (*Target Note 7*). It is part of a larger resource that extends further along this western edge of Wrexham Industrial Estate. It is difficult to establish where the northwest boundary of the survey site is within the woodland. Most of the trees are young or semi-mature. The largest trees are a *Quercus robur* (Pedunculate Oak) with an approximate diameter at breast height (dbh) of 0.4 m and a number of *Acer pseudoplatanus* (Sycamore) and *Fraxinus excelsior* (Ash) trees with approximate dbh's of 0.3 m.
- 3.2.3 The canopy includes frequent Sycamore, occasional Ash and a small amount of Pedunculate Oak. The shrub layer contains frequent *Crataegus monogyna* (Hawthorn). The ground flora contains locally abundant *Hedera helix* agg. (Ivy), locally frequent *Rubus fruticosus* agg. (Bramble), occasional *Arum maculatum* (Lords-and-ladies), *Heracleum sphondylium* (Hogweed) and *Galium aparine* (Cleavers).



The woodland/ scrub at *Target Note 7*.

Trees and Scrub

- 3.2.4 All of the trees within the survey site (outside the woodland at *Target Note 7*) are young/ saplings. The tree at *Target Note 4* is typical of this resource. It is a young Ash with an approximate dbh of 0.25 m. Other trees scattered throughout the survey site include Ash, Sycamore, *Acer campestre* (Field-maple), *Prunus* sp. and Willows.
- 3.2.5 There is a small number of *Prunus* sp. trees close to the northern boundary of the survey site (*Target Notes 4* and *4a*). It is believed that these trees are of planted origin.
- 3.2.6 There are patches of dense or scattered scrub throughout many parts of the survey site (*Target Notes 2, 3, 6, 7, 8* and *9*). Much of this resource is characterised by Bramble growing in a mosaic with unmanaged grassland and stands of tall ruderals.
- 3.2.7 There are scattered young trees along with Hawthorn and *Prunus spinosa* (Blackthorn) shrubs, and Bramble scrub along the banks of the ditch at *Target Note 3*. Some of the Bramble extends into adjacent areas of grassland. There is a broad band of scrub dominated by Blackthorn adjacent to the western survey site boundary (*Target Note 8*). This extends to the south into a further area of scrub dominated by Blackthorn and/ or Bramble (*Target Note 9*). There is a patch of semi-mature Hawthorn scrub on a small, low mound, approximately 5 m by 4 m and up to 1.5 m high at *Target Note 6*.



The scrub along the ditch at Target Note 3.



Some of the scrub at Target Note 9.

Grassland

- 3.2.8 Most of the centre of the survey site (*Target Note 11*) is characterised by unmanaged species-poor neutral grassland dominated by *Holcus lanatus* (Yorkshire-fog) and *Dactylis glomerata* (Cock's-foot) with abundant *Anthriscus sylvestris* (Cow Parsley), occasional Hogweed and *Cirsium arvense* (Creeping Thistle). The sward height is often over 1 m.
- 3.2.9 More locally there are patches of more species-rich neutral grassland (*Target Note 11a*) characterised by abundant *Centaurea nigra* (Common Knapweed), locally frequent *Festuca rubra* (Red Fescue), *Carex nigra* (Common Sedge), occasional *Achillea millefolium* (Yarrow), *Ranunculus acris* (Meadow Buttercup), *Potentilla reptans* (Creeping Cinquefoil) and lesser amounts of *Primula veris* (Cowslip), *Deschampsia cespitosa* (Tufted Hair-grass), *Lathyrus pratensis* (Meadow Vetchling) and *Leucanthemum vulgare* (Oxeye Daisy).



Species-poor neutral grassland at Target Note 11.



Moderately species-rich neutral grassland at Target Note 11a.

- 3.2.10 The verge adjacent to Clywedog Road South (*Target Note 2*) is currently unmanaged and supports a mosaic of patches of Bramble scrub with stands of tall ruderals including Cow Parsley, Hogweed, *Chaerophyllum temulum* (Rough Chervil), *Cirsium vulgare* (Spear Thistle) and Creeping Thistle, and moderately species-rich neutral grassland characterised by Cock's-foot, *Elytrigia repens* (Common Couch), *Schedonorus arundinaceus* (Tall Fescue) and Common Knapweed.

Watercourses

- 3.2.11 The ditch at *Target Note 3* is approximately 1.3 m wide at water level and holds water to a depth of 0.1-0.2 m deep. It largely has a moderate flow rate though there are some 'ponded' sections where trees/ debris hold up the flow. The ditch bed appears to be entirely constructed of concrete and there are concrete slabs along the banks to an approximate

height of 1 m. The bank tops are approximately 3 m above the water level and have a slope of 45°. The marginal vegetation is limited to occasional *Veronica beccabunga* (Brooklime), *Apium nodiflorum* (Fool's Water-cress) and *Epilobium hirsutum* (Great Willowherb). No aquatic vegetation was visible.

- 3.2.12 The bank-side vegetation – particularly Bramble, Hawthorn and Blackthorn – is growing over the channel in places. Approximately half of the ditch within the survey site is overhung by scrub/ trees. Elsewhere the banks support unmanaged grass, tall ruderals and Bramble.



Part of the ditch at Target Note 3.

- 3.2.13 The ditch at Target Note 5 forms the northern survey site boundary (and is located immediately outside the survey site) and is approximately 0.7 m wide at water level and holds water to a depth of 0.05 m deep. It has a moderate flow. Weld mesh has been laid across the bed and the opposite bank to the survey site. Marginal vegetation is limited to a small amount of Great Willowherb. No aquatic vegetation was visible. The bank tops are approximately 2-2.5 m above the water level and have a slope of 45°.



Part of the ditch at Target Note 5.

Other Habitat

- 3.2.14 Stands of tall ruderals are present throughout the site though they are largely too small to map.

Flora

- 3.2.15 None of the plant records provided by Cofnod are from within the survey site. Notable records from the 1 km search area include *Ophioglossum vulgatum* (Adder's-tongue), *Ononis spinosa* (Spiny Restharrow), *Medicago arabica* (Spotted Medick), *Sinapis arvensis* (Charlock), *Polemonium caeruleum* (Jacob's-ladder), *Salix xholosericea* (Silky-leaved Osier), and *Calamagrostis epigejos* (Wood Small-reed) (single records), and occasional records for *Populus nigra* ssp. *betulifolia* (Black-poplar), *Lathyrus nissolia* (Grass Vetchling), *Dactylorhiza xgrandis* (Hybrid Marsh-orchid), *Crepis biennis* (Rough Hawk's-beard), and *Silaum silaus* (Pepper-saxifrage).
- 3.2.16 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) (the closest location from the survey site being on the Afon Clywedog, approximately 450 m to the southwest) and *Impatiens glandulifera* (Indian Balsam) (recorded from an adjacent 1 km grid square to the survey site).

3.3 Species/ Species Groups

Badgers

- 3.3.1 No setts were recorded within the survey site. Opportunities for sett excavation within the survey site are limited to sloping ground, the ditch banks and dense vegetative cover (e.g. the woodland at *Target Note 7* and scrub at *Target Note 6*).
- 3.3.2 A well used Badger path was recorded across the survey site, more-or-less parallel with the northern boundary (*Target Note 1*). This path crosses the ditch (*Target Note 3*) across the trunk of a Willow tree. It subsequently crosses Clywedog Road South to the east of the survey site. To the west the path exits the survey site to adjacent farmland via the woodland at *Target Note 7*. The path does split here with a second path entering the woodland. Some short sections of Badger path were noted entering the wider survey site from this well used path. Other evidence may have been obscured by dense vegetation.
- 3.3.3 A number of recent Badger footprints were recorded along the edge of an arable field just outside the survey site boundary (*Target Note 10*). There is a breach from this field into the survey site.
- 3.3.4 The grassland and woodland within the survey site provide habitat of moderate potential value for foraging.
- 3.3.5 Cofnod provided three Badger sett records from within the 1 km search area, the closest being from approximately 540 m away from the survey site, on the opposite side of Pentre Maelor (this comprises a 2003 record for a single hole, active sett).

Bats

- 3.3.6 There are a small number of trees within the survey site most of which are young/ saplings. The young Ash at *Target Note 4* is one of the larger trees within the survey site (outside the woodland at *Target Note 7*) and has an approximate diameter at breast height (dbh) of 0.25 m. None of the trees within the survey site (outside the woodland at *Target Note 7*) are of sufficient age/ size to contain features of potential value for roosting bats.
- 3.3.7 The trees within the woodland at *Target Note 7* are young or semi-mature. A small number of these trees could be of sufficient age/ size to contain features of potential value for roosting bats. The trees within this woodland were not individually assessed for their potential value to roosting bats.
- 3.3.8 The improved grassland pasture and hedgerows to the west of the survey site contain a number of mature/ senescent trees that are more likely to provide features of potential value for roosting bats.
- 3.3.9 The mosaic of unimproved, unmanaged grassland, tall ruderal vegetation, scrub, woodland and the ditch that characterises the survey site is likely to be of moderate to high potential value for foraging/ commuting bats. The sheltered edges of scrub, linear features such as the ditch corridors and the open woodland at *Target Note 7* are likely to be of particular potential value.
- 3.3.10 Cofnod provided records of two species of bat for within the 1 km search area: Whiskered Bat (*Myotis mystacinus*) and 'Unknown Bat'. The closest of these records to the survey site is for a Whiskered Bat from approximately 220 m away. Marches Ecology has also recorded Brown Long-eared Bat (*Plecotus auritus*) from Wrexham Industrial Estate.

Otter

- 3.3.11 The only watercourse within the survey site is the ditch at *Target Note 3*, with that at *Target Note 5* just outside the site. Neither of these ditches is likely to be of particular value for Otters (e.g. in providing a food source) however it is possible that animals could follow these corridors to reach other parts of their territory. The ditch at *Target Note 3* flows into the River Clywedog approximately 515 m south of the survey site though the final section beneath Bridge Road South and Five Fords Roundabout appears to be culverted.
- 3.3.12 No evidence of Otter activity was recorded though a full survey has not been undertaken.
- 3.3.13 Cofnod provided no records for Otter within the 1 km search area. However, they are known to be present on the River Clywedog.

Water Vole

- 3.3.14 Both ditches within/ adjacent to the survey site have reinforced channels, shallow water levels and very little in-channel vegetation. These watercourses do not provide suitable habitat for Water Voles. Cofnod provided no records for Water Vole within the 1 km search area. This species will not be considered further in this report.

Great Crested Newts

- 3.3.15 Beyond the ditch at *Target Note 3* there are no other waterbodies within the survey site. Generally Great Crested Newts do not use features with flowing water however it is known that they have been recorded from this ditch further to the north of the survey site (E. Broad, *pers. comm.*). The ditch at *Target Note 3* largely has a moderate flow rate though there are some 'ponded' sections where trees/ debris hold up the flow. It is these ponded sections, where there are small stands of potential egg-laying plants, that could be of potential value to Great Crested Newts. Most of the ditch within the survey site is unlikely to be of value to Great Crested Newts due to the flow rate, shading by adjacent scrub/ trees, shallow depth of water and absence of marginal/ aquatic vegetation. However, short ponded sections such as that upstream of the Willow at *Target Note 1*, are considered to provide potential aquatic habitat, albeit of sub-optimal quality.
- 3.3.16 An initial review of the OS map 1:25, 000 scale and relevant internet-based mapping including aerial photography² indicates that there may be two shallow waterbodies within approximately 250 m of the survey site (excluding ditches). These two waterbodies are located in a field to the northwest of the survey site the closest of which is 128 m away. Marches Ecology surveyed these waterbodies in 2010 under an unrelated commission. At this time, they were described as shallow depressions with no more than 25 cm of surface water. Small numbers of Great Crested Newt eggs were recorded in both in 2010. A detailed pond scoping exercise has not been undertaken to confirm the presence/ absence of these waterbodies.
- 3.3.17 The survey site is characterised by unmanaged grassland, scrub and woodland that provides high quality potential terrestrial habitat for Great Crested Newts. This terrestrial habitat is linked to further high quality terrestrial habitat outside the survey site to the northwest as the woodland at *Target Note 7* extends along the western edge of the Industrial

² <https://www.google.com/maps/place/Wrexham+Industrial+Estate,+Wrexham/@53.0340122,-2.9414144,692m/data=!3m1!1e3!4m5!3m4!1s0x487ac101edfa6ee3:0x7abb47f3e7649959!8m2!3d53.0407097!4d-2.933489>

Estate, and along a hedgerow to the west. There is high quality terrestrial habitat on the opposite side of Clywedog Road South associated with a currently vacant plot.

- 3.3.18 Cofnod provided fourteen records for Great Crested Newt from the 1 km search area. The closest of these records to the survey site are from two adjacent waterbodies, the closest of which is located approximately 290 m west of the survey site. The closest of these waterbodies has a 2001 record for a maximum count of five individuals. The adjacent waterbody has a maximum count of four individuals (over six years of recording between 2001 and 2009). Otherwise most of the records are from the north/ east of the survey site, with a particular cluster around the prison.
- 3.3.19 Cofnod provided three records of Palmate Newt (*Lissotriton helveticus*), nine records of Smooth Newt (*Lissotriton vulgaris*) and six records of both Common Toad (*Bufo bufo*) and Common Frog (*Rana temporaria*) from the 1 km search area.

Reptiles

- 3.3.20 The mosaic of unimproved, unmanaged grassland, tall ruderal vegetation, scrub and woodland that characterises the survey site provides habitat of high potential value for reptiles. However, Marches Ecology has 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. These surveys included one on a site to the north of the existing survey site, further along Clywedog Road South, in 2010. This site supported a larger area of unmanaged grassland and scrub.
- 3.3.21 Cofnod provided records of Adder (*Vipera berus*) and Slow-worm (*Anguis fragilis*) from the 1 km search area. One record is dated 'before 2009', with the other two records dated 1999. The dates and locations are the same for both species. The closest area to the survey site from which reptiles have previously been recorded is the prison, approximately 1 km to the east.

Birds

- 3.3.22 Twenty species of bird were recorded during the Extended Phase 1 Habitat Survey either within the survey site or flying over it. The Dunnock (*Prunella modularis*), Long-tailed Tit (*Aegithalos caudatus*), Kestrel (*Falco tinnunculus*) and Herring Gull (*Larus argentatus*) are priority species³. Pairs of Dunnock and Long-tailed Tit were recorded nest-building in the scrub at Target Note 9, and they could also nest elsewhere within the survey site. The survey site provides nesting opportunities for species of bird associated with trees, scrub, and possibly stands of tall ruderals.
- 3.3.23 Cofnod provided a large number of bird records from within 1 km of the survey site (though none from within it) largely with four-figure grid references. Records of possible relevance to the survey site include Dunnock, Starling (*Sturnus vulgaris*), Fieldfare (*Turdus pilaris*), Bullfinch (*Pyrrhula pyrrhula*), Song Thrush (*Turdus philomelos*), Barn Owl (*Tyto alba*), Swallow (*Hirundo rustica*), Willow Warbler (*Phylloscopus trochilus*) and Whitethroat (*Sylvia communis*). Species such as Bullfinch, Song Thrush, Willow Warbler and Whitethroat could potentially nest within the survey site. The grassland provides suitable hunting habitat for the Barn Owl.

³ As defined in CIEEM (2017a).

Other Species

- 3.3.24 Cofnod provided a large number of butterfly and moth records within 1 km of the 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*), White-letter Hairstreak (*Satyrrium w-album*) and Cinnabar (*Tyria jacobaeae*). The closest record for Dingy Skipper is from approximately 450 m north of the survey site, and 480 m to the southeast for Grizzled Skipper.
- 3.3.25 The survey site is unlikely to be of potential value for either species of Skipper, Wall or the White-letter Hairstreak. It could possibly support the Small Heath and Cinnabar though the latter would be restricted by the limited amount of Ragwort present.
- 3.3.26 Cofnod provided several records of other invertebrates, largely with four figure grid references, none of which are from the survey site.
- 3.3.27 Cofnod provided a single record for Hedgehog (*Erinaceus europaeus*) from the 1 km search area, this being from approximately 500 m to the east of the survey site. A small number of Atlantic Salmon (*Salmo salar*) and Eel (*Anguilla anguilla*) records were also provided from the Afon Clywedog, which passes to the south of the survey site (approximately 440 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 habitats and flora, and specific species groups in the section below. Potential impacts have been considered with reference to the plans provided only. This assessment considers the proposed development site and immediately surrounding area. As explained in *Section 1.1* the assessment of impacts and proposed mitigation/ compensation consider both the current application site and the future development site.

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 directly impacted.
- 4.2.2 Potential indirect impacts that require consideration are likely to be limited to aerial emissions during the operation phase. The survey site is located within the 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.
- 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'. The footprint of the proposed development is 750 m² without the future development site.
- 4.2.4 It is understood that the first unit would be occupied by Alpine Engineering Ltd. The second unit is likely to provide similar industrial/ light manufacturing premises for an as-yet unknown company. Due to the likely nature of these businesses, scale of the site and distance to the River Dee it is 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 is located 895 m away from the survey site. No indirect impacts are anticipated.

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

Habitat

4.2.6 The proposed development site includes the following habitat resources:

- Unimproved neutral grassland;
- Tall ruderal vegetation;
- Dense and scattered scrub;
- Semi-natural broad-leaved woodland;
- Individual trees; and
- A stretch of ditch.

4.2.7 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 value⁵. The habitat within the site when considered as a whole is likely to be of local value. Similarly, the semi-natural broad-leaved woodland when considered as a whole (as part of that largely located outside the survey site) may be of local value. No further survey of this habitat resource is considered necessary at this time and no particular mitigation measures are proposed (other than the avoidance/ best practice measures detailed below). The loss of these habitat resources would not give rise to a significant impact.

4.2.8 An ecological mitigation area (EMA) is to be provided largely to offset perceived impacts on Great Crested Newts and to some extent other valued ecological resources. Small areas of scrub and rough grassland, and the woodland at *Target Note 7* would be retained within this EMA. It is also proposed to create a new pond and plant a new hedge. Broad details of proposed management of the EMA are provided in the EMMS which should be referred to for further information.

4.2.9 Prior to the start of construction or preparatory operations temporary protective fencing will be installed around the inside of the EMA. The fence is to be installed so as to avoid inadvertent disturbance of the retained habitat within the EMA.

4.2.10 The EMMS details general best practice measures to be implemented during the construction phase to avoid any indirect impacts (e.g. dust, diffuse pollution, etc) on adjacent habitat.

4.2.11 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

4.2.12 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 survey site. No plants listed in *Schedule 9 to the Wildlife and Countryside Act 1981* (as amended) were recorded. No further survey of the flora within the site and no specific mitigation measures are currently considered necessary.

4.2.13 A number of Ash saplings within the survey site that exhibited the symptoms of 'Ash dieback' caused by the fungus *Hymenoscyphus fraxineus* were recorded. Due to the likely presence of Ash dieback on the site basic biosecurity measures will be required particularly when undertaking initial vegetation clearance. Best practice guidance is available on the Natural

⁵ In accordance with CIEEM (2018).

Resources Wales website⁶⁷. Biosecurity measures will form a requirement of the Great Crested Newt licence application (see below).

Fauna

Badgers

- 4.2.14 No setts were recorded within the survey site and opportunities for sett excavation are limited. A well used path crosses the survey site from west to east close to the northern boundary. The evidence also indicates that Badgers may forage across some parts of the survey site which provides foraging habitat of moderate potential value. Badgers travel along the edge of the arable field to the west of the survey site and enter the survey site from this field. The proposal will result in the loss of most of the foraging habitat within the survey site and has the potential to interrupt the currently used routes across the survey site.
- 4.2.15 The proposed development would result in the loss of most of the current foraging habitat. A small amount of rough grassland, scrub and woodland would be retained within the EMA. Larger areas of potential foraging habitat would remain available outside the survey site, to the west and east.
- 4.2.16 The arrangement/ layout of the EMA seeks to maintain habitat connectivity across the site for all wildlife including Badgers. Badgers would still be able to traverse the site (within the EMA) adjacent to the northern boundary as they currently do. The EMA would also maintain existing routes into/ from the woodland and agricultural fields to the west/ northwest. The EMA would allow Badgers to cross the site from north to south and from west to east.
- 4.2.17 The Willow tree (*Target Note 1*) that is currently used by Badgers to cross the ditch should be retained. Should this not be possible then an alternative crossing must be provided (e.g. secured railway sleeper/s). Should an alternative crossing be provided it should be located as close to the location of the existing one as is possible.
- 4.2.18 Due to the scale and extent of the proposal these impacts are unlikely to be significant.
- 4.2.19 Best practice will be implemented during any construction phase as a precautionary approach and to avoid any potential impacts on Badgers. Further details are provided in the EMMS.
- 4.2.20 The proposed development has the potential to sever routes currently used by Badger/s particularly that which is aligned parallel with the northern boundary. Any fencing that may be required during the construction and operation phases will consider Badger movements so that they are not unnecessarily obstructed. Further details are provided in the EMMS.
- 4.2.21 A sett could be excavated subsequent to the completion of this survey. 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.

Bats

- 4.2.22 There are no trees that could provide potential roosting features located within the survey site outside the woodland at *Target Note 7*. The woodland at *Target Note 7* will not be directly impacted by the proposed development. This woodland would be protected from

⁶ <https://naturalresources.wales/media/2638/forest-industry-standard-practice.pdf>

⁷ <https://naturalresources.wales/guidance-and-advice/environmental-topics/woodland-management/tree-health-and-biosecurity/biosecurity/?lang=en>

any inadvertent impacts during the construction phase. The proposal would not have any impact on (roosting) bats.

- 4.2.23 The habitat mosaic that characterises most of the survey site is of moderate to high potential value for foraging/ commuting bats. Most of this habitat would be lost due to the proposal. The proposed EMA would retain small areas of rough grassland, scrub and woodland. It would also be enhanced by the creation of a new pond and planting of a hedge. The pond is likely to be of value for foraging bats and the hedge may provide a feature of value for both foraging and commuting. As previously explained the EMA has been designed to maintain connectivity across the site as far as is possible. Overall no significant impact is anticipated on foraging/ commuting bats.
- 4.2.24 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 survey site/ 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 are provided in the EMMS.
- 4.2.25 Assuming that a sympathetic lighting arrangement is installed, no significant impact on potential foraging/ commuting resources close to the proposed development site is anticipated.
- 4.2.26 The proposed development presents an opportunity to increase potential roost features within the site. A small number of bat-boxes will be installed in the woodland at *Target Note 7* as an enhancement measure. A cluster of three Schwegler 2F-DFP⁸ type boxes will be provided.

Otters

- 4.2.27 It is possible that Otters could travel along the ditches at *Target Notes 3 and 5*. This use is considered likely to be infrequent at most. The risk to individual Otters due to the proposed development is negligible/ low.
- 4.2.28 The vegetation along and adjacent to these ditches is likely to be impacted during site clearance works including the installation of the road access bridge/ culvert and also during the implementation of Great Crested Newt mitigation measures. As the ecologist will be present during the implementation of the latter, a watching brief for Otters will be maintained at this time.
- 4.2.29 At present no impacts on Otters are anticipated.

Great Crested Newts

- 4.2.30 Short, ponded sections of the ditch at *Target Note 3* may be suitable though of sub-optimal (poor) quality for Great Crested Newts. There is no other aquatic habitat within the survey site. A short section of this ditch will be impacted due to the proposed installation of a road access bridge/ culvert. Due to the location of this bridge it is unlikely to directly affect any ponded section that may be suitable for Great Crested Newts. As some of the scrub along the ditch would be removed as part of the proposed development this may have a beneficial impact for Great Crested Newts. Should any ponded sections be retained, the removal of shrubs/ trees would allow more light to reach the channel, which is likely to increase the

⁸ e.g. <http://www.nhbs.com/2f-schwegler-bat-box-with-double-front-panel>

amount of marginal plant cover. This effect can be observed on the section of ditch to the immediate north of the survey site.



**The section of ditch to the immediate north of the survey site
(flowing into that at *Target Note 3*).**

- 4.2.31 The survey site provides high quality potential terrestrial habitat for Great Crested Newts that is linked to further high quality habitat to the west and northwest. 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. Great Crested Newts have been recorded from the ditch network that runs through the site, albeit from a location further to the north, and also from several waterbodies to the west and northwest. The closest of these waterbodies is approximately 128 m away. It is therefore considered possible that Great Crested Newts may use both the terrestrial and aquatic habitat within the survey site.
- 4.2.32 As there is therefore 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 are provided in the EMMS.
- 4.2.33 No further survey is considered necessary as there is sufficient data available with which to assess potential impacts. In the absence of mitigation measures the proposed development may result in a significant impact on the local Great Crested Newt population due to the loss of high quality terrestrial habitat, modification of a small section of aquatic habitat and disturbance/ killing of Great Crested Newts. With the implementation of appropriate mitigation measures as outlined in the EMMS it is likely that the proposal would have a

positive impact in the medium-term, particularly due to the provision of a new pond, new hedgerow, hibernacula and securing appropriate management of the retained terrestrial habitat within the EMA.

Reptiles

4.2.34 The survey site provides habitat of high potential value for reptiles. However, as there have been no recent records of any reptiles within the 1 km search area, or during surveys undertaken by Marches Ecology on the Industrial Estate, it is considered unlikely that any reptiles may be present.

4.2.35 As the risk is negligible a purely precautionary approach will be adopted. The licensed ecologist will maintain a watching brief during the implementation of mitigation measures for Great Crested Newts. Should any reptiles be found at this time it may be necessary to temporarily halt work whilst appropriate reptile mitigation/ avoidance measures are designed and implemented.

4.2.36 At present no impacts on reptiles are anticipated.

Birds

4.2.37 The proposal would result in the loss of some patches of scrub, scattered shrubs and trees that are/ could be used by nesting birds. Such nesting birds include some species of conservation interest (e.g. Dunnock and Long-tailed Tit). Some habitat of potential value for nesting birds would be retained within the proposed EMA. The proposed hedgerow to be planted adjacent to the northern site boundary would partly offset the loss of these habitat features in the medium-term. This hedge could be used by both species of conservation interest mentioned above. Similarly, the EMA is to be managed to promote areas of scrub (along with the woodland, grassland and pond). A small number of trees are also proposed to be planted near the new site entrance. Whilst there would be some loss of scrub habitat it is considered unlikely that the proposal would give rise to a significant impact on local bird populations.

4.2.38 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).

4.2.39 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 trees/ shrubs/ hedges) outside the nesting period (March to August inclusive). If habitat 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.

4.2.40 Whilst this would not represent like-for-like mitigation for the loss of nesting opportunities within scrub it is proposed to install six bird-boxes within the woodland at *Target Note 7*. Further details are provided in the EMMS.

Other Species

4.2.41 A single record of Hedgehog was provided for the area. New fences can prevent Hedgehogs from accessing habitat and traversing across built-up areas. To facilitate access across the site for Hedgehogs boundary fences should either incorporate a gap of 13 cm (in height) beneath them or otherwise a hole measuring 13 cm by 13 cm⁹ should be cut into the

⁹ <http://www.hedgehogstreet.org/pages/link-your-garden.html>

base of the fence. This can be achieved in conjunction with the holes to be provided for Badgers.

4.2.42 No significant impact on any other species of conservation interest is anticipated.

5 TARGET NOTES

Target Note 1. A fairly well used Badger path. The path crosses the ditch over a large Willow branch.

Target Note 2. The verge adjacent to Clywedog Road South is currently unmanaged and supports a mosaic of patches of *Rubus fruticosus* agg. (Bramble) scrub with stands of tall ruderals including *Anthriscus sylvestris* (Cow Parsley), *Heracleum sphondylium* (Hogweed), *Chaerophyllum temulum* (Rough Chervil), *Cirsium vulgare* (Spear Thistle) and *Cirsium arvense* (Creeping Thistle), and moderately species-rich neutral grassland characterised by *Dactylis glomerata* (Cock's-foot), *Elytrigia repens* (Common Couch), *Schedonorus arundinaceus* (Tall Fescue) and *Centaurea nigra* (Common Knapweed).

Target Note 3. A ditch that is approximately 1.3 m wide at water level and holds water to a depth of 0.1-0.2 m deep. It largely has a moderate flow rate though there are some 'ponded' sections where trees/ debris hold up the flow. The ditch bed appears to be entirely constructed of concrete and there are concrete slabs along the banks to an approximate height of 1 m. The bank tops are approximately 3 m above the water level and have a slope of 45°. The marginal vegetation is limited to occasional *Veronica beccabunga* (Brooklime), *Apium nodiflorum* (Fool's Water-cress) and *Epilobium hirsutum* (Great Willowherb). No aquatic vegetation was visible.

The bank-side vegetation – particularly *Rubus fruticosus* agg. (Bramble), *Crataegus monogyna* (Hawthorn) and *Prunus spinosa* (Blackthorn) – is growing over the channel in places. Approximately half of the ditch within the survey site is overhung by scrub/ trees. Elsewhere the banks support unmanaged grass, tall ruderals and *Rubus fruticosus* agg. (Bramble).

Target Note 4. One of the larger trees within the survey site – a young *Fraxinus excelsior* (Ash) with an approximate diameter at breast height (dbh) of 0.25 m. All of the trees within the survey site (outside the woodland at *Target Note 7*) are young/ saplings. None of these trees are likely to contain features of potential value for roosting bats.

Adjacent to the Ash there is a semi-mature *Prunus* sp. tree. It is multi-stemmed and is approximately 0.5 m across at ground level though the largest stem has an approximate dbh of 0.2 m.

Target Note 4a. Three further *Prunus* sp. trees the same as that at *Target Note 4* except smaller. They are presumably of planted origin as two have tree stakes by them.

Target Note 5. At this location the ditch is approximately 0.7 m wide at water level and holds water to a depth of 0.05 m deep. This ditch is located outside the survey site. It has a moderate flow. Weld mesh has been laid across the bed and the opposite bank to the survey site. Marginal vegetation is limited to a small amount of *Epilobium hirsutum* (Great Willowherb). No aquatic vegetation was visible. The bank tops are approximately 2-2.5 m above the water level and have a slope of 45°.

Target Note 6. A patch of semi-mature *Crataegus monogyna* (Hawthorn) on a small, low mound, approximately 5 m by 4 m and up to 1.5 m high.

Target Note 7. A strip of fairly open broad-leaved woodland/ scrub. It is difficult to establish where the northwest boundary is. Most of the trees are young or semi-mature. The largest trees are a *Quercus robur* (Pedunculate Oak) with an approximate dbh of 0.4 m and a number of *Acer pseudoplatanus* (Sycamore) and *Fraxinus excelsior* (Ash) trees with approximate dbh's of 0.3 m. The trees were not individually assessed for their potential; value to roosting bats.

The canopy includes frequent *Acer pseudoplatanus* (Sycamore), occasional *Fraxinus excelsior* (Ash) and a small amount of *Quercus robur* (Pedunculate Oak). The shrub layer contains frequent *Crataegus monogyna* (Hawthorn). The ground flora contains locally abundant *Hedera helix* agg. (Ivy), locally frequent *Rubus fruticosus* agg. (Bramble), occasional *Arum maculatum* (Lords-and-ladies), *Heracleum sphondylium* (Hogweed) and *Galium aparine* (Cleavers).

Target Note 8. A wide band of scrub by the survey site boundary to approximately 5-7 m wide. It is dominated by *Prunus spinosa* (Blackthorn).

Target Note 9. A short line of *Prunus spinosa* (Blackthorn) scrub surrounded by *Rubus fruticosus* agg. (Bramble). Pairs of Long-tailed Tits (*Aegithalos caudatus*) and Dunnocks (*Prunella modularis*) were constructing nests in this scrub.

Target Note 10. A number of Badger footprints along the edge of an arable field just outside the survey site boundary. There is a breach into the survey site.

Target Note 11. Most of the centre of the site is characterised by unmanaged species-poor grassland dominated by *Holcus lanatus* (Yorkshire-fog) and *Dactylis glomerata* (Cock's-foot) with abundant *Anthriscus sylvestris* (Cow Parsley), occasional *Heracleum sphondylium* (Hogweed) and *Cirsium arvense* (Creeping Thistle). The sward height is often over 1 m.

Target Note 11a. More locally there are patches of more species-rich neutral grassland characterised by abundant *Centaurea nigra* (Common Knapweed), locally frequent *Festuca rubra* (Red Fescue), *Carex nigra* (Common Sedge), occasional *Achillea millefolium* (Yarrow), *Ranunculus acris* (Meadow Buttercup), *Potentilla reptans* (Creeping Cinquefoil) and lesser amounts of *Primula veris* (Cowslip), *Deschampsia cespitosa* (Tufted Hair-grass), *Lathyrus pratensis* (Meadow Vetchling) and *Leucanthemum vulgare* (Oxeye Daisy).

6 REFERENCES

- Arbtech (2018). *Preliminary Ecological Appraisal Survey – Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS*. Produced on behalf of Marcus Rigby.
- Bat Conservation Trust and Institution of Lighting Professionals (2018). *Guidance Note 08/18. Bats and Artificial Lighting in the UK*. Bats and the Built Environment Series.
- CIEEM (2017a). *Guidelines for Preliminary Ecological Appraisal, 2nd Edition*. CIEEM, Winchester.
- CIEEM (2017b). *Guidelines on Ecological Report Writing, 2nd Edition*. CIEEM, Winchester.
- CIEEM (2018). *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine*. Chartered Institute of Ecology and Environmental Management, Winchester.
- Collins, J. (ed.) (2016). *Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd Edn)*. The Bat Conservation Trust, London.
- Dean, M., Strachan, R., Gow, D. & Andrews, R. (2016). *The Water Vole Mitigation Handbook (The Mammal Society Mitigation Guidance Series)*. Eds Fiona Mathews & Paul Chanin. The Mammal Society, London.
- Dines, T. (2008). *A Vascular Plant Red Data List for Wales*. Plantlife International, Salisbury.
- Edgar, P., Foster, J. and Baker, J. (2010). *Reptile Habitat Management Handbook*. Amphibian and Reptile Conservation, Bournemouth.
- English Nature (2004). *Reptiles: guidelines for developers*. English Nature, Peterborough.
- Harris, S., Cresswell, P., & Jeffries, D. (1989). *Surveying Badgers*. Occasional Publication No. 9, The Mammal Society.
- HMSO (1981). *The Wildlife and Countryside Act 1981*. HMSO, London.
- HMSO (1992). *The Protection of Badgers Act 1992*. HMSO, London.
- HMSO (2000). *The Countryside and Rights of Way Act 2000*. HMSO, London.
- HMSO (2006). *The Natural Environment and Rural Communities Act 2006*. HMSO, London.
- HMSO (2016). *The Environment Act (Wales) 2016*. HMSO, London.
- HMSO (2017). *The Conservation of Habitats and Species Regulations 2017*. HMSO, London.
- Institute of Environmental Assessment (1995). *Guidelines for Baseline Ecological Assessment*. E & FN Spon, London.
- JNCC (2004a). *Common Standards Monitoring for Terrestrial Mammals, Version August 2004*. ISSN 1743-8160.
- JNCC (2004b). *Common Standards Monitoring Guidance for Birds. Version August 2004*. Joint Nature Conservation Committee, Peterborough.
- JNCC (2010). *Handbook for Phase 1 Habitat Survey – A Technique for Environmental Audit*. Joint Nature Conservation Committee, Peterborough.
- Marches Ecology (2020). *Proposed Development, Plot B, Site 4000, Clywedog Road South, Wrexham Industrial Estate, Wrexham – Ecological Mitigation Method Statement*. Produced on behalf of Alpine Engineering Ltd.
- Oldham, R.S., Keeble, J., Swan, M.J.S. & Jeffcote, M. (2000). Evaluating the Suitability of Habitat for the Great Crested Newt (*Triturus cristatus*). *Herpetological Journal*, Vol 10, pp143-155.
- Stace, C. (2010; 3rd Edition). *New Flora of the British Isles*. Cambridge University Press, Cambridge.
- Welsh Government (2009). *Planning Policy Wales - Technical Advice Note 5: Nature Conservation and Planning*. September 2009.

Welsh Government (2018). *Planning Policy Wales*. Edition 10, December 2018.

Williams, D. (2014). *Denbighshire (VC50) Rare Plant Register*. BSBI & NRW.

Wrexham County Borough Council (2005). *Wrexham Unitary Development Plan 1996-2011*. Adopted 14th February 2005.

Wrexham County Borough Council (2011). *Local Planning Guidance Note 32 Biodiversity and Development*. Adopted March 2011.

Wrexham County Borough Council (2012). *Local Planning Guidance Note 17 Trees and Development*. Adopted September 2000, Updated December 2012.

7 DATA*Table 1 – Vascular plant species recorded within the survey site*

Plant Species	
	<i>Ficaria verna</i> (Lesser Celandine)
<i>Acer campestre</i> (Field-maple)	<i>Filipendula ulmaria</i> (Meadowsweet)
<i>Acer pseudoplatanus</i> (Sycamore)	<i>Galium aparine</i> (Cleavers)
<i>Buddleja davidii</i> (Butterfly-bush)	<i>Geranium molle</i> (Dove's-foot Crane's-bill)
<i>Crataegus monogyna</i> (Hawthorn)	<i>Geranium pyrenaicum</i> (Hedgerow Crane's-bill)
<i>Fraxinus excelsior</i> (Ash)	<i>Geum urbanum</i> (Wood Avens)
<i>Ilex aquifolium</i> (Holly)	<i>Glechoma hederacea</i> (Ground-ivy)
<i>Malus domestica</i> (Apple)	<i>Hedera helix</i> agg. (Ivy)
<i>Prunus avium</i> (Wild Cherry)	<i>Heracleum sphondylium</i> (Hogweed)
<i>Prunus spinosa</i> (Blackthorn)	<i>Holcus lanatus</i> (Yorkshire-fog)
<i>Quercus robur</i> (Pedunculate Oak)	<i>Hypericum perforatum</i> (Perforate St. John's-wort)
<i>Rosa arvensis</i> (Field-rose)	<i>Juncus inflexus</i> (Hard Rush)
<i>Rosa canina</i> agg. (Dog-rose)	<i>Lamium album</i> (White Dead-nettle)
<i>Salix caprea</i> (Goat Willow)	<i>Lathyrus pratensis</i> (Meadow Vetchling)
<i>Salix cinerea</i> (Grey Willow)	<i>Leucanthemum vulgare</i> (Oxeye Daisy)
	<i>Lolium perenne</i> (Perennial Rye-grass)
<i>Achillea millefolium</i> (Yarrow)	<i>Plantago lanceolata</i> (Ribwort Plantain)
<i>Aegopodium podagraria</i> (Ground-elder)	<i>Potentilla reptans</i> (Creeping Cinquefoil)
<i>Alopecurus pratensis</i> (Meadow Foxtail)	<i>Primula veris</i> (Cowslip)
<i>Anthriscus sylvestris</i> (Cow Parsley)	<i>Prunella vulgaris</i> (Selfheal)
<i>Apium nodiflorum</i> (Fool's Water-cress)	<i>Ranunculus acris</i> (Meadow Buttercup)
<i>Arrhenatherum elatius</i> (False Oat-grass)	<i>Ranunculus repens</i> (Creeping Buttercup)
<i>Arum maculatum</i> (Lords-and-ladies)	<i>Rubus fruticosus</i> agg. (Bramble)
<i>Cardamine pratensis</i> (Cuckoo-flower)	<i>Rumex acetosa</i> (Common Sorrel)
<i>Carex nigra</i> (Common Sedge)	<i>Rumex crispus</i> (Curled Dock)
<i>Centaurea nigra</i> (Common Knapweed)	<i>Rumex obtusifolius</i> (Broad-leaved Dock)
<i>Cerastium fontanum</i> (Common Mouse-ear)	<i>Schedonorus arundinaceus</i> (Tall Fescue)
<i>Chaerophyllum temulum</i> (Rough Chervil)	<i>Scrophularia nodosa</i> (Common Figwort)
<i>Cirsium arvense</i> (Creeping Thistle)	<i>Senecio jacobaea</i> (Common Ragwort)
<i>Cirsium vulgare</i> (Spear Thistle)	<i>Silene dioica</i> (Red Campion)
<i>Cruciata laevipes</i> (Cross-wort)	<i>Stachys sylvatica</i> (Hedge Woundwort)
<i>Dactylis glomerata</i> (Cock's-foot)	<i>Stellaria graminea</i> (Lesser Stitchwort)
<i>Deschampsia cespitosa</i> (Tufted Hair-grass)	<i>Taraxacum</i> sect. <i>Ruderalia</i> (Common Dandelion)
<i>Dipsacus fullonum</i> (Teasel)	<i>Trifolium repens</i> (White Clover)
<i>Dryopteris filix-mas</i> (Male-fern)	<i>Urtica dioica</i> (Common Nettle)

<i>Elytrigia repens</i> (Common Couch)	<i>Veronica beccabunga</i> (Brooklime)
<i>Epilobium hirsutum</i> (Great Willowherb)	<i>Vicia hirsuta</i> (Hairy Tare)
<i>Epilobium montanum</i> (Broad-leaved Willowherb)	<i>Vicia sativa</i> (Common Vetch)
<i>Festuca rubra</i> (Red Fescue)	<i>Vicia sepium</i> (Bush Vetch)

8 APPENDIX 1 - SPECIES-SPECIFIC LEGISLATION

8.1 Introduction

- 8.1.1 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.
- 8.1.2 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.

8.2 Badger

- 8.2.1 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.

8.3 Bats

- 8.3.1 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*).
- 8.3.2 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.
- 8.3.3 Several species of bat are included on *Section 7* of the *Environment Act 2016*.
- 8.3.4 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.

8.4 Otter

- 8.4.1 The Otter is 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 *Countryside and Rights of Way Act 2000* (the *CRoW Act*) which further extends the protection. It is also listed on *Annexe IV* of the European Union Directive on Natural Habitats and Wild Fauna

and Flora (*Council Directive 92/43/EEC*), which is implemented in the UK by *The Conservation of Habitats and Species Regulations 2017*. It is included on *Schedule 2* of these regulations which gives it full protection under *Regulation 42(1)*. The Otter is therefore a so-called European Protected Species.

8.4.2 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.

8.4.3 The Otter is included on *Section 7* of the *Environment Act 2016*.

8.5 Water Vole

8.5.1 The Water Vole (*Arvicola amphibius*) is protected under *Section 9* of *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended). This protection was extended by the *CRoW Act 2000*. Under the above legislation it is an offence to:

- intentionally or recklessly damage, destroy or obstruct access to any structure or place that Water Voles use for shelter or protection;
- intentionally or recklessly disturb a Water Vole while it is using such a place;
- intentionally kill, injure or take any wild Water Vole;
- possess or control any live or dead wild Water Vole or any part of, or anything derived from, such an animal;
- sell, offer or expose for sale, or have in his possession or transports for the purpose of sale, any live or dead water vole, or any part of, or anything derived from, such an animal; or
- publish or cause to be published any advertisement likely to be understood as conveying that he buys or sells, or intends to buy or sell, any of those things.

8.5.2 The Water Vole is included on *Section 7* of the *Environment Act 2016*.

8.6 Great Crested Newt

8.6.1 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. It is also listed on *Annexes II* and *IV* of the European Union Directive on Natural Habitats and Wild Fauna and Flora (*Council Directive 92/43/EEC*), which is implemented in the UK by *The Conservation of Habitats and Species Regulations 2017*. It is included on *Schedule 2* of the *Habitats Regulations* which gives it full protection under *Regulation 42(1)*. The Great Crested Newt is therefore a so-called European Protected Species. The legislation applies to all life stages of the Great Crested Newt, including eggs, larvae, juveniles and adults.

8.6.2 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.

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

8.7 Reptiles

8.7.1 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*.

8.7.2 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.

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

8.8 Birds

8.8.1 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*.

8.8.2 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.

8.8.3 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.

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

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

Cofnod Environmental Information Search (PUBLIC VERSION)

Our Reference	E07917
Your Reference	C419
Requested By	Marches Ecology
Data Users	Max Ellson, Partner, Marches Ecology LLP Tom Knight, Partner, Marches Ecology LLP Marcus Rigby, Alpine Engineering Ltd
Search Date	11/02/2020
Expiry Date	11/08/2020
Search Type	Chargeable

Important Issues

- Use of the data is governed by Cofnod's [Terms & Conditions](#).
- Data marked as confidential or sensitive must not be released into the public domain, with the exception of the Public Version of the PDF report, which has had sensitive information removed or restricted.
- You should not amend any part of the downloaded records.
- Unless otherwise agreed, use of the data is valid until the Expiry Date (11/08/2020).
- The data was generated on the Search Date (11/02/2020) and is not live.
- The Dataset ID associated with each record can be used to find information about the provenance of the data. Verification Levels are given for each record. Refer to individual LERCs for further metadata and policies relating to the data.
- 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

Cofnod - Gwasanaeth Gwybodaeth Amgylcheddol Gogledd Cymru/North Wales Environmental Information Service

Intec, Ffordd y Parc, Parc Menai, Bangor, Gwynedd. LL57 4FG

Tel: (01248) 672603 Email: contactus@cofnod.org.uk Website: www.cofnod.org.uk Facebook: facebook.com/Cofnod Twitter: twitter.com/Cofnod

Search Location					Grid Reference					
Land at Plot B, Site 4000					SJ370488					
Birds										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3648	03/05/2009	Recorder Name Withheld	1		Marchwiell, NE	H Activity	D0062/001/01	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3749	4 records, between 2009 and 21/05/2017	Recorder Name Withheld	2; 1		Wrexham, Pentre Maelor	BBS	D0062/006/01 , D0062/007/01 , D1775/001/02	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	WBA	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3747	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656- BGBW2009-16447666-106734424	D1852/002/01	WBA	4
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3647	3 records, between 24/01/2009 and 14/06/2010	Recorder Name Withheld	2; 3			Occurrence ID: NBN-GA000656- BGBW2009-16446782- 106734542; TTV. Breeding code: H	D1852/002/01 , D0062/003/01	WBA	4
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ379490 (Selected from Interactive Map)	29/06/2012	Recorder Name Withheld	2 Adult		Firestones, wrexham industrial estate	At least 1 pair	D1117/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3748	05/04/2007	Recorder Name Withheld	4		Wrexham, Pentre Maelor, S		D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3749	24/05/2004	Recorder Name Withheld	1+		Wrexham, Pentre Maelor		D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3848	2 records, between 10/04/2009 and 24/04/2011	Recorder Name Withheld	1; 2		Parkey	Breeding code: S; Singing, roving record	D0062/003/01 , D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Alcedo atthis</i> (Kingfisher / Glas y Dorlan)	SJ3647	05/04/2016	Recorder Name Withheld			Wrexham WwTW		D1297/021/01	BDir1, Bern, UKBA, WBA, WCA1.1, LBAP[CON, DEN, FLI, GWY]	4
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wyllt)	SJ3749	14/06/2013	Recorder Name Withheld	3		Wrexham, Pentre Maelor	BBS	D0062/005/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wyllt)	SJ3649	3 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+				D1775/001/02 , D1297/002/01 , D1779/001/02	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wyllt)	SJ3647	2 records, between 03/05/2009 and 05/04/2016	Recorder Name Withheld	1 Female		Marchwiell, E	H Activity	D0062/001/01 , D1297/021/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ3749	2009	Recorder Name Withheld					D1779/001/02	Bern, UKBA, WBA, LBAP[CON]	3
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	Bern, UKBA, WBA, LBAP[CON]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3749	2 records, between 28/06/2012 and 14/06/2013	Recorder Name Withheld	2; 3		Wrexham, Pentre Maelor	BBS	D0062/005/01	UKBA, WBA	3
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3649	2009	Recorder Name Withheld					D1779/001/02	UKBA, WBA	3
<i>Aythya fuligula</i> (Tufted Duck / Hwyaden Gopog)	SJ3647	2 records, both on 21/05/2009	Recorder Name Withheld	1 Female; 1 Male		Marchwiell, E		D0062/001/01	BDir2.1, WBA, LBAP[CON]	3
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3749	3 records, between 15/05/2014 and 23/04/2017	Recorder Name Withheld	2; 1; 7		Wrexham, Pentre Maelor	BBS	D0062/006/01 , D0062/007/01 , D0062/005/01	BDir2.1, INNS, WCA9	3
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3647	03/05/2009	Recorder Name Withheld	2		Marchwiell, E	H Activity	D0062/001/01	BDir2.1, INNS, WCA9	3
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3648	31/12/2016	Recorder Name Withheld			Marchwiell, NE		D1297/021/01	BDir2.2, S7, UKBA, WBR, LBAP[GWY]	4
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3647	07/02/2010	Recorder Name Withheld	38		Marchwiell, E	TTV	D0062/003/01	BDir2.2, S7, UKBA, WBR, LBAP[GWY]	3
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ3749	2 records, between 06/05/2013 and 14/06/2013	Recorder Name Withheld	1		Wrexham, Pentre Maelor	BBS	D0062/005/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3748	03/05/2009	Recorder Name Withheld	3		Wrexham, Pentre Maelor, S	H Activity	D0062/001/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3749	23/04/2017	Recorder Name Withheld	1		Wrexham, Pentre Maelor	BBS	D0062/007/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3648	31/12/2016	Recorder Name Withheld	1		Marchwiell, NE		D1297/021/01	Bern, S7, UKBA, WBA, LBAP[CON, DEN, FLI, GWY]	4
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3749	2 records, between 03/05/2007 and 2009	Recorder Name Withheld	1				D1779/001/02 , D0062/001/01	Bern, S7, UKBA, WBA, LBAP[CON, DEN, FLI, GWY]	3
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	Bern, S7, UKBA, WBA, LBAP[CON, DEN, FLI, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ37144814 (Approximate)	23/04/2018	Recorder Name Withheld	1 Male	Live Sighting	Sesswick Way		D1748/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3749	4 records, between 28/06/2012 and 23/04/2017	Recorder Name Withheld	1; 2		Wrexham, Pentre Maelor	BBS	D0062/007/01 , D0062/005/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<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		D1297/002/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	4
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3749	20/02/2005	Recorder Name Withheld	10		Wrexham, Pentre Maelor		D0062/001/01	BDir2.1, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3848	10/04/2009	Recorder Name Withheld	1		Parkey	Roving record	D0062/001/01	BDir2.1, UKBA, WBA, 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>Hirundo rustica</i> (Swallow / Gwennol)	SJ3748	03/05/2009	Recorder Name Withheld	3		Wrexham, Pentre Maelor, S	H Activity	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3648	03/05/2009	Recorder Name Withheld	6		Marchwiell, NE	H Activity	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3749	8 records, between 13/04/2007 and 21/05/2017	Recorder Name Withheld	3; 1; 8		Wrexham, Pentre Maelor	BBS	D0062/007/01 , D0062/005/01 , D0062/001/01 , D1779/001/02	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3649	3 records, between 2009 and 03/05/2009	Recorder Name Withheld	1; 1+		Plas Issa Farm	H Activity	D0062/001/01 , D1297/002/01 , D1779/001/02	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3747 (Selected from Interactive Map)	16/04/2013	Recorder Name Withheld	1 Full-Grown		Cross Lanes		D1117/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	4
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3647	3 records, between 03/05/2009 and 14/06/2010	Recorder Name Withheld	1; 4		Marchwiell, E	H Activity; TTV. Breeding code: H	D0062/001/01 , D0062/003/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3849	6 records, between 03/10/2007 and 16/09/2010	Recorder Name Withheld	2; 3 Adult; 3 Juvenile; 2 Adult; 6		Wrexham, Industrial Estate, W	2 with young; 3 young still on beam in warehouse; Still on same beam, parents trying to move young.	D0062/001/01 , D0062/003/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3648	31/12/2016	Recorder Name Withheld	5+		Marchwiell, NE		D1297/021/01	BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	4
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3749	10 records, between 11/05/2012 and 21/05/2017	Recorder Name Withheld	1; 4; 2; 7; 3; 5		Wrexham, Pentre Maelor	BBS	D0062/007/01 , D0062/005/01 , D0062/006/01	BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	3
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3649	17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01	BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	4
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3749	5 records, between 30/06/2014 and 21/05/2017	Recorder Name Withheld	2; 5; 33		Wrexham, Pentre Maelor	BBS	D0062/006/01 , D0062/007/01 , D0062/005/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3747	03/05/2009	Recorder Name Withheld	1		Cross Lanes, N		D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3749	6 records, between 06/01/2004 and 14/06/2013	Recorder Name Withheld	6; 2; 40+; 1			BBS; Generally reduced	D1779/001/02 , D0062/005/01 , D0062/001/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	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		Parkey	Breeding code: P; Breeding code: T	D0062/003/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ3749	03/05/2007	Recorder Name Withheld	1+		Wrexham, Pentre Maelor		D0062/001/01	S7, UKBR, WBR, LBAP[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)	SJ3848	24/04/2011	Recorder Name Withheld	4		Parkey	Breeding code: S	D0062/003/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ3749	28/05/2006	Recorder Name Withheld	1+		Wrexham, Pentre Maelor		D0062/001/01	Bern, S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3647	14/06/2010	Recorder Name Withheld	1		Marchwiell, E		D0062/003/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3648	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16447097-106608870	D1852/002/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3749	12 records, between 09/01/2004 and 21/05/2017	Recorder Name Withheld	1; 3; 6; 12; 8; 10; 5; 2			Occurrence ID: NBN-GA000656-BGBW2009-16447443-106608860; BBS; Mating	D1852/002/01 , D0062/007/01 , D0062/005/01 , D0062/006/01 , D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3649	3 records, between 2009 and 03/05/2009	Recorder Name Withheld	2; 1+		Plas Issa Farm	H Activity	D0062/001/01 , D1297/002/01 , D1779/001/02	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3747	3 records, between 26/01/2008 and 03/05/2009	Recorder Name Withheld	25		Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135611-139229770; Occurrence ID: NBN-GA000656-BGBW2009-16447564-106608859; H Activity	D1852/001/01 , D1852/002/01 , D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	4
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3647	4 records, between 26/01/2008 and 14/06/2010	Recorder Name Withheld	2		Marchwiell, E	TTV. Breeding code: N; H Activity; Occurrence ID: NBN-GA000567-BGBW2008-22135593-139603086; Occurrence ID: NBN-GA000656-BGBW2009-16446782-106609041	D0062/003/01 , D0062/001/01 , D1852/001/01 , D1852/002/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<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>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3749	2009	Recorder Name Withheld					D1775/001/02	Bern, WBA, LBAP[CON]	3
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3649	2 records, both in 2009	Recorder Name Withheld					D1775/001/02 , D1779/001/02	Bern, WBA, LBAP[CON]	3
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3747	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16447564-106179347	D1852/002/01	Bern, WBA, LBAP[CON]	4
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3647	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16446782-106179680	D1852/002/01	Bern, WBA, LBAP[CON]	4
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ3749	2009	Recorder Name Withheld					D1779/001/02	Bern, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ3649	17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01	Bern, UKBA, WBA, LBAP[CON, GWY, SNP]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3749	11 records, between 01/05/2005 and 21/05/2017	Recorder Name Withheld	2; 4; 1; 2+		Wrexham, Pentre Maelor	BBS; S Activity	D0062/006/01 , D0062/007/01 , D0062/005/01 , D0062/001/01 , D1779/001/02	UKBA, WBR, LBAP[CON]	3
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	UKBA, WBR, LBAP[CON]	4
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3848	3 records, between 10/04/2009 and 24/04/2011	Recorder Name Withheld	3; 4; 1		Parkey	Breeding code: S; Roving record	D0062/003/01 , D0062/001/01	UKBA, WBR, LBAP[CON]	3
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3749	2 records, between 24/02/2007 and 22/04/2016	Recorder Name Withheld	1		Wrexham, Pentre Maelor	BBS	D0062/006/01 , D0062/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	3
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3848	2 records, between 24/04/2011 and 19/06/2011	Recorder Name Withheld	2; 1		Parkey		D0062/003/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3748	03/05/2009	Recorder Name Withheld	1		Wrexham, Pentre Maelor, S	S Activity	D0062/001/01	Bern, S7, UKBA, LBAP[CON]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3648	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16447097-106179368	D1852/002/01	Bern, S7, UKBA, LBAP[CON]	4
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3749	10 records, between 2009 and 21/05/2017	Recorder Name Withheld	9; 3; 2; 1; 4; 5		Wrexham, Pentre Maelor	BBS	D0062/007/01 , D1775/001/02 , D1779/001/02 , D0062/005/01 , D0062/006/01	Bern, S7, UKBA, LBAP[CON]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3649	3 records, between 2009 and 03/05/2009	Recorder Name Withheld	3; 1+		Plas Issa Farm	S Activity	D0062/001/01 , D1297/002/01 , D1779/001/02	Bern, S7, UKBA, LBAP[CON]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3747	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16447616-106180070	D1852/002/01	Bern, S7, UKBA, LBAP[CON]	4
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3647	5 records, between 24/01/2009 and 05/04/2016	Recorder Name Withheld	4; 6; 2		Wrexham WwTW	TTV; TTV. Breeding code: S; S Activity; Occurrence ID: NBN-GA000656-BGBW2009-16446782-106179683	D1297/021/01 , D0062/003/01 , D0062/001/01 , D1852/002/01	Bern, S7, UKBA, LBAP[CON]	4
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3648	2 records, both on 12/04/2009	Recorder Name Withheld	1 Female; 1 Male		Marchwiel, NE	Roving record	D0062/001/01	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3749	5 records, between 03/05/2004 and 15/05/2014	Recorder Name Withheld	2; 1 Female; 1 Male			BBS	D1775/001/02 , D1779/001/02 , D0062/005/01 , D0062/001/01	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3649	2009	Recorder Name Withheld					D1775/001/02	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3647	2 records, both on 07/02/2010	Recorder Name Withheld	1 Female; 1 Male		Marchwiel, E	TTV	D0062/003/01	S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3749	2009	Recorder Name Withheld					D1779/001/02	Bern, WBA, LBAP[CON]	3
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3649	2009	Recorder Name Withheld					D1779/001/02	Bern, WBA, LBAP[CON]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3648	24/01/2009 - 25/01/2009	Recorder Name Withheld				Occurrence ID: NBN-GA000656-BGBW2009-16447097-106878419	D1852/002/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3749	7 records, between 24/01/2009 and 21/05/2017	Recorder Name Withheld	4; 3; 5; 1			Occurrence ID: NBN-GA000656-BGBW2009-16447443-106878415; BBS	D1852/002/01 , D0062/007/01 , D0062/005/01 , D0062/006/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3747	4 records, between 26/01/2008 and 22/07/2016	Recorder Name Withheld	3; 60+		Wrexham, Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135853-139229771; Occurrence ID: NBN-GA000656-BGBW2009-16447564-106878414; H Activity; On house roofs	D1852/001/01 , D1852/002/01 , D0062/001/01 , D0062/006/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	4
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3647	5 records, between 26/01/2008 and 05/04/2016	Recorder Name Withheld	41; 12+		Wrexham WwTW	TTV; Roving record; Occurrence ID: NBN-GA000656-BGBW2009-16446782-106878487; Occurrence ID: NBN-GA000567-BGBW2008-22135840-139258936	D1297/021/01 , D0062/003/01 , D0062/001/01 , D1852/002/01 , D1852/001/01	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+		Wrexham, Industrial Estate, W	Birds gathering between Redwither pub and Firestone site	D0062/001/01	BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ371487	22/04/2016	Recorder Name Withheld	1		Wrexham Industrial estate		D1297/021/01	WBA, LBAP[CON]	4
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3749	14 records, between 03/05/2004 and 21/05/2017	Recorder Name Withheld	1; 5; 8; 3; 9; 2		Wrexham, Pentre Maelor	BBS; S Activity	D0062/007/01 , D0062/005/01 , D0062/006/01 , D0062/001/01 , D1779/001/02	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3649	2009	Recorder Name Withheld					D1779/001/02	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3747	2 records, between 03/05/2009 and 07/07/2016	Recorder Name Withheld	1 Male; 1		Cross Lanes, N	Activity: S; S Activity	D0062/006/01 , D0062/001/01	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3647	2 records, between 24/04/2010 and 14/06/2010	Recorder Name Withheld	5; 4		Marchwiell, E	TTV. Breeding code: T; TTV. Breeding code: NY	D0062/003/01	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3848	07/05/2009	Recorder Name Withheld	10+		Parkey	Roving record	D0062/001/01	WBA, LBAP[CON]	3
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3749	2 records, between 2009 and 29/12/2016	Recorder Name Withheld					D1775/001/02 , D1297/021/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3647	07/02/2010	Recorder Name Withheld	35		Marchwiell, E	TTV	D0062/003/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3748	2 records, between 10/04/2008 and 03/05/2009	Recorder Name Withheld	2; 1		Wrexham, Pentre Maelor, S	H Activity	D0062/001/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3749	10 records, between 07/05/2007 and 21/05/2017	Recorder Name Withheld	2; 4; 1		Wrexham, Pentre Maelor	BBS; Flew off, 1 with food in bill (BBS).	D0062/007/01 , D1775/001/02 , D1779/001/02 , D0062/005/01 , D0062/006/01 , D0062/001/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3649	3 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02 , D1775/001/02	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3747	2 records, between 24/01/2009 and 03/05/2009	Recorder Name Withheld	1			Occurrence ID: NBN-GA000656- BGBW2009-16447616- 106817469; S Activity	D1852/002/01 , D0062/001/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3647	3 records, between 24/01/2009 and 31/12/2016	Recorder Name Withheld	1; 2		Marchwiel, E	TTV. Breeding code: S; Occurrence ID: NBN-GA000656- BGBW2009-16446782-106817343	D1297/021/01 , D0062/003/01 , 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	1; 4		Parkey	Breeding code: S; Roving record	D0062/003/01 , D0062/001/01	BDir2.2, Bern, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3749	2 records, between 2009 and 29/12/2016	Recorder Name Withheld					D1775/001/02 , D1297/021/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3647	07/02/2010	Recorder Name Withheld	15		Marchwiel, E	TTV	D0062/003/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ34	19/09/2017	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D0062/007/01	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ34	2 records, between 26/03/2014 and 01/09/2017	Recorder Name Withheld	1; 1 Fullgrown		Site Name Withheld	Comments Withheld	D0062/005/01 , D0062/007/01	Bern, CITES, WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3749	25/03/2004	Recorder Name Withheld	2		Wrexham, Pentre Maelor	Display	D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3649	2 records, between 2009 and 17/04/2009	Recorder Name Withheld	1+		Plas Issa Farm		D1297/002/01 , D1779/001/02	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3647	3 records, between 21/01/2009 and 07/02/2010	Recorder Name Withheld	240+; 3; 1		Marchwiel, E	TTV	D0062/003/01 , D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3

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)	SJ3763848757	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Method: Field record / observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Chiasmia clathrata</i> (Latticed Heath / Seffyr Delltog)	SJ378487	31/05/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Method: Field record / observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Chiasmia clathrata</i> (Latticed Heath / Seffyr Delltog)	SJ378491	19/06/2010	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate	Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Chiasmia clathrata clathrata</i> (Latticed Heath)	SJ378491	06/07/2009	Recorder Name Withheld	4		Wrexham Industrial Estate	Method: Daytime observation	D1285/001/03		3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ374493	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ377489	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ378487	7 records, between 31/05/2013 and 07/06/2013	Recorder Name Withheld	1 Adult; 2 Adult; 83 Adult; 25 Adult; 25; 83; 1		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05 , D1643/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ378489	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ378485	4 records, between 02/06/2004 and 07/05/2009	Recorder Name Withheld	2 Adult; 5 Adult; 12	Field record	Wrexham Ind Estate		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ	18/06/2014	Recorder Name Withheld	3		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ379490	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ37424969	18/06/2014	Recorder Name Withheld	3 Adult		Clwedog Rd North		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3741649725	21/05/2014	Recorder Name Withheld	1 Adult		Clwedog Rd North		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ373497	2 records, between 11/05/2011 and 21/05/2014	Recorder Name Withheld	10; 1		Wrexham Industrial Estate		D1858/001/02 , D1643/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ37384977 (Selected from Interactive Map)	2 records, between 23/05/2016 and 24/05/2016	Recorder Name Withheld	3 Adult; 2 Adult	Live Sighting	Guy Tyrell		D1117/001/01	RD1(UK)NT, S7, LBAP[GWY]	4

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ	21/05/2014	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3737149788	21/05/2014	Recorder Name Withheld	1 Adult		Clwedog Rd North		D1373/001/05	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ	18/06/2014	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3748	25/08/2010	Recorder Name Withheld	2 to 9		Wrexham Industrial Estate	CORINE: 872	D1858/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3648 (Estimated (Centroid of Site))	1995	Recorder Name Withheld	1		SJ3648	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3754748935	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3755448930	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3759548893	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ36974939	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3763848757	07/06/2013	Recorder Name Withheld	2 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	21/05/2014	Recorder Name Withheld	3		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3711649474	21/05/2014	Recorder Name Withheld	3 Adult		Clwedog Rd South		D1373/001/05	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)	SJ37744887	05/06/2013	Recorder Name Withheld	2 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	05/06/2013	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ377489	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3779249043	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ378487	2 records, both on 31/05/2013	Recorder Name Withheld	6 Adult; 6		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05 , D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ378489	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3780548502	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3784248577	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3785548576	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ378485	10 records, between 02/06/2004 and 07/06/2013	Recorder Name Withheld	7; 4 Adult; 3 Adult; 10 Adult; 2 Adult; 15 Adult; 1 Adult; 4; 1		Wrexham Ind Estate		D1858/001/02 , D1373/001/05 , D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3787748605	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ379490	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ37384977 (Selected from Interactive Map)	2 records, between 23/05/2016 and 24/05/2016	Recorder Name Withheld	4 Adult; 3 Adult	Live Sighting	Guy Tyrell		D1117/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	4

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)	SJ37374979	11/05/2011	Recorder Name Withheld	1		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ380488	30/04/2007	Recorder Name Withheld	C		Wrexham Ind Estate	More than 12 seen. Probably many more on the site as a whole.	D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3748	12/05/2005	Recorder Name Withheld	5		SJ3748	Wrexham Ind Estate	D1858/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<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>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3849	2 records, between 12/05/2000 and 15/05/2000	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0217/001/03	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Erynnis tages tages</i> (Dingy Skipper)	SJ	6 records, between 25/05/2008 and 23/05/2009	Recorder Name Withheld	3; 1; 2; 10; 15		Site Name Withheld	Comments Withheld	D1642/001/01	LBAP[FLI]	3
<i>Erynnis tages tages</i> (Dingy Skipper)	SJ	12/05/2005	Recorder Name Withheld	5		Site Name Withheld	Comments Withheld	D1642/001/01	LBAP[FLI]	3
<i>Erynnis tages tages</i> (Dingy Skipper)	SJ	12/05/2005	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1642/001/01	LBAP[FLI]	3
<i>Erynnis tages tages</i> (Dingy Skipper)	SJ	2 records, between 12/05/2000 and 15/05/2000	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1642/001/01	LBAP[FLI]	3
<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)	SJ3754148753	24/05/2012	Recorder Name Withheld	3 Adult		Wrexham Industrial Estate: Spectrum	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37544875	24/05/2012	Recorder Name Withheld	3		Wrexham Industrial Estate: Spectrum		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3763348852	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	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)	SJ37104946	24/05/2012	Recorder Name Withheld	1		Wrexham Industrial Estate: Clywedog Road South		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3710949465	24/05/2012	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Clywedog Road South	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37734898 (Selected from Interactive Map)	31/05/2013	Recorder Name Withheld	1		Firestones		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3778048525	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3779048499	24/05/2012	Recorder Name Withheld	4 Adult		Wrexham Industrial Estate: Spectrum	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37794849	24/05/2012	Recorder Name Withheld	4		Wrexham Industrial Estate: Spectrum		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37844862 (Selected from Interactive Map)	31/05/2013	Recorder Name Withheld	1		Firestones		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37834856	24/05/2012	Recorder Name Withheld	1		Wrexham Industrial Estate: Spectrum		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3783349145	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3783948568	24/05/2012	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Spectrum	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3785548576	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ378485	21 records, between 15/05/2008 and 07/06/2013	Recorder Name Withheld	4 Adult; 10 Adult; 3 Adult; 1 Adult; 33 Adult; 8 Adult; 2 Adult; 5 Adult; 4; 33; 1; 10		Wrexham Ind Estate		D1373/001/05 , D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	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)	SJ3784449272	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37914913 (Selected from Interactive Map)	31/05/2013	Recorder Name Withheld	1		Firestones		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3793848609	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37934859	24/05/2012	Recorder Name Withheld	3		Wrexham Industrial Estate: Spectrum		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3793948599	24/05/2012	Recorder Name Withheld	3 Adult		Wrexham Industrial Estate: Spectrum	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3795548594	31/05/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3740749721	22/05/2018	Recorder Name Withheld	1 Adult		Riello UPS, Wrexham Industrial Estate		D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3795848587	07/06/2013	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Former Firestone Site	Built-up areas: industrial	D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	2 records, between 31/05/2013 and 07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	21/05/2014	Recorder Name Withheld	2		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3740349733	24/05/2012	Recorder Name Withheld	10 Adult		Wrexham Industrial Estate: Clywedog Road North	Timed Count	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37404973	24/05/2012	Recorder Name Withheld	10		Wrexham Industrial Estate: Clywedog Road North		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3738349765	21/05/2014	Recorder Name Withheld	1 Adult		Clwedog Rd North		D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37384977 (Selected from Interactive Map)	23/05/2016	Recorder Name Withheld	1 Adult	Live Sighting	Guy Tyrell		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4

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)	SJ	05/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37394977	11/05/2011	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)	SJ3739149779	11/05/2011	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate: Clywedog Road North	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3737149788	21/05/2014	Recorder Name Withheld	2 Adult		Clwedog Rd North		D1373/001/05	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3737249791	11/05/2011	Recorder Name Withheld	2 Adult		Wrexham Industrial Estate: Clywedog Road North	Species survey	D1466/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ37374979	11/05/2011	Recorder Name Withheld	2		Wrexham Industrial Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38034868	24/05/2012	Recorder Name Withheld	1		Wrexham Industrial Estate: Spectrum		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ380488	2 records, between 30/04/2007 and 24/05/2012	Recorder Name Withheld	1; 5		Wrexham Ind Estate		D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ38044871 (Selected from Interactive Map)	31/05/2013	Recorder Name Withheld	1		Firestones		D1117/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	4
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	2 records, between 24/05/2012 and 31/05/2013	Recorder Name Withheld	4; 2		Site Name Withheld	Comments Withheld	D1643/001/01 , D1858/001/02	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ	07/06/2013	Recorder Name Withheld	1		Site Name Withheld	Comments Withheld	D1643/001/01	RD1(UK)VU, S7, LBAP[DEN, FLI]	3
<i>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3748	12/05/2005	Recorder Name Withheld	3		SJ3748	Wrexham Ind Estate	D1858/001/02	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>Pyrgus malvae</i> (Grizzled Skipper / Gwibiwr Brith)	SJ3849	2 records, between 12/05/2000 and 15/05/2000	Recorder Name Withheld	11 Adult; 3 Adult		Site Name Withheld	Comments Withheld	D0217/001/03	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>Satyrrium w-album</i> (White-letter Hairstreak / Brithribin W Wen)	SJ378485	11/07/2006	Recorder Name Withheld	10 Adult		Wrexham Ind Estate	Nr animal feed unit, past Georgia Pacific building	D1373/001/05	RD1(UK)EN, S7, WCA5, LBAP[FLI]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ376489	24/07/2004	Recorder Name Withheld	2 Adult		Pentre Maelor	Habitat: Scrub. Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ378491	06/07/2009	Recorder Name Withheld	1		Wrexham Industrial Estate	Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ379491	07/08/2009	Recorder Name Withheld	1		Wrexham Industrial Estate	Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ3748	25/08/2010	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate	Common. Habitat: Brownfield, calcareous newly-seeded herb-rich grassland and old. Method: Daytime observation	D1285/001/03	S7, LBAP[GWY]	3
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ3749	2 records, between 07/09/2009 and 09/07/2010	Recorder Name Withheld	2 Adult		Wrexham Industrial Estate	Method: Netted	D1285/001/03	S7, LBAP[GWY]	3
<i>Timandra comae</i> (Blood-vein / Gwyfyn Gwythien Goch)	SJ379488	29/05/2018	Recorder Name Withheld	1 Adult		HMP Berwyn Mitigation Area, Wrexham Industrial Estate	Method: Casual record	D1285/001/03	S7	3
<i>Tyria jacobaeae</i> (Cinnabar / Teigr y Benfelen)	SJ378491	19/06/2010	Recorder Name Withheld	1 Adult		Wrexham Industrial Estate	Method: Netted	D1285/001/03	S7, LBAP[GWY]	3
<i>Tyria jacobaeae</i> (Cinnabar / Teigr y Benfelen)	SJ379491	07/08/2009	Recorder Name Withheld	1 Larval		Wrexham Industrial Estate	Method: Daytime observation	D1285/001/03	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)	SJ372483	24/08/2001	Recorder Name Withheld	1 to 9 [Captured - Survey]		River Dee / Clywedog, 207	Survey type: Electric Fishing	D1702/001/01	RD1(UK)CR, S7, LBAP[CON, GWY]	3
<i>Salmo salar</i> (Atlantic Salmon / Eog)	SJ372483	24/08/2001	Recorder Name Withheld	1 to 9 [Captured - Survey]		River Dee / Clywedog, 207	Survey type: Electric Fishing	D1702/001/01	Bern, HDir, RD2(UK), S7, LBAP[CON, DEN, FLI, 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)	SJ3748	02/09/1994	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1486/001/01	EPS, WCA5, LBAP[ANG, DEN, FLI, SNP]	3
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ375489 (Selected from Interactive Map)	28/06/2012	Recorder Name Withheld	1 Adult	Dead on road	Pentre Maelor		D1383/001/01	Bern, S7, LBAP[ANG, CON, FLI, GWY]	4
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3749	19/08/2003	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 Daeear)	SJ3648	16/01/1990	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 Daeear)	SJ3749 (GPS Reading)	26/11/2015	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D1696/001/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	4
<i>Myotis mystacinus</i> (Whiskered Bat / Ystlum Barfog)	SJ3748 (Estimated (Centroid of Site))	02/08/2004	Recorder Name Withheld	1 Adult Male	Bat Rescue	Site Name Withheld	Comments Withheld	D0026/274/01	Bern, EPS, HDir, RD2(UK), WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]	3
<i>Myotis mystacinus</i> (Whiskered Bat / Ystlum Barfog)	SJ3749	30/04/1998	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

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			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)N	3
<i>Crangonyx pseudogracilis/floridanus</i>	SJ3679948396	2 records, between 19/04/2007 and 20/04/2010	Recorder Name Withheld	1		At Five Fords Bridge - Clywedog (Dee)		D1929/001/01	INNS	3
<i>Cyphon pubescens</i>	SJ3747	02/05/2000	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)S	3
<i>Diplapion stolidum</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Adult		Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NB	3
<i>Hydaticus seminiger</i>	SJ3747	02/05/2000	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)S	3
<i>Neophytobius quadrinodosus</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Female		Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NA	3
<i>Odontomyia tigrina</i> (Black Colonel)	SJ3747	02/05/2000	Recorder Name Withheld	several larva		Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)N	3
<i>Pseudorchestes pratensis</i>	SJ3849	04/07/2000	Recorder Name Withheld	1 Adult		Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NB	3
<i>Stenus fornicatus</i>	SJ3747	02/05/2000	Recorder Name Withheld			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NB	3

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>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ37944915	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate	Occasional plants in the area	D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	3
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ380491	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate		D1169/004/02	RD1(Wales)DD, LBAP[CON], LI[VC50]	3
<i>Crepis biennis</i> (Rough Hawk's-beard / Gwalchlys Garw)	SJ3749	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ37944915	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>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>Dactylorhiza fuchsii</i> x <i>praetermissa</i> = <i>D. x grandis</i> (Marsh-Orchid)	SJ37724846	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate	Only <i>D. fuchsii</i> present as parent, with many of the hybrid in flower	D1169/004/02	LI[VC50]	3
<i>Dactylorhiza fuchsii</i> x <i>praetermissa</i> = <i>D. x grandis</i> (Marsh-Orchid)	SJ3748	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ37727.48464. Large patch of robust plants about 10x10m sq. <i>D.fuchsii</i> frequent on Site. This needs confirming. 2nd for VC. 1st for 10km sq. Cultivated/disturbed land: introduced shrub	D1169/004/02	LI[VC50]	4
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ367484 (Selected from Interactive Map)	16/07/2012	Recorder Name Withheld			Five Fords	Large stand by works	D1330/001/01	INNS, WCA9	4
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ3745048453	20/10/2016	Recorder Name Withheld			behind factory	behind factory, only accessible via Clywedog	D1586/014/01	INNS, WCA9	4
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ3745648451	20/10/2016	Recorder Name Withheld			behind UCM factory on river bank	Behind factory, 1 large stand and x2 smaller stands within 25m downstream	D1586/014/01	INNS, WCA9	4
<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>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 / Ytbysen Feinddail)	SJ372492	16/06/2015	Recorder Name Withheld	20		Wrexham Industrial Estate	Dozens in open grassland	D1169/004/02	LI[VC49, VC50]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Lathyrus nissolia</i> (Grass Vetchling / Ytbysen Feinddail)	SJ379490 (Selected from Interactive Map)	29/06/2012	Recorder Name Withheld			Firestones, wrexham industrial estate	Large amount all over site	D1117/001/01	LI[VC49, VC50]	4
<i>Lathyrus nissolia</i> (Grass Vetchling / Ytbysen Feinddail)	SJ3749	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate	Widespread across the site	D1169/004/02	LI[VC49, VC50]	3
<i>Lathyrus nissolia</i> (Grass Vetchling / Ytbysen Feinddail)	SJ3848	2 records, between 29/06/2009 and 11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate	Widespread in the area	D1169/004/02	LI[VC49, VC50]	3
<i>Medicago arabica</i> (Spotted Medick / Maglys Brith)	SJ3749	02/01/2016	Recorder Name Withheld	Flowering		Wrexham Industrial Estate	BSBI New Year Plant Hunt	D1169/004/02	LBAP[GWY], LI[VC49, VC50, VC51, VC52]	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>Ophioglossum vulgatum</i> (Adder's-tongue / Tafod y Neidr)	SJ3749	27/04/2010	Recorder Name Withheld			Wrexham Industrial Site	SJ36944.49344. 1st for 10km sq. 10-15 plants on vacant plot. Close to boundary with farmland. Beneath scrub. Old field boundary?	D1169/004/02	LI[VC48, VC49, VC50, VC51]	3
<i>Petasites hybridus</i> (Butterbur / Alan Mawr)	SJ3748	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	Cultivated/disturbed land: introduced shrub	D1169/004/02	LI[VC48, VC50]	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
<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)	SJ36304841 (Supplied by Original Recorder)	09/09/2006	Recorder Name Withheld	2		Marchwiell Sewage Works; River Clywedog – South bank		D1446/001/01	LBAP[DEN, FLI, SNP, WRE], LI[VC52]	4
<i>Populus nigra</i> (Black-poplar / Poplysen Ddu)	SJ36274842 (Supplied by Original Recorder)	09/09/2006	Recorder Name Withheld	3		Marchwiell Sewage Works; River Clywedog – South bank		D1446/001/01	LBAP[DEN, FLI, SNP, WRE], LI[VC52]	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>Silaum silaus</i> (Pepper-saxifrage / Ffenigl yr Hwch)	SJ377489	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate	Locally frequent here	D1169/004/02	LI[VC50]	3
<i>Silaum silaus</i> (Pepper-saxifrage / Ffenigl yr Hwch)	SJ3748	11/06/2011	Recorder Name Withheld			Wrexham Industrial Site	SJ377489. Locally frequent here. Cultivated/disturbed land: introduced shrub	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)	SJ3749	11/06/2011	Recorder Name Withheld			Wrexham Industrial Estate		D1169/004/02	RD1(Wales)VU	3

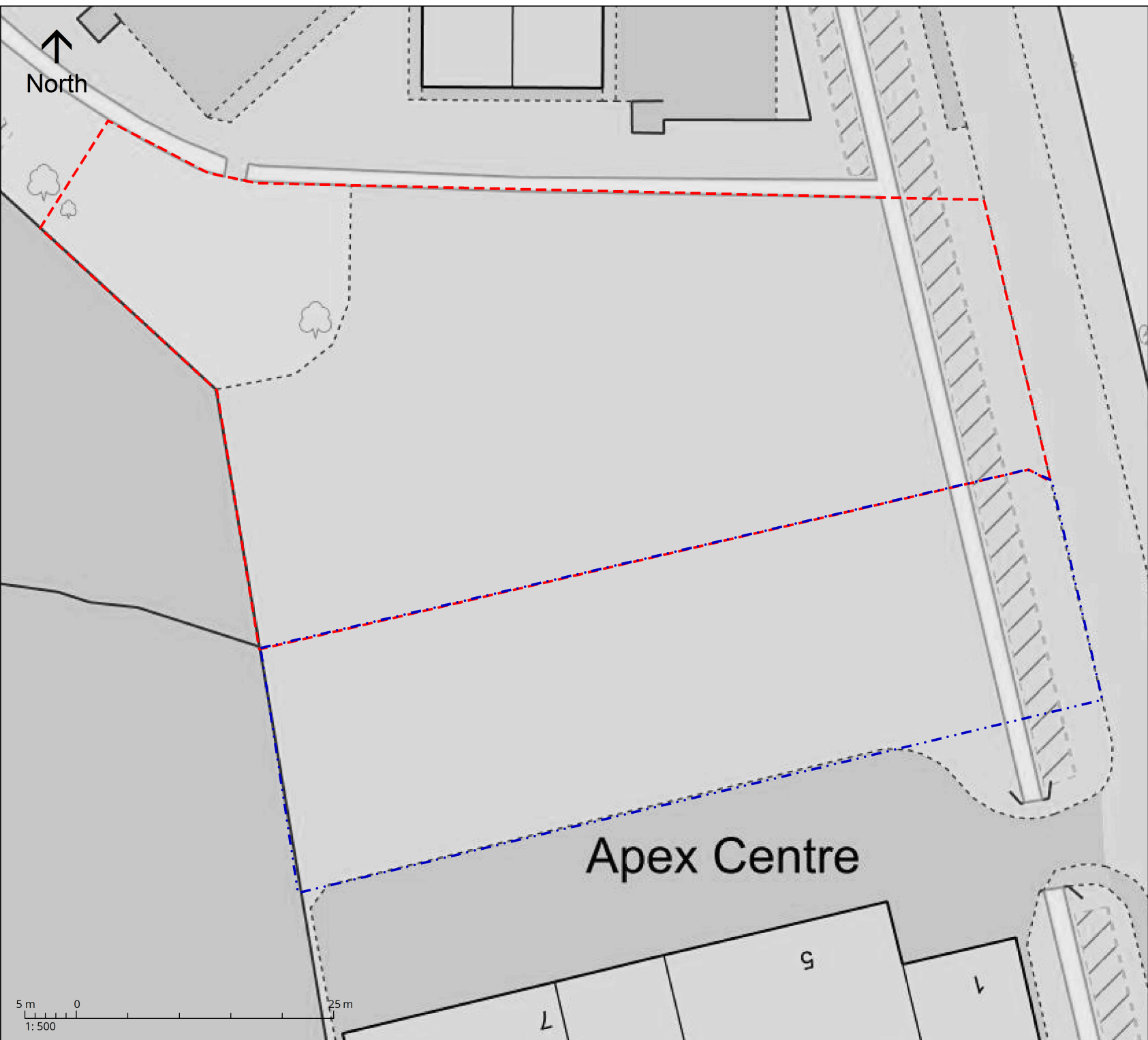
Reptiles and Amphibians										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ380490	Before 2009	Recorder Name Withheld			Redwither Brook		D0035/002/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ3849	2 records, both in 1999	Recorder Name Withheld			Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D1076/001/02 , D0035/002/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ37484890 (Approximate)	2 records, between 31/05/2018 and 16/05/2019	Recorder Name Withheld	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: P06 (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ376489 (Estimated (Centroid of Site))	4 records, between 29/08/2012 and 27/09/2012	Recorder Name Withheld	1 Adult (Sex Unknown); 2 Adult (Sex Unknown)	Terrestrial disturbance	Wrexham Ind Estate - Central: General (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ37684876 (Approximate)	3 records, between 05/04/2018 and 31/05/2018	Recorder Name Withheld	Larva/Tadpole; 2 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: P05 (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ37724848 (Approximate)	3 records, between 12/05/2016 and 11/05/2018	Recorder Name Withheld	4 Adult (Sex Unknown); 1 Adult (Sex Unknown); Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P04 (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ37834860 (Approximate)	3 records, between 11/05/2018 and 31/05/2018	Recorder Name Withheld	2 Adult (Sex Unknown); 1 Adult (Sex Unknown); Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P03 (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ38044871 (Selected from Interactive Map)	2 records, both on 05/04/2018	Recorder Name Withheld	String of Eggs; 3 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: P01 (Wrexham Prison)		D1320/014/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ37684876 (Approximate)	24/04/2019	Recorder Name Withheld	1 Adult Male	Torch Count	Wrexham Ind Estate - Central: P05 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[ANG, CON, DEN, FLI]	3
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ37834860 (Approximate)	24/04/2019	Recorder Name Withheld	1 Adult Male	Torch Count	Wrexham Ind Estate - Central: P03 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[ANG, CON, DEN, FLI]	3
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ38044871 (Selected from Interactive Map)	2 records, between 20/05/2019 and 30/05/2019	Recorder Name Withheld	13 Adult Male; 14 Adult Male	Torch Count	Wrexham Ind Estate - Central: P01 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[ANG, CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ37484890 (Approximate)	3 records, between 11/05/2018 and 16/05/2019	Recorder Name Withheld	4 Adult Male; 2 Adult Male; 1 Adult Male	Torch Count	Wrexham Ind Estate - Central: P06 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ376489 (Estimated (Centroid of Site))	4 records, between 29/08/2012 and 18/09/2012	Recorder Name Withheld	1 Adult Female; 1 Juvenile (Sex Unknown); 2 Juvenile (Sex Unknown)	Terrestrial disturbance	Wrexham Ind Estate - Central: General (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ37684876 (Approximate)	4 records, between 05/04/2018 and 24/04/2019	Recorder Name Withheld	1 Adult Female; 2 Adult Male; 3 Adult Male	Torch Count	Wrexham Ind Estate - Central: P05 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ36984954	08/07/1992	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)	SJ3745548206 (Selected from Interactive Map)	25/08/2017	Recorder Name Withheld	4 Larva/Tadpole	Netted	Wrexham Ind Estate - South: 01		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ37724848 (Approximate)	6 records, between 05/04/2018 and 20/05/2019	Recorder Name Withheld	2 Adult Male; 1 Adult Male; 3 Adult Male	Torch Count	Wrexham Ind Estate - Central: P04 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ37834860 (Approximate)	2 records, between 05/04/2018 and 16/05/2019	Recorder Name Withheld	1 Adult Male; 2 Adult Male	Torch Count	Wrexham Ind Estate - Central: P03 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ37954868 (Approximate)	6 records, between 03/05/2005 and 16/05/2019	Recorder Name Withheld	5 Adult Female; 2 Adult Male; 1 Adult Female; 1 Adult Male	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: P02 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ38044871 (Selected from Interactive Map)	12 records, between 03/05/2005 and 20/05/2019	Recorder Name Withheld	11 Adult Male; 1 Adult Male; 3 Adult Male; 5 Adult Female; 1 Adult Male; 24 Adult Female; 13 Adult Male; 2 Adult Male; 3 Adult Female; 2 Adult Female; 3 Adult Female; 1 Adult Male; 1 Adult Female; 6 A...	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: P01 (Wrexham Prison)		D1320/014/01	Bern, WCA5, LBAP[CON, DEN, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ37484890 (Approximate)	4 records, between 26/04/2016 and 11/05/2018	Recorder Name Withheld	1 Adult (Sex Unknown); 2 Adult (Sex Unknown); 1 Frog Spawn; Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P06 (Wrexham Prison)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ37684876 (Approximate)	5 records, between 05/04/2018 and 24/04/2019	Recorder Name Withheld	1 Age & Sex Unknown; Larva/Tadpole; 1 Frog Spawn; 2 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: P05 (Wrexham Prison)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ36984954	08/07/1992	Recorder Name Withheld					D1122/002/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ37724848 (Approximate)	5 records, between 05/04/2018 and 31/05/2018	Recorder Name Withheld	1 Adult (Sex Unknown); 2 Adult (Sex Unknown); 3 Frog Spawn; Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P04 (Wrexham Prison)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ37834860 (Approximate)	3 records, between 05/04/2018 and 31/05/2018	Recorder Name Withheld	1 Adult (Sex Unknown); Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P03 (Wrexham Prison)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ38044871 (Selected from Interactive Map)	2 records, between 02/06/2005 and 05/04/2018	Recorder Name Withheld	Frog Spawn; 1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate - Central: P01 (Wrexham Prison)		D1320/014/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ366489	Before 23/03/2007	Recorder Name Withheld	3 Male, 2 Female, (2001)		Little Llwyn Onn		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)	SJ37484890 (Approximate)	3 records, between 26/04/2016 and 31/05/2018	Recorder Name Withheld	1 Adult (Sex Unknown); 2 Adult (Sex Unknown); Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P06 (Wrexham Prison)		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)	SJ36594894 (Selected from Interactive Map)	6 records, between 09/05/2001 and 02/06/2009	Recorder Name Withheld	4 Adult Male; 1 Adult Female; 1 Adult Male; 2 Adult Female; 3 Adult Male; Egg	Bottle Trap; Torch Count	Wrexham Ind Estate - West: Pond 18a	Year only record (9th-22nd May 2001); Year only record (9th-22nd May 2001). Eggs present, abundance not noted.	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)	SJ36984944 (Selected from Interactive Map)	17/04/2019	Recorder Name Withheld	Age & Sex Unknown		Wrexham Ind Estate - West: P01	EDNA Record. SureScrene Scientifics. Sample No. 1144. dated 29 April 2019	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)	SJ376489 (Estimated (Centroid of Site))	6 records, between 01/01/1994 and 27/09/2012	Recorder Name Withheld	1 Adult (Sex Unknown); 5 Juvenile (Sex Unknown); 4 Adult Female; 2 Adult Male; 1 Adult Female; 2 Juvenile (Sex Unknown); 3 Juvenile (Sex Unknown); 2 Adult Female; 1 Juvenile (Sex Unknown); 2 Adult Fem...	Torch Count; Terrestrial disturbance	Wrexham Ind Estate - Central: General (Wrexham Prison)	GCN in underground feature when bat survey was being carried out	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)	SJ37684876 (Approximate)	4 records, between 12/05/2016 and 24/04/2019	Recorder Name Withheld	1 Adult Female; 1 Adult (Sex Unknown); 2 Adult Male; 1 Adult Female	Torch Count	Wrexham Ind Estate - Central: P05 (Wrexham Prison)		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)	SJ36984954 (Supplied by Original Recorder)	08/07/1992	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)	SJ37774898 (Approximate)	1994	Recorder Name Withheld	Present		Firestone Factory		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)	SJ3745548206 (Selected from Interactive Map)	25/08/2017	Recorder Name Withheld	1 Adult (Sex Unknown)	Not Applicable	Wrexham Ind Estate - South: 01		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)	SJ37724848 (Approximate)	8 records, between 26/04/2016 and 24/04/2019	Recorder Name Withheld	4 Adult Male; 1 Adult Female; 2 Adult Male; 1 Adult (Sex Unknown); 2 Adult (Sex Unknown); Larva/Tadpole; 1 Adult Male; 2 Adult Female; Egg	Torch Count	Wrexham Ind Estate - Central: P04 (Wrexham Prison)		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)	SJ37834860 (Approximate)	7 records, between 12/05/2016 and 16/05/2019	Recorder Name Withheld	2 Adult Male; 3 Adult (Sex Unknown); 3 Adult Male; 2 Adult Female; Larva/Tadpole	Torch Count	Wrexham Ind Estate - Central: P03 (Wrexham Prison)		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)	SJ37954868 (Approximate)	3 records, between 11/05/2005 and 16/05/2019	Recorder Name Withheld	2 Adult Female; 1 Adult Female	Bottle Trap; Torch Count	Wrexham Ind Estate - Central: P02 (Wrexham Prison)		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)	SJ3755248011 (Selected from Interactive Map)	11 records, between 11/04/2003 and 15/04/2005	Recorder Name Withheld	1 Adult Male; 4 Adult Female; 2 Adult Female; 1 Adult Female; 2 Adult Male; Egg	Bottle Trap; Torch Count	Wrexham Ind Estate - South: Pond 37/38 (03)	Combined count - surveyed separately in 2005.; Combined count - surveyed separately in 2003; Combined count - Surveyed separately in 2005. Abundance not noted; Combined count - Surveyed separately in 2005. Abundance not noted	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)	SJ38044871 (Selected from Interactive Map)	13 records, between 03/05/2005 and 30/05/2019	Recorder Name Withheld	5 Adult Male; 1 Adult Female; 5 Female; 1 Adult Female; 4 Adult (Sex Unknown); 2 Adult Male; 1 Adult Male; 1 Adult Female; Egg; 1 Adult (Sex Unknown); 2 Adult Male; 1 Adult Female; 2 Adult Female; 4 A...	Torch Count; Bottle Trap	Wrexham Ind Estate - Central: P01 (Wrexham Prison)		D1320/014/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Vipera berus</i> (Adder / Gwiber)	SJ380490	Before 2009	Recorder Name Withheld			Redwither Brook		D0035/002/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Vipera berus</i> (Adder / Gwiber)	SJ3849	2 records, both in 1999	Recorder Name Withheld			Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D1076/001/02 , D0035/002/01	Bern, S7, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3

Statutory Sites returned by search	None
Wildlife Sites intersecting 1000m buffer	W316: Cefn Park (972m)
Ancient Woodland sites (if searched)	33412: Ancient Semi Natural Woodland (558m), 33400: Ancient Semi Natural Woodland (641m), 30636: Restored Ancient Woodland Site (685m), 33397: Ancient Semi Natural Woodland (707m), 28954: Ancient Semi Natural Woodland (974m)
Phase I Habitats intersecting 1000m buffer (Habitat at central point shown in red, if found)	A.1.1.1: Semi-natural Broad-leaved Woodland (0.79% / 24,720 sq.m), A.1.1.2: Planted Broad-leaved Woodland (0.06% / 1,780 sq.m), A.2.1: Dense Scrub (1.11% / 34,880 sq.m), B.2.2: Semi-improved Neutral Grassland (1.83% / 57,616 sq.m), B.4: Improved Grassland (35.34% / 1,110,227 sq.m), B.5: Marshy Grassland (0% / 67 sq.m), C.3.1: Tall Ruderal Herb (0.17% / 5,485 sq.m), G.1: Standing Water (0.11% / 3,367 sq.m), G.2: Running Water (0.73% / 22,803 sq.m), J.1.1: Arable (18.02% / 566,108 sq.m), J.1.2: Amenity Grassland (1.83% / 57,618 sq.m), J.1.3: Ephemeral/Short Perennial (14.56% / 457,439 sq.m), J.3.6: Buildings (20.39% / 640,453 sq.m), J.4: Bare Ground (0.71% / 22,191 sq.m), NA: Not Accessed Land (0.08% / 2,636 sq.m)



-  Application site
-  Future development site

Boundaries are approximate only.
Whole boundary = Survey Site

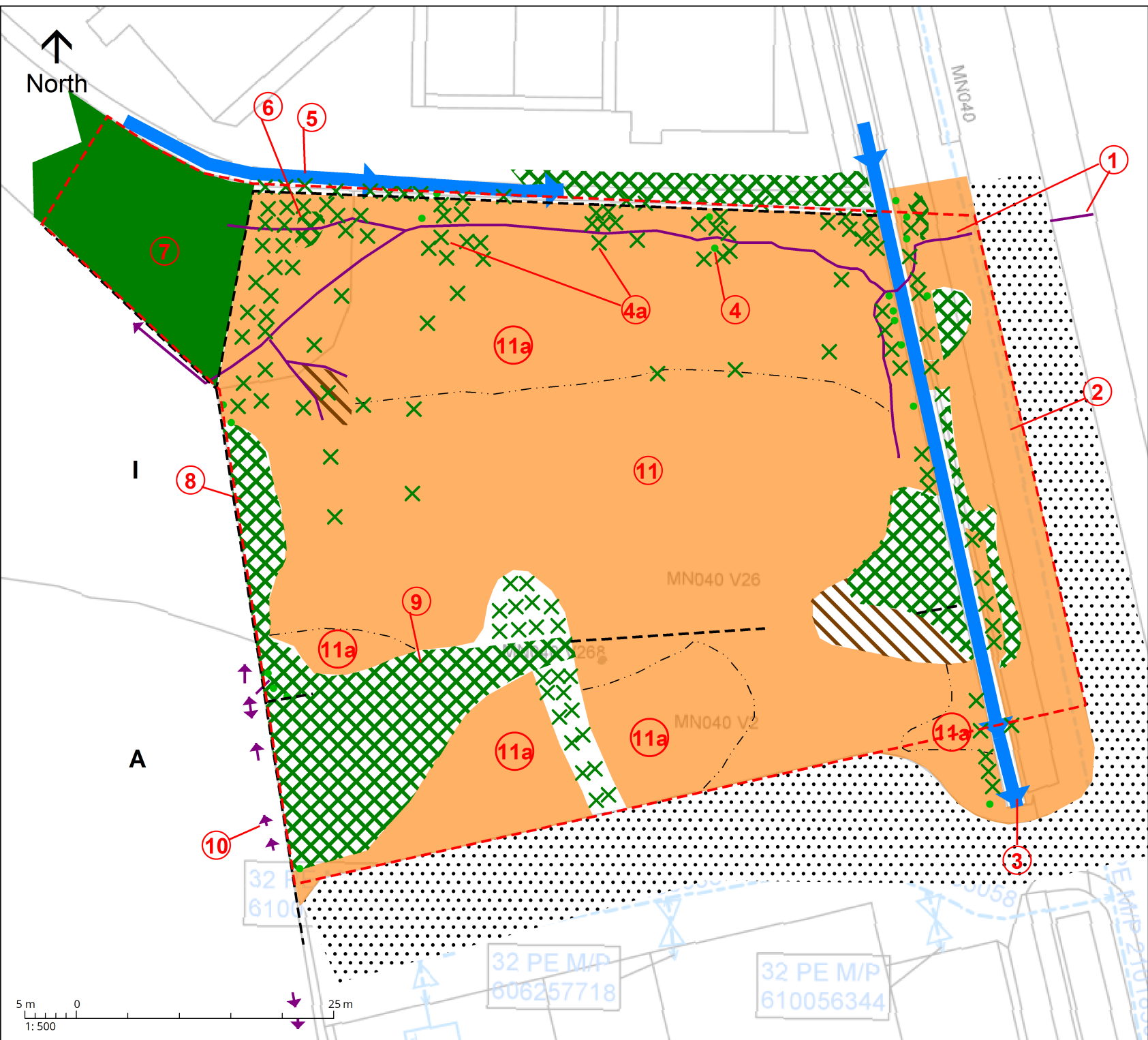
**C419 Proposed Development, Plot B,
Clywedog Road South, Wrexham
Industrial Estate, Wrexham - Preliminary
Ecological Appraisal**

Figure 1 - Site Boundary

Date: 20/06/2020



www.marchesecology.co.uk



- Broad-leaved semi-natural woodland
- Dense/ continuous scrub
- Individual broad-leaved tree
- Scattered scrub
- Unimproved neutral grassland
- Boundary between species-rich and species-poor grassland
- Tall ruderal
- Hard-standing
- Running water
- Badger path/ breach
- Fence
- Target Note
- Survey site boundary

C419 Proposed Development, Plot B, Site 4000, Clywedog Road South, Wrexham Industrial Estate, Wrexham - Preliminary Ecological Appraisal

Figure 2 - Extended Phase 1 Habitat Survey

Date: 26/03/2020

marches ecology

www.marchesecology.co.uk