J W ECOLOGICAL LTD

Ecological Assessment

Westminster Industrial Estate, Gwersyllt

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THIS REPORT REPRESENTS AN INITIAL ECOLOGICAL ASSESSMENT OF THE SITE. FURTHER SURVEYS, AS DESCRIBED IN THE CONCLUSIONS SECTION, MAY NEED TO BE IMPLEMENTED PRIOR TO THE SUBMISSION OF A PLANNING APPLICATION. ECOLOGICAL ISSUES ARE A MATERIAL CONSIDERATION IN DETERMINING PLANNING APPLICATIONS AND ALL RELEVANT SURVEYS MUST BE COMPLETED PRIOR TO APPLYING FOR PLANNING PERMISSION.

PLEASE NOTE THAT WHILST EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE CONTENT OF THIS REPORT IS ACCURATE THE SURVEY REPRESENTS ONLY A SNAPSHOT IN TIME AND THE ECOLOGICAL ISSUES ON SITE MAY CHANGE. THE ADDITIONAL SURVEY WORKS RECOMMENDED IN THIS REPORT ARE WHAT IS THOUGHT TO BE REQUIRED IN THE OPINION OF THE SURVEYOR. THE LOCAL PLANNING AUTHORITY OR NATURAL ENGLAND MAY IN SOME CASES REQUEST ADDITIONAL INFORMATION NOT OUTLINED IN THIS REPORT.

1.0 INTRODUCTION

1.1 J W Ecological Limited were commissioned in July 2014 to undertake a baseline ecological assessment of part of the Westminster Industrial Estate, Gwersyllt, Wrexham (SJ 31567 53833). The full survey area is shown on the site location plan D/JWE/1530/001 (Appendix 1).

1.2 The aims of this ecological assessment were to:

- Assess and describe the Valuable Ecological Components (VECs) of the proposed development site and all land within 250 metres (referred to as "the wider survey area").
- Assess the likely ecological impacts of the development.
- Identify further survey and mitigation requirements
- Identify ecological features of the site that should be protected
- Provide guidance as to ecological enhancement of the site

1.3 To meet the aims of the ecological assessment the following actions were undertaken:

- Desktop study of all land within 500 metres of the development site
- Extended phase one habitat survey of the development site and adjacent land

1.4 The sites ecological value was assessed in context with current UK planning and legislative policy, including:

- Protected sites (statutory and non-statutory)
- Statutorily protected species
- UK and local Biodiversity Action Plan (BAP) species
- Species and habitats of local concern
- Local wildlife strategies

1.5 Prior to any survey work a health and safety risk assessment of the site was undertaken. Risk assessments are undertaken on a site by site basis in order to identify potential risks with the aim to reduce these as far as is practicable.

2.0 SITE LOCATION AND DESCRIPTION

2.1 The site is located at the northern end of the Westminster Industrial Estate, off Mold Road, to the north of Gwersyllt.

2.2 The survey area comprises three commercial yard areas. The yards are predominantly bare ground and contain a number of commercial buildings with a single residential bungalow to the north. Areas of scrub are located towards the site boundaries.

2.3 The survey area is bordered by playing fields to the north and west, an area of open land to the east and by the remainder of the industrial estate to the south.

3.0 DESKTOP STUDY

3.1 Ecological data and records of protected species were requested/gathered from the following sources (Table 1):

Table 1: Desktop Study Sources

Consultee/Source of Information	Information Supplied
NBN Gateway	Protected species and site records within 1 kilometre of the proposed development site.
Cofnod	Protected species records within 1 kilometre of the proposed development site.
Natural Resources Wales (NRW)	Protected nature conservation sites within 1 kilometre of the survey area.
UK Biodiversity Action Plan	Identification of national priority species and habitats known to occur in the region.
Local Biodiversity Action Plan	Identification of local priority species and habitats known to occur in the area.

Statutorily Protected Sites

3.2 No statutorily designated nature conservation sites are located within 1 kilometre of the survey area.

Non-Statutorily Designated Sites

3.3 Three local wildlife sites are located within 1 kilometre of the site. The closest of these, Woodlands and Fishpond Wood, is located some 600 metres from the survey area. The Alyn Waters Country Park is also located some 600 metres north-west of the site on the opposite side of Mold Road.

Protected Species

3.4 A number of records of grass snake, common pipistrelle and Daubentons bat exist within the Alyn Waters Country Park, which is located some 600 metres north-west of the survey area on the opposite side of Mold Road. A record of a great crested newt dating from 2011 also exists within the park.

Hedgehog, a UK and local BAP species, have been recorded in close proximity to the site.

The full Cofnod search results are provided in Appendix 4.

3.5 Based on information gathered from the sources listed above and desk based assessment of the site from OS maps and aerial photographs the following protected species were taken into account during the site assessment:

- Bats (all species);
- Great crested newt (*Triturus cristatus*);
- Badger (*Meles meles*);
- Water Vole (*Arvicola terrestris*);
- Otter (*Lutra lutra*);
- Reptiles (all species);

UK Biodiversity Action Plan (UKBAP) Priority Species

3.6 The UKBAP priority species which may potentially use the survey area, based on the results of the desktop study are:

- Mammals – Bats*, Badgers*, Hedgehog, Otter*, Water Vole*
- Birds – Song Thrush, Sky Lark etc.
- Amphibians – Great Crested Newts*, Common Toad

** These species and/or their habitats are also statutorily protected*

Local Biodiversity Action Plan (LBAP)

3.7 The Wrexham Biodiversity Action Plan (BAP) lists key local species and habitats considered to be rare or declining in the area. Some of these species and habitats may also be of national concern.

3.8 Although local BAP documents have no legal status the Local Planning Authority (LPA) and NRW will expect the listed species and habitats to be taken into account in the overall layout and landscape strategy for the development.

3.9 The species of local concern which may potentially utilise the survey area based on the results of the desktop study are:

- Mammals – Badger*, Otter*, Lesser Horseshoe bat*, Hedgehog;
- Amphibians – Great Crested Newts*;
- Birds – Barn Owl*;
- Reptiles – All species*;
- Invertebrates – Dingy Skipper, Grizzled Skipper.

** These species and/or their habitats are also statutorily protected*

4.0 PLANNING CONTEXT

Planning Policy Wales (Edition 3, July 2010)

4.1 This document contains current land use planning policy for Wales. It provides the policy framework for the effective preparation of local planning authorities' development plans. This is supplemented by 21 topic based Technical Advice Notes (TANs). Procedural guidance is given in Welsh Office / National Assembly for Wales / Welsh Assembly Government circulars

4.2 Technical Advice Note 5 provides advice about how the land use planning system should contribute to protecting and enhancing biodiversity and geological conservation. This guidance note should be read in conjunction with *Planning Policy Wales (2002)*, in particular with Chapter 5 *Conserving and Improving the Natural Heritage and Coast* which sets out the Assembly Government's objectives for the natural heritage and the land use planning policies which support these.

4.3 This TAN brings together advice on sources of legislation relevant to various nature conservation topics which may be encountered by local planning authorities. Chapter 2 sets out the key principles of planning for nature conservation. Chapter 3 provides advice about the preparation and review of development plans, including the relevant statutory requirements. Chapter 4 addresses nature conservation in development control procedures. Chapter 5 deals with the conservation of internationally and nationally designated sites and habitats and also covers local sites. Chapter 6 deals with the conservation of protected and priority species.

5.0 LEGISLATIVE CONTEXT

5.1 This is a brief summary of the ecological legislative context in Wales. This is general advice only and does not relate specifically to the site being assessed.

Ecological Assessments

5.2 Ecological assessments have now become an important part of the planning process. This initial assessment is used as a means of identifying any specific interests of the site in question which are in turn used to assess suitability for protected species and to make recommendations for further survey work and mitigation.

Statutory Designated Sites

5.3 Sites with Statutory designations receive varying degrees of legal protection under UK law and European Directives. A number of statutory designations are used for sites of high conservation value in the UK dependent on the importance of the site at a local, regional, national and international level. These designations are:

- Special Area of Conservation (SACs)
  SACs are sites of European importance for nature conservation. These receive legal protection under the EC Habitats Directive (1992) which was incorporated into UK legislation through the Conservation (Natural Habitats, &c) Regulations 1994. In the UK all SACs are also designated as SSSIs.

- Special Protection Areas (SPAs)
  SPAs are sites of European importance for birdlife as designated under the Birds Directive. As with SACs all SPAs in the UK will also be designated as SSSIs.

- Ramsar Sites
  These sites are wetlands of international importance designated under the Ramsar Convention 1971. In most cases these sites are also designated as SPAs or Sites of Special Scientific Interest (SSSI) and receive legal protection in the UK through these designations.

- Sites of Special Scientific Interest (SSSI)
  SSSIs are UK sites of national importance for nature conservation. These sites may be designated as a result of the habitats present or for the presence of rare species or species assemblages. SSSIs receive some legal protection through the Wildlife and Countryside Act 1981. This protection was recently extended through the Countryside and Rights of Way (CROW) Act 2000.

- National Nature Reserves (NNR)
  NNRs are nationally important nature reserves designated by CCW under the Wildlife and Countryside Act 1981. These sites will either be managed by CCW or an approved body and are often designated as SSSIs.

- Local Nature Reserves (LNR)
  Local Nature Reserve is a statutory designation made by local authorities under the Section 21 of the National Parks and Access to Countryside Act 1949. These sites may or may not be SSSIs.

Non-Statutory Designated Sites

5.4 Non-statutory sites are afforded no statutory legal protection but are in most cases recognised by local planning authorities and statutory agencies as being of local conservation value. The protection of these sites is usually afforded through Local Plan Policies (county, district and Unitary Development Plans) and these sites will in most cases be taken into account as a material consideration by the local authority when deciding planning applications. These sites are designated by the local authority (usually in consultation with the local Wildlife Trust and other agencies).

Protected Species and their Habitats

5.5 In the majority of cases relevant to planning applications protected species are those listed in Schedules 1, 5 and 8 of the Wildlife and Countryside Act (as amended), the Protection of Badgers Act 1992 and the Habitats & Species Regulations 2010. The extent of legal protection varies between species, as do the implications for developments where these species are to be affected.

5.6 Great Crested Newts

Great Crested Newts (*Triturus cristatus*) are protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended), being listed in Schedule 5 of the act. Under the legislation it is an offence to:

- Intentionally kill, take or injure a great crested newt;
- Damage, destroy or obstruct a place a great crested newt uses for breeding, resting, shelter or protection or to disturb a great crested newt in such a place.
- Possess or control a great crested newt alive or dead, or any part of them, or anything derived from them.
- Sell, offer for sale, advertise for sale or offer to buy a great crested newt, or a part of them or anything derived from them.
- Deliberately disturb or deliberately take or destroy the eggs of a great crested newt.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

Licenses can be issued in order to allow activities that would constitute an offence under the legislation. Licenses can be issued for specific purposes including scientific study, photography, conservation management and development.

It is important to identify the presence of great crested newts as early as possible in a development so that the legal obligations regarding this species can be observed. If surveys identify the presence of great crested newts on site a mitigation scheme must be developed in consultation with the local NRW team. This mitigation scheme must minimise direct threats to newts and compensate for any habitat loss. A licence issued by the Welsh Assembly is required before the mitigation scheme can be legally implemented. Mitigation licence applications require full Method Statements and a Reasoned Statement of Application. The method statement contains details of the proposed mitigation works whilst the Reasoned Statement must provide justification as to how the proposed development meets the requirements of the legislation.

5.7 Bats

All species of bat and their breeding sites or resting places (roosts) are protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended). Under the legislation it is an offence to:

- intentionally kill, injure or handle a bat;
- to possess a bat (whether live or dead)
- disturb a roosting bat;
- sell or offer a bat for sale without a licence;
- damage, destroy or obstruct access to any place used by bats for shelter, whether they are present or not.

The potential fine for each offence is £5,000. If more than one bat is involved, the fine is £5,000 per bat. An offender can also be imprisoned for up to six months.

Where bats are found to occur on a development site, and there is considered to be a reasonable possibility that a roost may be damaged or destroyed or that bats using a roost will be disturbed, a licence must be obtained from NRW.

5.8 Badgers

Badgers (*Meles meles*) and their habitat are protected under The Protection of Badgers Act 1992 and are also included on Schedule 6 of the Wildlife and Countryside Act 1981, and Appendix III of the Bern Convention. The legislation affords badgers protection against deliberate harm or injury making it an offence to:

- wilfully kill, injure, take, possess or cruelly ill-treat a badger (or attempt to do so)
- to interfere with a sett by damaging or destroying it
- to obstruct access to, or entrance of, a badger sett
- to disturb a badger whilst it is occupying a sett

Penalties for offences include fines of up to £5000, plus up to six months imprisonment, for each illegal sett interference, badger injury or death.

Works that disturb badgers whilst they are occupying a sett are illegal without a licence. Disturbance can occur even without direct interference or damage to the sett in question. In general, the following activities are likely to require a licence:

- Use of heavy machinery or significant earth moving within 30m of a sett
- Use of lighter machinery (usually any wheeled vehicles) within 20m of a sett
- Any digging, chain saw use or scrub clearance within 10m of a sett

5.9 Reptiles

All species of British reptile are protected against intentional killing, injury or sale under the Wildlife and Countryside Act 1981 (as amended). The Sand Lizard and the Smooth Snake are afforded a higher degree of protection under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 making it an offence to:

- Intentionally kill, take or injure these species of reptile;
- Damage, destroy or obstruct a place a these species use for breeding, resting, shelter or protection or to disturb these species in such a place;
- Possess or control these species alive or dead, or any part of them, or anything derived from them;
- Sell, offer for sale, advertise for sale or offer to these species, or a part of them or anything derived from them;
- Deliberately disturb or deliberately take or destroy the eggs of these species.

The distribution of Smooth Snakes and Sand Lizards is limited to heathland habitats in Surrey, Dorset, Hampshire and Sussex. The Sand Lizard is also known to occur on sand dune habitats in Merseyside and has recently been introduced to some areas of North Wales.

Licenses can be issued in order to allow activities that would constitute an offence under the legislation. Licenses can be issued for specific purposes including scientific study, photography, conservation management and development.

In England and Wales a development license must be obtained from Natural England or NRW before undertaking any works that will affect Sand Lizards or Smooth Snakes or their habitat. A license is not required to carry out surveys or mitigation for other reptile species.

5.10 Otters

The Eurasian Otter is protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended), being listed in Schedule 5 of the act. Under the legislation it is an offence to:

- Deliberately, capture, injure or kill an Otter;
- Damage, destroy or obstruct their breeding or resting places;
- Disturb otters in their breeding or resting places.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

There is, however, provision within the legislation to kill, take, disturb or possess otters or to use prohibited methods to kill or take under a licence in certain defined circumstances, if the issue cannot be resolved by any alternative means. Licenses can be granted for a variety of purposes, including development.

5.11 Water Vole

Water Voles and their habitats are afforded protection under Section 9 of the Wildlife & Countryside Act 1981 (as amended). Under the legislation it is an offence to:

- Intentionally kill, injure or take (capture) a water vole;
- Possess or control a live or dead water vole, or any part of a water vole or anything derived from a water vole;
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place which a water vole uses for shelter or protection
- Intentionally or recklessly disturb a water vole while it is occupying a structure or place which it uses for shelter or protection;
- Sell, offer or expose for sale, or have in one's possession or transport for the purpose of sale, any live or dead water voles, or any part of a water vole or anything derived from a water vole;
- Publish any advertisement, or cause any advertisement to be published, which is likely to be understood as conveying that a person buys or sells, or intends to buy or sell, any of the above things.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

There is no provision under the Wildlife and Countryside Act 1981 for licences to be issued for the purpose of development

5.12 Birds

Section 1 of the Wildlife and Countryside act 1981 makes it an offence to intentionally kill, injure, handle or remove any wild bird (with the exception of some pest species), to take or damage a nest whilst it is in use or being built and to take or destroy eggs.

Species listed in Schedule 1 of the Act (see Table 1), including the Little Ringed Plover, Barn Owl and Kingfisher, are afforded an even higher level of protection. In addition to the offence of taking, damaging or destroying nests or eggs it is also an offence to disturb Schedule 1 species whilst they are building or sitting on nests.

Whilst it is not an offence to disturb non-Schedule 1 species whilst they are building or sitting on a nest an offence may occur if the bird is permanently driven away from its nesting site by prolonged disturbance which leads to the failure of eggs or the death of young.

Surveys for the presence of breeding birds are required if any nesting habitat is to be removed during the breeding season (March to August inclusive).

Invasive Plant Species

5.13 Under Section 14 (2) of the Wildlife and Countryside Act (1981) it is illegal to spread the invasive non-native plants Japanese Knotweed (*Fallopia japonica*), Himalayan Balsam (*Impatiens glandulifera*) and Giant Hogweed (*Heracleum mantegazzianum*). At present no requirement exists to eradicate these plants from sites where they are already established

5.14 Environment Agency guidance also exists for the aquatic weeds Australian swap stonecrop (*Crassula helmsii*), Floating pennywort (*Hydrocotyle ranunculoides*) and Parrot's feather (*Myriophyllum aquaticum*). Although no legal obligation exists it is considered good practice to avoid spreading these invasive plants when working in infested areas.

6.0 HABITAT SURVEY

Extended Phase One Methods

6.1 An extended phase one habitat survey of the site was undertaken by Joe Whittick BSc (Hons.) MCIEEM on the 31st July 2014.

6.2 The extended phase one habitat survey is a standard method of survey widely used as the basis of ecological assessments (JNCC, 1993). The phase one survey covers the footprint of the proposed development and descriptions of the immediate surrounding area (up to 100 metres). A habitat map is prepared to show the locations and extent of habitats. Detailed descriptions of important plant communities, other valuable ecological components (e.g. protected species potential) and invasive plant species are provided as target notes.

6.3 The phase one habitat survey is not intended to provide a comprehensive list of species. Plant species lists have been compiled with the aim of characterising habitats in order to asses their importance for nature conservation.

6.4 Incidental observations of birds and mammals were also made during the phase one habitat survey.

Results

6.5 The habitat survey is illustrated on Drawing D/JWE/1530/002 (Appendix 1). Target Notes are presented in Appendix 2.

6.6 The following habitats were recorded within the survey area and adjacent land:

- Buildings
- Bare ground
- Ephemeral/short perennial herbs
- Amenity grassland
- Semi-improved grassland
- Tall ruderal herbs
- Dense/continuous scrub
- Scattered scrub
- Broad-leaved plantation woodland
- Scattered broad-leaved trees
- Scattered coniferous trees

6.7 Habitats within the proposed development site and wider survey area:

- Buildings
  A number of commercial buildings and a single residential bungalow are located on site:

  Building 1 is a commercial building constructed of breeze block and corrugated sheet (see photograph 1, Appendix 3).

  Building 2 is a single-storey office/workshop building constructed of prefabricated panels and with a flat roof (see photograph 2, Appendix 3). The building has fascia boards around the edge of the roof.

  Building 3 is a large single-storey industrial building constructed of corrugated steel sheet (see photograph 3, Appendix 3).

  Building 4 is a small single-storey brick building with a dilapidated pitched steel sheet roof (see photograph 4, Appendix 3).

  Building 5 is a large workshop building constructed of brick and corrugated sheet with a pitched corrugated sheet roof (see photograph 5, Appendix 3). The building is open to the roof on the interior (see photograph 6, Appendix 3)

  Building 6 is a small single-storey brick office building with a flat felt roof (see photograph 7, Appendix 3). The building has timber fascia boards around the edge of the roof.

  Building 7 is a residential bungalow building. The bungalow is of brick construction with a pitched concrete tile roof.

- Bare ground
  Extensive areas of hard-standing access roads and yards are located throughout the site (see photograph 8, Appendix 3).

- Ephemeral/short perennial herbs
  Areas of herbs on shallow gravelly soil are located throughout the site (see photograph 9, Appendix 3). Species in these areas include self-heal, yarrow, ragwort, daisy, colt's-foot and clover.

- Amenity grassland
  Small areas of amenity grassland are located adjacent to Building 6.

- Semi-improved grassland
  A small area of species-poor rough semi-improved grassland is located to the north of the site (see photograph 10, Appendix 3). Species in this area include yarrow, ribwort plantain, daisy, occasional bird's-foot trefoil and red clover.

- Tall ruderal herbs
  Small areas of tall herbs are located towards the site boundaries.

- Scrub
  Dense areas of scrub are located along the northern and western site boundaries (see photograph 11, Appendix 3). The area of scrub on the embankment on the south-western site boundary is particularly dense and includes scattered trees (see photograph 12, Appendix 3). Species in the scrub areas include bramble, willow, broom, elder, hawthorn and ragwort.

- Scattered scrub
  Scattered bramble and willow scrub is located throughout the survey area. Self-seeded sapling trees including ash and silver birch are also present throughout the site.

- Broad-leaved plantation woodland
  A band of broad-leaved plantation trees extends along the outside of the northern and western site boundaries (see photograph 13, Appendix 3). Species in this area include oak, ash, hawthorn, blackthorn and elder.

- Scattered broad-leaved trees
  Scattered planted trees including sycamore and rowan are located to the west of Building 6 (see photograph 14, Appendix 3).

  Scattered trees including rowan, willow, ash and sycamore are located in the scrub areas on site, particularly the scrub area on the embankment on the western site boundary.

- Scattered coniferous trees
  A band of mature conifers is located on the south-eastern site boundary (see photograph 15, Appendix 3).

6.8 Extended Phase One Habitat Survey Overview

- Great crested newts – No ponds were identified on site and no ponds are shown on OS maps within 250 metres of the site boundary.

- Bats – An internal and external bat survey of the commercial buildings on site was undertaken as part of the phase one survey. In general all of the commercial buildings were assessed as having low potential as roosting sites given their relatively modern construction and corrugated sheet or flat roofs which offer limited roosting opportunities for bats. Single or small numbers of bats, particularly species such as the pipstrelles, could however roost in small gaps and crevices around the edges of the roofs of the buildings or behind fascia boards. No evidence of past or present bat roosting activity was identified during the daytime survey.

  The bungalow building to the north of the site was not subject to detailed survey. The building was however assessed to have moderate potential as a roosting site.

  No trees on site were found to have features which could support roosting bats.

  Bats use linear habitat features, such as lines of trees and hedgerows, as navigational markers allowing them to commute between roosting and foraging sites. The trees and scrub areas at the site boundaries, particularly the western boundary, could be used by bats in this way.

- Badgers – No badger setts, or other evidence of badger activity (latrines etc.), were identified on site or within 30 metres of the site boundary. Dense scrub did however restrict access to some parts of the site, particularly along the embankment on the western site boundary.

- Reptiles – The habitats on site offer some limited foraging and refuge opportunities for common reptile species, primarily confined to the areas of scrub at the site boundaries.

- Water Voles – No habitats with potential to support water voles are located on or adjacent to the site.

- Otters – No habitats with potential to support otters are located on or adjacent to the site.

- Birds – Birds are likely to nest in the trees and scrub located on and adjacent to the survey area. Birds could also potentially nest in/on the site buildings.

- Invasive Species – No Japanese Knotweed, Himalayan balsam or giant hogweed were identified within the site boundary. Dense vegetation did however restrict the survey in some areas, particularly along the embankment on the western site boundary. Japanese knotweed is present in land outside of the southern site boundary.

6.9 Other Observations

No other issues were identified on site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Protected Sites

No statutorily designated nature conservation sites are located within 1 kilometre of the survey area.

Three local wildlife sites are located within 1 kilometre of the survey area. No impacts on these sites are predicted given their distance from the survey area and that they are all separated from the site by significant development or main roads.

7.2 Habitats

The site comprises predominantly existing buildings and bare ground with limited conservation value. The areas of scrub and trees at the site boundaries will have ecological value, particularly to birds and invertebrates, and will also act as wildlife corridors. The dense scrub and trees on the embankment on the western site boundary has particularly value as a wildlife corridor and should ideally be retained as part of any proposals for the site.

In order to enhance the ecological value of the site any new tree and shrub planting should aim to use a high proportion of native species or species with known attraction to wildlife (particularly native flowering plants). This will ensure that the site has value to local wildlife.

7.3 Great Crested Newts

No ponds were identified on site and no ponds are shown on OS maps within 250 metres of the site boundary. No great crested newt issues are thought to exist for the proposals.

7.4 Bats

The buildings on site, with the exception of the residential bungalow to the north, have generally low potential as roosting sites for bats. No evidence of bat roosting activity was however identified during the daytime survey. The bungalow building to the north of the site will not be affected by the current proposals. If this were to change then further dusk/dawn bat surveys of this building are recommended during the period May to August.

No trees on site were found to have features which could support roosting bats. No bat roosting issues are thought to exist for any tree works.

Bats use linear habitat features, such as lines of trees and hedgerows, as navigational markers allowing them to commute between roosting and foraging sites. The trees and scrub on the northern, eastern and western site boundaries could be used by bats in this way. These features of the site should be retained wherever possible. If significant loss of potential bat commuting routes will take place then additional dusk and dawn bat activity surveys may be required in order to identify any significant commuting routes and foraging areas and to ensure that these are adequately mitigated for.

New external lighting as part of the proposals has the potential to impact bat commuting and foraging activity. In order to minimise impacts external light levels should be kept to the minimum necessary and light should be directed towards the centre of the site and away from the site boundaries.

7.5 **Badgers**

No badger setts, or other evidence of badger activity, were identified on site during the phase one survey. Dense scrub did however restrict the survey in some areas, particularly on the embankment on the western site boundary. As a precaution, any clearance of dense vegetation from the site should be undertaken with care and with badgers in mind. If any large mammal holes are identified then all works should cease and an experienced badger ecologist should be contacted for further guidance.

7.6 **Reptiles**

The habitats on site are in general of a poor quality for reptiles. Foraging and refuge opportunities do however exist, particularly towards the site boundaries.

As a precaution, the clearance of any potential reptile refuge areas from the site (eg. dense scrub/shrubs) should be undertaken with care under an appropriate method statement in order to allow any reptiles which may be present to disperse. If significant loss of habitats will occur then additional reptile surveys may be required. The optimum survey months are April/May and September.

7.7 **Water Voles**

No habitats with potential to support water voles are located on or adjacent to the site. No water vole issues are thought to exist for the proposals.

7.8 **Otters**

No habitats with potential to support otters are located on or adjacent to the site. No otter issues are thought to exist for the proposals.

7.9 **Birds**

Birds could nest in the trees and shrubs on site and these habitats should wherever possible be retained as part of any proposals. Where removals are unavoidable, works to remove/manage potential nesting habitat should where possible be undertaken outside of the bird nesting season (the nesting season runs from March to August inclusive). If clearance/management works are to take place during the nesting season a recheck of the site should be undertaken by an experienced surveyor immediately prior to the start of works. If breeding birds are found during the survey the nest should not be disturbed and works should be delayed until nesting is complete and young birds have fledged. Nesting bird checks should also be undertaken if works to the site buildings will commence during the nesting season.

7.10 **Hedgehog**

Any clearance of potential hedgehog refuge areas (for example dense scrub, wood piles) should be undertaken with care and preferably by hand in order to avoid harm to any hedgehogs which may be present. Where possible, clearance of potential refuge areas should also be avoided during the winter months when hedgehogs may be hibernating.

7.11 **Invasive Species**

No Japanese Knotweed, Himalayan Balsam or Giant Hogweed were identified within the site boundary during the phase one survey. The survey was however restricted by dense vegetation in some areas, particularly on the embankment on the western site boundary. As a precaution, any clearance of dense vegetation from the site should be undertaken with care as stands of invasive species could be concealed within these areas.

Japanese knotweed is present in land outside of the southern site boundary. This area should not however be disturbed by works on site.

THESE SURVEY RESULTS ARE VALID FOR UP TO 1 YEAR AFTER WHICH RE-SURVEYS ARE RECOMMENDED

8.0 REFERENCES

Wrexham Biodiversity Action Plan (BAP)

NATURE CONSERVANCY COUNCIL (1990) Handbook for Phase 1 habitat survey. NCC. Peterborough.

STACE, C. A. (1997) *Flora of the British Isles, 2nd edition.* Cambridge University Press

ENGLISH NATURE (2001) *Great crested newt mitigation guidelines.* English Nature, Peterborough.

Mitchell-Jones, A.J, & McLeish, A.P. Ed. 2004. *Bat Workers Manual*

ENGLISH NATURE 2004. *Bat Mitigation Guidelines.*

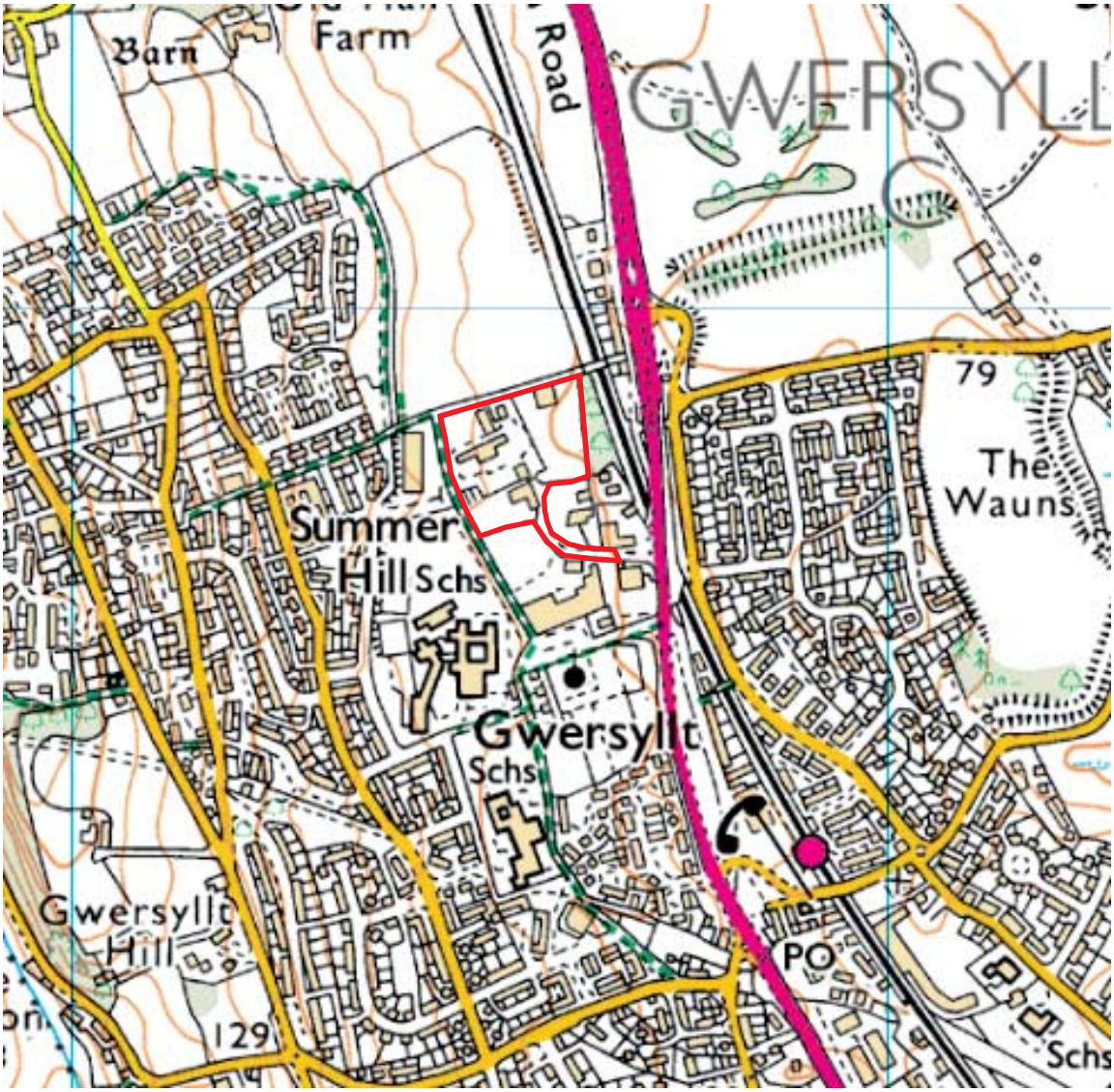
Bat Conservation Trust (BCT), 2012. *Bat Surveys – Good Practice Guidelines, Version 2*

APPENDIX 1

Drawings:

Site Location Plan - D/JWE/1530/001

Extended Phase One Habitat Plan - D/JWE/1530/002



= Site Location

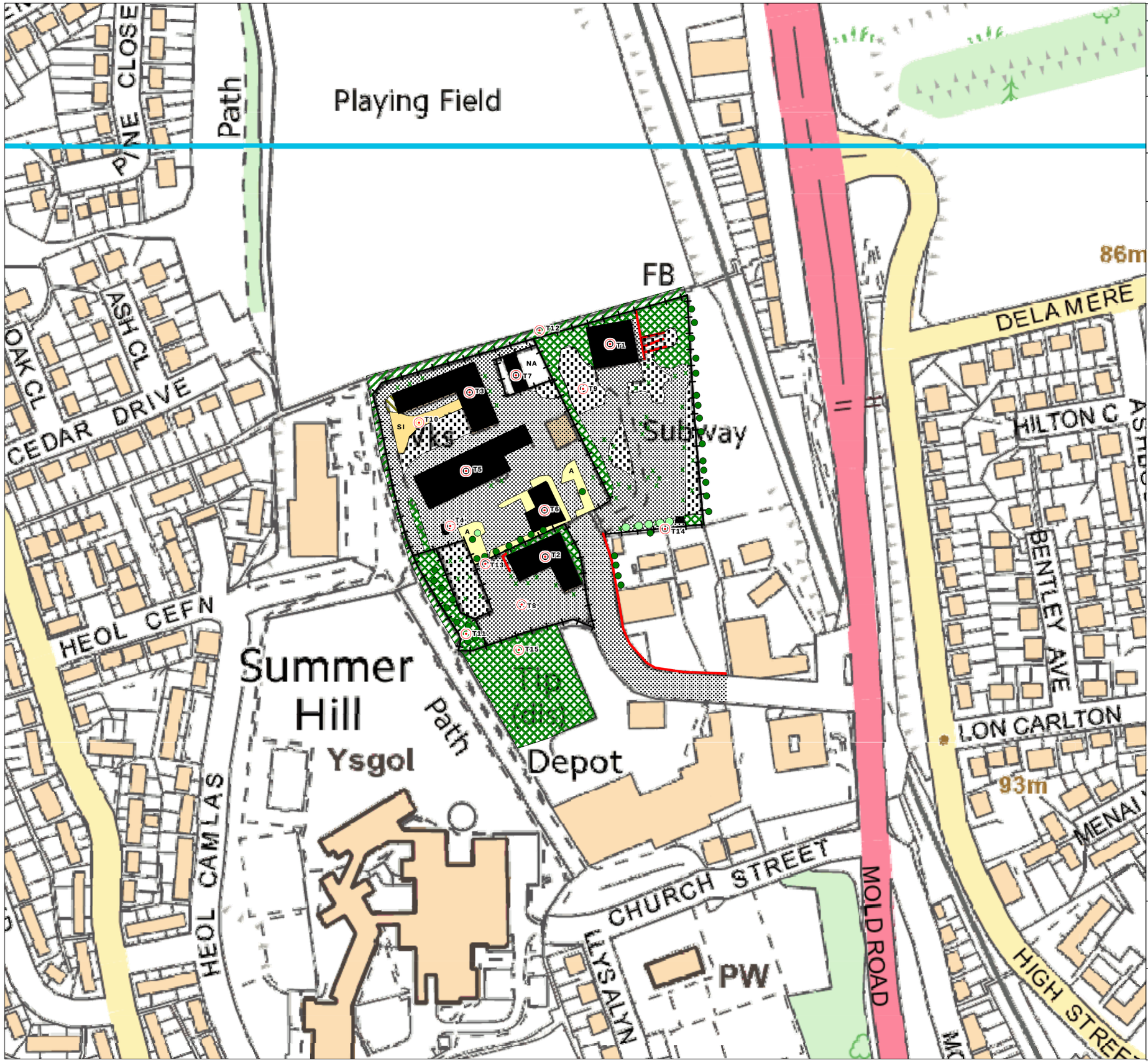
J W ECOLOGICAL LTD

TITLE: Site Location Plan

SITE: Westminster Industrial Estate

NGR: SJ 31567 53833

DRAWING NUMBER: D/JWE/1530/001



J W ECOLOGICAL LTD

Site: Westminster Industrial Estate

Title: Extended Phase One Survey Plan

KEY:

- Buildings
- Bare ground
- A — Amenity grassland
- SI — Semi-improved grassland
- Ephemeral/short perennial herbs
- Broad-leaved plantation woodland
- Scattered broad-leaved trees
- Scattered coniferous trees
- Dense/continuous scrub/shrubs
- Scattered scrub
- Tall ruderal herbs
- Fence
- Wall
- NA — No access for survey
- Target Notes (See Appendix 2 of report)

GRID REFERENCE:		SCALE:
SJ 31567 53833		1:1000
DRAWN BY:	**CHECKED BY:**	**DATE:**
JW	JM	25/08/14
DRAWING NUMBER:		**ISSUE:**
D/JWE/1530/002		A

THIS PLAN IS ISSUED BY J W ECOLOGICAL LIMITED SUBJECT TO THE CONDITION THAT IT IS NOT COPIED EITHER IN WHOLE OR IN PART OR DISCLOSED TO THIRD PARTIES UNLESS PRIOR WRITTEN AUTHORISATION IS GIVEN.

APPENDIX 2

Target Notes

The target notes listed below relate to drawing number D/JWE/1530/002 (Appendix 1):

Target Note 1 (T1)
Building 1. Commercial building constructed of breeze block and corrugated sheet.

Target Note 2 (T2)
Building 2. Single-storey office/workshop building constructed of prefabricated panels and with a flat roof. The building has fascia boards around the edge of the roof.

Target Note 3 (T3)
Building 3. Large single-storey industrial building constructed of corrugated steel sheet.

Target Note 4 (T4)
Building 4. Small single-storey brick building with a dilapidated pitched steel sheet roof.

Target Note 5 (T5)
Building 5. Large workshop building constructed of brick and corrugated sheet with a pitched corrugated sheet roof. The building is open to the roof on the interior.

Target Note 6 (T6)
Building 6. Small single-storey brick office building with a flat felt roof. The building has timber fascia boards around the edge of the roof.

Target Note 7 (T7)
Building 7. Residential bungalow building. The bungalow is of brick construction with a pitched concrete tile roof.

Target Note 8 (T8)
Hard-standing yard areas.

Target Note 9 (T9)
Areas of ephemeral/short perennial herbs on shallow gravelly soil. Species in these areas include self-heal, yarrow, ragwort, daisy, colt's-foot and clover.

Target Note 10 (T10)
Small area of species-poor rough semi-improved grassland located to the north of the site. Species in this area include yarrow, ribwort plantain, daisy, occasional bird's-foot trefoil and red clover.

Target Note 11 (T11)
Dense area of scrub on the embankment on the south-western site boundary. Species in the scrub areas include bramble, willow, broom, elder, hawthorn and ragwort. Scattered trees including rowan, sycamore, ash and willow are also present.

Target Note 12 (T12)
Band of broad-leaved plantation trees extending along the outside of the northern and western site boundaries. Species in this area include oak, ash, hawthorn, willow, blackthorn and elder.

Target Note 13 (T13)
Scattered planted trees including sycamore and rowan located to the west of Building 6.

Target Note 14 (T14)
Band of mature conifers located on the south-eastern site boundary.

Target Note 15 (T15)
Japanese knotweed on adjacent site.

APPENDIX 3

Photographs

	Photograph 1 – Building 1
	Photograph 2 – Building 2
	Photograph 3 – Building 3
	Photograph 4 – Building 4

	Photograph 5 – Building 5
	Photograph 6 – Interior of Building 5
	Photograph 7 – Building 6
	Photograph 8 – Hard-standing yard areas

	Photograph 9 – Ephemeral/short perennial herbs
	Photograph 10 – Semi-improved grassland to north of site
	Photograph 11 – Scrub in the north-eastern corner of the site
	Photograph 12 – Dense scrub on the south-western site boundary

	Photograph 13 – Broad-leaved woodland outside of the northern site boundary
	Photograph 14 – Scattered broad-leaved trees to west of Building 6
	Photograph 15 – Scattered coniferous trees on the south-eastern site boundary

APPENDIX 4

Record search results

Cofnod Environmental Information Search

- PUBLIC VERSION -

Please read **Important Issues** and **Notes** before interpreting the following information.

Our Ref.	Client Name	Date Run	Your Ref.
E03960	J W Ecological Ltd	30/07/2014	1530

Site Name	Grid Reference
Westminster Industrial Estate	SJ3156753833

Category 1 Species (Species with European and/or UK Legal Protection, Section 42 [NERC] Species or UK BAP Priority Species) **within 1000m - 44 records**

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Erinaceus europaeus *(Hedgehog/Draenog)*	SJ3146053744	Summer 2001	Anon	1		Summer Hill, Wrexham	Alive.	D0971/001/01 *(4148213)*	S42, UKBAP, LBAP[ANG, CON, FLI, GWY]	4
Pipistrellus pipistrellus *(Common Pipistrelle/Ystlum Lleiaf Cyffredin)*	**SJ3153**	**30/07/1982**	**Anon**			**Site Name Withheld**		**D1486/001/01 *(4095359)***	**Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]**	**3**
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ319544	12/06/2011	Charles Conway	1		Alyn Waters Country Park.	With Anita & Paul Mulligan, Liz Case, Christine, & Lauren Conwy, Sue Pinnington & Steve Ryder. Site centroid used. Under refugia. field record.	D0969/001/04 *(4885123)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ32005442 *(Selected from Interactive Map)*	01/07/2011	Christine Conway	1 Sub-adult	Live Sighting	Alyn Waters Country Park	Young snake, uncertain of age or sex, 'in blue'.	D1117/001/01 *(3040906)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Meles meles *(Badger/Mochyn Daear)*	**SJ3153**	**18/11/2009**	**Eric Fletcher**	**1 Dead Adult**		**Site Name Withheld**	**Comments Withheld**	**D0969/001/04 *(4884822)***	**BA, LBAP[CON, DEN, FLI, WRE]**	**4**
Phyllonorycter sagitella *(Scarce Aspen Midget/Dynyn Aethnen Prin)*	SJ313545	Sep 1987	J B Formstone	1 Adult		Old hall farm (Summerhill)	One leaf mine on Aspen. Habitat: Roadside and verge. Method: Daytime observation.	D1427/001/02 *(5340633)*	S42, UKBAP, LBAP[CON]	3
Rana temporaria *(Common Frog/Llyffant Melyn)*	SJ323538 *(Estimated (Centroid of Site Name))*	Apr 2002 - May 2002	Leonard Perry	100s		Wrexham; Bradley	Torch survey.	D1310/001/01 *(2700479)*	HDir, WCA5, LBAP[ANG, CON, FLI]	1
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ320544	26/04/2010	Mick Brummage	2 Adult Female	Live sighting	Alyn Waters Country Park	One under a refuge in grassland, the other in bramble scrub.	D0035/002/01 *(2100036)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Bufo bufo *(Common Toad/Llyffant Dafadennog)*	SJ320545 *(Selected from Interactive Map)*	17/03/2011	Alasdair	2 Adult		Alyn Waters Country Park	Found in a pond(not breeding).	D1117/001/01 *(2937974)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	4
Lissotriton vulgaris *(Smooth Newt/Madfall Ddwr Gyffredin)*	SJ32045455	12/05/2009	Christine Conway	numerous		Pond at Alyn Waters, far side from gate	Males and females present. Casual.	D0969/001/04 *(4884624)*	WCA5, LBAP[CON, DEN, FLI]	1
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ3212954515 *(GPS Reading)*	04/09/2011	Mick Brummage	1 Adult Female	Live Sighting	Alyn Waters Country Park	Large, very dark female.	D0035/002/01 *(3431178)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Pipistrellus *(Pipistrellus Bat Species)*	**SJ3253**	**16/07/2003**	**Anon**	**1**		**Site Name Withheld**		**D1486/001/01 *(4093203)***	**Bonn, EPS, WCA5**	**3**
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ32115454 *(Selected from Interactive Map)*	05/05/2011	Alasdair Thomson	1 Adult		Alyn Waters Country Park	Found under corregated sheeting.	D1117/001/01 *(2775931)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Falco tinnunculus *(Kestrel/Cudyll Coch)*	SJ319546	2 records, on 30/08/2010 and 26/10/2010	John Whittaker	1 Adult, 1 Adult	Live Sighting	alynwaters	Hunting in meadow; Hunting over meadow then landed on a tree near VC.	D1117/001/01	Bern, Bonn, CITES, S42, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY]	4
Monotropa hypopitys *(Yellow Bird's-nest/Cytwf)*	SJ319546	15/07/2011	John Whittaker	15 Flowering		Alyn waters country park	Found in rough circular group.	D1117/001/01 *(3376695)*	RD1, S42, UKBAP, LBAP[GWY]	4
Myotis daubentonii *(Daubenton's Bat/Ystlum y Dwr)*	**SJ3154**	**15/09/2010**	**John Whittaker**			**Site Name Withheld**	**Comments Withheld**	**D1117/001/01 *(2102980)***	**Bern, Bonn, EPS, HDir, WCA5, LBAP[CON, DEN, FLI, GWY]**	**2**
Pipistrellus pipistrellus *(Pipistrelle/Ystlum Lleiaf)*	**SJ3154**	**15/09/2010**	**John Whittaker**			**Site Name Withheld**	**Comments Withheld**	**D1117/001/01 *(2102979)***	**Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]**	**2**
Pipistrellus pygmaeus *(Soprano Pipistrelle/Ystlum Lleiaf Uchelsain)*	**SJ3154**	**15/09/2010**	**John Whittaker**			**Site Name Withheld**	**Comments Withheld**	**D1117/001/01 *(2102978)***	**Bonn, EPS, S42, UKBAP, WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]**	**2**
Turdus iliacus *(Redwing/Coch Dan Adain)*	SJ319546	2 records, on 26/10/2010 and 15/11/2010	John Whittaker	20 Adult, 6	Live Sighting	alynwaters	Small number on path near VC drinking from puddle; flying over-migrants.	D1117/001/01	BDir, WBAm[RSPB], WCA1, LBAP[CON]	4

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Turdus pilaris *(Fieldfare/Socan Eira)*	SJ319546	2 records, on 26/10/2010 and 15/11/2010	John Whittaker	1+, 10 Adult	Live Sighting	alynwaters	feeding on haws;migrants; First of autumn, as predicted. Mainly feeding on hawthorn.	D1117/001/01	BDir, WBAm[RSPB], WCA1, LBAP[CON]	4
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ32095457 *(Selected from Interactive Map)*	02/08/2011	Christine Conway	1 Adult Female		Alyn waters country park	Under black mat to left of path as you walk towards visitor centre; she was 'in blue'.	D1117/001/01 *(3146193)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ32095458 *(Selected from Interactive Map)*	01/07/2011	Christine Conway	1 Sub-adult	Live Sighting	Alyn Waters Country Park	I am uncertain of age and sex of snake but is considerably smaller than adult female seen in same spot, so treating as juvenile or sub-adult. Head differs in shape to the female so may be a male. Confident in species type.	D1117/001/01 *(3040905)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Erynnis tages *(Dingy Skipper/Gwibiwr Llwyd)*	SJ321545	27/05/2012	Richard Rowlandson	Present		Alyn Waters.	Site centroid used. field record.	D0969/001/04 *(4877407)*	S42, UKBAP, LBAP[CON, FLI, GWY]	1
Natrix natrix *(Grass Snake/Neidr y Gwair)*	SJ317547	2000	Tamsin Butler	1 adult		Alyn Waters Country Park	1 adult.	D0035/002/01 *(2502500)*	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Triturus cristatus *(Great Crested Newt/Madfall Ddwr Gribog)*	SJ320546	07/03/2007 - 09/03/2007	Julia Drage			Oth:sa:81:2007		D1317/001/01 *(3976495)*	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Alcedo atthis *(Kingfisher/Glas y Dorlan)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883251)*	BDir, Bern, WBAm[RSPB], WCA1, LBAP[CON, DEN, FLI, GWY]	1
Triturus cristatus *(Great Crested Newt/Madfall Ddwr Gribog)*	SJ32105465 *(Selected from Interactive Map)*	06/05/2011	Alasdair Thomson	1 Juvenile Female		Alyn Waters Country Park	Found under a rock after a very hot dry period.	D1117/001/01 *(2937973)*	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
Bufo bufo *(Common Toad/Llyffant Dafadennog)*	*SJ3154*	*06/09/2008*	*Sarah Totty*	*1*		*Alyn Waters Country Park*		*D1117/001/01 (2099012)*	*S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]*	*4*
Alcedo atthis *(Kingfisher/Glas y Dorlan)*	*SJ3254*	*2 records, both on 09/07/2007*	*Anthony Britner; Brenda Joyce Owen*	*2, 2*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01*	*BDir, Bern, WBAm[RSPB], WCA1, LBAP[CON, DEN, FLI, GWY]*	*1*
Anser anser *(Greylag Goose/Gwydd Wyllt)*	*SJ3254*	*21/03/2011*	*Kenneth George Fletcher*	*2*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4610646)*	*BDir, Bonn, WCA1, LBAP[CON]*	*1*
Carduelis cabaret *(Lesser Redpoll/Llinos Bengoch Leiaf)*	*SJ3254*	*21/03/2011*	*Kenneth George Fletcher*	*2*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4629743)*	*S42, UKBAP, WBR[RSPB], LBAP[CON, DEN]*	*1*
Falco tinnunculus *(Kestrel/Cudyll Coch)*	*SJ3254*	*26/04/2011*	*Per Birdtrack*	*1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4608598)*	*Bern, Bonn, CITES, S42, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY]*	*1*
Meles meles *(Badger/Mochyn Daear)*	*SJ3254*	*4 records, between 15/01/2001 and 23/07/2002*	*Clwyd Badger Group (CBG)*		*Badger Sett*		*CBG Ref: A11.0. Please contact CBG for more details.; CBG Ref: A11.1; CBG Ref: A35.0; CBG Ref: A35.1.*	*D0059/001/01*	*BA, LBAP[CON, DEN, FLI, WRE]*	*3*
Passer domesticus *(House Sparrow/Aderyn y To)*	*SJ3254*	*21/03/2011*	*Kenneth George Fletcher*	*5*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4610892)*	*S42, UKBAP, WBAm[RSPB], LBAP[CON, FLI, GWY]*	*1*
Turdus iliacus *(Redwing/Coch Dan Adain)*	*SJ3254*	*02/02/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4431118)*	*BDir, WBAm[RSPB], WCA1, LBAP[CON]*	*1*

Category 2 Species (Global Red List, British Red Data Book, Nationally Rare & Scarce, Welsh Red and Amber Birds & Welsh Vascular Plant Red Data List, where these are not identified in Category 1) **within 1000m - 78 records**

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Senecio cambrensis *(Welsh Groundsel/Creulys Gymreig)*	SJ3121353577 *(Selected from Interactive Map)*	Jul 2010 - Aug 2010	Rita Pirouet	20+ Flowering		Gwersyllt	Growing along a bare pathway by the hedge. Were very healthy, but now succumbing to rust.	D1117/001/01 *(2105003)*	RD1, RD2, WVP, LBAP[CON, FLI]	4
Aegithalos caudatus *(Long-tailed Tit/Titw Cynffon-Hir)*	SJ32065359	29/03/2008	Christine Conway	1		Garden, 12 Meadway Close, Gwersyllt	field record.	D0969/001/04 *(4883355)*	WBAm[RSPB]	1
Periparus ater *(Coal Tit/Titw Penddu)*	SJ32065359	2 records, on 29/03/2008 and 30/03/2008	Christine Conway	1, 1		Garden, 12 Meadway Close, Gwersyllt	field record.	D0969/001/04	Bern, WBAm[RSPB], LBAP[CON]	1
Pyrrhula pyrrhula *(Common Bullfinch/Coch y Berllan)*	SJ32065359	02/05/2009	Charles Conway	1 Adult Male		Garden at 12 Meadway Close	Landed on garden fence and then flew off but size, red chest and black cap clearly seen. in daylight.	D0969/001/04 *(4884819)*	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	1
Sturnus vulgaris *(Common Starling/Drudwen)*	SJ32065359	30/03/2008	Christine Conway	1		Gwersylt	On feeding tray. field record.	D0969/001/04 *(4884578)*	BDir, WBR[RSPB], LBAP[CON, FLI, GWY]	1
Aegithalos caudatus *(Long-tailed Tit/Titw Cynffon-Hir)*	SJ32085359	18/11/2010	Christine Conway	4		Garden 12 meadway close	Casual.	D0969/001/04 *(4872848)*	WBAm[RSPB]	1

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Regulus regulus *(Goldcrest/Dryw Eurben)*	SJ32085359	10/04/2011	Christine Conway	1	Live Sighting	Garden of 12 meadway close	Clearly viewed through binoculars at end of garden.	D1117/001/01 *(2771134)*	Bern, WBAm[RSPB], LBAP[CON]	4
Sturnus vulgaris *(Common Starling/Drudwen)*	SJ32085359	10/04/2011	Christine Conway	Several Adult	Live Sighting	Garden of 12 meadway close		D1117/001/01 *(2771137)*	BDir, WBR[RSPB], LBAP[CON, FLI, GWY]	4
Meconopsis cambrica *(Welsh Poppy/Pabi Cymreig)*	SJ321541	27/05/2012	Anita Mulligan	Present		Alyn Waters.	Site centroid used. field record.	D0969/001/04 *(4877422)*	RD2, LBAP[CON, DEN]	1
Anas platyrhynchos *(Mallard/Hwyaden Wyllt)*	SJ319544	12/06/2011	Steve Ryder	2 Adult Female		Alyn Waters Country Park.	With Anita & Paul Mulligan, Liz Case, Christine, Charles & Lauren Conwy & Sue Pinnington. Site centroid used. field record.	D0969/001/04 *(4874315)*	BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]	1
Tilia platyphyllos *(Large-leaved Lime/Pisgwydden Dail Mawr)*	SJ319544	12/06/2011	Anita Mulligan	Present		Alyn Waters Country Park.	With Paul Mulligan, Steve Ryder, Liz Case, Sue Pinnington, Charles, Christine & Lauren Conway. Site centroid used. field record.	D0969/001/04 *(4874342)*	RD2, LBAP[CON, FLI]	1
Alauda arvensis *(Sky Lark/Ehedydd)*	SJ317545 *(Estimated (From Recorder's Map))*	08/05/2002 - 20/06/2002	Andrew Clarke	15-19 Territories		Alyn Waters Country Park/Wrexham Maelor Borough Council; Alyn Waters Country Park (West)	Grid ref is estimated centroid of survey area.	D0989/001/01 *(2683328)*	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Aegithalos caudatus *(Long-tailed Tit/Titw Cynffon-Hir)*	SJ31895456 *(Selected from Interactive Map)*	26/07/2011	Christine Conway	1 Juvenile		Alyn waters country park		D1117/001/01 *(3145970)*	WBAm[RSPB]	4
Alauda arvensis *(Sky Lark/Ehedydd)*	SJ31605470	25/06/2010	Christine Conway	many		Skylark meadow, Alyn Waters	Casual.	D0969/001/04 *(4872840)*	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Aegithalos caudatus *(Long-tailed Tit/Titw Cynffon-Hir)*	SJ319546	28/09/2010	John Whittaker	6 Adult	Live Sighting	alynwaters	Probably a small family flock.	D1117/001/01 *(2501697)*	WBAm[RSPB]	4
Alauda arvensis *(Sky Lark/Ehedydd)*	SJ319546	5 records, between 20/09/2010 and 28/09/2011	John Whittaker	8 Adult, 6 Adult, 5 Adult, 4 Adult, 6 Adult	Live Sighting	alynwaters; Alyn waters	Flying in small groups/pairs in meadow.; gwer upper meadow; Not singing, just contact calls.; Put up by passing hay making tractor.; Put to flight by tractor hay making.	D1117/001/01	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Anthus pratensis *(Meadow Pipit/Corhedydd y Waun)*	SJ319546	4 records, between 11/10/2010 and 13/12/2010	John Whittaker	3 Adult, 6 Adult, 6 Adult, 1	Live Sighting	alynwaters; alaynwaters	Not singing; contact calls.; In grassland meadow; small flock; migrants?.	D1117/001/01	Bern, WBAm[RSPB], LBAP[CON]	4
Epipactis dunensis *(Dune Helleborine)*	SJ319546	15/07/2011	John Whittaker	1500 + Flowering		Alyn Waters Country Park	Huge colony presumably overlooked previously as E. helleborine on the llay side of the site. Smaller colony of 140+ spikes on Gwersyllt side of site.	D1117/001/01 *(3376692)*	CITES, RD1, RD2, WVP	4
Epipactis phyllanthes *(Green-flowered Helleborine/Y Galdrist Felynwerdd)*	SJ319546	15/07/2011	John Whittaker	140+ Flowering		Alyn Waters Country Park		D1117/001/01 *(3376693)*	CITES, RD2, WVP, LBAP[CON, FLI]	4
Gallinago gallinago *(Common Snipe/Giach Cyffredin)*	SJ319546	2 records, on 11/10/2010 and 13/12/2010	John Whittaker	2 Adult, 1 Adult	Live Sighting	alynwaters; alan waters	First of autumn; in wet areas in meadows.	D1117/001/01	BDir, Bonn, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY]	4
Phalacrocorax carbo *(Great Cormorant/Mulfran)*	SJ319546	13/12/2010	John Whittaker	2		Alyn waters	Flying over only.	D1117/001/01 *(2503164)*	WBAm[RSPB], LBAP[CON, GWY]	4
Picus viridis *(Green Woodpecker/Cnocell Werdd)*	SJ319546	2 records, on 26/09/2010 and 08/07/2011	John Whittaker	1 Adult, 1 Adult		alyn waters country park; Alyn waters country park	flew low through scrub; Feeding on ants (?) on main drive of Gwersyllt side of park.	D1117/001/01	Bern, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY, SNP]	4
Pyrrhula pyrrhula *(Common Bullfinch/Coch y Berllan)*	SJ319546	15/11/2010	John Whittaker	1		alyn waters	at least one hard to see, feeding on ash keys.	D1117/001/01 *(2503168)*	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	4
Pyrrhula pyrrhula *(Common Bullfinch/Coch y Berllan)*	SJ319546	01/03/2010	Christine Conway	1 Male		Alyn waters country park	Casual.	D0969/001/04 *(4872828)*	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	1
Sturnus vulgaris *(Common Starling/Drudwen)*	SJ319546	13/12/2010	John Whittaker	4		alyn waters	flying over only.	D1117/001/01 *(2503163)*	BDir, WBR[RSPB], LBAP[CON, FLI, GWY]	4
Phylloscopus trochilus *(Willow Warbler/Telor yr Helyg)*	SJ32045460 *(Selected from Interactive Map)*	03/04/2011	Christine Conway	1		Alyn waters country park	Casual.	D1117/001/01 *(2661755)*	WBR[RSPB], LBAP[CON]	4
Alauda arvensis *(Sky Lark/Ehedydd)*	SJ316547	27/05/2012	Anita Mulligan	Present		Alyn Waters.	Site centroid used. field record.	D0969/001/04 *(4877380)*	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Picus viridis *(Green Woodpecker/Cnocell Werdd)*	SJ32055461 *(Selected from Interactive Map)*	2 records, both on 26/07/2011	Christine Conway	3 Juvenile, 1 Adult		Alyn waters country park	Family group ground feeding together.; Part of family group.	D1117/001/01	Bern, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY, SNP]	4
Senecio cambrensis *(Welsh Groundsel/Creulys Gymreig)*	SJ308544 *(Approximate)*	1987	Anon			Moss		D0821/001/01 *(4106580)*	RD1, RD2, WVP, LBAP[CON, FLI]	3
Aegithalos caudatus *(Long-tailed Tit/Titw Cynffon-Hir)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883245)*	WBAm[RSPB]	1
Buxus sempervirens *(Box/Pren Bocs)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Denbighshire	field record.	D0969/001/04 *(4885537)*	RD1, RD2, LBAP[CON]	1

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Lepidium campestre *(Field Pepperwort/Pupurlys y Maes)*	SJ319547	25/07/2009	Shanklin, J.			N.Wrexham	Quite widely scattered round this part of the park.	D1169/001/02 *(4441363)*	WVP	3
Aegithalos caudatus (Long-tailed Tit/Titw Cynffon-Hir)	*SJ3254*	*6 records, between 09/07/2009 and 16/03/2011*	*Per Birdtrack; Kenneth George Fletcher; Anthony Britner; Steven Davies*	*2, 1, 2, 1, 1+, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*WBAm[RSPB]*	*1*
Alauda arvensis (Sky Lark/Ehedydd)	*SJ3254*	*4 records, between 19/03/2011 and 21/03/2011*	*Kenneth George Fletcher; Per Birdtrack*	*4, 2, 1, 5*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.; BirdTrack Three soaring and singing.*	*D1297/005/01*	*BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]*	*1*
Anas platyrhynchos (Mallard/Hwyaden Wyllt)	*SJ3254*	*3 records, between 09/07/2009 and 16/03/2011*	*Per Birdtrack; Anthony Britner; Steven Davies*	*2, 1+, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]*	*1*
Anthus pratensis (Meadow Pipit/Corhedydd y Waun)	*SJ3254*	*21/03/2011*	*Kenneth George Fletcher*	*1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4629866)*	*Bern, WBAm[RSPB], LBAP[CON]*	*1*
Apus apus (Common Swift/Gwennol Ddu)	*SJ3254*	*03/05/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4430038)*	*WBAm[RSPB]*	*1*
Cinclus cinclus (Dipper/Bronwen y Dwr)	*SJ3254*	*3 records, between 07/01/2007 and 06/04/2011*	*Anthony Britner; Per Birdtrack*	*1+, 1+, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*Bern, WBAm[RSPB], LBAP[CON]*	*1*
Delichon urbicum (House Martin/Gwennol y Bondo)	*SJ3254*	*03/05/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4430847)*	*Bern, WBAm[RSPB], LBAP[CON]*	*1*
Hirundo rustica (Swallow/Gwennol)	*SJ3254*	*2 records, on 09/07/2009 and 26/04/2011*	*Per Birdtrack; Steven Davies*	*1, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*Bern, WBAm[RSPB], LBAP[ANG, CON, GWY]*	*1*
Periparus ater (Coal Tit/Titw Penddu)	*SJ3254*	*3 records, between 09/07/2009 and 21/03/2011*	*Steven Davies; Per Birdtrack; Kenneth George Fletcher*	*1+, 1+, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*Bern, WBAm[RSPB], LBAP[CON]*	*1*
Picus viridis (Green Woodpecker/Cnocell Werdd)	*SJ3254*	*4 records, between 19/06/2007 and 04/01/2011*	*Kenneth George Fletcher; Anthony Britner*	*1, 2, 2, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.; BirdTrack Calling to each other.*	*D1297/005/01 D1297/002/01*	*Bern, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY, SNP]*	*1*
Pyrrhula pyrrhula (Common Bullfinch/Coch y Berllan)	*SJ3254*	*02/02/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4429777)*	*WBR[RSPB], LBAP[CON, DEN, FLI, GWY]*	*1*
Regulus regulus (Goldcrest/Dryw Eurben)	*SJ3254*	*07/01/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4430603)*	*Bern, WBAm[RSPB], LBAP[CON]*	*1*
Sylvia communis (Common Whitethroat/Llwydfron)	*SJ3254*	*2 records, on 25/04/2007 and 26/04/2011*	*Anthony Britner; Per Birdtrack*	*1+, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*WBAm[RSPB], LBAP[CON]*	*1*
Turdus philomelos (Song Thrush/Bronfraith)	*SJ3254*	*3 records, between 25/04/2007 and 21/03/2011*	*Kenneth George Fletcher; Per Birdtrack; Anthony Britner*	*2, 2, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]*	*1*

Category 3 Species (LBAP Species not identified under Categories 1 & 2, Locally Important species as specified by local experts) **within 1000m - 94 records**

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Carduelis carduelis *(Goldfinch/Nico)*	SJ32065359	27/03/2008	Christine Conway	2		Garden, 12 Meadway Close, Gwersyllt	Scared off by blue tit. field record.	D0969/001/04 *(4877873)*	Bern, LBAP[ANG, CON]	1
Carduelis chloris *(Greenfinch/Llinos Werdd)*	SJ32065359	30/03/2008	Christine Conway	2		Gwersylt	On nut feeder. field record.	D0969/001/04 *(4884820)*	Bern, LBAP[CON]	1
Carduelis spinus *(Siskin/Pila Gwyrdd)*	SJ32065359	30/03/2008	Christine Conway	1 Breeding Pair		Gwersylt	1 on nut feeder, 1 on water. field record.	D0969/001/04 *(4884577)*	Bern, LBAP[CON]	1
Cyanistes caeruleus *(Blue Tit/Titw Tomos Las)*	SJ32065359	27/03/2008	Christine Conway	1		Garden, 12 Meadway Close, Gwersyllt	field record.	D0969/001/04 *(4883354)*	Bern, LBAP[CON]	1
Accipiter nisus *(Sparrowhawk/Gwalch Glas)*	SJ3208053600 *(Selected from Interactive Map)*	27/07/2011	Christine Conway	1 Adult Female		Back garden of 12 meadway close	Appeared suddenly in our garden after chasing down a collared dove which collided with our window and dropped to the ground. She then proceeded to carry the dove to the end of the garden and pluck and eat it there in front of us!.	D1117/001/01 *(3145963)*	Bonn, CITES, LBAP[CON]	4
Carduelis carduelis *(Goldfinch/Nico)*	SJ32085359	18/11/2010	Christine Conway	3		Garden 12 meadway close	Casual.	D0969/001/04 *(4872846)*	Bern, LBAP[ANG, CON]	1
Cyanistes caeruleus *(Blue Tit/Titw Tomos Las)*	SJ32085359	18/11/2010	Christine Conway	2		Garden 12 meadway close	field record.	D0969/001/04 *(4872847)*	Bern, LBAP[CON]	1
Phylloscopus collybita *(Common Chiffchaff/Siff-Siaff)*	SJ32085359 *(Selected from Interactive Map)*	10/04/2011	Christine Conway	1	Live Sighting	Garden of 12 meadway close	Heard first and then seen in trees at end of our garden.	D1117/001/01 *(2771133)*	LBAP[CON]	4
Sylvia atricapilla *(Blackcap/Telor Penddu)*	SJ32085359	10/04/2011	Christine Conway	1	Live Sighting	Garden of 12 meadway close		D1117/001/01 *(2771135)*	LBAP[CON]	4

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Sorex araneus *(Common Shrew/Llyg Cyffredin)*	SJ31985441	10/10/2010	Christine Conway	1		Alyn waters country park	Under metal sheet in top corner of grassland to right of pond and left of main footpath. Casual.	D0969/001/04 *(4885400)*	LBAP[ANG, CON]	4
Arum italicum *(Italian Lords-and-Ladies/Pidyn-y-Gog Eidalaidd)*	SJ319544	12/06/2011	Anita Mulligan	Present		Alyn Waters Country Park.	With Paul Mulligan, Steve Ryder, Liz Case, Sue Pinnington, Charles, Christine & Lauren Conway. Site centroid used. field record.	D0969/001/04 *(4885390)*	LBAP[DEN]	1
Carduelis carduelis *(Goldfinch/Nico)*	SJ319544 *(Selected from Interactive Map)*	26/07/2011	Christine Conway	4		Alyn waters country park	Feeding on wildflowers at side of path.	D1117/001/01 *(3145972)*	Bern, LBAP[ANG, CON]	4
Carduelis chloris *(Greenfinch/Llinos Werdd)*	SJ31915448 *(Selected from Interactive Map)*	26/07/2011	Christine Conway	1		Alyn waters country park		D1117/001/01 *(3145971)*	Bern, LBAP[CON]	4
Anax imperator *(Emperor Dragonfly/Ymerawdwr)*	SJ320545	26/06/2011	Allan Brandon	1 Adult		Denbighshire - Alyn Waters Country Park: dipping pond		D0067/001/03 *(4851343)*	LBAP[SNP]	3
Buteo buteo *(Buzzard/Bwncath)*	SJ320545 *(Selected from Interactive Map)*	03/04/2011	Christine Conway	3		Alyn waters country park	Casual record.	D1117/001/01 *(2661754)*	Bonn, CITES, LBAP[CON]	4
Carduelis carduelis *(Goldfinch/Nico)*	SJ320545	21/08/2008	Emma Broad	1		Alyn Waters Country Park		D1117/001/01 *(2101285)*	Bern, LBAP[ANG, CON]	4
Coenagrion puella *(Azure Damselfly/Mursen Las Asur)*	SJ320545	26/06/2011	Allan Brandon	6-20 Adult (Estimate)		Denbighshire - Alyn Waters Country Park: dipping pond	Grid reference type: Imported.	D0067/001/03 *(4854169)*	LBAP[SNP]	3
Ischnura elegans *(Blue-tailed Damselfly/Mursen Dinlas Gyffredin)*	SJ320545	26/06/2011	Allan Brandon	1 Adult		Denbighshire - Alyn Waters Country Park: dipping pond	Grid reference type: Imported.	D0067/001/03 *(4857924)*	LBAP[SNP]	3
Lestes sponsa *(Emerald Damselfly/Mursen Werdd)*	SJ320545	2 records, on 26/06/2011 and 2012	Alasdair Thompson; Andy Harmer	Present Adult		Denbighshire - Alyn Waters Country Park: dipping pond	Grid reference type: Imported.	D0067/001/03	LBAP[SNP]	3
Libellula depressa *(Broad-bodied Chaser/Picellwr Praff)*	SJ320545	26/06/2011	Allan Brandon	2-5 Adult (Estimate)		Denbighshire - Alyn Waters Country Park: dipping pond		D0067/001/03 *(4849490)*	LBAP[SNP]	3
Parus major *(Great Tit/Titw Mawr)*	SJ320545	21/08/2008	Emma Broad	3		Alyn Waters Country Park		D1117/001/01 *(2101286)*	Bern, LBAP[CON]	4
Sympetrum striolatum *(Common Darter/Gwäell Gyffredin)*	SJ320545	26/06/2011	Allan Brandon	2-5 Larva (Estimate)		Denbighshire - Alyn Waters Country Park: dipping pond	Grid reference type: Imported.	D0067/001/03 *(4855704)*	LBAP[SNP]	3
Ophrys apifera *(Bee Orchid/Tegeirian y Wenynen)*	SJ31605470	25/06/2010	Christine Conway	8		Skylark meadows, Alyn Waters country park	Approximately 6-10 plants in a limited area. Casual.	D0969/001/04 *(4872839)*	CITES, LBAP[GWY]	1
Lestes sponsa *(Emerald Damselfly/Mursen Werdd)*	SJ32065456	21/06/2012	A. Coker, S.J. Coker	1 Adult (Estimate)		Denbighshire - Alyn Waters Country Park Pond	Grid reference type: Imported.	D0067/001/03 *(4858673)*	LBAP[SNP]	3
Libellula depressa *(Broad-bodied Chaser/Picellwr Praff)*	SJ32065456	21/06/2012	A. Coker, S.J. Coker	1 Exuvia (Estimate)		Denbighshire - Alyn Waters Country Park Pond		D0067/001/03 *(4849784)*	LBAP[SNP]	3
Accipiter nisus *(Sparrowhawk/Gwalch Glas)*	SJ319546	28/09/2010	John Whittaker	1 Adult	Live Sighting	alynwaters	Flying over woodland.	D1117/001/01 *(2501699)*	Bonn, CITES, LBAP[CON]	4
Buteo buteo *(Buzzard/Bwncath)*	SJ319546	4 records, between 11/10/2010 and 13/12/2010	John Whittaker	1 Adult, 1 Adult, 1 Adult, 1	Live Sighting	alynwaters	Soaring over woodland.; soaring above woody area; Soaring over grassland; on ground initially, scavenging for rabbits or earthworms, then perched on a pole.	D1117/001/01	Bonn, CITES, LBAP[CON]	4
Buteo buteo *(Buzzard/Bwncath)*	SJ319546	2 records, on 01/03/2010 and 27/05/2012	Steve Ryder; Christine Conway	Present, 3		Alyn Waters.; Alyn waters country park	Site centroid used. field record.; By size appeared to be 2 females and one male, souring on the currents directly above the visitor centre at the park. Casual.	D0969/001/04	Bonn, CITES, LBAP[CON]	1
Carduelis carduelis *(Goldfinch/Nico)*	SJ319546	26/10/2010	John Whittaker	3 Adult	Live Sighting	alynwaters	mobile and noisy.	D1117/001/01 *(2501716)*	Bern, LBAP[ANG, CON]	4
Cyanistes caeruleus *(Blue Tit/Titw Tomos Las)*	SJ319546	2 records, on 26/10/2010 and 13/12/2010	John Whittaker	1, 2 Adult	Live Sighting	alanwaters; alynwaters	In shrubs.	D1117/001/01	Bern, LBAP[CON]	4
Epipactis helleborine *(Broad-leaved Helleborine/Y Galdrist Lydanddail)*	SJ319546	15/07/2011	John Whittaker	12 Flowering		Alyn Waters Country Park		D1117/001/01 *(3376694)*	CITES, LBAP[GWY], LI[VC52]	4
Motacilla alba *(Pied Wagtail/Siglen Wen)*	SJ319546	2 records, on 18/10/2010 and 15/11/2010	John Whittaker	2 Adult, 3	Live Sighting	alynwaters; alyn waters	On VC roof (pair?); on visitor centre roof.	D1117/001/01	Bern, LBAP[CON]	4
Ophrys apifera *(Bee Orchid/Tegeirian y Wenynen)*	SJ319546	24/06/2010	john whittaker	20 Flowering	Field record	alyn waters	found on guided walk.	D1117/001/01 *(2102255)*	CITES, LBAP[GWY]	4
Parus major *(Great Tit/Titw Mawr)*	SJ319546	2 records, on 15/11/2010 and 13/12/2010	John Whittaker	1+, 1		alyn waters; alynwaters	residents.	D1117/001/01	Bern, LBAP[CON]	4

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Phylloscopus collybita *(Common Chiffchaff/Siff-Siaff)*	SJ319546	19/09/2010	John Whittaker	1 Adult	Live Sighting	alynwaters	Singing in small tree near mold road entrance.	D1117/001/01 *(2501693)*	LBAP[CON]	4
Saxicola torquata *(Stonechat/Clochdar y Cerrig)*	SJ319546	20/09/2010	John Whittaker	1 Adult	Live Sighting	alynwaters	Male; showing well; upper meadow. Possible migrant. Not seen one here before.	D1117/001/01 *(2501694)*	Bern, LBAP[ANG, CON, DEN, FLI, GWY]	4
Phylloscopus collybita *(Common Chiffchaff/Siff-Siaff)*	SJ32045460 *(Selected from Interactive Map)*	03/04/2011	Christine Conway	1		Alyn waters country park	Casual.	D1117/001/01 *(2661756)*	LBAP[CON]	4
Ophrys apifera *(Bee Orchid/Tegeirian y Wenynen)*	SJ32095457 *(Selected from Interactive Map)*	01/07/2011	Christine Conway	3 Flowering	Live Sighting	Alyn Waters Country Park		D1117/001/01 *(3145620)*	CITES, LBAP[GWY]	4
Cyanistes caeruleus *(Blue Tit/Titw Tomos Las)*	SJ316547	27/05/2012	Steve Ryder	Present		Alyn Waters.	Site centroid used. field record.	D0969/001/04 *(4877398)*	Bern, LBAP[CON]	1
Phylloscopus collybita *(Common Chiffchaff/Siff-Siaff)*	SJ316547	27/05/2012	Steve Ryder	Present		Alyn Waters.	Site centroid used. auditory record.	D0969/001/04 *(4877393)*	LBAP[CON]	1
Aeshna grandis *(Brown Hawker/Gwas Neidr Brown)*	SJ32035464	17/07/2009	Emma Broad	Present Adult		Denbighshire - Afon Alun: SJ3254		D0067/001/03 *(4849598)*	LBAP[GWY, SNP]	3
Coenagrion puella *(Azure Damselfly/Mursen Las Asur)*	SJ32035464	17/07/2009	Emma Broad	Present Adult		Denbighshire - Afon Alun: SJ3254	Grid reference type: Imported.	D0067/001/03 *(4853756)*	LBAP[SNP]	3
Lestes sponsa *(Emerald Damselfly/Mursen Werdd)*	SJ32035464	17/07/2009	Emma Broad	Present Adult		Denbighshire - Afon Alun: SJ3254	Grid reference type: Imported.	D0067/001/03 *(4858563)*	LBAP[SNP]	3
Buteo buteo *(Buzzard/Bwncath)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883243)*	Bonn, CITES, LBAP[CON]	1
Carduelis carduelis *(Goldfinch/Nico)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883241)*	Bern, LBAP[ANG, CON]	1
Cyanistes caeruleus *(Blue Tit/Titw Tomos Las)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883218)*	Bern, LBAP[CON]	1
Mentha aquatica *(Water Mint/Mintys y Dwr)*	SJ31845475	09/05/2007	Eric Fletcher	Present		Llay		D0969/001/04 *(4883215)*	LBAP[ANG]	1
Sympetrum striolatum *(Common Darter/Gwäell Gyffredin)*	SJ31845475	09/05/2007	Eric Fletcher	1 Female		Llay		D0969/001/04 *(4885538)*	LBAP[SNP]	4
Buteo buteo (Buzzard/Bwncath)	*SJ3254*	*6 records, between 02/02/2007 and 06/04/2011*	*Anthony Britner; Per Birdtrack; Kenneth George Fletcher*	*1+, 1, 6, 3, 6, 2*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*Bonn, CITES, LBAP[CON]*	*1*
Carduelis carduelis (Goldfinch/Nico)	*SJ3254*	*3 records, between 09/07/2009 and 21/03/2011*	*Per Birdtrack; Steven Davies*	*1, 1, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*Bern, LBAP[ANG, CON]*	*1*
Certhia familiaris (Treecreeper/Dringwr Bach)	*SJ3254*	*2 records, on 09/07/2009 and 04/04/2011*	*Steven Davies; Per Birdtrack*	*1, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*Bern, LBAP[CON]*	*1*
Cyanistes caeruleus (Blue Tit/Titw Tomos Las)	*SJ3254*	*9 records, between 09/07/2009 and 17/03/2011*	*Per Birdtrack; Kenneth George Fletcher; Anthony Britner; Steven Davies*	*1, 17, 3, 1, 1, 1, 1+, 1+, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*Bern, LBAP[CON]*	*1*
Dendrocopos major (Great Spotted Woodpecker/Cnocell Fraith Fwyaf)	*SJ3254*	*2 records, on 25/04/2007 and 21/03/2011*	*Anthony Britner; Kenneth George Fletcher*	*1+, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/002/01 D1297/005/01*	*Bern, LBAP[CON]*	*1*
Motacilla cinerea (Grey Wagtail/Siglen Lwyd)	*SJ3254*	*16/03/2011*	*Per Birdtrack*	*1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4629474)*	*Bern, LBAP[CON]*	*1*
Parus major (Great Tit/Titw Mawr)	*SJ3254*	*7 records, between 09/07/2009 and 16/03/2011*	*Per Birdtrack; Kenneth George Fletcher; Steven Davies*	*1+, 1, 12, 3, 2, 1, 1+*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 D1297/002/01*	*Bern, LBAP[CON]*	*1*
Phylloscopus collybita (Common Chiffchaff/Siff-Siaff)	*SJ3254*	*2 records, on 21/03/2011 and 26/04/2011*	*Kenneth George Fletcher; Per Birdtrack*	*2, 1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01*	*LBAP[CON]*	*1*
Prunella modularis (Dunnock/Llwyd y Gwrych)	*SJ3254*	*16/03/2011*	*Per Birdtrack*	*1*		*Gwersyllt, Alyn Waters CP*	*BirdTrack.*	*D1297/005/01 (4610698)*	*Bern, LBAP[CON]*	*1*
Sitta europaea (Wood Nuthatch/Delor y Cnau)	*SJ3254*	*07/01/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4431229)*	*Bern, LBAP[CON]*	*1*
Sorex araneus (Common Shrew/Llyg Cyffredin)	*SJ3254*	*16/08/2010*	*Christine Conway*	*1*		*Alyn Waters Country Park*	*field record.*	*D0969/001/04 (4885395)*	*LBAP[ANG, CON]*	*4*
Strix aluco (Tawny Owl/Tylluan Frech)	*SJ3254*	*09/08/2007*	*Anthony Britner*	*1+*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01 (4431144)*	*Bern, CITES, LBAP[CON]*	*1*
Sylvia atricapilla (Blackcap/Telor Penddu)	*SJ3254*	*2 records, on 25/04/2007 and 09/07/2009*	*Anthony Britner; Steven Davies*	*1+, 1*		*Gwersyllt, Alyn Waters CP*		*D1297/002/01*	*LBAP[CON]*	*1*

Statutory Sites intersecting 1000m buffer	None
Wildlife Sites within 1000m (C=Candidate)	Moss Valley (W311) **(675m)**, Woodlands and Fishpond Wood (W310) **(607m)**, Alyn Waters (W306) **(624m)**
NWWT Reserves within 1000m	None
RSPB Reserves within 1000m	None
RIGS within 1000m	The Wauns Esker **(592m)** - Contact Cofnod for further details
Habitat type at application grid reference	Buildings
Habitat type(s) within 1000m	Acid/Neutral Inland Cliff, Amenity Grassland, Bare Ground, Bracken, Buildings, Dense Scrub, Ephemeral/Short Perennial, Gardens, Improved Grassland, Not Accessed Land, Planted Broad-leaved Woodland, Planted Coniferous Woodland, Planted Mixed Woodland, Quarry, Semi-improved Neutral Grassland, Semi-natural Broad-leaved Woodland, Standing Water, Swamp, Tall Ruderal Herb, Unimproved Acid Grassland
Ancient Woodland within 1000m	Restored Ancient Woodland Site, Ancient Semi Natural Woodland

Important Issues

1. Usage of the above information is governed by Cofnod's **Terms and Conditions of Data Release** (available from Cofnod on request).

2. Records shown in bold typeface are sensitive species records. In this public version of the original report, the resolution of sensitive species grid references have been reduced and site names and comments have been removed.

3. Past records of presence of a habitat or species do not guarantee continued occurrence; absence of records does not imply absence of a species, merely that no records are held at Cofnod; Cofnod cannot guarantee the accuracy of supplied data; copyright of records remains with the original recorder.

Notes

This report should be used in conjunction with any relevant maps, where these are supplied.

Cofnod uses a search system which 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 an **asterisk**. They have been selected as 'Mobile Species' as their territory (possibly due to foraging activity or life cycle) could intersect with the search radius. The list of 'Mobile Species', invasive non-native plant species and species categories used in Cofnod's reporting system can be found at http://www.cofnod.org.uk/Enquiries.aspx under the 'Species Categories' tab.

Records with 4 figure grid references are displayed as 1km squares on any relevant maps. They are listed separately in reports and highlighted in grey *italic* script.

Please note that while we hold Wales Raptor Study Group data for North East Wales we are only permitted to release it to a limited number of trusted partners. We can provide contact details if you would like to contact the Raptor Study Group directly to request species information.

Sites - Designated Sites and non-designated Wildlife Sites within 50m of the grid reference are highlighted in red. Wildlife Sites which remain unconfirmed by the relevant Local Authority are given 'Candidate' status and are displayed with the (c) suffix. The following reasons for candidate status apply: 1. Anglesey and Flintshire Wildlife Sites were identified by survey but have not been formally confirmed. 2. Conwy and Gwynedd Wildlife Sites were identified by survey and air photos and remain candidate until evaluated using selection criteria.

Dataset ID - All species records within the reports include Dataset ID codes, which can be used to find the relevant Metadata, using the **Data We Hold** page on the Cofnod website (www.cofnod.org.uk/DataWeHold.aspx). The number below the Dataset ID is the individual record ID. Please quote this if you need more information on a specific record.

'V' column - Record Verification Level. The following abbreviations apply: **1**: Unassessed, **2**: Unconfirmed, **3**: Considered Correct by Cofnod, **4**: Considered Correct by Expert. Dataset Categories and Record Verification Levels are explained in more detail within Cofnod's policy on Data Quality, available from our website.

Maps - This report should be used in conjunction with any relevant maps, where these are supplied. Where Statutory protected sites (e.g. SSSI, SAC, SPA) are displayed on Cofnod maps, more details can be obtained from Countryside Council for Wales. (Visit their website at http://www.ccw.gov.uk/interactive-maps/official-maps-search.aspx) Where a Phase 1 Habitat map has been supplied, this illustrates habitats mapped by CCW as part of their Habitat Survey of Wales 1979 to 1997. A separate legend is also supplied.

Lists

BA - Protection of Badgers Act, **BDir** - EU Birds Directive, **Bern** - The Bern Convention on the Conservation of European Wildlife and Natural Habitats, **Bonn** - The Bonn Convention on the Conservation of Migratory Species of Wild Animals, **CCWP** - CCW Priority Species List, **CITES** - Convention on International Trade in Endangered Species, **EPS** - European Protected Species, **HDir** - EU Habitats Directive, **LI** - Locally Important Species, identified by the County Recorder as being of particular importance in the specified Vice-County (see below for a list of Vice-Counties) N.B: Only available for certain species groups and certain areas, **LBAP** - Local Biodiversity Action Plan, **RD1** - Red Data Book listing based on IUCN guidelines, **RD2** - Red Data Book listing not based on IUCN guidelines (Nationally Rare and Scarce), **S42** - Natural Environment and Rural Communities Act 2006 (Section 42), **UKBAP** - UK Biodiversity Action Plan Priority Species, **WBAm[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Amber listed birds (not based on IUCN criteria), **WBR[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Red listed birds (not based on IUCN criteria), **WCA1** - Wildlife & Countryside Act 1981 Schedule 1, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5, **WCA8** - Wildlife & Countryside Act 1981 Schedule 8, **WVP** - IUCN Threat Listing of Welsh Vascular Plants

Abbreviations

ANG - Isle of Anglesey, **CON** - Conwy, **DEN** - Denbighshire, **FLI** - Flintshire, **GWY** - Gwynedd, **SNP** - Snowdonia National Park, **WRE** - Wrexham, **LBAP** - Local Biodiversity Action Plan, **NWWT** - North Wales Wildlife Trust, **RSPB** - Royal Society for the Protection of Birds, **RIGS** - Regionally Important Geodiversity Sites, **WS** - Wildlife Site

Vice-Counties

48 - Meirionethshire, **49** - Caernarfonshire, **50** - Denbighshire, **51** - Flintshire, **52** - Anglesey

Contact Us

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