



**LAND OFF WHALLEY ROAD, BARROW.**

**OS REF: SD 738-384.**

**EXTENDED PHASE I HABITAT SURVEY.**

**Ref No:- 160111.**

**Date:- 15<sup>th</sup> January 2016.**

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# **1. INTRODUCTION.**

1.1. Plans are being drawn up for the demolition of a disused Italian restaurant and empty residential property on Whalley Road in Barrow and the development of an area of land to the rear of the buildings.

1.2. The site has previously been surveyed during 2009, 2012 and 2014 in connection with previous plans for the site. However, a new planning application is being submitted and therefore an up to date Extended Phase 1 Habitat survey of the site was commissioned.

1.3. Whitcher Wildlife Ltd carried out the survey on the 11<sup>th</sup> January 2016. This report outlines the findings of the survey and makes appropriate recommendations.

1.4. Appendices I to VII of this report provide additional information on specific species and are designed to assist the reader in understanding the contents of this report.

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## 2. SURVEY METHODOLOGY.

2.1. Prior to visiting the site the survey area was cross referenced to maps and aerial photographs to give a general idea of the habitats and potential issues within the area and to identify potential access and walking routes.

2.2. The survey area was walked where access was agreed and public rights of way were used where no access was agreed. All habitats within and immediately around the survey area were documented and the dominant species within that habitat listed in line with the JNCC Handbook for Phase 1 Habitat surveys.

2.3. The survey area and immediate surrounding area was thoroughly searched for evidence of badger (*Meles meles*) activity by looking for the following signs in line with Harris S, Cresswell P and Jefferies D (1989). *Surveying Badgers*. Mammal Society:-

- \* Badger setts.
- \* Badger latrines or dung pits.
- \* Badger snuffle holes and evidence of foraging.
- \* Badger paths.
- \* Badger prints in areas of soft mud.
- \* Badger hairs caught on fencing.

2.4. The survey area was searched for watercourses and where found all watercourses within the survey area and for approximately 50m in each direction were thoroughly searched for evidence of water vole (*Arvicola amphibius*) activity by looking for the following signs, in line with Rob Strachan, Tom Moorhouse and Merryll Gelling (2011). *Water Vole Handbook: Third Edition*:-

- \* Water vole burrows.
- \* Water vole faeces and latrines.
- \* Water vole feeding stations.
- \* Water vole runs.
- \* Water vole prints in areas of soft mud.
- \* Water vole lawns.
- \* Predator field signs.



2.5. The survey area was searched for watercourses and where found all watercourses within the survey area and for approximately 50m in each direction were thoroughly searched for evidence of otter (*Lutra lutra*) activity by looking for the following signs in line with the P Chanin (2003). *Monitoring the Otter and Conserving Natura 2000 Rivers: Monitoring Series No10 Guidelines:-*

- \* Otter prints in soft mud.
- \* Otter spraints.
- \* Otter Holts.

2.6. The survey area was searched for watercourses and waterbodies. Where found, and where safe to enter the water, all were thoroughly searched for the presence of crayfish, for approximately 50m in each direction of the site, by searching under rocks and logs. Where stated, crayfish traps were also deployed into the watercourse. All survey work was carried out in accordance with the *Conserving Natural 2000 Rivers Monitoring Series No 1, Protocol for Monitoring the White Clawed Crayfish*.

2.7. The survey area was searched for mature trees and derelict buildings and where found these were checked for potential bat roosting sites in line with L Hundt (2012). *Bat Conservation Trust Good Practice Guidelines* by looking for the following signs:-

- \* Holes, cracks or crevices.
- \* Bat Droppings.

2.8. The land immediately adjacent to the survey area was assessed for bat roosting potential and bat foraging potential. Connective routes and flight lines were also assessed whilst on site and using maps of the area.

2.9. The area within 500m of the survey site was cross referenced to maps to highlight all ponds close to the site. Where possible, all ponds identified were accessed using agreed access or public rights of way to assess the potential for great crested newts (*Triturus cristatus*) to be present.

2.10. The survey area was assessed for the potential for reptiles and suitable reptile habitats. Where applicable the area was also searched for the presence of reptiles.

2.11. Where appropriate, the habitat within and surrounding the survey area was searched for species such as hazel, oak, honeysuckle, bramble and other species which may provide potential habitat for hazel dormice (*Muscardinus avellanarius*). Field signs such as feeding remains and nests were also searched for where possible, in line with P Bright, P Morris and T Mitchell-Jones *The Dormouse Conservation Handbook 2nd Ed*.

2.12. Where appropriate, the area within and surrounding the survey area was assessed for its potential to house habitat for red squirrels. Field signs of red squirrels were searched for at least every 50m, looking for any dreys, feeding signs or sightings of red squirrels.

2.13. All surveys were carried out in line with the Chartered Institute of Ecological and Environmental Management (CIEEM) survey standards and advice.

2.14. This survey was carried out by Steven Whitcher MCIEEM. Since 2002 Steven has gained extensive experience in a professional capacity as an ecological consultant carrying out ecology, protected species and Phase 1 Habitat surveys. Stevens knowledge has been supplemented through the attendance of a variety of courses run by the Chartered Institute of Ecology and Environmental Management (CIEEM), the Bat Conservation Trust (BCT) and the Field Studies Council (FSC) in the relative protected species, plant species and in carrying out Phase 1 Habitat Surveys. Steven holds Natural England Survey Licences in respect of bats, great crested newts, crayfish and barn owls, CCW Survey Licences in respect of bats and great crested newts and an SNH Survey Licence in respect of bats. Steven is also a Registered Consultant with Natural England and is confined spaces trained and qualified in tree climbing and aerial rescue.

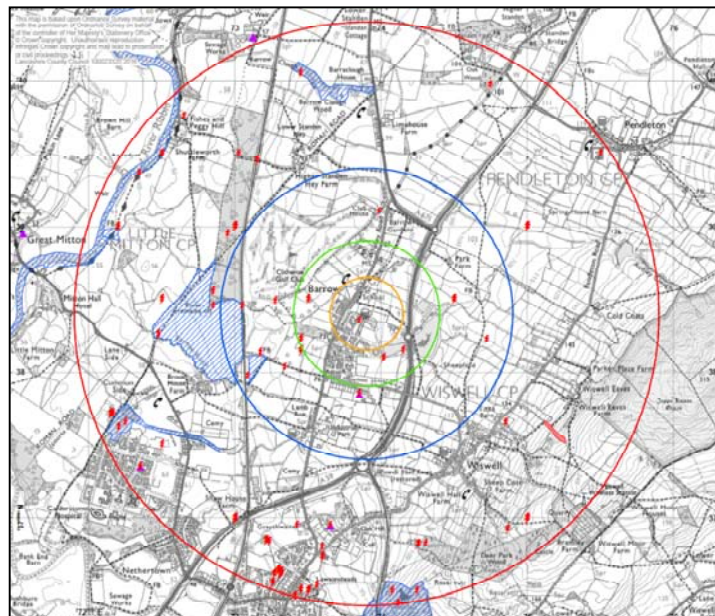
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### 3. SURVEY RESULTS.

#### 3.1. Data Search Results.

3.1.1. A desktop data search for existing records of protected species or designated sites in the area of the site was submitted to Lancashire Environmental Records Network (LERN).

3.1.2. LERN hold several records of great crested newt, common toad, palmate newt, smooth newt, bat, invertebrate and plant within a 2km radius of the site, as shown below.



3.1.3. The closest species records refer to invertebrates approximately 100m to the south of the site, common toads approximately 350m to the southwest and European eel approximately 300m to the southeast with no records within or immediately adjacent to the surveyed area.

3.1.4. There are abundant records of great crested newts to the south of the site although the closest record appears to be in excess of 1.5km from the site.

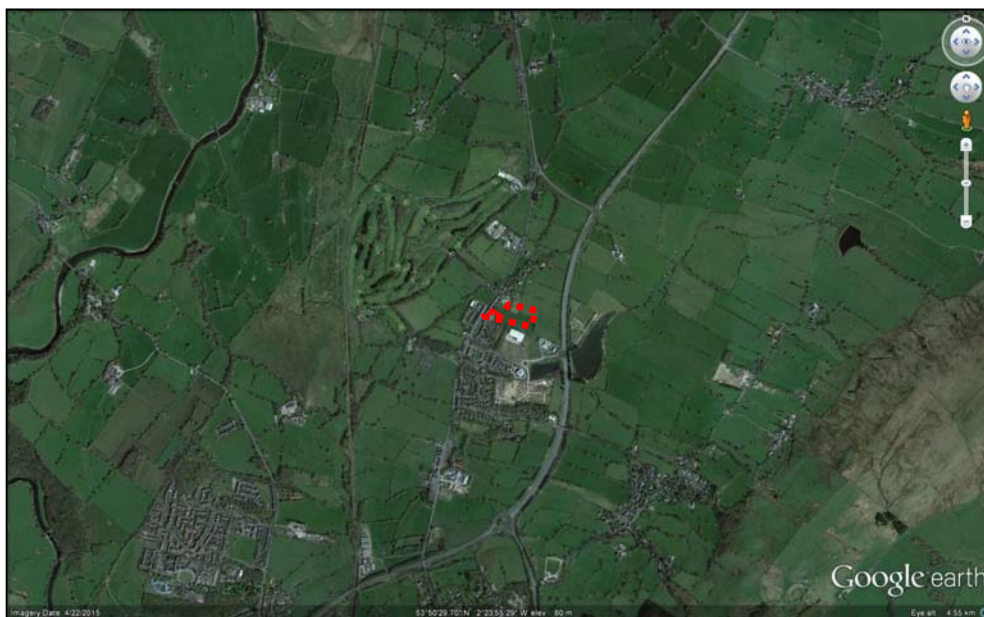
3.1.5. The closest records of protected sites are Barrow Brook Field Biological Heritage Site (BHS) and Hard Hill Common Biological Heritage Site (BHS), which both lie over 650m to the west of the site. No other protected sites were identified within 1km of the site.

### 3.2. The Surveyed Area.

3.2.1. The surveyed area was a disused Italian restaurant and empty residential property on Whalley Road, Barrow, and an area of land to the rear of the buildings, as shown below.



3.2.2. The land immediately surrounding the site comprises the village of Barrow to the south, the A59 to the east with farmland and Clitheroe Golf Club to the north and west. The further surrounding area comprises farmland and small areas of residential housing with the busy A59 running from north to south through the area.



### 3.3. Description of Habitats.

3.3.1. Appendix VIII of this report contains annotated maps marked up with the varying habitats that are cross referenced to target notes in Appendix IX of this report. The habitats on and adjacent to the site are:-

- Buildings.
- Semi improved neutral grassland.
- Amenity grassland.
- Scattered broad leaf trees.
- Dense/continuous scrub.
- Bare ground.
- Running water.
- Dry ditch.
- Fences.
- Walls.

3.3.2. Buildings: Two buildings are located within the surveyed area with several other buildings located in the immediately surrounding area. The buildings within the site are covered in more detail in sections 3.4.5 to 3.4.7 below.



3.3.3. Semi improved neutral grassland: There are two areas of semi improved neutral grassland within the surveyed area.

3.3.3.1. The main area of the site comprises approximately half of a large grazing field. The field had been heavily grazed at the time of this survey leaving the sward very short. The species identified as being present were crested dogs tail (*Cynosurus cristatus*), common bent (*Agrostis capillaries*), perennial rye grass (*Lolium perenne*),



cocks foot (*Dactylis glomerata*), Yorkshire fog (*Holcus lanatus*), soft rush (*Juncus effuses*), thistle (*Cirsium sp*) and moss (*Sphagnum sp*).



3.3.3.2. To the west of the site there is a small area of grassland adjacent to a hard standing parking area. The area may be dominated by ruderal species during the growing season but comprised grassland during this survey. The grassland comprises false oat grass (*Arrhenatherum elatius*), Yorkshire fog (*Holcus lanatus*), perennial rye grass (*Lolium perenne*), cow parsley (*Anthriscus sylvestris*), nettle (*Urtica dioica*), dandelion (*Taraxacum officinale*), dock (*Rumex sp*), creeping buttercup (*Ranunculus repens*) and rosebay willowherb (*Chamerion angustifolium*).



3.3.4. Amenity grassland: There are several areas of amenity grassland immediately adjacent to the surveyed area, these comprise a playground, a football field and a small area of mown grass adjacent to the parking area. The areas of grassland were outside the surveyed area and had been recently mown during this survey making an accurate species identification not possible.



3.3.5. Scattered broad leaf trees: There are several scattered broad leaf trees around the site. The trees predominantly comprise a series of mature oak (*Quercus sp*) and ash (*Fraxinus excelsior*) trees (T6 – T10) along the southern boundary of the site with occasional other semi mature or sapling trees in other areas, these comprise willow (*Salix sp*), holly (*Ilex aquifolium*) and ash (*Fraxinus excelsior*)



3.3.6. Dense/continuous scrub: There are two areas of dense scrub within and immediately adjacent to the surveyed area.



3.3.6.1. To the south of the surveyed area there is an area of scrub adjacent to a parking area. The scrub comprises hawthorn (*Crataegus monogyna*), elder (*Sambucus nigra*), holly (*Ilex aquifolium*), bramble (*Rubus fruticosus*), ivy (*Hedera helix*), willow (*Salix sp*), rosebay willowherb (*Chamerion angustifolium*) and nettle (*Urtica dioica*). There are also some very small areas of grassland along the boundaries of the scrub, these areas were too small to map.



3.3.6.2. Along the northern boundary of the site, outside the surveyed area, a further area of scrub runs along a small watercourse flowing in this area. The scrub in this area comprises predominantly hawthorn (*Crataegus monogyna*) and ivy (*Hedera helix*) with occasional bramble (*Rubus fruticosus*).





3.3.7. Bare ground: There are several areas of bare ground within and around the surveyed area.

3.3.7.1. To the west of the surveyed area and within the proposed access to the site there is a large hard packed stone parking area and access road.



3.3.7.2. A footpath that runs up the northern boundary of the site comprises bare earth and mud due to the high levels of use along the path.



3.3.8. Running water: A small watercourse flows along part of the southern boundary of the site, outside the surveyed area. The watercourse flows from the ground at the eastern end of the site with no culvert headwall visible. The watercourse then flows into another culvert approximately 40m to the west. The watercourse is approximately 0.1m wide, shallow and slow flowing where it flows above ground with the banks and bed of the watercourse comprising bare earth.



3.3.9. Dry ditch: A dry ditch extends along the northern site boundary. The ditch comprises areas of scrub including bramble (*Rubus fruticosus*), rosebay willowherb (*Chamerion angustifolium*), elder (*Sambucus nigra*), hawthorn (*Crataegus monogyna*) and bracken (*Pteridium aquilinum*).



3.3.9.1. To the east of the surveyed area the dry ditch comprises a shallow hollow within the adjacent grazing field.

3.3.10. Fences: The boundaries of the site and the internal boundaries comprise a variety of different fence types including a large metal mesh fence to the north, post and wire stock fences around the fields and small decorative metal fencing to the playground to the south.

3.3.11. Walls: A short section of stone wall extends along the southern boundary of the site in the western corner adjacent to a residential property.

### **3.4. Description of Fauna.**

3.4.1. No badger setts or other badger field signs were identified within the surveyed area.

3.4.2. No water vole or otter field signs were identified along the short section of watercourse identified to the south of the site. The watercourse was identified as being too small to provide an ideal habitat for either species.

3.4.3. No other habitats suitable for water voles or otters were identified within or immediately adjacent to the surveyed area.

3.4.4. The watercourse identified flowing along the southern boundary of the site was assessed as providing a low value habitat for crayfish due to the small size of the watercourse and the presence of only a short section of watercourse above ground level. However, a thorough invasive search for crayfish was not possible during this survey due to restrictions in the timing of invasive crayfish surveys.

3.4.5. The two buildings located within the surveyed area have been dealt with separately below with regarding to bats.

#### **3.4.6. Building 1.**

##### **3.4.6.1. Brief Description.**

3.4.6.1.1. Building 1 is an Italian restaurant located on Whalley Road. The building is currently disused and empty.



3.4.6.1.2. The building has two storey high walls that are rendered with decorative stonework around the eaves and a decorative gutter built in at eaves level. The windows and doors around the building are intact but boarded.



3.4.6.1.3. The roof of the building comprises a pitched tiled roof with a hip to the south and a gable end to the north. There is a large chimney central within the roof.



3.4.6.1.4. Internally the building has two loft spaces, one under the main pitched section of the roof and one under the hip at the southern side of the roof. Both spaces display exposed rafter and purlin timbers, no insulation and a modern breathable lining on the inside of the tiles.



3.4.6.1.5. To the rear of the building there are several single storey extensions and outbuildings comprising a mix of flat and sloping roofs. These buildings are also boarded up.





### **3.4.6.2. Survey Results.**

3.4.6.2.1. The exterior walls of the building were found to be in a generally good condition with no severe areas of missing or cracked render and no other cracks or voids. Voids were identified around the eaves of the building where it joins to the adjacent cottage, as shown below.



3.4.6.2.2. No bat field signs were identified around the voids during this survey of the site.

3.4.6.2.3. The roof of the building was found to be in a generally good condition with no missing or slipped tiles. Occasional voids were identified leading underneath the ridge and hip tiles that may provide access to voids beneath.



3.4.6.2.4. Internally the loft spaces were found to display high levels of cobweb along the ridge. No bat field signs were identified within either of the loft spaces during this survey.

3.4.6.2.5. The building was found to have a cellar, which was found to be have been previously used to store materials and to house the alcohol pump. The cellar was assessed as being unsuitable for summer roosting or hibernating.

3.4.6.2.6. Overall the building was assessed as displaying a **low** potential for roosting bats with the only potential being along the eaves of the building and underneath the ridge tiles although there were no signs to imply that these areas are being used.

### ***3.4.7. Building 2.***

#### ***3.4.7.1. Brief Description.***

3.4.7.1.1. Building 2 is a residential property located on Whalley Road, joined to the northern elevation of Building 1. The building is currently disused and empty.



3.4.7.1.2. The building has two storey high walls that are rendered with the guttering sitting on stone corbels along the eaves. The windows and doors around the building are intact but boarded.

3.4.7.1.3. The roof of the building comprises a clay tiled pitched roof.

3.4.7.1.4. Internally the building has one loft space that extends throughout the roof void. The loft space displays a purlin and rafter timber design with a bituminous lining on the inside of the tiles.



#### **3.4.7.2. Survey Results.**

3.4.7.2.1. The exterior walls of the building were found to be in a generally good condition with no cracks or voids in the render. Voids were identified along the eaves of the building, as shown below.





3.4.7.2.2. The roof of the building was found to be in a generally good condition with no missing or slipped ridge tiles. However, one missing ridge tile was identified leaving potential access to the void between the tiles and lining felt.



3.4.7.2.3. Internally the loft spaces were found to display high levels of cobweb along the ridge. No bat field signs were identified within the loft space during this survey.

3.4.7.2.4. Overall the building was assessed as displaying a **low** potential for roosting bats with the only potential being along the eaves of the building and the missing ridge tile although there were no signs to imply that these areas are being used.

3.4.8. Several mature trees were identified along the southern boundary of the site. The trees are located on the adjacent land but overhang onto the site. A brief description of each tree is included below along with an assessment of the trees using the Bat Conservation Trust Protocol for the Visual Inspection of Trees.



#### **3.4.8.1. Tree, T6.**

T6 is a semi mature oak tree. The tree displays occasional visible voids that would provide bat roosting potential. The tree was therefore assessed as being a Category 1 tree.



#### **3.4.8.2. Tree, T7.**

T7 is a mature ash tree. The tree is large but displays no visible voids that would provide bat roosting potential. The tree was therefore assessed as being a Category 2 tree.



#### **3.4.8.3. Tree, T8.**

T8 is a mature oak tree. The tree grows with a distinct bend but still displays open voids that would provide bat roosting potential. The tree was therefore assessed as being a Category 1 tree.



#### **3.4.8.4. Tree, T9.**

T9 is a mature ash tree. The tree displays visible knot holes and broken boughs that may provide bat roosting potential. The tree was therefore assessed as being a Category 1 tree.



#### 3.4.8.5. Tree, T10.

T10 is a mature oak tree. The tree displays visible knot holes and broken branches that may provide bat roosting potential. The tree was assessed as being a Category 1 tree.

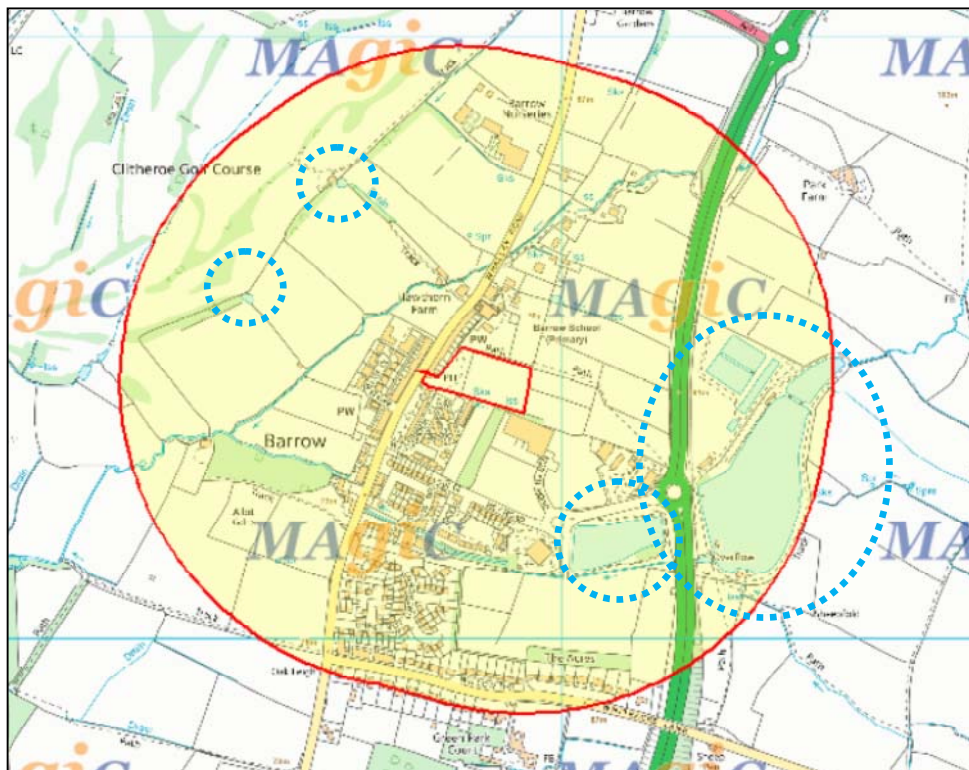


3.4.9. No other mature trees that displayed suitable roosting opportunities for bats were identified within or immediately adjacent to the site.

3.4.10. The site was assessed as providing a moderate value habitat for foraging bats due to the tree lines along the southern and western boundaries providing potential flight lines or foraging areas.

3.4.11. A thorough assessment of the bat foraging activity in the area of the site could not be carried out during this daytime survey of the site.

3.4.12. Nine ponds were identified within 500m of the site on a map of the area, as shown below.





3.4.13. Six of the ponds lie within Pendle View Fisheries to the east of the site. These ponds are therefore assumed to be regularly stocked with fish although no access could be gained to the ponds during this survey. The ponds are therefore assessed as unlikely to provide a suitable habitat for great crested newts.

3.4.14. Another of the ponds is a large pond within a new development approximately 250m to the southeast of the site. The pond displays little submerged or emergent vegetation with the banks dominated by scrub and rough grassland around the perimeter of the pond.



3.4.15. A Habitat Suitability Index (HSI) assessment of the pond scored 0.65, which implies an “Average” potential for the pond to support a population of great crested newts.

3.4.16. A further two small ponds were identified on a map approximately 350m to the west of the site along the boundary of Barrow Golf Club. These ponds lie on private land and therefore a thorough assessment of the ponds was not carried out during this survey.

3.4.17. A small area of standing water was also identified within the field at the eastern end of the site (T5). This area appeared to be water collected from recent rainfall with no signs of vegetation that would imply the water has any permanence.



3.4.18. The site provides some potential terrestrial habitat within the areas of rougher grassland and scrub although these areas show signs of regular disturbance. No great crested newts or other amphibians were identified during this survey of the site.

3.4.19. In addition the busy A59 lies to the east of the site between the site and the six ponds on the fisheries and Whalley Road lies immediately to the west, between the site and the ponds adjacent to Barrow Golf Club, with terraced residential housing lining the road. Therefore the potential for great crested newts to be present was assessed as low.

3.4.20. The buildings and vegetation on the site provide a suitable nesting habitat for various species of bird during the nesting season, which extends from March to September each year.

3.4.21. No active nests were identified during this survey because the survey was carried out outside the nesting season. However, several old nests were identified in the trees along the southern boundary of the site.



3.4.22. The site provides some potential for reptiles within the scrub and rough grassland although overall the value of the site for reptiles was assessed as being low. No reptiles were identified during this survey of the site.

3.4.23. No habitat suitable for hazel dormice was identified within the surveyed area and the site lies outside the usual range for the species.

3.4.24. The trees and scrub on the site may provide a suitable habitat for red squirrels although no red squirrels or squirrel field signs were identified during this survey of the site.

3.4.25. This survey was carried out during the winter when most invasive non native plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 have died back for the winter. However, one invasive plant species was identified on the site, that species was Japanese Knotweed.

3.4.26. Japanese Knotweed plants, stems and stumps were identified in the rear garden of the cottage during this survey (T1). The plants and stumps lie between the paving slabs within the garden indicating that the plant grows through the patio of the property.

3.4.27. The photograph below shows some of the locations of the Japanese Knotweed.



3.4.28. It was not possible to assess the full extent of the Japanese Knotweed during this survey of the site due to the signs that the plant species has been cut back at the stumps.



3.4.29. No other invasive non native plant species were identified during this survey of the site.

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## **4. EVALUATION OF FINDINGS.**

4.1. No designated sites were identified within or immediately adjacent to the surveyed area. The closest sites are two Biological Heritage Sites located over 650m to the west of the site, those being Barrow Brook Field and Hard Hill Common. Therefore there will be no impact on designated sites during the proposed development of the site.

4.2. The habitats on the site are common habitats found in abundance within the surrounding area although some of the habitats display a moderate ecological value, those being the semi improved neutral grassland, scattered broad leaf trees, dense scrub and running water.

4.3. Rivers and streams are a broad BAP priority habitat. The small watercourse that flows within the ditch to the south of the site was not assessed as being covered by the prior habitat because ditches are excluded from the habitat.

4.4. Although the watercourse is not assessed as being a priority habitat it does have some ecological value for plant and fauna species.

4.5. The watercourse lies outside the surveyed area but within 2-3m of the site boundary. Therefore the proposed development of the site will not directly impact on the watercourse but may have some indirect impacts if precautions are not taken.

4.6. Semi improved neutral grassland is also a broad BAP priority habitat more specifically covering “Lowland Meadows” and “Upland Hay Meadows”. The agricultural use of the grassland on the site and the low diversity of grass and plant species identified during this survey and the previous surveys of the site means that the grassland has been assessed as not being covered by this BAP Priority Habitat.

4.7. This survey was carried out during the winter, a sub optimal time for the assessment of grasslands. There is previous survey data for the grassland from within the peak season, most recently August 2014, which identifies the grassland as having a low diversity and therefore low ecological value. It is assessed that this assessment of the grassland remains valid due to the intensive grazing of the land and the regular disturbance to the areas that are not grazed.



4.8. The proposed development of the site will have a high impact on the neutral grassland because this habitat makes up the majority of the site and therefore a large area of the grassland will be lost to the development of the site. This is however assessed as a low impact on the ecological value of the area.

4.9. The scattered broad leaf trees on the site have a high ecological value, particularly the trees along the southern boundary (T6 to T10) due to the trees providing a suitable habitat for nesting birds and the mature trees providing potential for roosting bats.

4.10. Trees T6 to T10 will not be directly impacted upon by the proposed development because the trees lie outside the southern boundary of the site. However, the development may have some impact on the trees through damage to the root systems and the pruning of areas that overhang the site. These works could have a high impact on the trees if the works are not carried out with care.

4.11. The remaining scattered trees are smaller, providing a lower ecological value and therefore the loss of these trees is not assessed as a high impact on the ecological value of the area.

4.12. The scrub to the west of the site also has a moderate to high ecological value because the scrub provides a suitable nesting habitat for various species of bird and also provides potential refugia for amphibians and reptiles, if present in the area. However the ecological value of the scrub is somewhat reduced by the regular disturbance within the area and the presence of garden waste and rubbish.

4.13. The development of the site will have a high impact on the areas of scrub within the development footprint due to the loss of these areas. This is not assessed as a high impact on the ecological value of the area due to the presence of areas of scrub outside the development footprint.

4.14. The remaining habitats are common habitats that have a low ecological value such as bare ground, buildings, walls and fences. The loss of these habitats is not assessed as having a high impact on the ecological value of the area.

4.15. No badger setts or other badger field signs were identified within the surveyed area. Therefore there will be no impact on badgers during the proposed development of the site.

4.16. The watercourse along the southern boundary of the site was not assessed as providing an optimal habitat for water voles and otters and no field signs for the species were identified during this survey of the site. Therefore there will be no impact on water voles or otters during the proposed development of the site.

4.17. The watercourse that flows along the southern boundary of the site was assessed as providing a low value habitat for crayfish and there are no records of the species within the watercourse. However, a thorough invasive search for the species was not possible during this survey due to restrictions in the timing of invasive crayfish surveys.

4.18. The proposed development of the site will not directly impact on the watercourse and will therefore not have a direct impact on crayfish in the unlikely event that the species is present in the watercourse.

4.19. Two buildings were identified within the surveyed area, the Italian restaurant (Building 1) and the adjoined cottage (Building 2). Both buildings were assessed as displaying a **low** potential for roosting bats to be present with no bat field signs identified around the buildings during this survey of the site.

4.20. Previous surveys of the site included daytime and dusk emergence bat surveys carried out during 2012 and 2014. None of the surveys identified bat field signs within the buildings or bats emerging during the dusk emergence surveys.

4.21. Therefore it is assessed that the buildings do not support bat roosts and that there will be no impact on roosting bats in the buildings during the development of the site.

4.22. The scattered broad leaf trees on the site were assessed against the Bat Conservation Trust Protocol for the Visual Inspection of Trees. The only notable trees were five ash and oak trees along the southern boundary of the site, T6 to T10.

4.23. Trees T6, T8, T9 and T10 were assessed as Category 1 trees due to the size and age of the trees and the presence of features such as knot holes and broken boughs that would provide suitable roosting opportunities for bats. Tree T7 was assessed as a Category 2 tree because this tree is of the correct size and age to support bats but displays no visible features for roosting.

4.24. The development of the site will not directly impact on the trees because they lie outside the southern boundary of the site. However the works may affect the trees through development close to the site affecting the root systems or requiring pruning of branches that overhang the site or through an increase in light around the trees. These works may have a high impact on roosting bats if they are present in the trees.

4.25. The site was assessed as providing a moderate value foraging habitat for bats due to the presence of tree lines along the southern and western boundaries. However, a thorough assessment of the bat foraging activity around the site could not be carried out during this survey of the site.

4.26. The previous emergence surveys carried out during 2012 and 2014 mention foraging Pipistrelle bats within the area of bare ground to the west of the site but do not give detail on the overall foraging activity around the site.

4.27. The development of the site may impact on foraging bats if they are present around the site due to the potential loss of the scrub to the west of the site and the increase in light around the site following the development. However, the impact is thought to be relatively low if precautions are taken because the development will retain potential foraging lines along the southern and western boundaries through the inclusion of housing and gardens in these areas.

4.28. Nine ponds were identified within 500m of the site on a map of the area. Only one of the ponds could be thoroughly assessed during this survey because the other eight ponds lie on private land and are not visible from areas of public access.

4.29. No existing records of great crested newts or other newt species were identified within 500m of the site although there are extensive records of great crested newts and other newt species to the south of the site with the closest record being approximately 1.5km from the site. There are however records of common toads (a BAP priority species) approximately 350m to the southwest of the site.

4.30. Six of the ponds lie within Pendle View Fisheries which lies to the east of the site on the opposite side of the A59, a busy dual carriageway. It is therefore assessed that these ponds will not provide a suitable habitat for great crested newts because it is assumed that the ponds are regularly stocked with fish. The A59 would also create a barrier to amphibian movements between the ponds and the site.



4.31. Two of the ponds lie approximately 350m to the west of the site on the boundary of Barrow Golf Club. These ponds could not be assessed during this survey although Whalley Road, which is lined with residential housing in the area of the site, lies between the ponds and the site. Therefore the combination of the barriers to movement in the area and the low value terrestrial habitat present on the site make it unlikely that any amphibians present in the ponds would use the site as terrestrial habitat.

4.32. The final pond is a large pond within a development approximately 250m to the southeast of the site. The pond scored “Average” on a HSI assessment although the isolation of the pond, which lies approximately 600m from any other ponds, with the exception of the ponds within the fisheries, makes it further unlikely that the pond will support a population of great crested newts or other amphibians.

4.33. The terrestrial value of the site is also low and therefore it is assessed as highly unlikely that the site will support a population of great crested newts or common toads or that there will be an impact on the species during the development of the site.

4.34. The buildings and vegetation on the site will provide a suitable nesting habitat for various species of bird during the nesting season, which extends from March to September each year. No active nests were identified during this survey because the survey was carried out outside the nesting season although old nests were identified in some of the trees showing that birds do use the site.

4.35. Any site clearance work or vegetation clearance carried out during the nesting season will potentially have a high impact on any bird present in the vegetation at that time.

4.36. The site provides some potential for reptiles although the potential is assessed as being low with the only potential being within the areas of scrub and rough grassland. No reptiles were identified during this survey.

4.37. The development of the site will cause the loss of some areas of suitable reptile habitat. However, the low potential of the habitat and the presence of other areas of more suitable habitat in the surrounding area make the potential impact on reptiles low.

4.38. No habitat suitable for hazel dormice was identified within the surveyed area and the surveyed area lies outside the common range for hazel dormice. Therefore there will be no impact on hazel dormice during the proposed development of the site.

4.39. The trees and scrub within the surveyed area provide a suitable habitat for red squirrels. However, no red squirrels or red squirrel field signs were identified during this survey and there are no existing records of red squirrels within the area of the site. Therefore there will be no impact on the species during the proposed development of the site.

4.40. One invasive plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 was identified within the surveyed area, that species was Japanese Knotweed.

4.41. Japanese Knotweed plants, stumps and stems were identified in the rear garden of the cottage within the surveyed area (T1). The full extent of the Japanese Knotweed could not be assessed during this survey because the plant species had died back for the winter at the time of this survey and the plant appeared to have been cut at the stumps.

4.42. Japanese Knotweed is highly invasive and spreads through any part of the root system or rhizomes being spread to another area. Therefore any work carried out within the area of the plant has the potential to spread the plant to other areas.

4.43. No other invasive non native plant species were identified during this survey of the site, although most species die back for the winter.

4.44. No additional species were identified during the previous surveys of the site, which were carried out during the season when the plants would have been present. Therefore it is assumed that no other invasive species are present and there will be no further risk of plant species being spread during the development of the site.

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## **5. RECOMMENDATIONS.**

5.1. It is recommended that measures are put in place to ensure that the watercourse that flows just outside the southern boundary of the site is not impacted upon by the proposed works. The measures should include:

- Preventing site runoff into the watercourse during the construction phase of the works.
- Preventing contamination of the watercourse through spill of fuel or other contaminants.
- Preventing direct impacts on the immediate banks or bed of the watercourse.

5.2. If it is not possible to put measures in place to prevent the impacts above the local authority should be contacted and details of the works affecting the watercourse should be passed to the author of this report to allow a further assessment of the potential impact on crayfish if they are present in the watercourse.

5.3. It is recommended that measures are put in place to ensure the scattered broad leaf trees, T6 to T10, are not impacted upon by the proposed works either directly or indirectly. The following measures should be put in place to ensure no major impact on the trees.

- No construction work should be carried out within 10m of the trees to prevent any direct impact on roosting bats.
- Root protection should be put in place prior to any excavation in the area of the trees.
- Pruning of branches should be kept to an absolute minimum.
- Lighting in the area of the trees should be kept to a minimum with no lights shining directly onto the trees.

5.4. If it is not possible to put these measures in place a further bat survey of the trees should be carried out in advance of any works commencing.

5.5. The bat survey should ideally take the form of an initial climbing assessment of the trees followed by more specific dusk emergence bat surveys carried out between April and August, where deemed necessary following the findings of the climbing survey.

5.6. If any work will impact on the trees during the nesting season the works must also be preceded by a thorough nesting bird survey carried out by a suitably experienced person.

5.7. It is recommended that the impact on the scrub is limited with areas of scrub being retained where possible, particularly along the western boundary of the site.

5.8. Due to the findings of this and the previous bat survey work carried out on the buildings on the site it is not recommended that further survey work is carried out and a Natural England licence will not be required to cover the proposed development of the site.

5.9. Due to the potential for individual bats to seek refuge almost anywhere it is recommended that precautionary measures are put in place during the demolition of the existing buildings on the site. The precautionary measures should include:

- All personnel being briefed on the potential presence of bats on the site and how to identify the species. A toolbox talk has been included at the end of this report to aid in this matter.
- Roof tiles and soffits around the building should be removed with care. In the unlikely event that any bats are identified they should be left in a sheltered area and works should cease. Further advice should be sought from a licenced ecologist prior to any work re-commencing on the site.

5.10. It is recommended that a line of scrub is retained along the western boundary of the site to retain a flight line for bats along this boundary.

5.11. If it is possible to retain the flight lines along the southern and western boundaries and the lighting in these areas can be kept to very low levels it is not recommended that further bat activity surveys are carried out because the impact on foraging bats will be very low.

5.12. If the scrub along the western boundary of the site will be completely removed it is recommended that further bat transect surveys of the site are carried out to accurately establish the level of bat foraging activity on the site. The bat activity surveys should be carried out in line with the Bat Conservation Trust Good Practice Guidelines, which require a single transect survey each season (spring, summer and autumn).

5.13. It is recommended that lighting on the site is kept to a minimum with only down lighting being used to reduce the light pollution onto the surrounding habitats.



5.14. It is recommended that the work continues with no requirement for further great crested newt surveys. It is however recommended that personnel are vigilant during the development and that works cease and further advice is sought if any amphibians are identified on the site.

5.15. It is ideally recommended that no work commences on the site during the nesting season, which extends from March to September each year, including building demolition works or vegetation clearance.

5.16. If there is a requirement for works to commence during the nesting season the works must be immediately preceded by a thorough nesting bird survey carried out by a suitably experienced person. Any nests identified must remain undisturbed until the young have fledged from the nest.

5.17. It is recommended that personnel working on the site are briefed on reptiles and are vigilant for the species during the site clearance works. A toolbox talk on reptiles has been included at the end of this report to aid in this matter. Any reptiles identified should be allowed to move off the site of their own accord. In the unlikely event that large numbers of reptiles (5+) are identified works on the site should cease and further advice should be sought.

5.18. Prior to any work commencing on the site it is recommended that a further survey is carried out during the late spring or summer to accurately identify the extent of the Japanese Knotweed.

5.19. Ideally it is recommended that the Japanese Knotweed is completely eradicated prior to any work commencing on the site, ideally through spraying with a suitable herbicide. Alternatively any work carried out within 10m of the plant must be covered by a suitable method statement outlining measures to prevent the spread of the plant to other areas.

5.20. It is recommended that the further survey for Japanese Knotweed includes an assessment of the site for other invasive plant species when they are in full growth to establish whether there will be any further impact through the spread of invasive species during the development.

5.21. It is recommended that the following Biodiversity Enhancements are included in the development to improve the ecological value of the site.

5.21.1. It is recommended that bat bricks are included in the houses on the site to increase the value of the site for roosting bats. The bat bricks should be of an in-keeping style mounted in a suitable location on the buildings. At least four boxes should be included on the site with the boxes being predominantly along the houses on the southern side of the site.

5.21.2. It is recommended that a variety of bird boxes are included on the buildings on the site, particularly sparrow terraces. These should be at least five in number and should be spread around the site.

5.21.3. It is recommended that any planting on the site is done using native fruit and berry producing species.

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|--------------------------|--------------------------------------|
| Prepared by:             |                                      |
| Steven Whitcher, MCIEEM. | Date: 15 <sup>th</sup> January 2016. |

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| Checked by:                    |                                      |
| Jenny Whitcher Roebuck MCIEEM. | Date: 15 <sup>th</sup> January 2016. |

## Appendix I. CRAYFISH INFORMATION.

It is necessary to understand a little about crayfish, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

Crayfish are the largest and most mobile freshwater invertebrate. The white-clawed crayfish (*Austropotamobius pallipes*) is the only native crayfish and this is protected under European and UK legislation.

White clawed crayfish are generally found in areas with relatively hard, mineral rich waters on calcareous and rapidly weathering rocks. They can be found in a wide variety of environments including canals, streams, rivers, lakes reservoirs and water-filled quarries.

White clawed crayfish are typically found in water between 0.75 and 1.25m deep but can occur in very shallow streams with as little water as 50mm and in deeper, slow flowing rivers. They are typically found under rocks and submerged logs or among tree roots and in river-banks. White clawed crayfish are omnivorous but primarily carnivorous eating macro invertebrates and carrion when available. They will also eat worms, insect larvae, snails, small fish, macrophytes, algae and calcified plants.

Crayfish can live for up to ten years and generally reach sexual maturity after three to four years. Breeding takes place between September and November when the water temperature drops consistently to below ten degrees centigrade. Females over winter with a clutch of eggs held beneath their tail. These may number from 20 to 120 and hatch on the female. The juveniles are released from the mother from June in the south to August in the north.

The main threat to the indigenous white-clawed crayfish is the spread of introduced non indigenous species, particularly the larger, faster growing and aggressive North American signal crayfish (*pacifastacus leniusculus*). They are also vulnerable to disease, particularly porcelain disease and crayfish plague, and the latter carried by the signal crayfish.

Crayfish are also extremely vulnerable to pollution incidents, particularly those involving biocides, silage and sheep dip.

As a result, white-clawed crayfish are endangered across most of its range and has been given protection under both European and UK legislation.

The white-clawed crayfish is covered by the Conservation of Habitats and Species Regulations 2010 (as amended), and as species listed in Annexes 2 and 5 of the Habitats Directive, which means that Member States should take measures to ensure that the taking of white-clawed crayfish in the wild is compatible with their being maintained at a favourable status.

In 1998, the white-clawed crayfish was added to Schedule 5 of the Wildlife and Countryside Act giving it partial protection in relation to Section 9(1) as far as it relates to taking and in respect of Schedule 9(5). It is therefore an offence to

intentionally take any white-clawed crayfish from the wild and an offence to sell wild crayfish.

Licences are available from English Nature to allow the taking of white-clawed crayfish for certain specified purposes, including scientific or educational purposes and for conservation purposes. An English Nature survey licence is required where any survey is aimed at finding white-clawed crayfish and involves handling them for counting or identification purposes.

An English Nature Conservation Licence is required for the purpose of conserving white-clawed crayfish or introducing them to particular areas.

Non indigenous crayfish species are also covered under the Wildlife and Countryside Act 1981. Section 14 makes it an offence for any person to (a) release or allow to escape, any wild animal which is of a kind not ordinarily resident in or a regular visitor to Great Britain in a wild state or; (b) is included in Schedule 9 of the Wildlife and Countryside Act.

Three species of non-indigenous crayfish are listed on Schedule 9. These are the signal crayfish (*Pacifastacus leniusculus*), the narrow clawed crayfish (*Astacus leptodactylus*) and the noble crayfish (*Astacus astacus*). Any of these three species found during a survey cannot be returned to the wild.



## **Appendix II. BAT INFORMATION.**

It is necessary to understand a little about bats, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

18 species of bat currently reside in Britain, 17 of which are known to breed here. They are extremely difficult to identify in the hand and even more so in flight.

All appear to be diminishing in numbers, probably due to shortage of food, caused by pesticides, as insects are their sole diet, and habitat change.

As their diet consists solely of insects, bats hibernate during the winter when their food source is at its most scarce. They will spend the winter in hollow trees, caves, mines and the roofs of buildings.

Certain species, particularly the Pipistrelle (the commonest and most widespread British bat) can quickly adapt to manmade structures and will readily use these to roost and to rear their young.

Bats are protected under the Wildlife and Countryside Act 1981, Regulation 41 of The Conservation of Habitats and Species Regulations 2010, and the Countryside & Rights of Way Act 2000.

It is an offence to intentionally or recklessly kill, injure or capture or disturb bats or to damage, destroy or obstruct access to any place used by bats for shelter or protection.

A breeding or resting site of any bat is known as a bat roost. A bat roost is therefore any structure a bat uses for shelter or protection. Because bats tend to use the same roosts each year, legal opinion is that the roost site is protected whether or not the bats are present at that time.

Bat roosts can be identified by looking for:-

- Suitable holes, cracks and crevices.
- Bat droppings.
- Prey remains.
- By carrying out night observations using a bat detector.

Where development proposals are likely to affect a bat roost site, a licence is required from Natural England.

The person applying for that licence has to be suitably qualified and experienced in bat matters. That person is then responsible for ensuring that the measures contained in the licence are carried out.

## **Appendix III.**

### **BACKGROUND GREAT CRESTED NEWT INFORMATION.**

The great crested newt population has suffered a major decline in Britain over the last century. Numerous ponds have been lost, unmanaged ponds have become silted up and over-shaded, development has destroyed ponds and associated terrestrial habitat and caused fragmentation of populations. The loss of grassland, scrub and woodland has resulted in fewer opportunities for foraging, dispersal and hibernation.

The UK Biodiversity Plan (BAP) contains a great crested newt Species Action Plan (SAP) aimed at maintaining its existing range and population status, as well as increasing the number of populations through re-colonisation.

The great crested newt is listed on Schedule 5 of the Wildlife and Countryside Act 1981, as amended by the Countryside and Rights of Way Act 2000. The great crested newt is therefore subject to the provisions of Schedule 9, which make it an offence to:

- Intentionally kill, injure or take a great crested newt.
- Possess or control any live or dead specimen or anything derived from a great crested newt.
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection by a great crested newt.
- Intentionally or recklessly disturb a great crested newt while it is occupying a structure or place, which it uses for that purpose.

The great crested newt is also listed on Regulation 41 of the Conservation of Habitats and Species Regulations 2010. Regulation 41 makes it an offence to:

- Deliberately capture or kill a great crested newt
- Deliberately disturb a great crested newt.
- Deliberately take or destroy the eggs of a great crested newt.
- Damage or destroy a breeding site or resting place of a great crested newt.

The legislation applies to all life stages of great crested newts.

The maximum fine on conviction of offences under Section 9 and Regulation 41 currently stands at £5,000. The CroW Act 2000 amendment also allows for a custodial sentence of up to six months instead of, or in addition to, a fine. In addition, items, which may constitute evidence of the commission of an offence, may be seized and detained.

In order to understand the potential effects of development it is essential to understand a little of the great crested newt ecology.

Great crested newts breed in ponds and other water bodies. They can begin to migrate to their breeding ponds as early as the first frost-free days in late January with the

majority reaching their breeding ponds by mid March. Timing will be influenced by a number of factors, mainly evening temperatures above 5°C and recent rain.

The peak egg-laying period is from mid-March to mid-May. The newts will lay their eggs individually, mainly on the leaves of submerged plants. The larva hatch after three weeks and then take another 2-3 months to complete larval development. Adult newts generally leave their breeding ponds from late May onwards.

Once the larvae have completed metamorphosis (the transition from aquatic larvae to land-adapted juveniles, called efts), they emerge from the pond. This emergence begins in late August and generally continues until late October. It takes 2-4 years to reach sexual maturity, during which time the newts will be land based.

Adults and immature newts spend the winter in places that afford protection from frost and flooding. This will generally be underground amongst tree roots, in mammal burrows, or under suitable refuges above ground like deadwood or rubble piles. Hibernation may last from October to February.

Whilst on land, outside the hibernation period, great crested newts will forage at night, taking a wide range of invertebrate prey.

From the above, it can be seen that great crested newts spend the majority of their time on land and only visit the ponds for breeding purposes. As a result, surveys need to be timed very carefully. Terrestrial surveys are very inaccurate and the only time that surveys can be truly thorough is in the narrow window of opportunity between March and September.

Great crested newts will travel large distances between ponds and terrestrial refuges. It is recommended that anywhere within 500m of a pond should be treated as potential great crested newt habitat and should be surveyed and evaluated.

An experienced surveyor must carry out the surveys and must be in possession of an appropriate Natural England great crested newt survey licence.

It is essential that great crested newt surveys are planned well in advance of any development and ideally before Planning Consent is sought. Surveys can only be carried out at the appropriate time of year and repeat surveys are essential. The guidelines suggest that between four and six surveys need to be carried out, three of these between mid-March and mid-June.

If great crested newts are to be effected by any development, a thorough assessment of the population is essential followed by the design of a comprehensive mitigation package. Only when this has been done can a licence application be submitted to Natural England for approval. It takes 30 working days for a licence application to be determined and the period of time that mitigation measures take can be measured in months. It is therefore essential to plan well in advance of development commencing.

## **Appendix IV. NESTING BIRD INFORMATION.**

It is necessary to understand a little about the legal protection offered to nesting birds in order to evaluate the findings of this report.

Part 1.-(1) Of the Wildlife and Countryside Act 1981 states that:-

If any person intentionally:-

- (a) kills, injures or takes any wild bird;
  - (b) takes, damages or destroys the nest of any wild bird while that nest is in use or being built; or
  - (c) takes or destroys an egg of any wild bird,
- he shall be guilty of an offence.

Part 1.-(5) of the Act states that:-

If any person intentionally:-

- (a) disturbs any wild bird included in Schedule 1 while it is building a nest or is in, on, or near a nest containing eggs or young; or
- (b) disturbs dependant young of such a bird,

he shall be guilty of an offence and liable to a special penalty.

The Countryside and Rights of Way Act 2000 amends the above by inserting after “intentionally” the words “or recklessly”.

The nesting season will vary according to the weather each year but generally commences in March, peaks during May and June and continues until September.

It is also worth remembering that some birds nest in trees, scrub and buildings but others are ground nesting.

The best way to avoid this issue is to plan for vegetation clearance to be carried out outside the bird-nesting season.

## **Appendix V.**

### **REPTILES - GRASS SNAKE AND ADDER INFORMATION.**

The grass snake (*Natrix natrix*) and the adder (*Vipera berus*) are the two most common snakes to be found in the UK. Adders are found all over Britain while the grass snake becomes rarer towards the north and are rarely found in Scotland.

The grass snake is usually around 120cm long, live in a variety of rough habitats and lay their eggs in warm rotting vegetation. The background colour is dark green and the body is marked with vertical black bars and spots that run along its sides. There is generally a dark collar marking.

The adder is the only native species that is venomous but this is rarely harmful to humans. Adult adders are generally up to 66cm long. Background colouration is a light shade of grey or brown with a black zigzag marking along the length of the back. As with all reptiles, colouration varies and becomes duller as sloughing (skin shedding) approaches.

Both snakes hibernate, spending the winter in burrows or under logs protected from the cold and predators. Maintaining the right body temperature is vital to reptiles' survival. In the morning, they find a warm basking site to heat up their bodies, then later they may move back into the shade because they do not sweat and have to be careful not to overheat. During hot summers, adders will try to move to damper, cooler sites.

Both snakes are protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.



## Appendix VI. REPTILES - LIZARD INFORMATION.

The common or viviparous lizard (*Lacerta vivipara*) is one of three species of lizard that occur in the UK. They have a dry scaly skin and are variable in colour ranging from brown or yellow-brown to almost green with varying patterns of spots or stripes. The typical length of an adult is 150mm, including the tail.

Common lizards hibernate over the winter, emerging from February onwards depending upon the weather. They begin to mate in April and May and the young are born in late July or August. The lizard gives birth to live young, hence the term viviparous, meaning live bearing.

The lizards draw their body warmth from the sun and consequently spend long periods basking in the sun. They are commonly seen on road and railway embankments and on walls where they sit for long periods soaking up the heat of the sun before going to find food.

They occupy a wide range of habitats including woodland, marshes, heathland, moors, sand dunes, hedgerows and bogs.

Common lizards hunt insects, spiders, snails and earthworms. They stun their prey by shaking it and then swallow it whole.

At night, and when startled, they will shelter beneath logs or stones or under other refuges that may be available.

Common lizards are protected under schedule 5 of the Wildlife and Countryside Act 1981 (they received greater protection following reviews of the schedules published in 1988 and 1991) and Schedule 2 of The Conservation of Habitats and Species Regulations 2010 (as amended) making it a European Protected Species.

Common lizards should not be confused with the somewhat larger sand lizard (*Lacerta agilis*). These are typically 190mm long and stockier than the common lizard. Their markings are distinctly different being considerably more colourful. Sand lizards are confined to moorland and coastal sand dunes where they lay their eggs in the warm sand. The range of the sand lizard in the UK is therefore very limited. Sand lizards are a European protected species.

The third species of lizard is the slow worm (*Anguis fragilis*), which is frequently mis-identified as a snake. The firm body of the slow worm is distinctly cylindrical in shape and the tiny smooth scales result in a very smooth, shiny appearance. Colouration is typically a uniform grey to brown although there is a wide variation from straw coloured to almost black and some animals have very fine stripes or a zig-zag along the centre of the back. The typical length of an adult is 400mm.

Slow worms can be found in a wide variety of habitats throughout Britain and is the most likely reptile to be found in urban and suburban environments.

Slow worms hibernate over the winter, emerging from March onwards depending upon the weather. They begin to mate in April and May and six to twelve young are born in August or September.

Their favourite food is slugs but they will also eat insects and spiders.

Slow worms are hard to find. They will bask in the sun but they quickly and quietly move into cover when disturbed and do not generally attract attention as they retreat from a basking spot.

Slow worms are also protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

## Appendix VII. SCHEDULE 9 INVASIVE PLANT SPECIES.

1. Schedule 9 of the Wildlife and Countryside Act 1981 contains a list of invasive species of plant. Species listed under Schedule 9 are prohibited from release into the wild. Schedule 9, Section 14(2) prohibits 'planting' or 'causing to grow' in the wild of any plant listed in Part 2 of Schedule 9.

2. The following is a list of all the species of plant listed under Schedule 9 of The Wildlife and Countryside Act 1981.

| Common Name                     | Latin Name                                             |
|---------------------------------|--------------------------------------------------------|
| Alexanders, Perfoliate          | <i>Smyrnum perfoliatum</i>                             |
| Algae, Red                      | <i>Grateloupia luxurians</i>                           |
| Archangel, Variegated Yellow    | <i>Lamiastrum galeobdolon</i> subsp. <i>Argentatum</i> |
| Azalea, Yellow                  | <i>Rhododendron luteum</i>                             |
| Balsam, Himalayan               | <i>Impatiens glandulifera</i>                          |
| Cotoneaster                     | <i>Cotoneaster horizontalis</i>                        |
| Cotoneaster, Entire Leaved      | <i>Cotoneaster integrifolius</i>                       |
| Cotoneaster, Himalayan          | <i>Cotoneaster simonsii</i>                            |
| Cotoneaster, Hollyberry         | <i>Cotoneaster bullatus</i>                            |
| Cotoneaster, Small Leaved       | <i>Cotoneaster microphyllus</i>                        |
| Creeper, False Virginia         | <i>Parthenocissus inserta</i>                          |
| Creeper, Virginia               | <i>Parthenocissus quinquefolia</i>                     |
| Dewplant, Purple                | <i>Disphyma crassifolium</i>                           |
| Fanwort (Carolina Water-Shield) | <i>Cabomba caroliniana</i>                             |
| Fern, Water                     | <i>Azolla filiculoides</i>                             |
| Fig, Hottentot                  | <i>Carpobrotus edulis</i>                              |
| Garlic, Three-cornered          | <i>Allium triquetrum</i>                               |
| Hogweed, Giant                  | <i>Heracleum mantegazzianum</i>                        |
| Hyacinth, Water                 | <i>Eichhornia crassipes</i>                            |
| Kelp, Giant                     | <i>Macrocystis pyrifera</i>                            |
| Kelp, Giant                     | <i>Macrocystis angustifolia</i>                        |
| Kelp, Giant                     | <i>Macrocystis integrifolia</i>                        |
| Kelp, Giant                     | <i>Macrocystis laevis</i>                              |
| Kelp, Japanese                  | <i>Laminaria japonica</i>                              |

|                                                     |                                                            |
|-----------------------------------------------------|------------------------------------------------------------|
| Knotweed, Giant                                     | <i>Fallopia sachalinensis</i>                              |
| Knotweed, Hybrid                                    | <i>Fallopia japonica</i> x <i>Fallopia sachalinensis</i>   |
| Knotweed, Japanese                                  | <i>Fallopia japonica</i>                                   |
| Leek, Few-flowered                                  | <i>Allium paradoxum</i>                                    |
| Lettuce, Water                                      | <i>Pistia stratiotes</i>                                   |
| Montbretia                                          | <i>Crocasmia</i> x <i>crocosmiiflora</i>                   |
| Parrot's Feather                                    | <i>Myriophyllum aquaticum</i>                              |
| Pennywort, Floating                                 | <i>Hydrocotyle ranunculoides</i>                           |
| Potato, Duck                                        | <i>Sagittaria latifolia</i>                                |
| Primrose, Floating Water                            | <i>Ludwigia peploides</i>                                  |
| Primrose, Water                                     | <i>Ludwigia grandiflora</i>                                |
| Primrose, Water                                     | <i>Ludwigia uruguayensis</i>                               |
| Rhododendron                                        | <i>Rhododendron ponticum</i>                               |
| Rhododendron                                        | <i>Rhododendron ponticum</i> x <i>Rhododendron maximum</i> |
| Rhubarb, Giant                                      | <i>Gunnera tinctoria</i>                                   |
| Rose, Japanese                                      | <i>Rosa rugosa</i>                                         |
| Salvinia, Giant                                     | <i>Salvinia molesta</i>                                    |
| Seafingers, Green                                   | <i>Codium fragile</i>                                      |
| Seaweed, Californian Red                            | <i>Pikea californica</i>                                   |
| Seaweed, Hooked Asparagus                           | <i>Asparagopsis armata</i>                                 |
| Seaweed, Japanese                                   | <i>Sargassum muticum</i>                                   |
| Seaweeds, Laver (except native species)             | <i>Porphyra</i> spp except                                 |
|                                                     | <i>p. amethystea</i>                                       |
|                                                     | <i>p. leucosticte</i>                                      |
|                                                     | <i>p. linearis</i>                                         |
|                                                     | <i>p. miniata</i>                                          |
|                                                     | <i>p. purpurea</i>                                         |
|                                                     | <i>p. umbilicalis</i>                                      |
| Stonecrop, Australian Swamp (New Zealand Pygmyweed) | <i>Crassula helmsii</i>                                    |
| Wakame                                              | <i>Undaria pinnatifida</i>                                 |
| Waterweed, Curly                                    | <i>Laqarosiphon major</i>                                  |
| Waterweeds                                          | All species of the genus <i>Elodea</i>                     |

3. The Government has acknowledged the problems that can be caused by non-native invasive species. In 2008 the Government launched “The Invasive Non-Native Species Framework Strategy for Great Britain”. The strategy provides a framework for a more co-ordinated approach to invasive species management. It seeks to create a stronger sense of shared responsibility across government, key organisations, land managers and the public.

4. The Non Native Species Secretariat has been established to oversee the implementation of the strategy. Details of the secretariat including risk assessments and action plans for some species are available at [www.nonnativespecies.org](http://www.nonnativespecies.org).

5. In general there are four basic methods of controlling weeds; mechanical, chemical, natural and environmental.

5.1. Mechanical control includes cultivation, hoeing, pulling, cutting, raking dredging or other methods to uproot or cut weeds.

5.2. Where this method is used all plant material must be considered “controlled waste” and must be disposed properly.

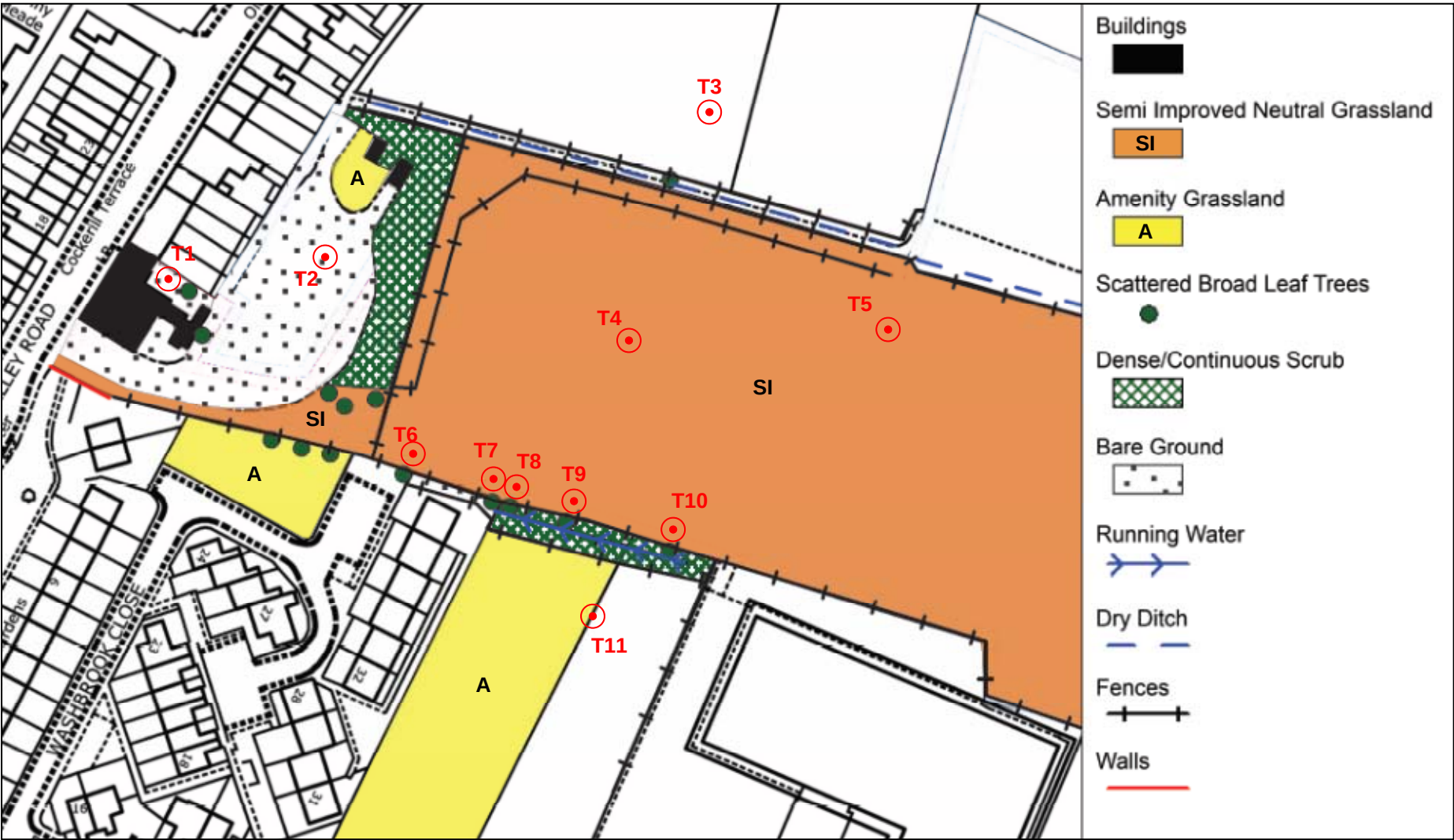
5.3. Chemical control uses approved herbicides.

5.4. Natural control uses pests and diseases of the target weed to weaken it and prevent it from becoming a nuisance.

5.5. Environmental control works by altering the environment to make it less suitable for weed growth, for example by increasing or decreasing water velocity.



**Appendix VIII. ANNOTATED MAP OF THE SURVEY AREA.**



## **Appendix IX. TARGET NOTES.**

**T1:** Japanese Knotweed plants, stumps and stems were identified in the back garden of the cottage within the surveyed area. The full extent of the Japanese Knotweed could not be assessed during this survey.

**T2:** The bare ground to the rear of the buildings comprises a hard packed stone parking area. The majority of this area lies outside the surveyed area.

**T3:** The land to the north of the site comprises a school playing field and further areas of grazed grassland. These areas were not covered during this survey.

**T4:** The main area of the site comprises semi improved neutral grassland. The grassland has been assessed as having a low ecological value during this survey carried out at a sub-optimal time and during previous surveys carried out at an optimal time of year.

**T5:** A small area of standing water was identified on the site. The area was assessed as having no permanence due to the lack of indicative plant species.

**T6:** A semi mature oak tree assessed as a Category 1 tree using BCT Guidelines.

**T7:** A mature ash tree assessed as a Category 2 tree using BCT Guidelines.

**T8:** A mature oak tree assessed as a Category 1 tree using BCT Guidelines.

**T9:** A mature ash tree assessed as a Category 1 tree using BCT Guidelines.

**T10:** A mature oak tree assessed as a Category 1 tree using BCT Guidelines.

**T11:** The land to the south of the site comprises areas amenity grassland, residential housing and industrial land. These areas were not covered in detail during this survey.

## Appendix X. SPECIES LISTS.

### 1. Semi improved neutral grassland, field.

| Species.                                         | DAFOR Assessment. |
|--------------------------------------------------|-------------------|
| Crested dogs tail ( <i>Cynosurus cristatus</i> ) | A                 |
| Common bent ( <i>Agrostis capillaries</i> )      | A                 |
| Perennial rye grass ( <i>Lolium perenne</i> )    | F                 |
| Cocks foot ( <i>Dactylis glomerata</i> )         | F                 |
| Yorkshire fog ( <i>Holcus lanatus</i> )          | F                 |
| Soft rush ( <i>Juncus effuses</i> )              | O                 |
| Thistle ( <i>Cirsium sp</i> )                    | O                 |
| Moss ( <i>Sphagnum sp</i> )                      | F                 |

### 2. Semi improved neutral grassland, parking area.

| Species.                                              | DAFOR Assessment. |
|-------------------------------------------------------|-------------------|
| False oat grass ( <i>Arrhenatherum elatius</i> )      | F                 |
| Yorkshire fog ( <i>Holcus lanatus</i> )               | F                 |
| Perennial rye grass ( <i>Lolium perenne</i> )         | F                 |
| Cow parsley ( <i>Anthriscus sylvestris</i> )          | F                 |
| Nettle ( <i>Urtica dioica</i> )                       | O                 |
| Dandelion ( <i>Taraxacum officinale</i> )             | O                 |
| Dock ( <i>Rumex sp</i> )                              | O                 |
| Creeping buttercup ( <i>Ranunculus repens</i> )       | F                 |
| Rosebay willowherb ( <i>Chamerion angustifolium</i> ) | A                 |

### 3. Scattered broad leaf trees.

| Species.                          | DAFOR Assessment. |
|-----------------------------------|-------------------|
| Oak ( <i>Quercus sp</i> )         | F                 |
| Ash ( <i>Fraxinus excelsior</i> ) | F                 |
| Willow ( <i>Salix sp</i> )        | O                 |
| Holly ( <i>Ilex aquifolium</i> )  | O                 |

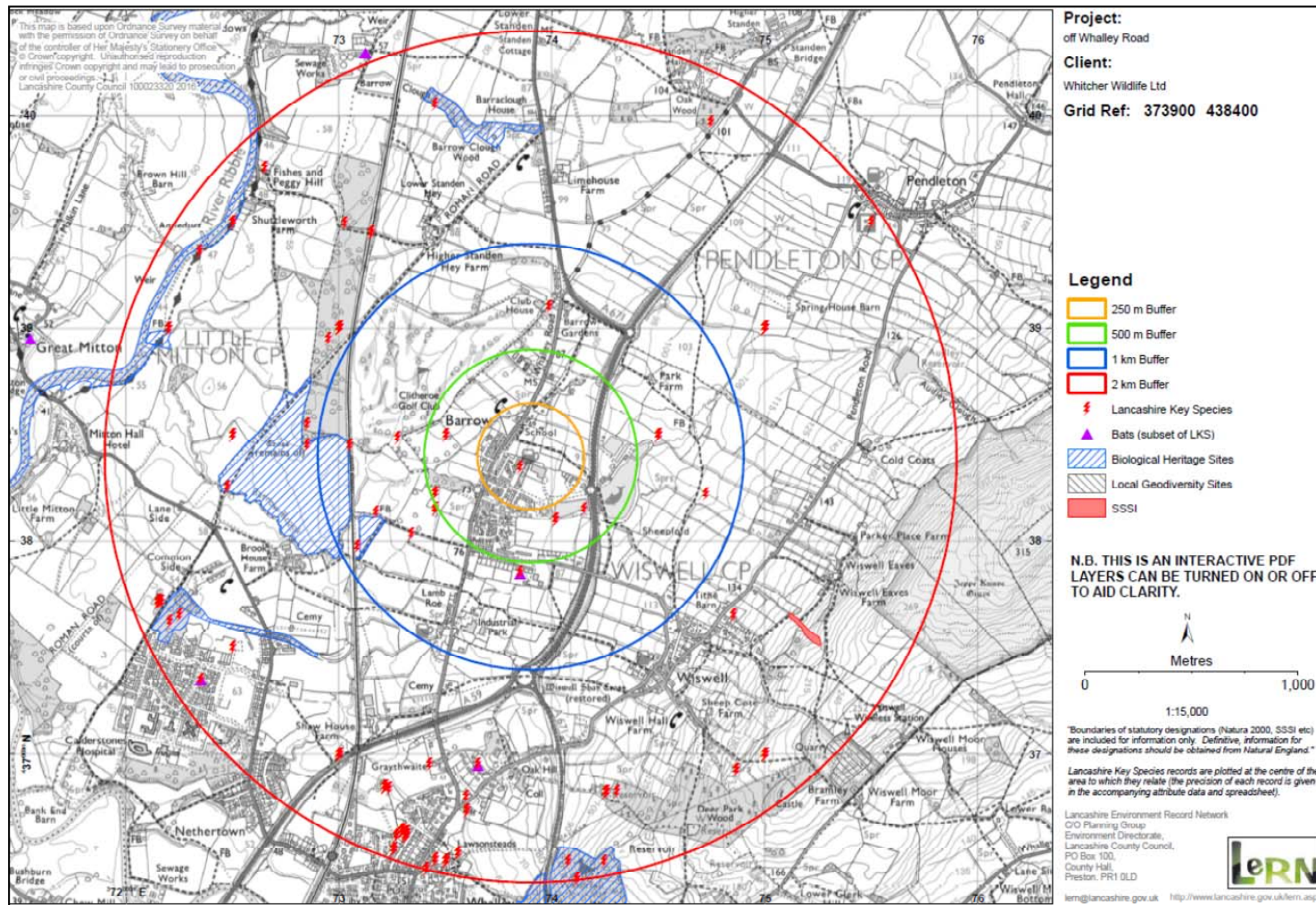
4. Dense/continuous scrub.

| Species.                                              | DAFOR Assessment. |
|-------------------------------------------------------|-------------------|
| Hawthorn ( <i>Crataegus monogyna</i> )                | A                 |
| Elder ( <i>Sambucus nigra</i> )                       | F                 |
| Holly ( <i>Ilex aquifolium</i> )                      | O                 |
| Bramble ( <i>Rubus fruticosus</i> )                   | O                 |
| Ivy ( <i>Hedera helix</i> )                           | A                 |
| Willow ( <i>Salix</i> sp)                             | O                 |
| Rosebay willowherb ( <i>Chamerion angustifolium</i> ) | F                 |
| Nettle ( <i>Urtica dioica</i> )                       | O                 |

5. Dry ditch.

| Species.                                              | DAFOR Assessment. |
|-------------------------------------------------------|-------------------|
| Bramble ( <i>Rubus fruticosus</i> )                   | O                 |
| Rosebay willowherb ( <i>Chamerion angustifolium</i> ) | F                 |
| Elder ( <i>Sambucus nigra</i> )                       | O                 |
| Hawthorn ( <i>Crataegus monogyna</i> )                | O                 |
| Bracken ( <i>Pteridium aquilinum</i> )                | O                 |

## Appendix XI. DATA SEARCH RESULTS.



| FID | ID         | COMMONNA                              | TXGROUP         | GRIDREF | YEAR | TXSTCONS                            | TOPLOCAT      | LOCATNAM                              | COMMENT | SAMP_1KM | DATE           |
|-----|------------|---------------------------------------|-----------------|---------|------|-------------------------------------|---------------|---------------------------------------|---------|----------|----------------|
| 0   | 542<br>253 | Song Thrush                           | bird            | SD73P   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 1   | 542<br>252 | Kestrel                               | bird            | SD73P   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 2   | 438<br>121 | Meadow Pipit                          | bird            | SD73N   | 1998 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1998           |
| 3   | 465<br>536 | Lapwing                               | bird            | SD73J   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 4   | 512<br>507 | Bluebell                              | flowering plant | SD73N   | 1995 | In respect of section<br>13(2) only | Vice-counties | South Lancashire,<br>Wiswell          |         |          | 01/01/<br>1995 |
| 5   | 511<br>255 | Sphagnum<br>palustre var.<br>palustre | moss            | SD73N   | 1999 |                                     | Vice-counties | Deer Park Wood &<br>Quarry Whalley    |         |          | 18/06/<br>1999 |
| 6   | 454<br>724 | Slender<br>Stubble-moss               | moss            | SD73J   | 2007 | Lancs BAP Provisional<br>Long List  | Vice-counties | River Ribble                          |         |          | 04/11/<br>2007 |
| 7   | 435<br>418 | Linnet                                | bird            | SD73I   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 8   | 440<br>754 | Indian Balsam                         | flowering plant | SD73I   | 1997 |                                     | Vice-counties | South Lancashire,<br>South Lancashire |         |          | 01/01/<br>1997 |
| 9   | 550<br>018 | Papillose Bog-<br>moss                | moss            | SD73J   | 1995 |                                     |               |                                       |         |          | 1995           |
| 10  | 512<br>509 | Canadian<br>Waterweed                 | flowering plant | SD73J   | 1997 |                                     | Vice-counties | South Lancashire,<br>South Lancashire |         |          | 01/01/<br>1997 |
| 11  | 544<br>991 | Curlew                                | bird            | SD73J   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 12  | 544<br>992 | Starling                              | bird            | SD73J   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 13  | 544<br>997 | Dunnoek                               | bird            | SD73J   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 14  | 435<br>416 | Dunnoek                               | bird            | SD73I   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 15  | 550<br>019 | Papillose Bog-<br>moss                | moss            | SD73P   | 1995 |                                     |               |                                       |         |          | 1995           |
| 16  | 465<br>531 | Oystercatcher                         | bird            | SD73J   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 17  | 463<br>245 | Marsh Tit                             | bird            | SD73I   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 18  | 550<br>017 | Papillose Bog-<br>moss                | moss            | SD73I   | 1995 |                                     |               |                                       |         |          | 1995           |
| 19  | 463<br>246 | Starling                              | bird            | SD73I   | 1999 | Lancs BAP Provisional<br>Long List  |               |                                       |         |          | 1999           |
| 20  | 435        | Willow                                | bird            | SD73I   | 1999 | Lancs BAP Provisional               |               |                                       |         |          | 1999           |



|    |            |                         |                 |       |      |                                  |               |                                    |  |  |            |
|----|------------|-------------------------|-----------------|-------|------|----------------------------------|---------------|------------------------------------|--|--|------------|
|    | 421        | Warbler                 |                 |       |      | Long List                        |               |                                    |  |  |            |
| 21 | 512<br>505 | Bluebell                | flowering plant | SD73I | 1995 | In respect of section 13(2) only | Vice-counties | South Lancashire, Whalley          |  |  | 01/01/1995 |
| 22 | 550<br>863 | Dotted Thyme-moss       | moss            | SD73P | 1999 | Lancs BAP Provisional Long List  | Vice-counties | Pendleton (Whalley)                |  |  | 19/06/1999 |
| 23 | 438<br>117 | House Martin            | bird            | SD73N | 1998 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1998       |
| 24 | 438<br>118 | Starling                | bird            | SD73N | 1998 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1998       |
| 25 | 447<br>546 | Floating Crystalwort    | liverwort       | SD73I | 1997 | Lancs BAP Provisional Long List  | Vice-counties | SD72153771                         |  |  | 01/01/1997 |
| 26 | 484<br>893 | Dotted Thyme-moss       | moss            | SD73I | 1999 | Lancs BAP Provisional Long List  | Vice-counties | Calderstones                       |  |  | 04/04/1999 |
| 27 | 474<br>401 | Common Meadow-rue       | flowering plant | SD73I | 1864 | Lancs BAP Provisional Long List  | Vice-counties | South Lancashire, Whalley          |  |  | 01/01/1864 |
| 28 | 484<br>769 | Japanese Knotweed       | flowering plant | SD73J | 1995 |                                  | Vice-counties | South Lancashire, Roman Road       |  |  | 01/01/1995 |
| 29 | 465<br>532 | Greylag Goose           | bird            | SD73J | 1999 |                                  |               |                                    |  |  | 1999       |
| 30 | 463<br>244 | Cuckoo                  | bird            | SD73I | 1999 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1999       |
| 31 | 544<br>996 | Skylark                 | bird            | SD73J | 1999 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1999       |
| 32 | 516<br>894 | Black Poplar            | flowering plant | SD73I | 1899 | Lancs BAP Provisional Long List  | Vice-counties | South Lancashire, Whalley Nab      |  |  | 01/01/1899 |
| 33 | 463<br>241 | Reed Bunting            | bird            | SD73I | 1999 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1999       |
| 34 | 440<br>747 | Indian Balsam           | flowering plant | SD73N | 1995 |                                  | Vice-counties | South Lancashire, Wiswell          |  |  | 01/01/1995 |
| 35 | 522<br>154 | Song Thrush             | bird            | SD73N | 1998 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1998       |
| 36 | 465<br>538 | Swift                   | bird            | SD73J | 1999 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1999       |
| 37 | 511<br>253 | Sickle-leaved Hook-moss | moss            | SD73N | 1999 | Lancs BAP Provisional Long List  | Vice-counties | Deer Park Wood & Quarry Whalley    |  |  | 18/06/1999 |
| 38 | 529<br>642 | Mossy Saxifrage         | flowering plant | SD73P | 2001 | Lancs BAP Provisional Long List  | Vice-counties | South Lancashire, South Lancashire |  |  | 01/01/2001 |
| 39 | 438<br>122 | Linnet                  | bird            | SD73N | 1998 | Lancs BAP Provisional Long List  |               |                                    |  |  | 1998       |
| 40 | 492<br>412 | Spreading Earth-moss    | moss            | SD73I | 2000 |                                  | Vice-counties | Whalley                            |  |  | 01/08/2000 |
| 41 | 529<br>636 | Japanese Knotweed       | flowering plant | SD73I | 1999 |                                  | Vice-counties | South Lancashire, South Lancashire |  |  | 01/01/1999 |

|    |            |                                |                 |       |      |                                    |               |                                       |  |  |                |
|----|------------|--------------------------------|-----------------|-------|------|------------------------------------|---------------|---------------------------------------|--|--|----------------|
| 42 | 522<br>155 | Curlew                         | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1998           |
| 43 | 463<br>238 | Lapwing                        | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 44 | 463<br>240 | Bullfinch                      | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 45 | 465<br>533 | Common<br>Sandpiper            | bird            | SD73J | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 46 | 456<br>714 | Willow<br>Warbler              | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 47 | 546<br>340 | Lesser<br>Butterfly-<br>orchid | flowering plant | SD73I | 1899 | Lancs BAP Provisional<br>Long List | Vice-counties | South Lancashire,<br>Near Whalley     |  |  | 01/01/<br>1899 |
| 48 | 463<br>243 | House<br>Sparrow               | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 49 | 522<br>156 | Dunnock                        | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1998           |
| 50 | 539<br>206 | Meadow Pipit                   | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 51 | 456<br>712 | Lapwing                        | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 52 | 512<br>508 | Rhododendron                   | flowering plant | SD73I | 1997 |                                    | Vice-counties | South Lancashire,<br>South Lancashire |  |  | 01/01/<br>1997 |
| 53 | 529<br>640 | Indian Balsam                  | flowering plant | SD73P | 2000 |                                    | Vice-counties | South Lancashire,<br>South Lancashire |  |  | 01/01/<br>2000 |
| 54 | 512<br>514 | Rhododendron                   | flowering plant | SD73P | 1997 |                                    | Vice-counties | South Lancashire,<br>South Lancashire |  |  | 01/01/<br>1997 |
| 55 | 522<br>159 | Grey Partridge                 | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1998           |
| 56 | 511<br>252 | Dotted Thyme-<br>moss          | moss            | SD73N | 1999 | Lancs BAP Provisional<br>Long List | Vice-counties | Deer Park Wood &<br>Quarry Whalley    |  |  | 18/06/<br>1999 |
| 57 | 512<br>506 | Pyrenean<br>Scurvygrass        | flowering plant | SD73N | 1995 | Lancs BAP Provisional<br>Long List | Vice-counties | South Lancashire,<br>Wiswell          |  |  | 01/01/<br>1995 |
| 58 | 435<br>417 | Kestrel                        | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 59 | 522<br>157 | Kestrel                        | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1998           |
| 60 | 542<br>250 | Dunnock                        | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 61 | 463<br>242 | Song Thrush                    | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List |               |                                       |  |  | 1999           |
| 62 | 516<br>898 | Indian Balsam                  | flowering plant | SD73I | 1929 |                                    | Vice-counties | South Lancashire,<br>Whalley          |  |  | 01/01/<br>1929 |

|    |            |                         |                 |       |      |                                     |                           |                                       |  |  |                |
|----|------------|-------------------------|-----------------|-------|------|-------------------------------------|---------------------------|---------------------------------------|--|--|----------------|
| 63 | 438<br>123 | Skylark                 | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1998           |
| 64 | 512<br>510 | Indian Balsam           | flowering plant | SD73J | 1997 |                                     | Vice-counties             | South Lancashire,<br>South Lancashire |  |  | 01/01/<br>1997 |
| 65 | 544<br>995 | Swallow                 | bird            | SD73J | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 66 | 522<br>158 | Swift                   | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1998           |
| 67 | 465<br>535 | Willow<br>Warbler       | bird            | SD73J | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 68 | 492<br>411 | Spreading<br>Earth-moss | moss            | SD73I | 2000 |                                     | Vice-counties             | Whalley                               |  |  | 30/08/<br>2000 |
| 69 | 465<br>537 | Song Thrush             | bird            | SD73J | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 70 | 438<br>119 | House<br>Sparrow        | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1998           |
| 71 | 484<br>764 | Bluebell                | flowering plant | SD73P | 1995 | In respect of section<br>13(2) only | Vice-counties             | South Lancashire,<br>Pendleton        |  |  | 01/01/<br>1995 |
| 72 | 542<br>255 | Meadow Pipit            | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 73 | 456<br>713 | Curlew                  | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 74 | 464<br>292 | Willow<br>Warbler       | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 75 | 542<br>254 | House Martin            | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 76 | 544<br>994 | House<br>Sparrow        | bird            | SD73J | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 77 | 542<br>256 | House<br>Sparrow        | bird            | SD73P | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 78 | 440<br>748 | Rhododendron            | flowering plant | SD73N | 1995 |                                     | Vice-counties             | South Lancashire,<br>Wiswell          |  |  | 01/01/<br>1995 |
| 79 | 456<br>711 | Lesser<br>Redpoll       | bird            | SD73P | 1999 |                                     |                           |                                       |  |  | 1999           |
| 80 | 435<br>419 | Skylark                 | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 81 | 435<br>420 | Swallow                 | bird            | SD73I | 1999 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1999           |
| 82 | 522<br>160 | Willow<br>Warbler       | bird            | SD73N | 1998 | Lancs BAP Provisional<br>Long List  |                           |                                       |  |  | 1998           |
| 83 | 508<br>790 | Common<br>Meadow-rue    | flowering plant | SD73I | 1807 | Lancs BAP Provisional<br>Long List  | Ribble Valley<br>District | Whalley                               |  |  | 01/01/<br>1807 |
| 84 | 511        | Cow-horn                | moss            | SD73N | 1999 | Lancs BAP Provisional               | Vice-counties             | Deer Park Wood &                      |  |  | 18/06/         |

|     |            |                        |                       |        |      |                                     |                                                                              |                                         |  |        |                |
|-----|------------|------------------------|-----------------------|--------|------|-------------------------------------|------------------------------------------------------------------------------|-----------------------------------------|--|--------|----------------|
|     | 254        | Bog-moss               |                       |        |      | Long List                           |                                                                              | Quarry Whalley                          |  |        | 1999           |
| 85  | 546<br>341 | White Bryony           | flowering plant       | SD73I  | 1910 | Lancs BAP Provisional<br>Long List  | Vice-counties                                                                | South Lancashire,<br>Whalley            |  |        | 01/07/<br>1910 |
| 86  | 542<br>251 | Swallow                | bird                  | SD73P  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 87  | 542<br>249 | Linnet                 | bird                  | SD73P  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 88  | 544<br>993 | Sand Martin            | bird                  | SD73J  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 89  | 465<br>534 | Meadow Pipit           | bird                  | SD73J  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 90  | 438<br>120 | Swallow                | bird                  | SD73N  | 1998 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1998           |
| 91  | 529<br>641 | Barberry               | flowering plant       | SD73J  | 2001 | Lancs BAP Provisional<br>Long List  | Vice-counties                                                                | South Lancashire,<br>South Lancashire   |  |        | 01/01/<br>2001 |
| 92  | 440<br>189 | Indian Balsam          | flowering plant       | SD73I  | 1929 |                                     | Vice-counties                                                                | South Lancashire,<br>Whalley            |  |        | 01/01/<br>1929 |
| 93  | 542<br>257 | Starling               | bird                  | SD73P  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 94  | 539<br>205 | House Martin           | bird                  | SD73I  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 95  | 435<br>415 | Spotted<br>Flycatcher  | bird                  | SD73I  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 96  | 463<br>239 | Snipe                  | bird                  | SD73I  | 1999 | Lancs BAP Provisional<br>Long List  |                                                                              |                                         |  |        | 1999           |
| 97  | 508<br>788 | Green-winged<br>Orchid | flowering plant       | SD7336 | 1891 | Lancs BAP Provisional<br>Long List  | Vice-counties                                                                | South Lancashire,<br>Whalley            |  | SD7336 | 01/07/<br>1891 |
| 98  | 537<br>674 | Starling               | bird                  | SD7336 | 2012 | Lancs BAP Provisional<br>Long List  | Ribble Valley<br>District                                                    | Whalley                                 |  | SD7336 | 14/02/<br>2012 |
| 99  | 430<br>036 | Brown Hare             | terrestrial<br>mammal | SD7438 | 1977 | Lancs BAP Provisional<br>Long List  |                                                                              | Barrow Lodge                            |  | SD7438 | August<br>1977 |
| 100 | 508<br>799 | White Bryony           | flowering plant       | SD7336 | 1899 | Lancs BAP Provisional<br>Long List  | Vice-counties                                                                | South Lancashire,<br>near Whalley Abbey |  | SD7336 | 01/01/<br>1899 |
| 101 | 444<br>597 | Indian Balsam          | flowering plant       | SD7239 | 2010 |                                     | Ribble Valley<br>District                                                    | Mitton                                  |  | SD7239 | 14/08/<br>2010 |
| 102 | 547<br>249 | European<br>Water Vole | terrestrial<br>mammal | SD7438 | 1977 | Lancs BAP Provisional<br>Long List  |                                                                              | LANCASHIRE,<br>WHALLEY, BARROW<br>LODGE |  | SD7438 | August<br>1977 |
| 103 | 508<br>411 | Bluebell               | flowering plant       | SD7238 | 2004 | In respect of section<br>13(2) only | River Ribble<br>from London<br>Road Bridge,<br>Preston, in West<br>to County |                                         |  | SD7238 | 02/05/<br>2004 |

|     |            |                       |                    |        |      |                                  |                                                                                   |                           |  |        |             |
|-----|------------|-----------------------|--------------------|--------|------|----------------------------------|-----------------------------------------------------------------------------------|---------------------------|--|--------|-------------|
|     |            |                       |                    |        |      |                                  | Boundary in East                                                                  |                           |  |        |             |
| 104 | 502<br>404 | Cornflower            | flowering plant    | SD7438 | 2009 |                                  | Ribble Valley District                                                            | A59                       |  | SD7438 | 11/08/2009  |
| 105 | 552<br>930 | European Water Vole   | terrestrial mammal | SD7438 | 1977 | Lancs BAP Provisional Long List  |                                                                                   | Barrow Lodge              |  | SD7438 | August 1977 |
| 106 | 446<br>485 | Cinnabar              | insect - moth      | SD7338 | 2010 |                                  | Vice-counties                                                                     | Barrow, Clitheroe         |  | SD7338 | 23/05/2010  |
| 107 | 508<br>412 | Indian Balsam         | flowering plant    | SD7238 | 2004 |                                  | River Ribble from London Road Bridge, Preston, in West to County Boundary in East |                           |  | SD7238 | 02/05/2004  |
| 108 | 430<br>037 | European Water Vole   | terrestrial mammal | SD7438 | 1977 | Lancs BAP Provisional Long List  |                                                                                   | Barrow Lodge              |  | SD7438 | August 1977 |
| 109 | 470<br>566 | Green-winged Orchid   | flowering plant    | SD7336 | 1891 | Lancs BAP Provisional Long List  | Vice-counties                                                                     | South Lancashire, Whalley |  | SD7336 | 01/07/1891  |
| 110 | 500<br>025 | Rhododendron          | flowering plant    | SD7336 | 2011 |                                  | Ribble Valley District                                                            | Whalley                   |  | SD7336 | 29/08/2011  |
| 111 | 524<br>904 | House Sparrow         | bird               | SD7338 | 2015 | Lancs BAP Provisional Long List  | Ribble Valley District                                                            | Barrow                    |  | SD7338 | 10/02/2015  |
| 112 | 493<br>435 | Bluebell              | flowering plant    | SD7237 | 2011 | In respect of section 13(2) only | Ribble Valley District                                                            | Calderstones              |  | SD7237 | 02/05/2011  |
| 113 | 425<br>901 | Indian Balsam         | flowering plant    | SD7238 | 2004 |                                  | River Ribble from London Road Bridge, Preston, in West to County Boundary in East |                           |  | SD7238 | 12/09/2004  |
| 114 | 560<br>244 | Butterbur             | insect - moth      | SD7539 | 1949 | Added                            | Vice-counties                                                                     | Pendleton                 |  | SD7539 | 21/08/1949  |
| 115 | 537<br>673 | House Sparrow         | bird               | SD7336 | 2012 | Lancs BAP Provisional Long List  | Ribble Valley District                                                            | Whalley                   |  | SD7336 | 14/02/2012  |
| 116 | 500<br>026 | Northern Yellow-cress | flowering plant    | SD7336 | 2011 | Lancs BAP Provisional Long List  | Ribble Valley District                                                            | Whalley                   |  | SD7336 | 29/08/2011  |
| 117 | 444<br>596 | Grey Heron            | bird               | SD7239 | 2010 | Lancs BAP Provisional Long List  | Ribble Valley District                                                            | Mitton                    |  | SD7239 | 14/08/2010  |
| 118 | 425<br>902 | Indian Balsam         | flowering plant    | SD7239 | 2004 |                                  | River Ribble from London Road Bridge, Preston, in West                            |                           |  | SD7239 | 12/09/2004  |

|     |            |                         |                    |          |      |                                  |                                             |                                                       |  |        |            |
|-----|------------|-------------------------|--------------------|----------|------|----------------------------------|---------------------------------------------|-------------------------------------------------------|--|--------|------------|
|     |            |                         |                    |          |      |                                  | to County Boundary in East                  |                                                       |  |        |            |
| 119 | 470<br>567 | Fragrant Orchid         | flowering plant    | SD7336   | 1891 | Lancs BAP Provisional Long List  | Vice-counties                               | South Lancashire, Whalley                             |  | SD7336 | 01/07/1891 |
| 120 | 498<br>086 | Soprano Pipistrelle     | terrestrial mammal | SD723373 | 2010 | Lancs BAP Provisional Long List  | Ribble Valley District                      | Pendle Drive - Whalley                                |  | SD7237 | 13/06/2010 |
| 121 | 447<br>440 | Lunar Hornet Moth       | insect - moth      | SD738383 | 2006 | Lancs BAP Provisional Long List  | Vice-counties                               | Barrow Lodges                                         |  | SD7338 | 30/06/2006 |
| 122 | 516<br>915 | Indian Balsam           | flowering plant    | SD731394 | 1979 |                                  | Vice-counties                               | South Lancashire, South Lancashire                    |  | SD7339 | 01/01/1979 |
| 123 | 428<br>149 | Bats                    | terrestrial mammal | SD736369 | 2009 | Lancs BAP Provisional Long List  |                                             |                                                       |  | SD7336 | 20/07/2009 |
| 124 | 497<br>997 | Lapwing                 | bird               | SD734381 | 2013 | Lancs BAP Provisional Long List  | Ribble Valley District                      | Fields west of Barrow                                 |  | SD7338 | 2013       |
| 125 | 470<br>563 | Hairy Violet            | flowering plant    | SD726397 | 1963 | Lancs BAP Provisional Long List  | Vice-counties                               | South Lancashire, Ribble bank near Mitton             |  | SD7239 | 18/05/1963 |
| 126 | 499<br>620 | Bluebell                | flowering plant    | SD722376 | 1994 | In respect of section 13(2) only | Calderstones Hospital Woodland/Railway Line | General flora                                         |  | SD7237 | 09/08/1994 |
| 127 | 496<br>278 | Horsetail               | horsetail          | SD730384 | 2005 | Lancs BAP Provisional Long List  | Hard Hill Common                            | Brook House, Main Field, Northern Valley Flush        |  | SD7338 | 30/05/2005 |
| 128 | 465<br>563 | Reed Bunting            | bird               | SD748376 | 2008 | Lancs BAP Provisional Long List  | Ribble Valley District                      | garden at Wiswell                                     |  | SD7437 | March 2008 |
| 129 | 467<br>109 | Indian Balsam           | flowering plant    | SD741381 | 2010 |                                  | Ribble Valley District                      | Barrow Lodge                                          |  | SD7438 | 02/09/2010 |
| 130 | 516<br>914 | Fragrant Orchid         | flowering plant    | SD731394 | 1979 | Lancs BAP Provisional Long List  | Vice-counties                               | South Lancashire, South Lancashire                    |  | SD7339 | 01/01/1979 |
| 131 | 546<br>344 | Black Poplar            | flowering plant    | SD728385 | 1993 | Lancs BAP Provisional Long List  | Vice-counties                               | South Lancashire, Pendleton, flood plain of R Ribble  |  | SD7238 | 27/08/1993 |
| 132 | 484<br>777 | Black Poplar            | flowering plant    | SD729389 | 1994 | Lancs BAP Provisional Long List  | Vice-counties                               | South Lancashire, Little Mitton, flood plain R Ribble |  | SD7238 | 01/06/1994 |
| 133 | 441<br>860 | Horsetail               | horsetail          | SD728384 | 2005 | Lancs BAP Provisional Long List  | Hard Hill Common                            | Northern edge of large field                          |  | SD7238 | 12/05/2005 |
| 134 | 428<br>150 | Pipistrelle Bat species | terrestrial mammal | SD738378 | 2009 | Lancs BAP Provisional Long List  |                                             |                                                       |  | SD7337 | 06/06/2009 |
| 135 | 499<br>622 | Bluebell                | flowering plant    | SD734400 | 1994 | In respect of section 13(2) only | Barrow Clough Wood                          | Western end of wood                                   |  | SD7340 | May 1994   |



|     |            |                         |                                 |                  |      |                                                 |                                                                                                     |                             |  |        |                |
|-----|------------|-------------------------|---------------------------------|------------------|------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------|--|--------|----------------|
| 136 | 499<br>619 | Bluebell                | flowering plant                 | SD722037<br>62   | 1996 | In respect of section<br>13(2) only             | Calderstones<br>Hospital<br>Woodland/Railw<br>ay Line                                               | Compartment 8               |  | SD7237 | July<br>1996   |
| 137 | 512<br>426 | Rhododendron            | flowering plant                 | SD742436<br>49   | 2013 |                                                 | Spring Wood<br>BHS 73NW14                                                                           | Near Triangulation<br>Point |  | SD7436 | 03/09/<br>2013 |
| 138 | 428<br>436 | Bluebell                | flowering plant                 | SD740736<br>49   | 2013 | In respect of section<br>13(2) only             | Spring Wood<br>BHS 73NW14                                                                           | Northwest Corner            |  | SD7436 | 03/09/<br>2013 |
| 139 | 437<br>289 | Common Toad             | amphibian                       | SD742536<br>82   | 1997 | Lancs BAP Provisional<br>Long List              | Lawsonsteads<br>Tank                                                                                | PLN98/97                    |  | SD7436 | 23/07/<br>1997 |
| 140 | 467<br>963 | Great Crested<br>Newt   | amphibian                       | SD743036<br>82   | 1985 | Lancs BAP Provisional<br>Long List              | Lawsonsteads<br>Tank                                                                                | 73 NW 15                    |  | SD7436 | 1985           |
| 141 | 494<br>181 | Palmate Newt            | amphibian                       | SD721537<br>71   | 1997 |                                                 | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 142 | 459<br>823 | Common Frog             | amphibian                       | SD721537<br>71   | 1997 | Lancs BAP Provisional<br>Long List              | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 143 | 459<br>428 | Horsetail               | horsetail                       | SD723439<br>36   | 2004 | Lancs BAP Provisional<br>Long List              | River Ribble<br>from London<br>Road Bridge,<br>Preston, in West<br>to County<br>Boundary in<br>East | downstream of<br>aqueduct   |  | SD7239 | 09/05/<br>2004 |
| 144 | 437<br>290 | Common Frog             | amphibian                       | SD742536<br>82   | 1997 | Lancs BAP Provisional<br>Long List              | Lawsonsteads<br>Tank                                                                                | PLN98/97                    |  | SD7436 | 23/07/<br>1997 |
| 145 | 459<br>824 | Palmate Newt            | amphibian                       | SD721537<br>71   | 1997 |                                                 | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 146 | 494<br>182 | Spiky Bog-<br>moss      | moss                            | SD721537<br>71   | 1997 |                                                 | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 147 | 494<br>183 | Floating<br>Crystalwort | liverwort                       | SD721537<br>71   | 1997 |                                                 | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 148 | 428<br>433 | Bluebell                | flowering plant                 | SD741136<br>41   | 2013 | In respect of section<br>13(2) only             | Spring Wood<br>BHS 73NW14                                                                           | Woodland Interior           |  | SD7436 | 03/09/<br>2013 |
| 149 | 441<br>859 | Bluebell                | flowering plant                 | SD730837<br>97   | 2005 | In respect of section<br>13(2) only             | Ribble Valley<br>District                                                                           | Wet woodland by<br>railway  |  | SD7337 | 12/05/<br>2005 |
| 150 | 428<br>434 | Bog Moss                | moss                            | SD741136<br>41   | 2013 | All species except<br><i>Sphagnum pylasii</i> . | Spring Wood<br>BHS 73NW14                                                                           | Woodland Interior           |  | SD7436 | 03/09/<br>2013 |
| 151 | 493<br>595 | Common Toad             | amphibian                       | SD742536<br>82   | 1997 | Lancs BAP Provisional<br>Long List              | Lawsonsteads<br>Tank                                                                                | PLN98/97                    |  | SD7436 | 23/07/<br>1997 |
| 152 | 494<br>180 | <i>Ilybius guttiger</i> | insect - beetle<br>(Coleoptera) | SD721537<br>71   | 1997 | Lancs BAP Provisional<br>Long List              | Pond 1 at Little<br>Mitton Farm                                                                     | PLN29/97                    |  | SD7237 | 14/06/<br>1997 |
| 153 | 516<br>229 | Common Frog             | amphibian                       | SD732693<br>6617 | 2011 | Lancs BAP Provisional<br>Long List              |                                                                                                     | Whalley                     |  | SD7336 | 21/04/<br>2011 |

|     |            |                       |                                 |                  |      |                                    |                           |                                                  |        |        |                |
|-----|------------|-----------------------|---------------------------------|------------------|------|------------------------------------|---------------------------|--------------------------------------------------|--------|--------|----------------|
| 154 | 457<br>061 | Common Frog           | amphibian                       | SD732553<br>6555 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 155 | 472<br>225 | Indian Balsam         | flowering plant                 | SD740163<br>8098 | 2011 |                                    |                           | 364                                              | Ribble | SD7438 | 15/08/<br>2011 |
| 156 | 437<br>510 | Smooth Newt           | amphibian                       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 24/05/<br>2011 |
| 157 | 437<br>509 | Palmate Newt          | amphibian                       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 24/05/<br>2011 |
| 158 | 462<br>467 | Smooth Newt           | amphibian                       | SD733143<br>6618 | 2011 |                                    | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue           |        | SD7336 | 21/04/<br>2011 |
| 159 | 535<br>223 | Smooth Newt           | amphibian                       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 11/05/<br>2011 |
| 160 | 494<br>044 | Common Frog           | amphibian                       | SD735993<br>6735 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 161 | 515<br>315 | Great Crested<br>Newt | amphibian                       | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley |        | SD7336 | 24/05/<br>2011 |
| 162 | 535<br>221 | Great Crested<br>Newt | amphibian                       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 11/05/<br>2011 |
| 163 | 429<br>317 | Ilybius guttiger      | insect - beetle<br>(Coleoptera) | SD721503<br>7717 | 1997 | Lancs BAP Provisional<br>Long List |                           | 97100029 Little Mitton<br>Farm, Little Mitton    |        | SD7237 | June<br>1997   |
| 164 | 528<br>303 | Great Crested<br>Newt | amphibian                       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 24/05/<br>2011 |
| 165 | 460<br>934 | Common Frog           | amphibian                       | SD734503<br>6504 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 166 | 516<br>232 | Great Crested<br>Newt | amphibian                       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 31/05/<br>2011 |
| 167 | 527<br>278 | Great Crested<br>Newt | amphibian                       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 18/04/<br>2011 |
| 168 | 516<br>230 | Common Frog           | amphibian                       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 31/05/<br>2011 |
| 169 | 515<br>317 | Great Crested<br>Newt | amphibian                       | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley |        | SD7336 | 24/05/<br>2011 |
| 170 | 502<br>517 | Palmate Newt          | amphibian                       | SD733143<br>6618 | 2011 |                                    | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue           |        | SD7336 | 18/04/<br>2011 |
| 171 | 521<br>534 | Smooth Newt           | amphibian                       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 17/05/<br>2011 |
| 172 | 453<br>605 | Great Crested<br>Newt | amphibian                       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 21/04/<br>2011 |
| 173 | 457<br>064 | Palmate Newt          | amphibian                       | SD732553<br>6555 | 2011 |                                    |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 174 | 521        | Common Frog           | amphibian                       | SD733133         | 2011 | Lancs BAP Provisional              |                           | Limefield Avenue,                                |        | SD7336 | 24/05/         |

|     |            |                       |                 |                  |      |                                    |                           |                                                  |        |        |                     |
|-----|------------|-----------------------|-----------------|------------------|------|------------------------------------|---------------------------|--------------------------------------------------|--------|--------|---------------------|
|     | 537        |                       |                 | 6630             |      | Long List                          |                           | Whalley                                          |        |        | 2011                |
| 175 | 460<br>070 | Great Crested<br>Newt | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 11/05/<br>2011      |
| 176 | 527<br>272 | Great Crested<br>Newt | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 17/05/<br>2011      |
| 177 | 457<br>063 | Common Frog           | amphibian       | SD732553<br>6555 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011      |
| 178 | 521<br>533 | Palmate Newt          | amphibian       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 17/05/<br>2011      |
| 179 | 453<br>602 | Common Frog           | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 21/04/<br>2011      |
| 180 | 460<br>919 | Palmate Newt          | amphibian       | SD732153<br>6847 | 2011 |                                    |                           | field pond north of<br>Riddings Lane,<br>Whalley |        | SD7336 | 17/05/<br>2011      |
| 181 | 516<br>227 | Common Frog           | amphibian       | SD732693<br>6617 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011      |
| 182 | 502<br>516 | Great Crested<br>Newt | amphibian       | SD732353<br>6835 | 2011 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Field pond                                       |        | SD7336 | 18/04/<br>2011      |
| 183 | 497<br>996 | Grey Heron            | bird            | SD733373<br>8032 | 2013 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Barrow                                           |        | SD7338 | Octob<br>er<br>2013 |
| 184 | 521<br>538 | Common Frog           | amphibian       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 24/05/<br>2011      |
| 185 | 453<br>607 | Smooth Newt           | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 21/04/<br>2011      |
| 186 | 566<br>396 | Great Crested<br>Newt | amphibian       | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley |        | SD7336 | 24/05/<br>2011      |
| 187 | 453<br>606 | Palmate Newt          | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 21/04/<br>2011      |
| 188 | 527<br>279 | Great Crested<br>Newt | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 18/04/<br>2011      |
| 189 | 446<br>870 | Indian Balsam         | flowering plant | SD721983<br>8996 | 2011 |                                    |                           | 95                                               | Hodder | SD7238 | 18/09/<br>2011      |
| 190 | 497<br>994 | Common Toad           | amphibian       | SD734503<br>8228 | 2013 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | pond on Barrow<br>Allotments                     |        | SD7338 | Octob<br>er<br>2013 |
| 191 | 460<br>385 | Common Frog           | amphibian       | SD735953<br>6798 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011      |
| 192 | 527<br>276 | Common Frog           | amphibian       | SD734093<br>6461 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |        | SD7336 | 21/04/<br>2011      |
| 193 | 460<br>073 | Smooth Newt           | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |        | SD7336 | 11/05/<br>2011      |

|     |            |               |                 |                  |      |                                    |                           |                                                  |                                                                                                                                                                                                                                                                                                     |        |                |
|-----|------------|---------------|-----------------|------------------|------|------------------------------------|---------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
| 194 | 460<br>940 | Smooth Newt   | amphibian       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 18/04/<br>2011 |
| 195 | 457<br>062 | Common Frog   | amphibian       | SD732553<br>6555 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |                                                                                                                                                                                                                                                                                                     | SD7336 | 21/04/<br>2011 |
| 196 | 445<br>644 | Smooth Newt   | amphibian       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 21/04/<br>2011 |
| 197 | 537<br>474 | Indian Balsam | flowering plant | SD739853<br>9100 | 2012 |                                    |                           | Clitheroe Golf course                            |                                                                                                                                                                                                                                                                                                     | SD7339 | 10/06/<br>2012 |
| 198 | 528<br>308 | Palmate Newt  | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 31/05/<br>2011 |
| 199 | 491<br>514 | Rhododendron  | flowering plant | SD747433<br>9969 | 1988 |                                    | Ribble Valley<br>District | Mixed plantation                                 | Target note 5628.<br>Mixed plantation.<br>%0APlantation<br>dominated by Pinus<br>%0ASylvestris, with<br>occasional Fagus<br>%0ASylvatica,<br>Quercus spp. fringing<br>%0ASambucus nigra,<br>Rosa canina, Fraxinus<br>%0Aexcelsior, Acer<br>pseudoplatanus,<br>%0ARhododendron<br>ponticum. Ground f | SD7439 | June<br>1988   |
| 200 | 528<br>310 | Common Frog   | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 11/05/<br>2011 |
| 201 | 460<br>914 | Palmate Newt  | amphibian       | SD732153<br>6847 | 2011 |                                    |                           | field pond north of<br>Riddings Lane,<br>Whalley |                                                                                                                                                                                                                                                                                                     | SD7336 | 31/05/<br>2011 |
| 202 | 457<br>057 | Palmate Newt  | amphibian       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 31/05/<br>2011 |
| 203 | 453<br>601 | Smooth Newt   | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 18/04/<br>2011 |
| 204 | 535<br>222 | Palmate Newt  | amphibian       | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |                                                                                                                                                                                                                                                                                                     | SD7336 | 11/05/<br>2011 |
| 205 | 448<br>754 | Common Frog   | amphibian       | SD732743<br>8483 | 1988 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Pond on Clitheroe Golf<br>Course                 | Target note 5587.<br>Pond, about<br>%0A10x15m, situated<br>on Clitheroe Golf<br>%0ACourse. The<br>surrounding amenity<br>%0Agrassland is<br>frequently mown. The<br>%0Awater was                                                                                                                    | SD7338 | June<br>1988   |

|     |            |                       |                       |                  |      |                                    |                           |                                                     |                                                                                                                                                                                                                                                                                                       |        |                |
|-----|------------|-----------------------|-----------------------|------------------|------|------------------------------------|---------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
|     |            |                       |                       |                  |      |                                    |                           |                                                     | dominated by Potamogeton<br>%0Anatans, with<br>invading stands of<br>%0ASparganium<br>erectum. The water<br>margi                                                                                                                                                                                     |        |                |
| 206 | 527<br>277 | Common Frog           | amphibian             | SD734093<br>6461 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                             |                                                                                                                                                                                                                                                                                                       | SD7336 | 21/04/<br>2011 |
| 207 | 497<br>998 | Brown Hare            | terrestrial<br>mammal | SD734523<br>8155 | 2013 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Edge of Barrow<br>allotments                        |                                                                                                                                                                                                                                                                                                       | SD7338 | 2013           |
| 208 | 494<br>255 | Curlew                | bird                  | SD747223<br>8222 | 1988 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Flush                                               | Target note 5624.<br>Flush. Slightly base-<br>%0Arich flush running<br>down middle of<br>%0Aimproved field<br>dominated by Poa<br>spp., %0ARanunculus<br>repens. Flush on<br>gentle %0Aslope.<br>Species: Apium<br>nodiflorum,<br>%0AVeronica spp.,<br>Holcus lanatus,<br>Festuca %0Arubra,<br>Juncus | SD7438 | June<br>1988   |
| 209 | 433<br>610 | Common Frog           | amphibian             | SD735573<br>6534 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                             |                                                                                                                                                                                                                                                                                                       | SD7336 | 21/04/<br>2011 |
| 210 | 528<br>306 | Great Crested<br>Newt | amphibian             | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                        |                                                                                                                                                                                                                                                                                                       | SD7336 | 31/05/<br>2011 |
| 211 | 535<br>220 | Great Crested<br>Newt | amphibian             | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                        |                                                                                                                                                                                                                                                                                                       | SD7336 | 11/05/<br>2011 |
| 212 | 463<br>276 | Oystercatcher         | bird                  | SD742503<br>6820 | 1997 | Lancs BAP Provisional<br>Long List |                           | 97100098 Whalley<br>East, Ribble Valley<br>District |                                                                                                                                                                                                                                                                                                       | SD7436 | July<br>1997   |
| 213 | 463<br>277 | Oystercatcher         | bird                  | SD721503<br>7717 | 1997 | Lancs BAP Provisional<br>Long List |                           | 97100029 Little Mitton<br>Farm, Little Mitton       |                                                                                                                                                                                                                                                                                                       | SD7237 | June<br>1997   |
| 214 | 540<br>261 | Great Crested<br>Newt | amphibian             | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley    |                                                                                                                                                                                                                                                                                                       | SD7336 | 31/05/<br>2011 |
| 215 | 494<br>045 | Palmate Newt          | amphibian             | SD735993<br>6735 | 2011 |                                    |                           | Whalley                                             |                                                                                                                                                                                                                                                                                                       | SD7336 | 21/04/<br>2011 |
| 216 | 516<br>231 | Great Crested<br>Newt | amphibian             | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                        |                                                                                                                                                                                                                                                                                                       | SD7336 | 31/05/<br>2011 |

|     |            |                       |                                   |                  |      |                                    |                           |                                                         |                                                                                                                                                                                                                                                                                                        |        |                |
|-----|------------|-----------------------|-----------------------------------|------------------|------|------------------------------------|---------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
| 217 | 527<br>274 | Palmate Newt          | amphibian                         | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 17/05/<br>2011 |
| 218 | 460<br>935 | Common Frog           | amphibian                         | SD734503<br>6504 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                                 |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |
| 219 | 445<br>646 | Common Frog           | amphibian                         | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 11/05/<br>2011 |
| 220 | 460<br>075 | Common Frog           | amphibian                         | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 17/05/<br>2011 |
| 221 | 566<br>399 | Great Crested<br>Newt | amphibian                         | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley        |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |
| 222 | 502<br>518 | Great Crested<br>Newt | amphibian                         | SD733143<br>6618 | 2011 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue                  |                                                                                                                                                                                                                                                                                                        | SD7336 | 18/04/<br>2011 |
| 223 | 460<br>069 | Common Frog           | amphibian                         | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 11/05/<br>2011 |
| 224 | 527<br>273 | Great Crested<br>Newt | amphibian                         | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 17/05/<br>2011 |
| 225 | 445<br>642 | Great Crested<br>Newt | amphibian                         | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |
| 226 | 494<br>256 | Curlew                | bird                              | SD748643<br>6925 | 1988 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Semi-improved acid<br>grassland and marshy<br>grassland | Target note 5615.<br>Semi-improved acid<br>%0Agrassland with<br>patches of marshy<br>%0Agrassland in<br>mosaic. Species<br>present: %0AJuncus<br>effusus dominant:<br>also Cirsium<br>%0Apalustris, Lychnis<br>flos-cuculi, Carex<br>%0Aasp.,<br>Deschampsia<br>cespitosa, Festuca<br>%0Aarubra, Polyt | SD7436 | June<br>1988   |
| 227 | 435<br>235 | Bullhead              | bony fish<br>(Actinopterygii<br>) | SD721983<br>8996 | 2011 | Not in Ann IV or V.                |                           | Hodder                                                  |                                                                                                                                                                                                                                                                                                        | SD7238 | 18/09/<br>2011 |
| 228 | 453<br>603 | Common Frog           | amphibian                         | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |
| 229 | 521<br>530 | Palmate Newt          | amphibian                         | SD732553<br>6555 | 2011 |                                    |                           | Whalley                                                 |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |
| 230 | 462<br>464 | Palmate Newt          | amphibian                         | SD733143<br>6618 | 2011 |                                    | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue                  |                                                                                                                                                                                                                                                                                                        | SD7336 | 21/04/<br>2011 |

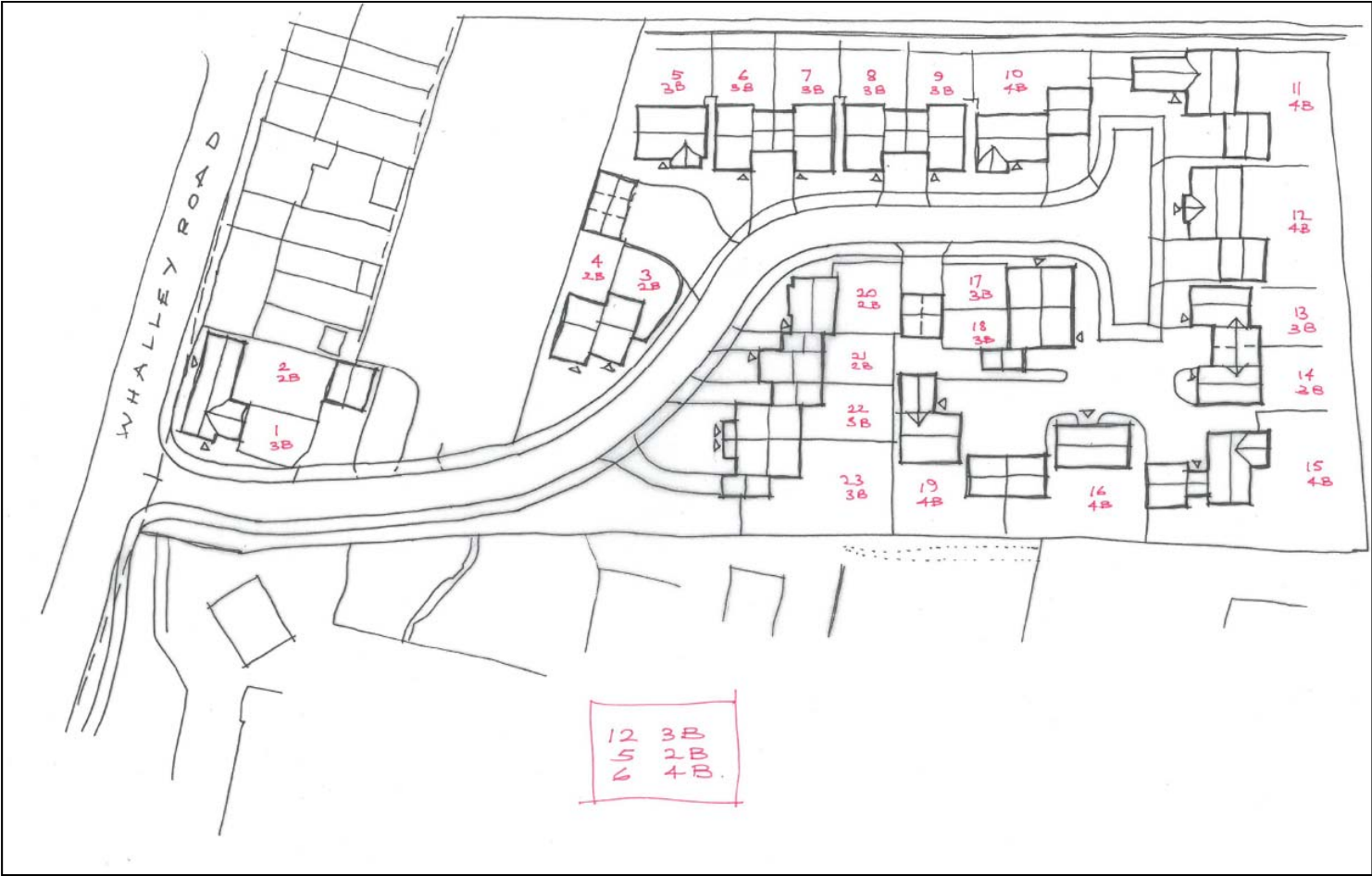


|     |            |                       |                 |                  |      |                                    |                           |                                                         |                                                                                                                                                                                                                                                                                                         |        |                |
|-----|------------|-----------------------|-----------------|------------------|------|------------------------------------|---------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
| 231 | 462<br>466 | Common Frog           | amphibian       | SD733143<br>6618 | 2011 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue                  |                                                                                                                                                                                                                                                                                                         | SD7336 | 21/04/<br>2011 |
| 232 | 460<br>333 | Palmate Newt          | amphibian       | SD721663<br>7713 | 2011 |                                    |                           | Turkey Lane pond,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7237 | 18/04/<br>2011 |
| 233 | 521<br>531 | Common Frog           | amphibian       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7336 | 17/05/<br>2011 |
| 234 | 460<br>913 | Great Crested<br>Newt | amphibian       | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley        |                                                                                                                                                                                                                                                                                                         | SD7336 | 31/05/<br>2011 |
| 235 | 493<br>972 | Great Crested<br>Newt | amphibian       | SD734233<br>6951 | 2009 |                                    | Ribble Valley<br>District | Graythwaite                                             |                                                                                                                                                                                                                                                                                                         | SD7336 | 26/06/<br>2009 |
| 236 | 462<br>463 | Smooth Newt           | amphibian       | SD733143<br>6618 | 2011 |                                    | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue                  |                                                                                                                                                                                                                                                                                                         | SD7336 | 18/04/<br>2011 |
| 237 | 528<br>304 | Palmate Newt          | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7336 | 24/05/<br>2011 |
| 238 | 439<br>158 | Indian Balsam         | flowering plant | SD730253<br>9492 | 2012 |                                    |                           | Ditches feeding into<br>Ribble                          |                                                                                                                                                                                                                                                                                                         | SD7339 | 18/05/<br>2012 |
| 239 | 460<br>071 | Great Crested<br>Newt | amphibian       | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7336 | 11/05/<br>2011 |
| 240 | 528<br>309 | Smooth Newt           | amphibian       | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7336 | 31/05/<br>2011 |
| 241 | 437<br>507 | Great Crested<br>Newt | amphibian       | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                            |                                                                                                                                                                                                                                                                                                         | SD7336 | 24/05/<br>2011 |
| 242 | 462<br>462 | Common Frog           | amphibian       | SD733143<br>6618 | 2011 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue                  |                                                                                                                                                                                                                                                                                                         | SD7336 | 18/04/<br>2011 |
| 243 | 472<br>219 | Indian Balsam         | flowering plant | SD731723<br>8136 | 2011 |                                    |                           | 380                                                     | Ribble                                                                                                                                                                                                                                                                                                  | SD7338 | 17/08/<br>2011 |
| 244 | 494<br>257 | Lapwing               | bird            | SD748643<br>6925 | 1988 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Semi-improved acid<br>grassland and marshy<br>grassland | Target note 5615.<br>Semi-improved acid<br>%0Agrassland with<br>patches of marshy<br>%0Agrassland in<br>mosaic. Species<br>present: %0AJuncus<br>effusus dominant:<br>also Cirsium<br>%0Apalustris, Lychnis<br>flos-cuculi, Carex<br>%0A spp.,<br>Deschampsia<br>cespitosa, Festuca<br>%0A rubra, Polyt | SD7436 | June<br>1988   |
| 245 | 453<br>105 | Great Crested<br>Newt | amphibian       | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,                   |                                                                                                                                                                                                                                                                                                         | SD7336 | 18/04/<br>2011 |

|     |            |                       |                               |                  |      |                                    |                           |                                                  |  |        |                 |
|-----|------------|-----------------------|-------------------------------|------------------|------|------------------------------------|---------------------------|--------------------------------------------------|--|--------|-----------------|
|     |            |                       |                               |                  |      |                                    |                           | Whalley                                          |  |        |                 |
| 246 | 497<br>993 | Grey Heron            | bird                          | SD734503<br>8228 | 2013 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | pond on Barrow<br>Allotments                     |  | SD7338 | October<br>2013 |
| 247 | 528<br>305 | Common Frog           | amphibian                     | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 31/05/<br>2011  |
| 248 | 527<br>280 | Palmate Newt          | amphibian                     | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 18/04/<br>2011  |
| 249 | 437<br>505 | Common Frog           | amphibian                     | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 24/05/<br>2011  |
| 250 | 445<br>643 | Palmate Newt          | amphibian                     | SD733133<br>6630 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 21/04/<br>2011  |
| 251 | 494<br>043 | Common Frog           | amphibian                     | SD735993<br>6735 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |  | SD7336 | 21/04/<br>2011  |
| 252 | 516<br>228 | Common Frog           | amphibian                     | SD732693<br>6617 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |  | SD7336 | 21/04/<br>2011  |
| 253 | 566<br>397 | Palmate Newt          | amphibian                     | SD732153<br>6847 | 2011 |                                    |                           | field pond north of<br>Riddings Lane,<br>Whalley |  | SD7336 | 24/05/<br>2011  |
| 254 | 462<br>465 | Great Crested<br>Newt | amphibian                     | SD733143<br>6618 | 2011 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | Garden ponds at 27<br>Limefield Avenue           |  | SD7336 | 21/04/<br>2011  |
| 255 | 528<br>307 | Great Crested<br>Newt | amphibian                     | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 31/05/<br>2011  |
| 256 | 521<br>532 | Great Crested<br>Newt | amphibian                     | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 17/05/<br>2011  |
| 257 | 515<br>316 | Great Crested<br>Newt | amphibian                     | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |                           | field pond north of<br>Riddings Lane,<br>Whalley |  | SD7336 | 24/05/<br>2011  |
| 258 | 437<br>508 | Great Crested<br>Newt | amphibian                     | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 24/05/<br>2011  |
| 259 | 438<br>560 | Bullhead              | bony fish<br>(Actinopterygii) | SD724743<br>8254 | 2011 | Not in Ann IV or V.                |                           | Ribble                                           |  | SD7238 | 17/08/<br>2011  |
| 260 | 460<br>072 | Palmate Newt          | amphibian                     | SD732953<br>6642 | 2011 |                                    |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 11/05/<br>2011  |
| 261 | 433<br>611 | Common Frog           | amphibian                     | SD735573<br>6534 | 2011 | Lancs BAP Provisional<br>Long List |                           | Whalley                                          |  | SD7336 | 21/04/<br>2011  |
| 262 | 460<br>938 | Common Frog           | amphibian                     | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |                           | Limefield Avenue,<br>Whalley                     |  | SD7336 | 18/04/<br>2011  |
| 263 | 497<br>995 | Common Frog           | amphibian                     | SD734503<br>8228 | 2013 | Lancs BAP Provisional<br>Long List | Ribble Valley<br>District | pond on Barrow<br>Allotments                     |  | SD7338 | October<br>2013 |
| 264 | 437        | Great Crested         | amphibian                     | SD732953         | 2011 | Lancs BAP Provisional              |                           | Limefield Avenue,                                |  | SD7336 | 24/05/          |

|     |            |                         |                                   |                  |      |                                    |  |                                                  |        |        |                |
|-----|------------|-------------------------|-----------------------------------|------------------|------|------------------------------------|--|--------------------------------------------------|--------|--------|----------------|
|     | 506        | Newt                    |                                   | 6642             |      | Long List                          |  | Whalley                                          |        |        | 2011           |
| 265 | 453<br>106 | Great Crested<br>Newt   | amphibian                         | SD732153<br>6847 | 2011 | Lancs BAP Provisional<br>Long List |  | field pond north of<br>Riddings Lane,<br>Whalley |        | SD7336 | 18/04/<br>2011 |
| 266 | 446<br>872 | Indian Balsam           | flowering plant                   | SD724743<br>8254 | 2011 |                                    |  | 298                                              | Ribble | SD7238 | 17/08/<br>2011 |
| 267 | 527<br>275 | Smooth Newt             | amphibian                         | SD732953<br>6642 | 2011 |                                    |  | Limefield Avenue,<br>Whalley                     |        | SD7336 | 17/05/<br>2011 |
| 268 | 460<br>936 | Common Frog             | amphibian                         | SD734503<br>6504 | 2011 | Lancs BAP Provisional<br>Long List |  | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 269 | 435<br>234 | European Eel            | bony fish<br>(Actinopterygii<br>) | SD721983<br>8996 | 2011 |                                    |  | Hodder                                           |        | SD7238 | 18/09/<br>2011 |
| 270 | 453<br>604 | Great Crested<br>Newt   | amphibian                         | SD732953<br>6642 | 2011 | Lancs BAP Provisional<br>Long List |  | Limefield Avenue,<br>Whalley                     |        | SD7336 | 21/04/<br>2011 |
| 271 | 490<br>517 | European Eel            | bony fish<br>(Actinopterygii<br>) | SD740163<br>8098 | 2011 |                                    |  | Ribble                                           |        | SD7438 | 15/08/<br>2011 |
| 272 | 460<br>939 | Great Crested<br>Newt   | amphibian                         | SD733133<br>6630 | 2011 | Lancs BAP Provisional<br>Long List |  | Limefield Avenue,<br>Whalley                     |        | SD7336 | 18/04/<br>2011 |
| 273 | 521<br>536 | Palmate Newt            | amphibian                         | SD732573<br>6552 | 2011 |                                    |  | Whalley                                          |        | SD7336 | 21/04/<br>2011 |
| 274 | 429<br>295 | Floating<br>Crystalwort | liverwort                         | SD721503<br>7717 | 1997 |                                    |  | Little Mitton Farm,<br>Little Mitton             |        | SD7237 | June<br>1997   |

Appendix XII. DEVELOPMENT PLAN.



## Toolbox Talk : Bats

Whitcher Wildlife Ltd

Ecological Consultants

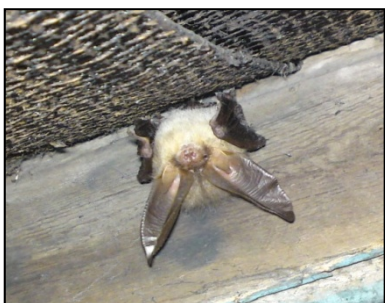


Over 15 species of bat have been recorded in Britain.

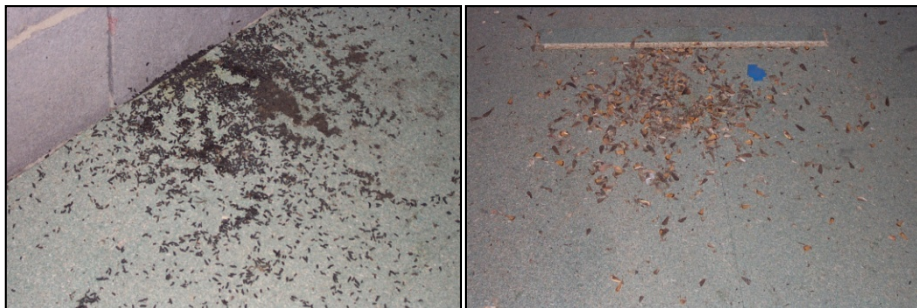
### Identification.

Some species can be extremely difficult to identify in the hand and even more so in flight.

Species such as the Brown Long Eared bat pictured above can be more easily identified in the hand. Whereas, the Common Pipistrelle and Soprano Pipistrelle are more difficult to identify.



Bats are more easily identified by field signs such as droppings or feeding remains.



### Habitat.

Bats are highly specialised creatures and require a relatively narrow range of suitable conditions in order to sustain a viable population. Bats require an abundant supply of flying insect food in places where they can easily be caught and they need safe and reliable roosting sites, particularly during breeding and hibernation.

Bats are heavily dependent on buildings and trees for their roost sites and therefore extremely susceptible to disturbance from human activities. Development schemes can also isolate bat populations and sever roost sites from favoured feeding areas by removing hedgerows or other features used as commuting routes.

Bats are susceptible to disturbance and have been known to abandon roost sites after instances of disturbance. The effects of disturbance are more pronounced at different times of year. Serious disturbance during breeding can result in the breeding females being killed or the abandonment and subsequent starvation of dependant young. Repeated disturbance during winter hibernation can result in the death of adult animals from starvation.

The level of protection afforded to bats in the UK and European legislation reflects the fact that it is now generally accepted that bats have declined substantially, maybe by as much as 60%, over recent years. Most species are declining and vulnerable with all species being protected.

As their diet consists solely of insects, bats hibernate during the winter when their food source is at its most scarce. They will spend the winter in hollow trees, caves, mines and occasionally the roofs of buildings.

Certain species, particularly Pipistrelle, can quickly adapt to manmade structures and will readily use these to roost and to rear their young.

### Legislation.

Bats and their roosts are fully protected at all times (whether the bats are currently present or not). This protection comes from the Wildlife & Countryside Act 1981 (updated by the Countryside Rights of Way Act 2000) and the Habitats Regulations 1994. Under this legislation it is an offence to intentionally or recklessly kill, injure, capture or disturb bats or to damage, destroy or obstruct access to any place used by bats for shelter or protection.

Under the Habitats Regulations, where bats may be affected by development proposals, a licence is required from Natural England. Natural England's published guidelines on the licence procedure indicate that if, on the basis of survey information and specialist knowledge of the species concerned, the proposed activity is reasonably likely to result in an offence then a licence is required. If, on the other hand the proposed activity is reasonably unlikely to result in an offence, then a licence is not required.

**If bats or bat field signs are identified during works, stop all works and contact Whitcher Wildlife Ltd directly on 01226 753271 or at [info@whitcher-wildlife.co.uk](mailto:info@whitcher-wildlife.co.uk)**



## Toolbox Talk : Reptiles

Whitcher Wildlife Ltd

Ecological Consultants



### Identification: Grass Snakes.

The grass snake can be up to 120cm long. It is generally dark green in colour but may occasionally appear grey with vertical black bars and spots that run along its sides. There is usually a yellow marking around the neck.



### Other Reptiles.

In addition to the reptiles outlined on this document there are also two other reptile species in Great Britain, the smooth snakes and the sand lizard. These reptiles are a lot less common than the four species covered with the smooth snake being predominantly found on heathland in southern England and the sand lizard found throughout Great Britain in coastal dune areas.

These species are also afforded a higher level of protection because they are European Protected Species.

### Identification: Adders.

The adder is the only native species that is venomous but it is rarely harmful to humans. Adult adders are generally up to 66cm long. Back ground colouration is a light shade of grey or brown with a back zig-zag marking along the length of the back. As with all reptiles, colouration varies and becomes duller as sloughing (skin shedding) approaches.



### Habitat.

Maintaining the right body temperature is vital to reptiles' survival. In the morning they find a warm basking site to heat up their bodies and then later they may move back into the shade so as not to overheat. Hence, reptiles require a habitat that provides a range of suitable refugia for shelter such as dense vegetation, rubble or log piles, or crevices and open areas for basking such as bare ground, rocks or railway ballast shoulders. During hot summers reptiles may be found in damper, cooler sites. Reptiles hibernate, spending the winter in burrows or under logs protected from the cold and predators.

### Identification: Slow Worms.

Slow worms grow to around 45cm in length. The males and females display a marked difference in colour when fully grown. In general the species displays colouring that varies from light brown, dark brown, grey, bronze or brick red with the females often displaying a dark vertebral stripe and both males and females displaying occasional markings on the flanks.



### Identification: Common Lizards.

Common lizards grow to around 16cm. They are grey brown to dark brown, often with a darker streak that may run the entire length of the spine. A continuous dark band bordered by light yellow or white spots is often seen on either side of the body. The underside of the males is egg yolk yellow to orange spotted with black. Females are yellowish grey.



When disturbed in their natural habitat reptiles will usually move away quickly.

### Legislation.

Reptiles are protected under Schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

**If reptiles are identified during works, stop all works and contact Whitcher Wildlife Ltd directly on 01226 753271 or at [info@whitcher-wildlife.co.uk](mailto:info@whitcher-wildlife.co.uk)**