## Welsh Government

# **M4 Corridor around Newport**

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# Welsh Government M4 Corridor Around Newport Bat Survey Report 2014

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#### Appendix A

Transect Dates and Weather Conditions

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#### Appendix C

**Bat Activity Indexes** 

#### Appendix D

Graphs of Bat Activity Indexes

## 1 Introduction

Ove Arup & Partners Ltd has been commissioned by Welsh Government to undertaken baseline ecological surveys to inform proposals for the M4 Corridor around Newport. This report provides information to inform the development of the scheme, including a Design Manual for Road and Bridges (DMRB) Stage 3 environmental assessment (HA, 1993).

This report identifies potential for trees and buildings within the study to support bat roosts, and establishes the levels of bat activity within the study area, identifying risk species and areas where further surveys and/or mitigation measures may be required.

# 1.1 Background to the Project

The M4 in South Wales forms part of the Trans-European Transport Network (TEN-T), which provides connections throughout Europe by road, rail, sea and air. The M4 plays a key strategic role in connecting South Wales with the rest of Europe, providing links to Ireland via the ports in South West Wales and England and mainland Europe to the east. It is a key east-west route being the main gateway into South Wales and also one of the most heavily used roads in Wales.

Providing a facility for transporting goods, linking people to jobs and employment sites as well as serving the Welsh tourism industry, the M4 is critical to the Welsh economy. Cardiff, Newport and Swansea have ambitious regeneration strategies and Monmouthshire County Council is developing areas around Junction 23A of the M4. Rhondda Cynon Taff has important gateways onto the motorway at Junctions 32 and 34. Bridgend is served by M4 Junctions 35 and 36. Neath Port Talbot straddles the motorway and gets important access from Junctions 38 to 43. Congestion on the M4 causing unreliable journey times and reduced service levels will therefore hinder economic development in South Wales.

The M4 between Junctions 28 and 24 was originally designed as the 'Newport Bypass' with further design amendments in the 1960s to include the first motorway tunnels to be built in the UK.

The M4 Motorway between Magor and Castleton does not meet modern motorway design standards. This section of the M4 has many lane drops and lane gains, resulting in some two-lane sections, an intermittent hard shoulder and frequent junctions.

It is often congested, especially during weekday peak periods resulting in slow and unreliable journey times and stop-start conditions with incidents frequently causing delays.

This is why problems with congestion and unreliable journey times have been a fact of life on the M4 around Newport for many years. The motorway and surrounding highway network does not cope with sudden changes in demand or operation, for example as a result of accidents or extreme weather events. These issues are worse at times of peak travel (rush hour) and have worsened as the number of users on the network has increased.

Since 1991, much assessment and consultation has been undertaken to develop a preferred solution to the problems on the motorway around Newport. A detailed history is documented in the M4 Corridor around Newport WelTAG (WG, 2008) Stage 1 (Strategy Level) Appraisal Report (Ove Arup & Partners Ltd, 2013). This included the adoption of a revised TR111 route<sup>1</sup> in April 2006, which remains protected for planning purposes. The alignment of this proposed new section of motorway has been developed following extensive consultation, investigation and analysis. The aim was to minimise the impact on the environment, whilst fully meeting motorway design and safety standards. The main element of the Plan (the Black Route) largely follows this TR111 alignment.

The survey design is informed by the Route Options defined in the Stage 2 DRMB Environmental Report (Ove Arup & Partners Ltd, 2014).

## 1.2 Survey Objectives

The surveys objectives were:

- To assess the potential of trees and buildings within the study area to support bat roosts;
- To record bat activity levels and make observations on bat behaviour on ten walked transects, sampling habitats within the study area;
- To record and identify levels of bat activity at twenty locations spaced along the proposed route of the new motorway;
- To identify the range of species present and their relative abundance in terms of activity levels at these locations.

## 1.3 Study Area

The study area for the purpose of this survey was based on a 500m buffer around the physical extents of the previous scheme studied in 2007/8 including both the route alignment, potential junctions and water treatment areas. The Preferred Route announced by Welsh Government in July 2014 is located within the centre of this corridor as shown on Figure 1.

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<sup>&</sup>lt;sup>1</sup> Once a preferred route is announced, Welsh Government serves a statutory notice (TR111) on the local planning authorities requiring the line to be protected from development. This is enacted under Article 19 of The Town & Country Planning (Development Management Procedure) (Wales) Order 2012.



Figure 1 The 2014 Preferred Route within the study area shown in red.

# 1.4 Legislation

All bats are protected in Britain under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2010 (as amended) (known as the Habitats Regulations) as European Protected Species. Under the Habitats Regulations it is an offence to deliberately capture, injure or kill a bat; or to deliberately disturb a bat in such a way as to significantly affect its ability to breed and rear young or its local distribution or to damage or destroy a breeding or resting place used by a bat. Under the Wildlife and Countryside Act it is an offence to intentionally kill, injure or take any wild bat; or to intentionally or recklessly disturb a bat while it is in place used for shelter or protection or to obstruct access to such a place.

# 2 Methodology

## 2.1 Desk Study

Welsh Government

A full desk study is included within the Extended Phase 1 Habitat Survey Report, which includes a review of the findings of previous surveys undertaken in 2007/8 for the New M4 Project.

#### 2.2 Roost Potential Assessments

During the course of the Extended Phase 1 Habitat Surveys trees and buildings within the study area were assessed for their potential to support bat roosts in line with the guidance set out in the Good Practice Guidelines (BCT, 2012).

Trees within the study area were assessed for the presence of natural holes, woodpecker holes, cracks and splits, loose bark, cavities, and artificial bat boxes. The presence of such features were considered in determining the potential for bat roosts to be present and assigning trees using the criteria in Table 1 below.

Table 1 Categorisation of the potential for bat roosts within trees

Category	Potential	Features
1*	High	Trees with multiple, highly suitable features capable of supporting larger roosts
1	Medium	Trees with definite bat potential, supporting fewer suitable features than High potential trees, or trees with potential for use by single bats
2	Low	Trees with no obvious potential, although the tree is of a size and age that suitable features may be present, or trees which have limited potential to support bats
3	None	Small, young trees, or trees with no suitable features to support bat roosts

Buildings were also categorised as High, Medium or Low potential for bats depending on the construction of the building and the presence of potential bat access points ascertained by external inspections if necessary using binoculars and torches.

During the surveys the following information in

Table 2 on trees and buildings was also recorded using forms on tablet devices along with photographs.

Table 2 Information capture during preliminary roost assessments

Information Recorded for Buildings	Information Recorded for Trees
GPS location	GPS location
Survey date	Survey date
Building type	Species
Age	Height
Height of eaves	Diameter at breast height
Pitch height at gable ends	Suitable features
Roof aspect	Signs of bat use
Roof complexity	
Roof covering	
Suitable features	
Signs of bat use	

# 2.3 Walked Activity Transect Surveys

Walked activity transects were also undertaken in line with best practice (BCT, 2012). Two surveyors from Wildwood Ecology undertook each transect using Anabat SD1 or SD2 bat detectors connected to GPS receivers. Ten transects were used to sample habitats throughout the study area, although were possible transects concentrated on the central part of the study area as this represented the area most likely to be affected by any scheme taken forwards.

Transects were walked from approximately the time of sunset or shortly prior to sunset for approximately 1.5 to 2 hours. The transects were repeated once per month between April and October in line with Table 7.2 of the Bat Conservation Trust guidance (BCT, 2012). This corresponds to a requirements for a major infrastructure project within an area of medium habitat quality. Although it is acknowledge that some areas are likely to be of higher quality such as woodlands near Castleton, other areas such as the more open areas of the levels and sparsely vegetated areas within the Tata Llanwern Steelworks are likely to be of lower quality. The medium level was therefore used as to reflect the quality of habitats within the study area as a whole. The approach to survey effort and indicative transect routes were agreed with Natural Resources Wales prior to the commencement of the surveys.

During transects all bats were recorded and their location recorded using the GPS modules. Notes were also taken by the surveyors. The dates of the transect surveys and weather conditions during the surveys are shown in Appendix A. Species identification was undertaken following the transects using a combination of different software packages designed for analysing and identifying bat calls, primarily Analook software.

The transect routes used are shown on Drawing numbers M4-OA-01-00-DR-Z-BA-0022, 0023 and 0109. The routes and the habitats represented along the transects are described in Table 3 below.

Table 3 Descriptions of Transect Routes

Transect No.	Route Description	Habitats Represented
1	From Pound Hill over bridge down to the A48, along the A48 to the Church Lane footbridge. Through Berryhill Fruit Farm back to the A48, along the A48 to the access to Spring Court and then back to Pound Hill.	Plantation broadleaved woodland, tree lined dual carriageway, hay meadows, orchards, and ancient broad-leaved woodland.
2	From Church Lane, down the section of redundant dual carriageway to Percoed Reen. Along Percoed Reen to the Dyffryn Estate, returning and then down Green Lane to the field to the north of the railway. Returns back to Church Lane along the footpath through the plantation adjacent to the redundant road.	Woodland edge, semi-improved grassland, reens, improved pasture with mature hedges, arable and plantation broad leaved woodland.
3	Starting at the railway bridge on Green lane, along Green Lane making a circuit of a field next to the remnants of Fox Covert and a further field to the south. The route then goes across various fields to meet Lighthouse Road and finishing near Fair Orchard Farm.	Tree lined lane, woodland edge, semi-improved and improved pasture with hedges and reens.
4	Starting on the Lighthouse Road near Fair Orchard Farm the route goes through fields adjacent to the dirt racing track to Old Dairy Reen. Detours are made along this reen and back an in the next field to the east before joining Hoel Pant-y-Cwcw. The route goes along this lane, making a detour in to a field, before joining the sea wall. The route then goes along the sea wall before returning across fields to the starting point.	Semi-improved grazed pasture with reens including grazed rush pastures, and saltmarsh. Mixture of sheep and cattle grazing.
5	The route runs along the footpath on the eastern side of the River Usk, joining Corporation Road and then the National Cycle Route to Pye Corner, finishing in a field off Nash Road.	Saltmarsh, scrub, scrub woodland, rough grassland and pasture.
6	This transect runs from Pye Corner to Tatton Farm on the western side of the Steelworks. It includes the old laboratory site at Pye Corner along with grazed pastures.	Secondary woodland, scrub and grazed wet grasslands with hedgerows and reens.
7	This transect follows various tracks within the Green Moor area on the eastern end of the Steelworks.	Reedbeds, settlement ponds, scrub and grazed pasture with rends and hedgerows.
8	This transect covered a circular route including North Row, Rush Wall Track and BAreland Street around the Gwent Europark out to Barecroft Common.	Tree lined roads, improved grasslands.
9	This is also a circular transect including sections of A4810 Steelworks Access Road, the B4245, Green Moor Lane and a residential area within Magor.	Tree lined roads, grazed pastures and urban areas.

Transect No.	Route Description	Habitats Represented
10	This transect starts on the St Brides stream in MAgor crossing the existing M4 via the farm underpass/footpath culvert. The route then follows footpaths to Upper Grange Farm, and then via lanes to Knolbury and Bencroft Lane back to the existing M4 and the B4245.	Tree and hedge lined roads, stream corridor and improved grasslands.

## 2.4 Static Bat Activity Monitoring

The Static Detector Activity Surveys were undertaken in accordance with the Good Practice Survey Guidelines published by the Bat Conservation Trust (BCT, 2012) and endorsed by Natural England and the Countryside Council for Wales<sup>2</sup>.

Two locations were selected approximately located on the Black Route on each of the ten walked transects, thus giving a total of twenty locations which were numbered from west to east. The survey effort was determined in accordance with Table 7.2 of BCT (2012) as described above. The locations used for the static monitoring were agreed with NRW in April 2014.

The locations were selected using professional judgement to provide a representative sample of the different habitats present along the length of the Black Route and to provide information on areas of known bat activity identified in previous surveys undertaken in 2008. A review of the information from these previous surveys is provided in Section 3.

#### 2.4.1 Data Collection

Wildlife Acoustic Song Meter 2 Ultrasonic Bat Detectors (SM2+ BAT) were used to record bat activity for five consecutive nights each month from April to October in accordance with the requirements for surveys for Major Infrastructure Projects. A total of ten detectors were used to cover the twenty locations with between four and ten detectors being run simultaneously.

The detectors were set up with the settings shown in Table 4 below to record between 18:00 and 07:00 each night.

Table 4 SM2+ BAT Settings used during data collection

Parameter	Setting
2.5V Microphone Bias	On
Low noise filter	1kHz
Microphone pre-amp gain	48dB
Sample rate	354800
Monitoring schedule	Daily from 18:00
Monitoring duration	13hrs

<sup>&</sup>lt;sup>2</sup> CCW is now part of Natural Resources Wales following an amalgamation with the Environment Agency Wales and the Forestry Commission Wales in 2013,

The microphones used with the detectors during the course of the surveys were regularly check and calibrated using a Wildlife Acoustics Calibration Unit to ensure that they were functioning properly. Microphones that were found not to be shown a significant response to the output of the calibration unit were replaced.

A description of each location and the placement of the detector and microphone are provided in

Table 5 below.

Table 5 Descriptions of the Locations used for Data Collection

<b>Location No.</b>	Habitat Description	<b>Detector Placement</b>
1 – Pound Hill	Areas of plantation woodland on embankment slope of the southern end of the Pound Hill bridge over the existing M4. Adjacent field comprising area of rough grazing and scrub.	Detector and microphone attached to a fence post on the western side of the minor road at the base of the embankment.
2 – Berry Hill Farm	Area of semi-natural broad- leaved woodland with a small stream. Adjacent areas comprise orchards and improved fields, mixed plantation woodlands and a golf course.	Detector and microphone placed on a tree approximately 1.6m above ground level adjacent to the stream.
3 – Road to Nowhere	Area of plantation woodland planted as screening for the dual carriageway constructed on the western side of the Quinn Radiators site. A glade has been created in the woodland under power cables.	The microphone was placed approximately 3 – 4m up a tree and connected to the detector with a cable. The detector was secured to the base of the tree.
4 – Percoed Reen	This location comprises a mixture of grass land and patches of scrub along with a network of reens (drainage ditches).	The microphone was located hanging over Percoed Reen within a patch of scrub. The detector was secured to one of the trees and connected using a cable.
5 – Fox Covert	This area contained a small woodland block adjacent to the mainline railway along with areas of grazed pasture and reens.	The detector and microphone were hung from a tree over the reen on the southern side of the woodland at approximately 2m height above the water surface.
6 – Fair Orchard Farm	Grazed improved grassland and reens with defunct hedgerows.	The detector and microphone were located approximately 1.2 above ground level on a crack willow tree near to the corner of the field.
7 – Old Dairy Reen	Areas of improved and semi- improved grassland with reens and poor quality hedgerows.	The detector and microphone were secured to a gate post on the bridge over Old Dairy Reen.
8 – Heol Pant-y- Cwcw	Areas of improved and semi- improved grassland with reens. Field boundaries comprising scattered scrub and isolated hawthorn trees.	The microphone and detector were hung from a hawthorn tree over a dry ditch at a height of approximately 1.8m.
9 – Usk	Scrub and standing water at the rear of the flood defence bund on	The detector and microphone were placed at the base of a hawthorn tree

Location No.	Habitat Description	<b>Detector Placement</b>
	the eastern side of the River Usk. Saltmarsh is present on the river side of the bund.	adjacent to the standing water on the eastern side of the bund.
10 – Pye Corner	Grazed and un-grazed grassland with hedgerows and largely dry ditches near to the cycle path.	The detector were placed in a hawthorn tree on the north side of the hedgerow at a height of 1.6m.
11 – Laboratory	Area of ornamental planting within the grounds and car park of the former laboratory. This area has been left unused for a significant period and become overgrown with dense scrub.	The detector and microphone were located in a tree on the north side of the woodland adjacent to the boundary fence near to the pylons.
12 – Tatton Farm	Grazed grassland areas within the levels with a network of reens and well established and largely unmanaged hedgerows.  Tatton Farm contained a pipistrelle roost at the time of the previous surveys in 2008.	The microphone was located approximately 3 – 4m up within the hedgerow trees and connected to the detector with a cable. The detector was secured to a fence post at the base of the hedge adjacent to the reen.
13 – Spencer Works	Area of swamp and scrub on the southern edge of the former slag tipping area of the Llanwern steelworks. To the south are two parallel drainage reens.	The detector and microphone were placed on a tree on the southern edge of the scrub and swamp at a height of 1.6m above ground level.
14 – Middle Road Reen	Area of former tipping lagoons and water treatment areas of the steelworks, intersected by Middle Road Reen, a largely drainage reen.	The microphone was located approximately 2m above the ground hanging on a cable in the branches of a fallen tree to bring it closer to the reen. The detector was secure further along the trunk of the tree.
15 – North Row	Minor road running north – south at the eastern end of the Llanwern steelworks.  This road was found to be used as a commuting route by bats in 2008.	The microphone was suspended in the branches a tree on the western verge of the road using a microphone cable at a height of approximately 3m. The detector was secured hidden within ivy lower down the tree.
16 – Bareland Street	Grazed semi-improved grassland with a small area of scrub woodland within the reen network.	The microphone was located within a willow tree in the corner of the field next to a reen.
17 – Green Moor Lane	This lane which is blocked at one end has mature tree on either side. Adjacent land is grazed pastures and allotments. A housing estate is located at the eastern end of the lane and an underbridge takes the lane beneath the Queens Way (Steelworks Access Road).	The microphone and detector were located on a tree on the southern side of the lane at a height of 1.5m.
18 – Magor	Horse grazed pasture and arable land with mature hedgerows and trees.	The microphone and detector were located on a tree on the southern side of the hedge at a height of 1.5m.
19 – St Brides Brook	Underpass beneath the existing M4 Motorway including a farm	A number of places were used at this location as the detector and

Location No.	Habitat Description	Detector Placement
	access, footpath and stream. Grazed grassland located to the north. To the south of the existing motorway there is a narrow band of grazed pasture and areas of residential housing within Magor.	microphone were repeatedly vandalised. In April the microphone was located over the southern portal of the culvert. In May the detector and microphone were located at the base of a tree to the north of the existing motorway adjacent to the stream.
20 – Lime Kiln	Improved grassland pasture and hay fields along with a band of woodland on the north side of the existing motorway corridor.	The microphone was placed approximately 3 – 4m up a tree and connected to the detector with a cable. The detector was secured to a fence post.

# 2.5 Data Processing and Analysis

The detectors recorded bat activity in Wildlife Acoustics Compression files (.wac). These were downloaded from the detectors and processed using Kaleidoscope Pro Software to produce audio files (.wav) and zero crossing files. The processing also included the automatic identification of bat species based on the classifiers developed by Wildlife Acoustics (Bats of the United Kingdom versions 1.0.4, 2.0.7 and 2.1.0).

The files produced by the processing were then reviewed to ensure correct identification of species and to identify where possible the bat species for any calls which could not be recognised by the software. All calls identified as being either common pipistrelle (*Pipistrellus pipistrellus*) or soprano pipistrelle (*P. pygmaeus*) were not reviewed except where high levels of insect noise had been recorded leading to uncertainty over the accuracy of identification. All other calls were checked by Pete Wells, a bat specialist with over twenty-five years of experience in bat work and holder of a current NRW bat survey licence.

The number of files (sound clips) recorded by the detectors each night was taken as a proxy value to the number of bat passes. This was then used to calculate a Bat Activity Index (BAI) for each species at each location during each session. The BAI was calculated on the first five nights recorded each month. In some cases the detector also recorded data on the sixth and sevenths nights. These additional nights have been excluded from the BAI as it could not certain that the detector had recorded data for the entire night. However where rarer or more notable species were recorded on these additional nights, they have been included to ensure their representation within the data in terms of species diversity.

The average BAIs for all species (sum of individual BAIs) at each location has been calculated both for the entire surveys season and over the period from May to September.

The time of recording of the first bat of each species, each night, and time of last recording were also compared to sunset and sunrise times obtained using Anasun software to infer the potential proximity of roost sites.

## 2.6 Limitations and Assumptions

Access to land could not be arranged for all of the locations during the initial month of surveys in April 2014. The only location affected in this way was Location 20 at the eastern end of the scheme. An alternative location was chosen in land that could be accessed close to the originally proposed location from May onwards.

The identification of bat calls can be highly subjective based on decisions on the shape and characteristics of the calls. Whilst every effort has been made to ensure the accurate identification of calls, given the number of bat passes recorded (in excess of 85,000 from static detectors) it has not been possible to differentiate between the *Myotis* species. Due to the subjective nature of bat call analysis it is possible that other ecologists may differ in opinion on the identification of calls, however current reference works (Russ, 2012) (Middleton, Froud, & French, 2014) have been used along with BatExplorer software which also includes species identification functions.

There is the potential that some calls may have been overlooked principally due to the fact that the automatic species identification systems cannot identify multiply species within the same sound clip. However, with the exception of files identified as common or soprano pipistrelle by the software, all other files have been checked and all species recorded within those files included within the results set out in this report.

Problems with access permission, equipment failures and bad weather meant that some transect surveys and static monitoring locations were surveyed at the very end of a month or early the following month. However a full suite of transects were completed.

Three locations (numbers one in May, seven in July and five in September) were missed due to equipment failures late in the month, where repeat sessions could not be recorded. Location 20, was not used in April due to access permission not be granted. An alternative location was found for subsequent months.

On three occasions (Locations five in August, one in September and four in September) the detectors functioned properly but no bats were recorded during the entire session. This is likely to have been due to prolonged periods of wet or windy weather in August.

The two locations in September were recorded during a spell of dry weather from the 9<sup>th</sup> September during which winds were relatively light from an easterly direction. Both detectors functioned properly and numerous sound files were recorded. It is therefore unclear why no bats were recorded at these locations.

# 3 Baseline Environment

# 3.1 Desk Study

A comprehensive desk study is included within the Extended Phase 1 Habitat Survey and Desk Study Report 2014 (Ove Arup & Partners Ltd, 2015).

Previous surveys for the New M4 Project in 2007 revealed the presence of bat roosts in a number of properties within the study area which are shown in Table 6 below.

Table 6 Bat roosts recorded in 2007 surveys

Property	Species	Roost type	Building description
Berryhill Farm	Brown long-eared ( <i>Plecotus auritus</i> ) Common pipistrelle Soprano pipistrelle	Possible maternity roosts	Farm house and associated buildings including open garage
Maerdy Farm	Brown long-eared	Maternity roost	Roosting within barn opposite farm house
Nash Baptist Church	Pipistrelle species	Unknown	Droppings present in roost space
Tatton Farm	Brown long-eared	Unknown – possible feeding perch	Droppings found in porch
	Common pipistrelle	Possible roost	Recorded flying around buildings
Great Pen-Carn Farm, Imperial Park	Brown long-eared	Small roost	Within derelict farm house which has since been demolished
Magor Vicarage	Common pipistrelle	Small roost	Within outbuilding
	Myotis species	Possible roost	Within garage
Upper Grange Farm	Common pipistrelle	Small roost	Within farmhouse
The Elms, Pye Corner	Common pipistrelle	Maternity roost	Over 80 bats emerged
Magor Pumping Station	Pipistrelle species	Possible roost	Droppings found on exterior of building beneath wood cladding
Whitson Court	Lesser horseshoe bat (Rhinolophus hipposideros) Common pipistrelle Natterer's bat (Myotis nattererii)	Small hibernation roost	Four horseshoe bats recorded within cellar along with pipistrelle and Natterer's bat.  The building was boarded up and renovated the following winter.

During the course of the surveys a record was reported to the survey team through the Cardiff Bat Group of a grounded barbastelle bat (*Barbastella barbastellus*) which had been found within a barn near Wilcrick Hill to the west of the study area at Magor.

## 3.2 Preliminary Roost Assessments

464 features were recorded with potential to support bat roosts. The locations of these are shown on Drawings M4-OA-01-00-DR-Z-BA-0024 to 0031. Recording sheets are provided in Appendix B.

These include 114 features with high potential of which 109 are trees, four are buildings or groups of buildings and one bridge. A total of 184 features of medium potential were recorded comprising 181 trees and three groups of buildings. A further 157 features of low potential comprising 154 trees, 2 groups of buildings and a bridge.

Bats were heard in one building at the Dog Kennels on Rush Wall Track and droppings were found within two trees and one building at Grangefield to the south of the Steelworks. These two trees are located adjacent to the A48(M) near to the Coach and Horses and outside of the Study Area near Whitson.

A further 14 features had potential (but unconfirmed) signs of bats including potential staining and fur polishing.

## 3.3 Walked Activity Transects

The result of the walked bat transects are summarised in Appendix C and individual transect results are shown on Drawings M4-OA-01-00-DR-Z-BA-0032 to 0108.

#### **3.3.1** Transect 1

Common and soprano pipistrelle were the most frequently recorded species on Transect 1, although *Myotis* bats were also regularly recorded on the Transect. Occasional passes of noctule (*Nyctalus noctula*), Leisler's bat (*Nyctalus leislerii*) and Nathusius' pipistrelle (*Pipistrellus nathusii*) were also recorded.

Bats were recorded on all parts of the transect with the main areas of highest bat activity around Berry Hill Farm and the woodlands to the south of the farm and in the fields to the west. Relatively high levels of activity were also recorded along the A48 corridor in May and August although in other months the levels were lower.

Given the proximity of a known roost at Berry Hill Farm the relatively high levels of pipistrelle bats is to be expected.

#### **3.3.2** Transect 2

Common and soprano pipistrelle were also the most frequently recorded bat on Transect 2 followed by *Myotis* bats. The plantation woodland adjacent to the redundant dual carriage way and the more enclosed section of Church lane were

the areas with the highest levels of activity. Relatively high levels of activity were also recorded along Percoed Reen during the May transect.

Along with pipistrelle bats, other species recorded include long-eared bat (most probably brown long-eared), noctule, Leisler's bat, Nathusius' pipistrelle and serotine bat (*Eptesicus serotinus*) but only in small numbers or isolated passes.

#### **3.3.3** Transect **3**

Transect 3 revealed a similar range of species to Transects 1 and 2. Activity levels were highest along the Green Lane, with high levels of activity only recorded in the fields between the Green Lane and Fair Orchard Farm during the September Transect.

#### **3.3.4** Transect 4

Transect 4 recorded relatively low levels of bat activity except during the April, September and October transects. This activity was largely confined the fields with relatively high numbers of passes only recorded on the sea wall during October.

#### **3.3.5** Transect **5**

Transect 5 recorded relatively low levels of activity compared to other Transects. The tree lined sections of the National Cycle Path recorded the higher levels of bat activity on this transect. The more open areas near Pye Corner and the Industrial areas had very low levels of bat activity or no activity recorded at all.

#### **3.3.6** Transect 6

Activity on Transect 6 was variable with very few areas consistently having high levels of activity. Pipistrelle and *Myotis* bats were the most frequently recorded along with occasional noctule bat passes. The grazed fields around Tatton Farm and sections of the lane leading to the farm had the highest levels of activity on this transect.

#### **3.3.7** Transect 7

Large sections of this transect had very little or even no bat activity. This includes parts of the Transect adjacent the Spencer Works 3 Site of Importance for Nature Conservation (SINC) at the eastern end of the transect, and through the reedbeds at Pride's Bridge within the Steelworks Water Treatment Area. Higher levels of activity were recorded on the track crossing Middle Road Reen and along Middle Road Reen.

Species recorded within this area were predominantly common pipistrelle along with some *Myotis* bats, serotine, soprano pipistrelle and noctule passes.

#### **3.3.8** Transect 8

Most sections of this transect recorded relatively high levels of bat activity (over 45passes/hr). The most consistently high areas of activity were along Mareland

Street and on the section east towards Barecroft Common. These roads are tree lined and are therefore more sheltered. Higher activity was also recorded on North Row during the April transect, but was much lower in subsequent months.

Common pipistrelle was again the most frequently recorded species along with soprano pipistrelle, *Myotis* species and noctule bats.

#### **3.3.9** Transect 9

Transect 9 recorded relatively low levels of bat activity. The highest areas of activity were recorded on Green Lane and the lane to Llandevenny. Common pipistrelle and *Myotis* bats were the main species recorded with only a few passes of other species.

#### **3.3.10** Transect 10

The lanes around Knolbury and Bare Croft Lane recorded some of the highest level of bat activity on this transect route. The stream corridor and woodland areas in the west of the transect near Upper Grange Farm were also more frequently used by bats.

Significantly high levels of noctule bat were recorded on this transect compared to any of the others, particularly during the April transect.

## **3.3.11 Summary**

The walked activity transects recorded bats in all areas of the routes covered including less optimal habitats such as the A48 corridor and open areas such as the fields to the west of the River Ebbw and industrial areas east of the River Usk.

Species recorded were dominated by relatively common bats, with common pipistrelle being the most abundant species recorded. Less common species occasionally recorded included Leisler's bat, serotine and Nathusius' pipistrelle. No horseshoe bat species were recorded during the walked transect surveys.

# 3.4 Static Activity Monitoring

The static detectors recorded over 85,000 bat passes during the seven months surveyed. The levels of activity were variable across the different locations, although some locations had generally higher levels of activity as shown in Table 7 below. As with the walked transects common pipistrelle were the most frequently recorded species along with soprano pipistrelle and *Myotis* species.

Table 7Drawings M4-OA-01-00-DR-Z-BA-0110 to 0116 at the end of this report provide visual comparison of the overall levels of bat activity recorded each month. Graphs are also provided in Appendix D.

As with the walked transects common pipistrelle were the most frequently recorded species along with soprano pipistrelle and *Myotis* species.

Table 7 Average Bat Activity Indexes during survey period

Location No.	Average BAI April to October	Average BAI May – September
1	24.65	32.8

2	215.6	269.2
3	214.6	292.4
4	195	230.7
5	40.6	51.8
6	421	428.7
7	76.07	90.75
8	96.79	111.9
9	15.69	18.92
10	15.29	19.44
11	7.714	9.08
12	147.7	181.5
13	12.94	16.88
14	74.1	98.22
15	139.7	143.2
16	36.43	27.64
17	164.5	168.3
18	93.94	94.98
19	371	449.4
20	216.4	216.4

## 3.4.1 April Monitoring Session

Location six within the fields to the west of Lighthouse Road and Fair Orchard Farm recorded the highest level of bat activity during this session with an average of 554.4 bat passes per night of which 460.4 comprised common pipistrelle. This level of activity was approximately twice that of the next highest locations as shown in Table 8.

Other species recorded include single passes of barbastelle bat at locations 13 and 14, small numbers of Nathusius' pipistrelle passes at locations 13, 14 and 15 and a single pass of a long-eared bat species at location 2. Most notably lesser horseshoe bats were recorded at locations 11 (Pye Corner laboratories), 15 (North Row), 16 (Bareland Street) and in higher numbers at Location 19 (St Brides' Stream Culvert).

Table 8 Bat Activity Indexes for Individual Species and Total BAI during April

Location	Bb	Msp	Nn	Pn	P45	P55	Plsp	Rh	Total
1		0.2			12.0	7.2			19.4
2		24.0	2.6		68.6	31.4	0.2		126.8
3			0.4		22.4	3.0			25.8
4		1.0			178.5	65.5			245.0
5		2.4	0.4		35.0	4.4			42.2
6		2.4	1.6		460.4	90.0			554.4
7		1.0	4.2		57.4	20.2			82.8
8		0.2	8.2		46.4	32.4			87.2
9			0.2		10.4	0.6			11.2
10		1.0	0.2		7.4	1.0			9.6
11			0.4		2.8	0.2		1.4	4.8
12			2.0		75.8	6.6			84.4
13	0.2	0.8	0.2	0.4	3.0	0.6			5.2
14	0.2	0.4	0.2	0.4	12.4	4.8			18.4
15				3.8	60.0	27.0		0.2	91.0
16		1.2	0.2		103.8	7.4		3.6	116.2
17		0.2	2.8		47.8	1.2			52.0
18			2.0		96.4	0.6			99.0
19		4.8	1.2		243.4	23.0		11.0	283.4

Note species codes used in this and subsequent tables:

Bb = barbastelle bat

Msp = Myotis species

Nn = noctule

Pn = Nathusius' pipistrelle

P45 = common pipistrelle

P55 = soprano pipistrelle

Plsp = long-eared bat species

Rh = lesser horseshoe bat

Lesser horseshoe bats were recorded on each of the five nights recorded at Location 19 with a total of 55 passes giving an average of 11 passes per night. Most of these passes were recorded in the middle part of the night with the earliest recordings being on the 9<sup>th</sup> and 10<sup>th</sup> April (as shown on Figure 2) where lesser horseshoe bats were first recorded approximately an hour and 45 minutes after the time of sunset. Given that lesser horseshoe bats tend to emerge from their roosts from approximately 30minutes after sunset (Russ, 2012), this would not suggest that a roost is in the immediate vicinity. However on the morning on the 12<sup>th</sup> April a lesser horseshoe bat was recorded at 05:08 approximately 15minutes prior to the time of sunrise, which could indicate a roost for this species nearby.

The microphone for the detector at location 19 during this session was located hanging in the entrance of the culvert on the south side of the existing M4. There

is therefore the possibility that the lesser horseshoes recorded were using the culvert to cross from one side of the M4 corridor to the other.

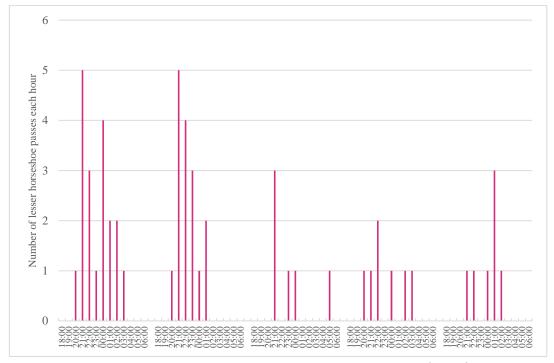


Figure 2 Temporal pattern of lesser horseshoe activity at Location 19 9th – 13th April

## 3.4.2 May Monitoring Session

Location 4 recorded the highest level of activity during the May recordings with an average of 752 passes per night. Locations 6, 19 and 20 were also relatively high compared to other locations. No bats were recorded at locations 1 and 11 during this session and although the detectors functioned properly in both cases (Table 9 below).

Species composition was similar to the April session with common pipistrelle the most frequent species followed by soprano pipistrelle and *Myotis* species. More notable results include high numbers of noctule bats recorded at locations 19 and 20, and the presence of more uncommon species including barbastelle bat (3 passes at location 18), Nathusius' pipistrelle (31 passes at location 2, single pass at location 4, and two passes at location 15) and lesser horseshoe bat (locations 14, 16, 17, 19 and 20). Lesser horseshoes recorded at these locations comprised only a small number of passes with the highest level of activity being 1.8 passes per night at location 20.

Table 9 Bat Activity Indexes for Individual Species and Total BAI during May.

Location	Bb	Msp	Nn	Pn	P45	P55	Rh	Bat	Total			
1	No bats recorded											
1		T	T	T	T	T		No bats r	ecorded			
2		5	0.8	6.2	118.2	9.6			139.8			
3		1.6	0.2		98.8	7			107.6			
4		91.4	0.4	0.2	314.8	269.2			752			
5		5.4	4		46.8	6.2			62.4			
6		1.2	2.6		275	18.4			297.2			
7			1		80	11.4			92.6			
8		0.8	10.4		44.8	16			72			
9			0.4		29.6	0.2			30.2			
10		0.2			6	3.6			9.8			
11								No bats r	ecorded			
12		0.2	0.2		70	5.2			75.6			
13		1.4			4.2	2		0.4	8.2			
14		6.6	4.8		40.2	6.4	0.2		58.2			
15		3.2	1	0.4	59.6	20.4			84.6			
16		1			0.8	0	0.2		2			
17		3.8	7.8		99	7.8	0.8		119			
18	0.6	0.2	5		85.4	3.2			94.4			
19		1.2	33.4		289.4	10	0.4		334.4			
20		3.2	80.4		350	45.6	1.8		481.2			

## **3.4.3 June Monitoring Session**

Location 17 recorded the highest level of activity during the June session with a BAI of 328.6 followed by location 12 (see Table 10 below). Species composition was similar to previous months with the addition of a single serotine bat pass recorded at location 16. Lesser horseshoe bats were again recorded at locations 17 and 20.

In addition to large number of pipistrelle bats, a relatively large number of noctule passes were also recorded at location 17 with a BAI for this species of 70.2 passes per night.

P45 P55 Location Bb Es Msp Nn Plsp Rh Total 0.2 56.2 2.8 1.4 1 60.6 2 29.8 0.4 112.4 65.6 208.2 7 3 2.2 160.6 4.8 174.6 4 0.8 1 48 2.6 52.6 5 2.8 1.2 51 20.2 75.2 6 0.2 1 198 31.4 230.6 7 3 9.6 77.2 156.2 66.4 8 8 0.6 45.8 27.4 81.8 9 0.2 29.9 2 31.8 10 0.8 0.8 15.8 6.8 24.2 11 0.2 0.6 6.6 0.4 7.8 12 3.2 23.4 222 38.8 287.4 13 0.2 6 1.6 1 8.8 14 9 48 3.2 63.2 123.4 15 13 4 0.4 25.6 31.6 74.6 0.2 1.2 16 6.2 35 1.6 44.2 17 0.2 0.8 70.2 202.6 54 0.8 328.6 18 1.5 0.25 49.25 0.5 51.5 19 6 5.6 16.4 28 20 1 5 2 0.2 0.2 8.4 Es = serotine

Table 10 Bat Activity Indexes for Individual Species and Total BAI during June

### 3.4.4 July Monitoring Session

During the July session location 2 recorded the highest BAI of 455 with location 19 the next highest with 309 (see Table 11). The majority of the activity recorded was from common and soprano pipistrelle bats with only very low numbers of *Myotis* bats recorded during this month. Noctule was recorded in low numbers at most locations although slightly higher levels were again recorded at locations 18, 19 and 20.

Small number of Leisler's bat passes were recorded at locations 17, 18 and 20, and barbastelle were recorded at locations 6, 12, 13 and 18. These recordings ranged from single passes to a maximum of three passes recorded over the five night period.

Nathusius' pipistrelle was also recorded on single occasions at locations 8, 10 and 12 and single lesser horseshoe bat passes were recorded at locations 17 and 19.

P45 P55 Location Bb Es Msp NI Nn Pn Plsp Rh **Total** No bats recorded 1 2 8.2 313.4 124.4 0.2 455 8.8 3 1.4 1.6 52.4 9.8 65.2 4 1.8 2.8 75 3.6 83.2 5 0 4 12 1.8 17.8 5 130.4 18.8 157.4 6 0.2 0.2 2.8 7 No bats recorded 8 0.8 5.8 0.2\* 60.8 45 112.4 9 0.8 6.2 0.6 7.6 10 3.8 0.2 40.6 12.8 57.4 1.2 11 6.4 7.6 12 0.4 3.8 0.2 89.6 121.8 1.8 26 13 0.4 2.8 1.8 5.6 45.4 56 3 14 13 2.2 94 112.2

Table 11 Bat Activity Indexes for Individual Species and Total BAI during July

Nl = Leisler's bat

0.6

15

16

17

18

19

20

These individual passes of these species were recorded on the 6<sup>th</sup> night but have been included within the results to represent species diversity.

9.6

11.4

3.6

38.2

24.2

28.8

110

74.4

133

237

257

19.2

5.8

2.2

34.8

3.2

25.8

0.4

127.6

91.6

173.6

279.2

309

49.4

0.2

0.2

## 3.4.5 August Monitoring Session

2.2

3.6

1.8

0.2

1.4

0.8

0.2

0.2\*

0.2

Bat activity levels were notable lower in August compared to other months and it is believed that this was a result of unusually wet weather during this month (Met Office, 2014) with Wales receiving over 132% of the average monthly rainfall for August (Met Office, 2014).

Location 19 recorded the highest BAI with an average of 429.4 passes per night, approximately twice as much as any of the locations (see Table 12). Roughly three quarters of the activity was from common pipistrelle bats. Apart from soprano pipistrelle which represented the majority of the other calls recorded, small number of *Myotis* bats were also recorded along with very occasional lesser horseshoe bat, noctule and a single barbastelle pass.

Larger numbers of *Myotis* and noctule passes were recorded at locations 15 and 20.

Location Db Mon NI No Do D45 D55 Db Total

Table 12 Bat Activity Indexes for Individual Species and Total BAI during August

Location	Bb	Msp	NI	Nn	Pn	P45	P55	Rh	Total		
1				0.2		4.8			5		
2		3.8		1		47.6	120		172.4		
3		2.2		1		186.6	21		211		
4		8.8	0.2	0.2		15.2	10.4		34.8		
5	No bats recorde										
6		5		5.6		47.4	9		67		
7	0.2	0.2		4.4		24	26.2		55		
8		2.75		6.4	0.4	26	35.2		70.75		
9		0.2		0.8		8.8	0.2		10		
10				1		2.2	1		4.2		
11		0.2		0.8		22.4	1.2		24.6		
12				1.8	0.2	39.2	2.6		43.8		
13		1.4		1.2		5	0.2		7.8		
14		8.4		3.5		111	9.2		132.1		
15	0.2	19.8		10.2		146	39		215.2		
16						0.2			0.2		
17		1		0.8		106	42.2	0.2	150.2		
18				0.2		10.4			10.6		
19	0.2	9.6		0.6		291.6	126.6	0.8	429.4		
20		1.8		28.2		76	11	1	117.6		

#### 3.4.6 **September Monitoring Session**

The September sessions recorded the highest levels of bat activity over the entire survey period (see Figure 3) with both location 6 and 19 recorded exceptional high levels of 1391.4 and 1146 passes/night respectively (Table 13). Common and soprano pipistrelle accounted for the majority of calls at these locations although a significantly higher number of Myotis bats were recorded at location 19 during this month than at any of the other locations during the whole survey period.

Rarer bat species were also represented more frequently that during earlier months with greater numbers of Nathusius' pipistrelle recorded than in previous months, along with individual passes of barbastelle recorded at six locations across the study area. Lesser horseshoe were represented at four locations in the eastern half of the study area, with the highest number of passes recorded at location 19.

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Table 13 Bat Activity Indexes for Individual Species and Total BAI during September

Location	Bb	Es	Msp	NI	Nn	Pn	P45	P55	Rh	Total
1									No bats	recorded
2			9.2	0.2	5.8		66.2	289		370.6
3			134		9.4		214.6	545.6		903.6
4									No bats	recorded
5									No bats	recorded
6	0.2	0.2	51		4.8	56.6	974	304.8		1391.4
7	0.4	0.2	0.6	0.2	9	0.2	35	13.6		59.2
8	0.2		1.2		9	0.8	183.2	28		222.4
9							15			15
10			0.2				1.2	0.2		1.6
11			0.4		1	0.2	3.6	0.2		5.4
12			5.6		1.4	0.2	256.4	115.2		378.8
13	0.2					0.2	2.2	0.4	0.6	3.6
14	0.2		2.4		2.8	0.4	38	21.4		65.2
15			17.4		9.6		92.8	94		213.8
16									0.2	0.2
17	0.2		3.6		0.6		44	21.8		70
18			0.6		1.6	0.2	34	2.8		39.2
19			213		19	1	690.2	228	4.4	1146
20			6.2		1.8	0.2	358	58	0.8	425.4

The high level of bat activity recorded during September is unusual in that it is expected for activity to decline after the key period when young are born and being suckled (EN, 2004). However during 2014 rainfall in September was very low, with Wales receiving only 14% of the average rainfall during this month (Met Office, 2014). Temperatures were also slightly higher than average and this is likely to have created better foraging conditions for bats. Due to the colder wetter weather in August as outlined above, it is likely that bats were increasing foraging effort in preparation for winter hibernation.

## 3.4.7 October Monitoring Session

Activity levels were relatively low in October as would be expected due to poorer weather conditions. Locations 6 and 15 were the only locations to record a BAI over 200 this month (see Table 14).

As with previous months the majority of the activity was from common and soprano pipistrelle, with *Myotis* bats being the only other species recorded in significant numbers. Small numbers of passes were also recorded of barbastelle, Leisler's bat, noctule, Nathusius' pipistrelle and lesser horseshoe bat.

A single pass of a greater horseshoe bat (*Rhinolophus ferrumequinum*) was recorded at location 7. This is the only recording of this species made during the surveys.

Table 14 Bat Activity Indexes for Individual Species and Total BAI during October

Location	Bb	Bat Sp	Msp	NI	Nn	Pn	P45	P55	Plsp	Rf	Rh	Total
1			1.4		0.2		10	0.8				13.6
2			4.4				3	28.8				36.2
3			2.4				12	0.6				14.6
4							2	0.4				2.4
5			2		0.4		2.8	0.2				5.4
6			43.6	0.2	0.8	0.6	163.6	40.4				249.2
7			0.4		1.4	0.2	6	2.4		0.2		10.6
8	0.2				1.4	0.8	14.2	14.4				31
9		0.6					3.2	0.2				4
10							0.2					0.2
11		0.2					2.4	0.2			1	3.8
12			2.6		0.2	0.2	37	2				41.8
13			0.2				0.6	0.2				1
14			2.4	0.2	0.4	0.6	4.4	0.8			0.4	9.2
15			29		1.6		98.4	41.8				170.8
16											0.6	0.6
17			18				192	46.8			1	257.8
18			5.6		7.7		67	2.2			1	83.7
19			13.2				43	9.6			1	66.8
20										N	o bats re	ecorded
Rf = greate	Rf = greater horseshoe bat											

## 3.4.8 Summary

The pattern of activity recorded over the survey period was largely as expected within the exception of August as discussed above. The highest number of bat passes was recorded during the September session as shown in Figure 3.

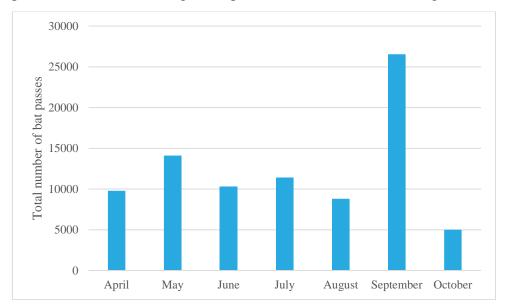


Figure 3 Total number of bat passes recorded during the five night sessions each month

Locations 2, 4, 6 and 19 had on average the highest levels of activity with an average across the study period of over 2000 bat passes per night. Locations 1, 9, 10, 11 and 13 had the lowest levels of activity, recording on average less than 25 passes per night (Figure 4).

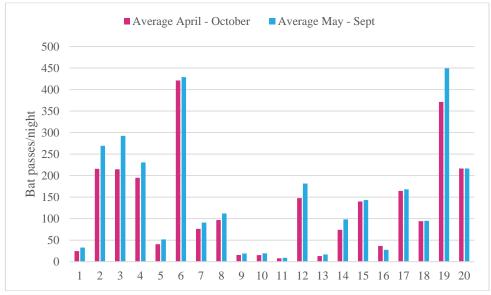


Figure 4 Average of BAIs over the entire season and optimum bat activity periods

Lesser horseshoe bats were recorded at locations 11, 13, 14, 15, 16, 17, 19 and 20. This species tends to forage within a radius of 4 – 5km of its summer roosts with a Core Sustenance Zone of only 3km (BCT, 2014). Locations 11 and 20 are separated by over 9km and it is therefore considered very unlikely that the lesser horseshoes recorded at location 11 (Pye Corner) are from the same roost as those

recorded at locations 19 and 20 (north of Magor). However if two or more roosts are present as could be assumed from the distance between these locations, there is potential for relatively frequent movement of bats and interchange between roosts (Catherine Bickmore Associates, 2003).

The single pass of a greater horseshoe bat recorded at location 7 during October is a notable result. The nearest known roost of this species is at Ruperra approximately 8.5km in a straight line to the north west. The foraging area of this bat normally extends up to approximately 6km (Burrows, 2013) from their roosts with a Core Sustenance Zone of 4km (BCT, 2014). It is therefore considered unusual for this species to have been recorded in this location, and the absence of repeat records would suggest the presence of a roost to be unlikely. It is therefore possible that the animal recorded was moving between summer and winter roosts.

The location of possible winter roosts are difficult to determine, however it is known that greater horseshoes are present in the Forest of Dean, including the presence of hibernation sites. It is therefore possible that the animal was recorded while following a route to the south of Newport to avoid areas with higher light levels in more built up areas to the north of Newport. Horseshoe bats of both species are known to be intolerant of high light levels and will actively avoid areas that are light (BCT, 2012).

Greater horseshoe are also known to be present in North Somerset and Avon, including hibernation sites near Bristol and in the Mendips. Greater horseshoe have been known to move up to 50km between summer and winter roosts (BCT, 2010) and there is therefore the potential that the animal recorded at location 7 was actually heading toward the coast to cross the Severn estuary at a narrower location such as between Goldcliff and Portishead to reach hibernation sites in North Somerset. However in the absence of radio-tracking data or ringing recoveries this cannot be determined.

## 4 Conclusions and Recommendations

The surveys undertaken for bats during 2014 have revealed the presence of a large number of trees and other features which have potential to support bats. In addition, surveys have identified the presence of a large number bats of a range of species using habitats within the study area. The following conclusions can be drawn from the result presented above:

- Numerous trees and buildings within the study area have the potential to support bat roosts and further surveys and consideration will be required to establish the presence of roosts within any potential construction footprint and adjacent areas;
- A total of nine individual species have been recorded along with long-eared bat species and *Myotis* bats likely to include whiskered bat, Brandt's bat, Natterer's bat and Daubenton's bat, bringing the total to 14 out of the 17 species known to breed within the UK;
- Woodland areas, grazed grasslands and areas comprising tree line lanes and watercourses were found to have the highest level of bat activity within the study area;
- Lesser horseshoe bats were recorded at eight of the 20 locations where static monitoring was undertaken. These were all located to the east of the River Usk between Pye Corner and the eastern end of the study area. These locations are spread out over 9km of the potential route of any scheme and it is therefore concluded that at least two roosts may be present, one near to Pye Corner and Whitson and one in the area around Magor.
- A greater horseshoe bat was recorded on a single occasion at location 7 during the October monitoring session. This location is approximately 8.5km from Ruperra Castle SSSI which is the nearest known roost. There is the potential that this bat was either foraging in the area or was moving between summer and winter roosts.

In light of these conclusions the following recommendations are made to inform any potential scheme design and Environmental Impact Assessment:

- Emergence surveys should be undertaken of any buildings or trees with potential to support bat roosts within the construction footprint and within 100m of any proposed construction work;
- Further survey work should be undertaken to establish the location of lesser
  horseshoe bat roosts within the vicinity of any scheme and to establish the
  main foraging areas and flight paths used by this species. It is highly likely
  that this will require radio-tracking work to be undertaken and the
  requirements for this should be discussed with Natural Resources Wales prior
  to any further surveys being commenced;
- The design of any scheme will need to consider and include means to allow bats, and in particular horseshoe bats, to safely cross the scheme. Given the likely vertical alignment of any scheme this is likely to take the form or underpasses.

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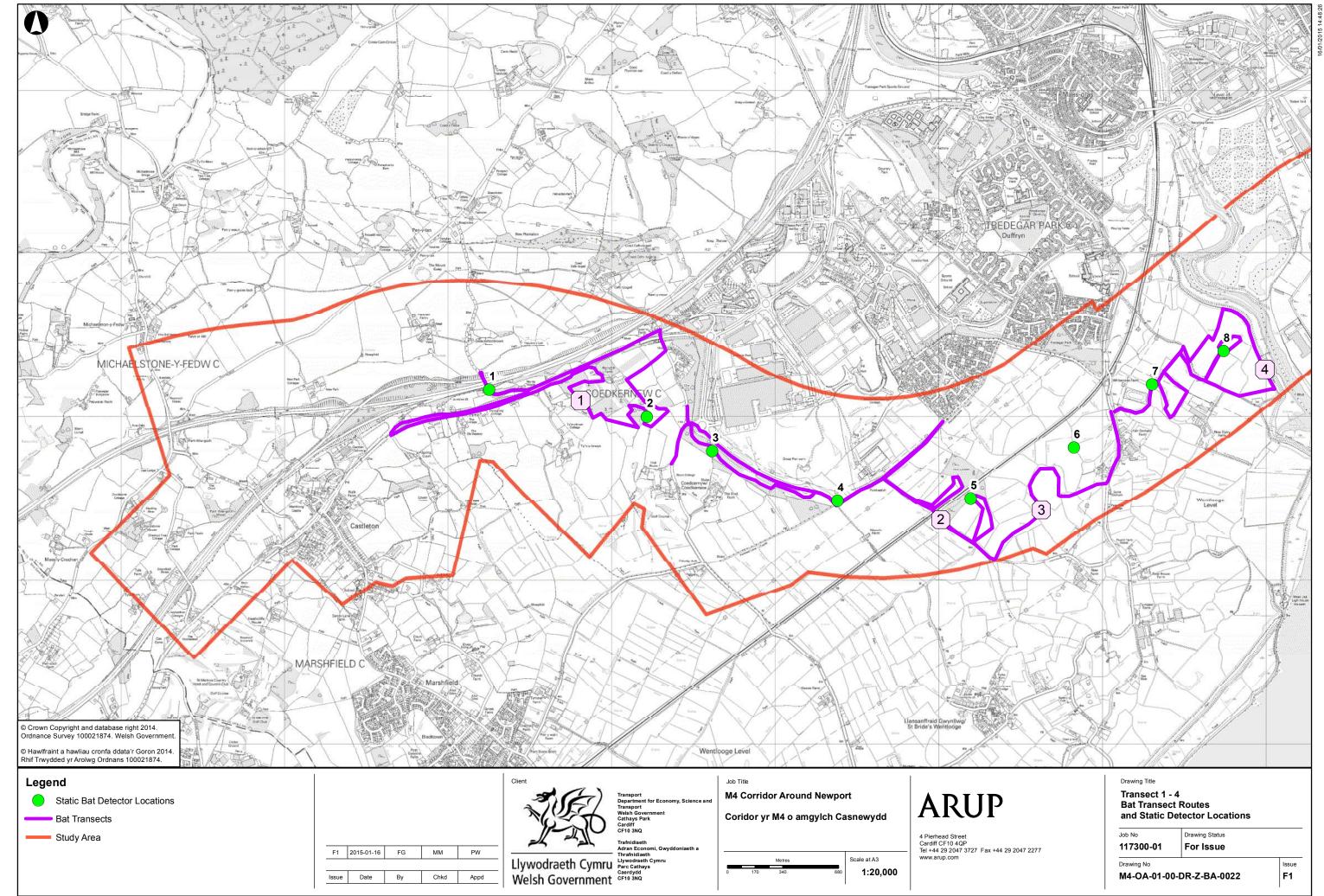
Welsh Government M4 Corridor Around Newport
Bat Survey Report 2014

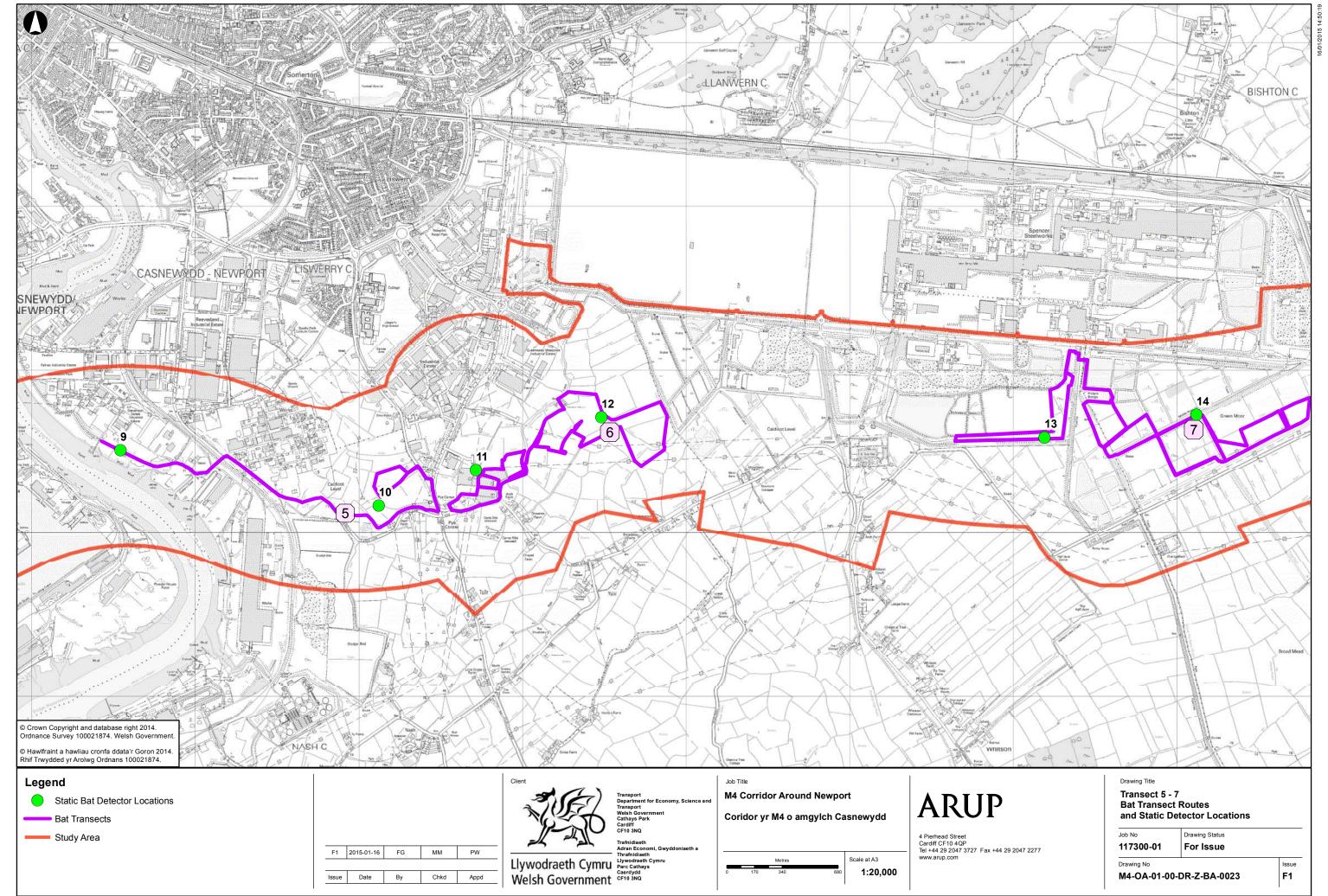
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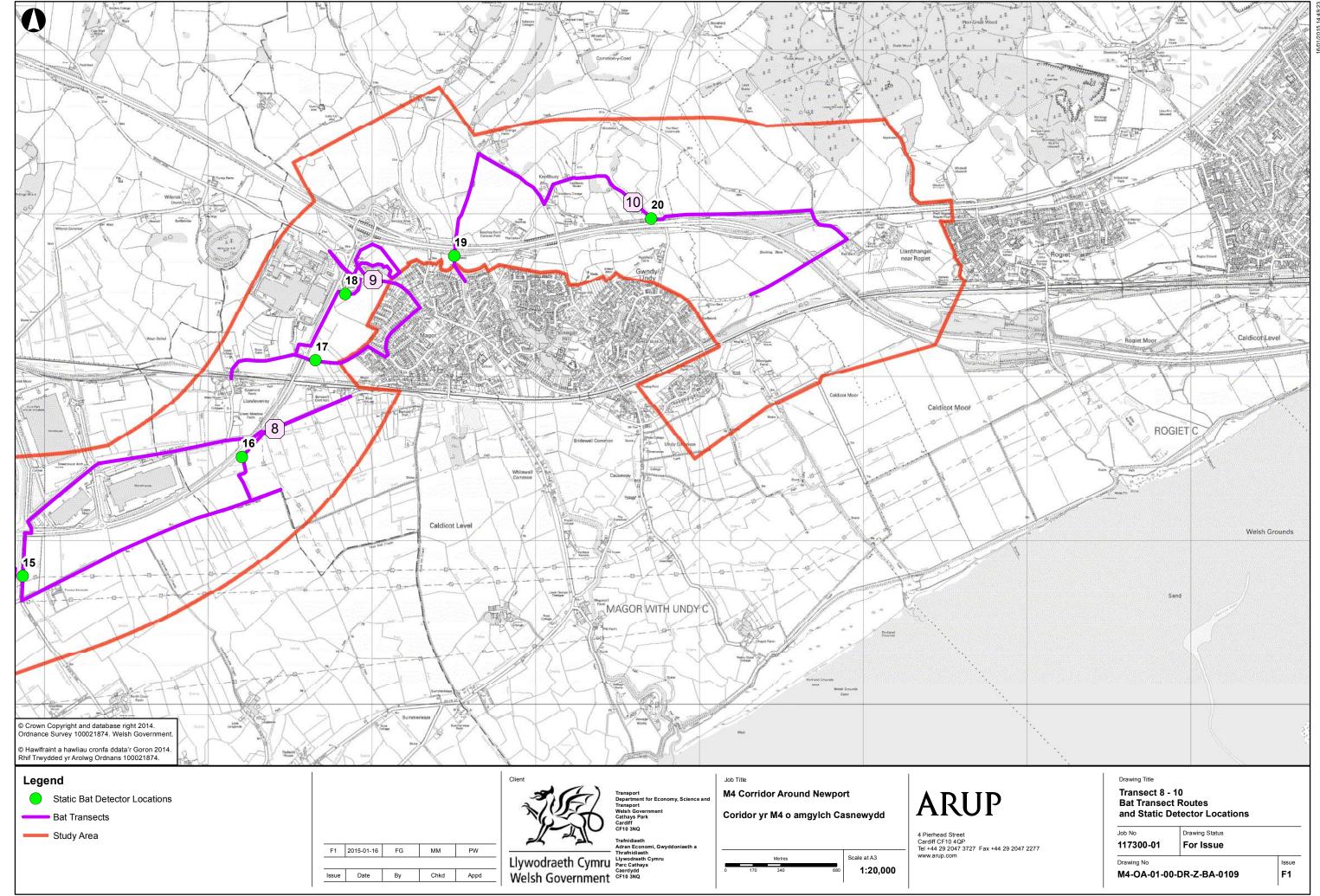
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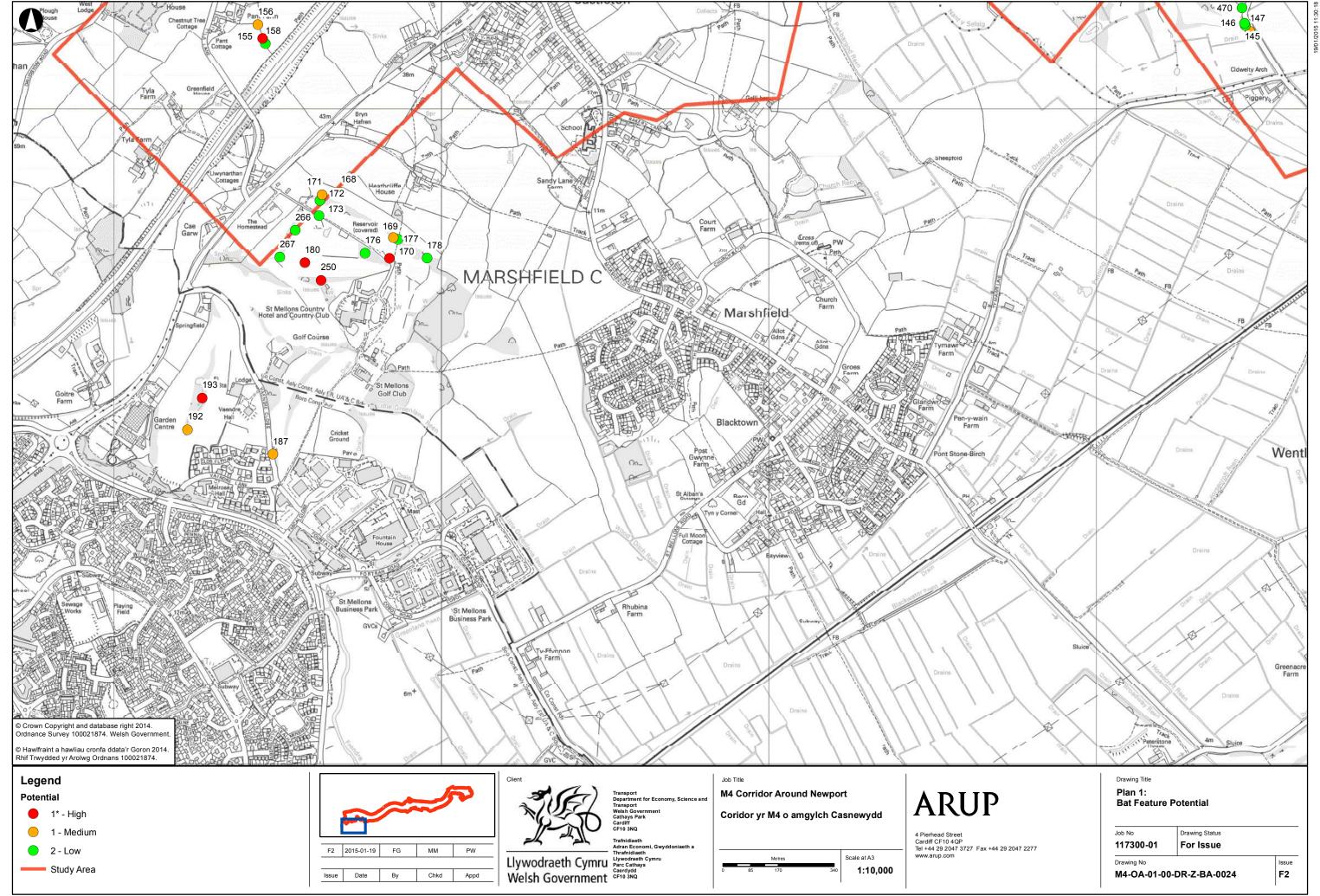
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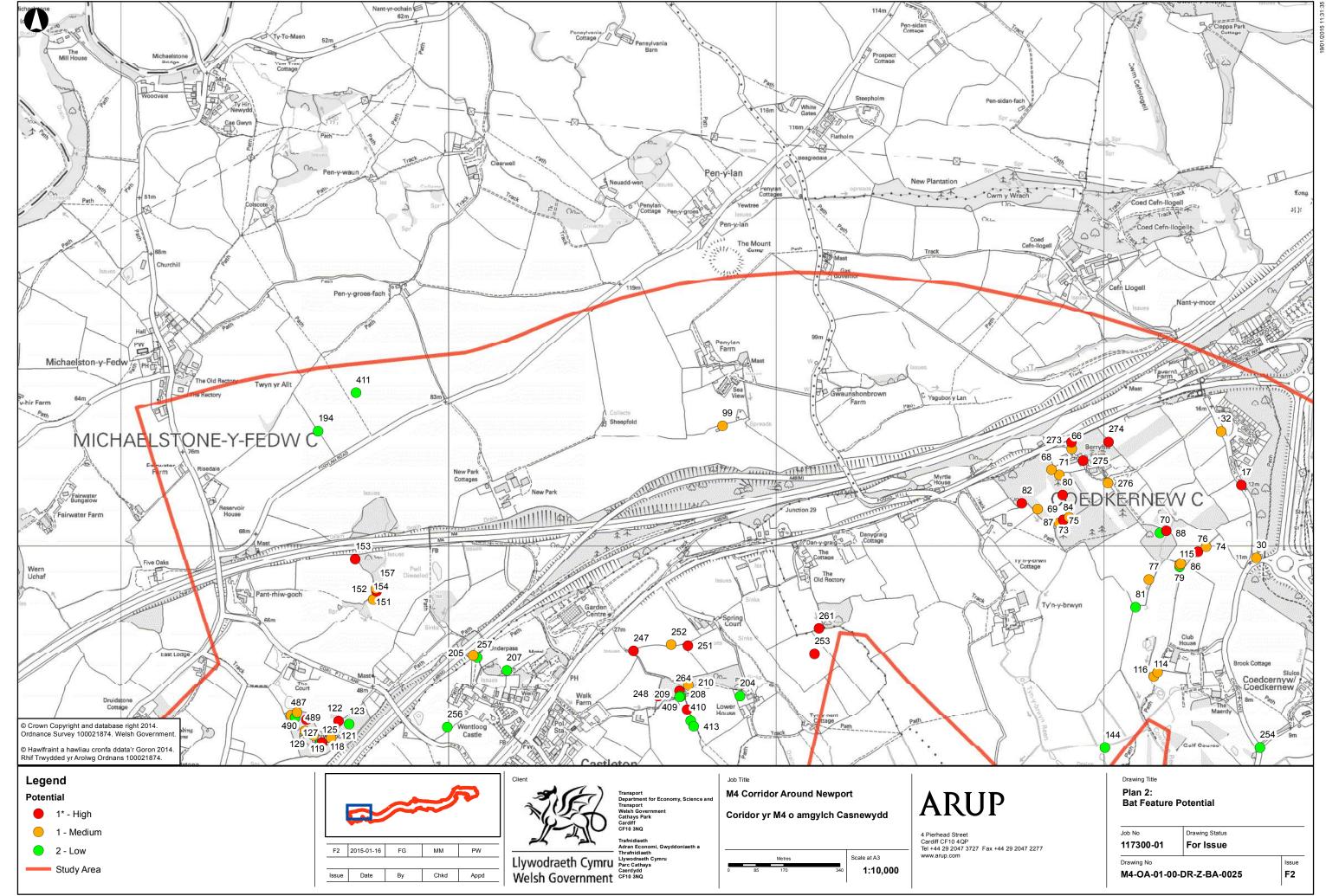
## **Drawings**

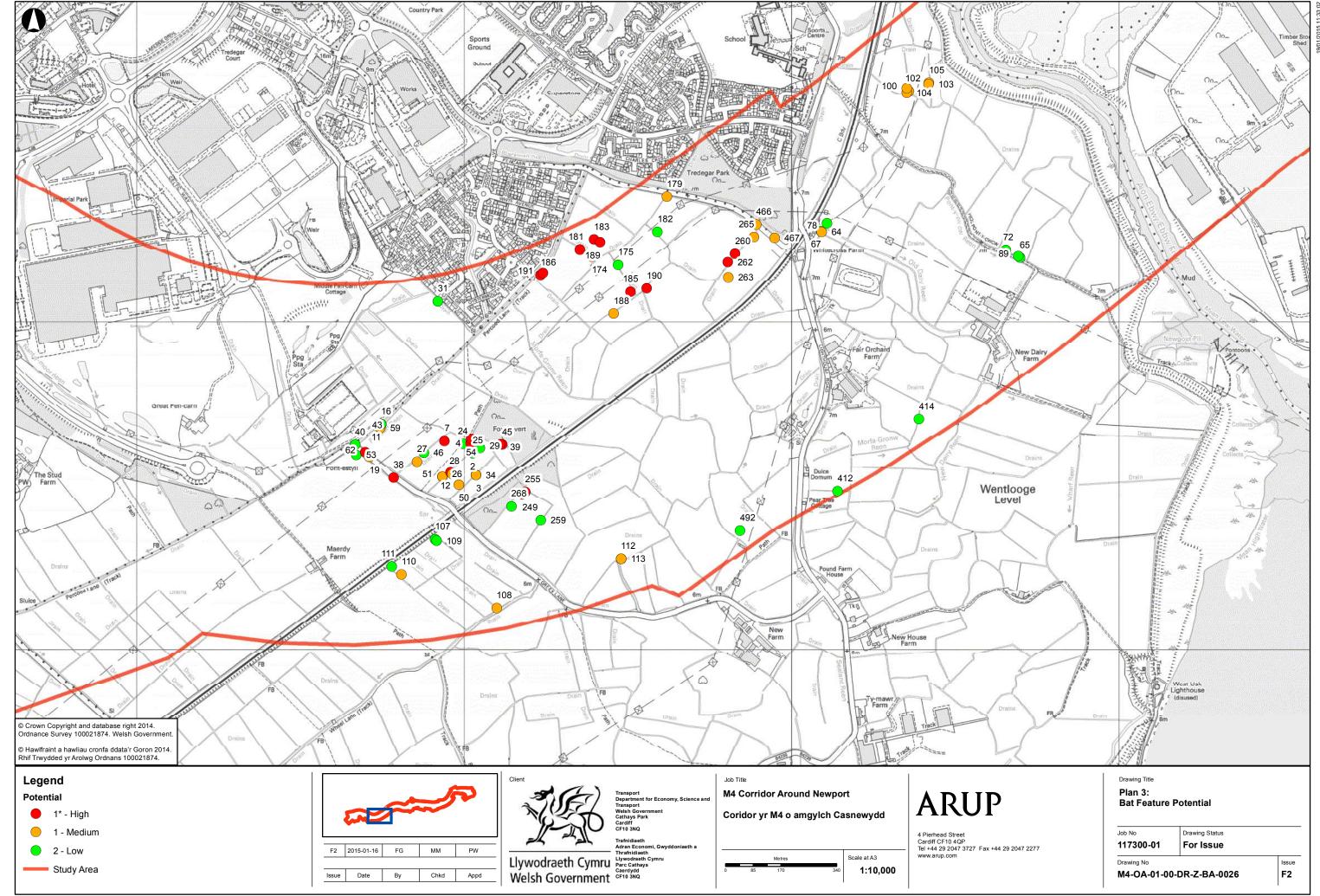


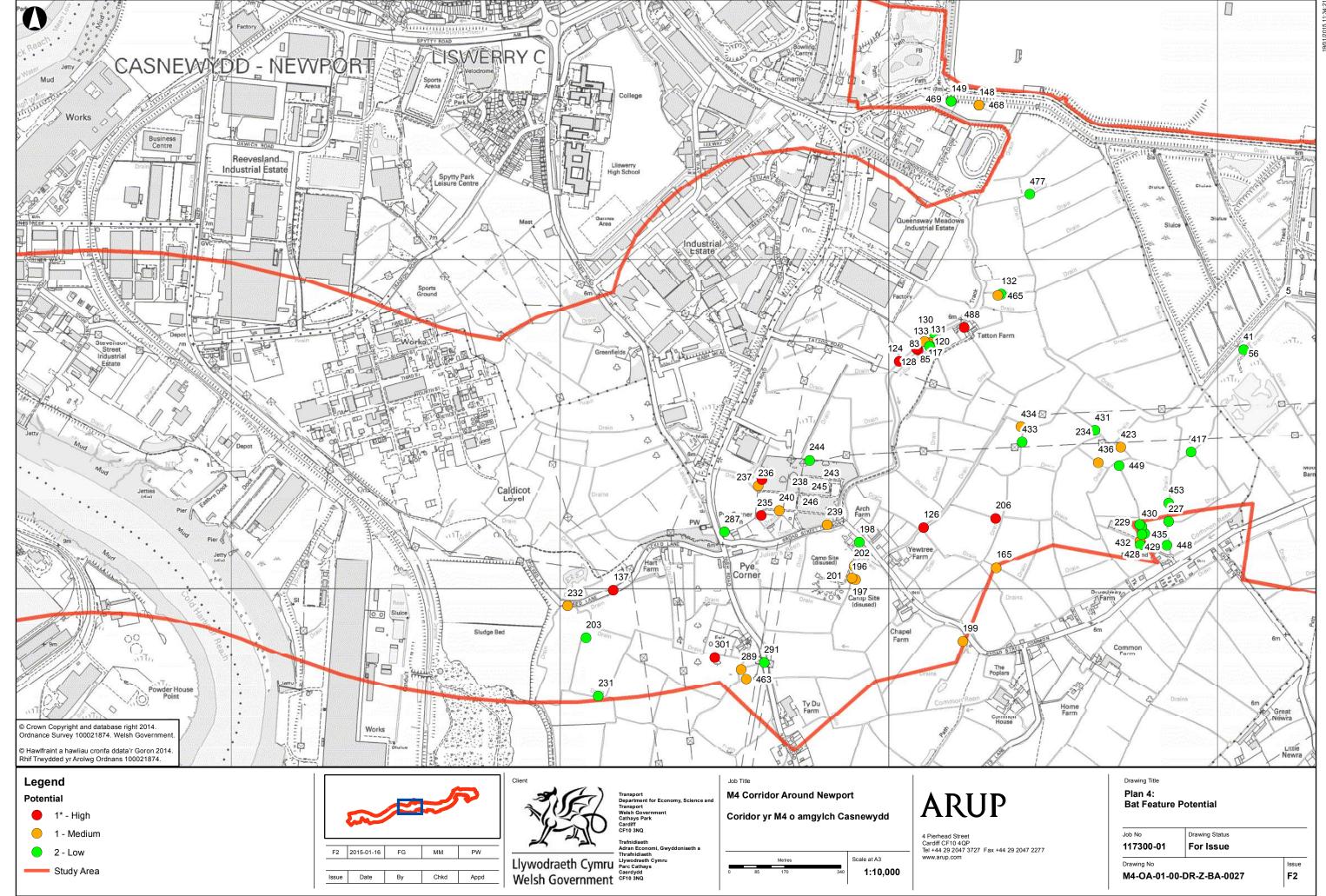


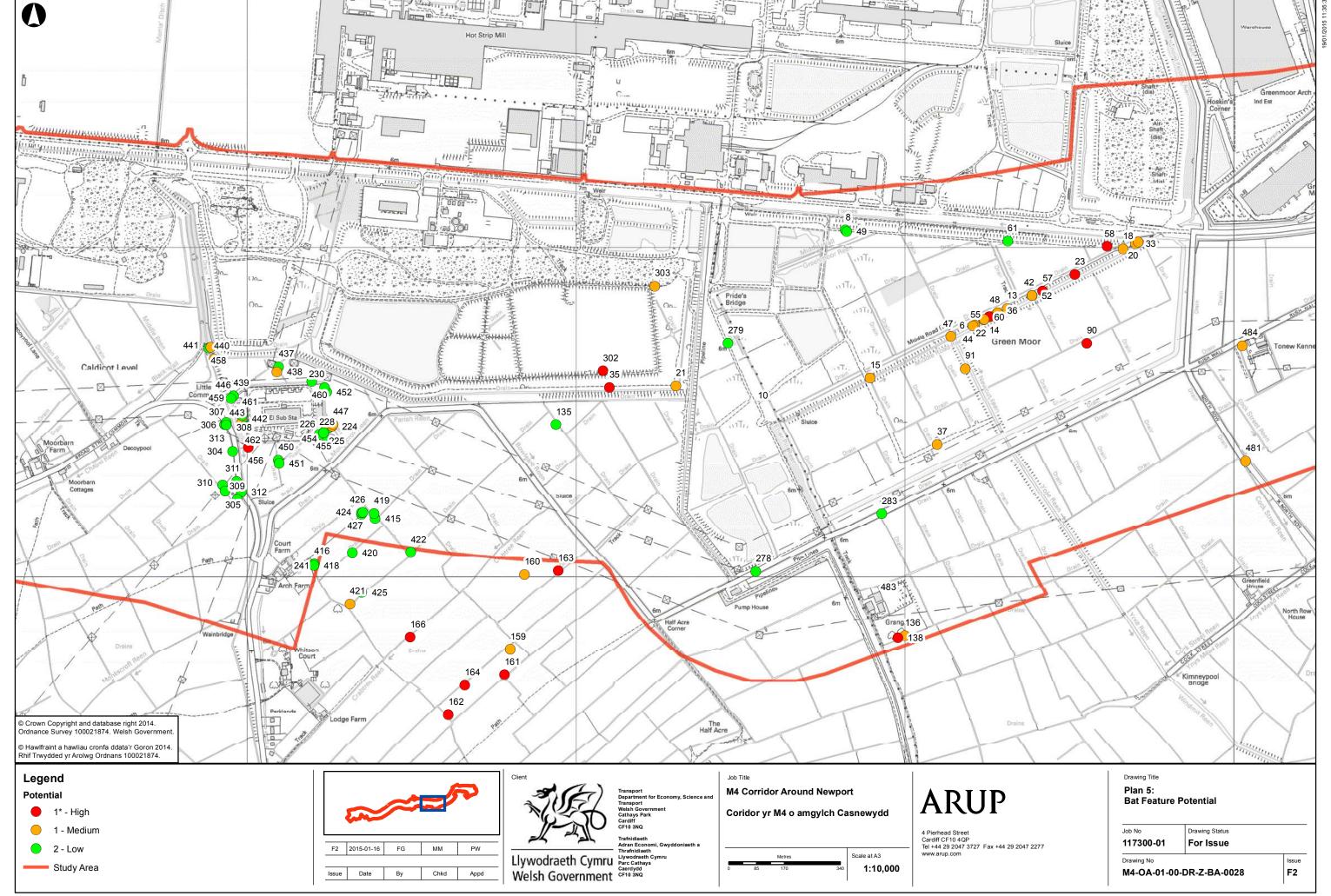


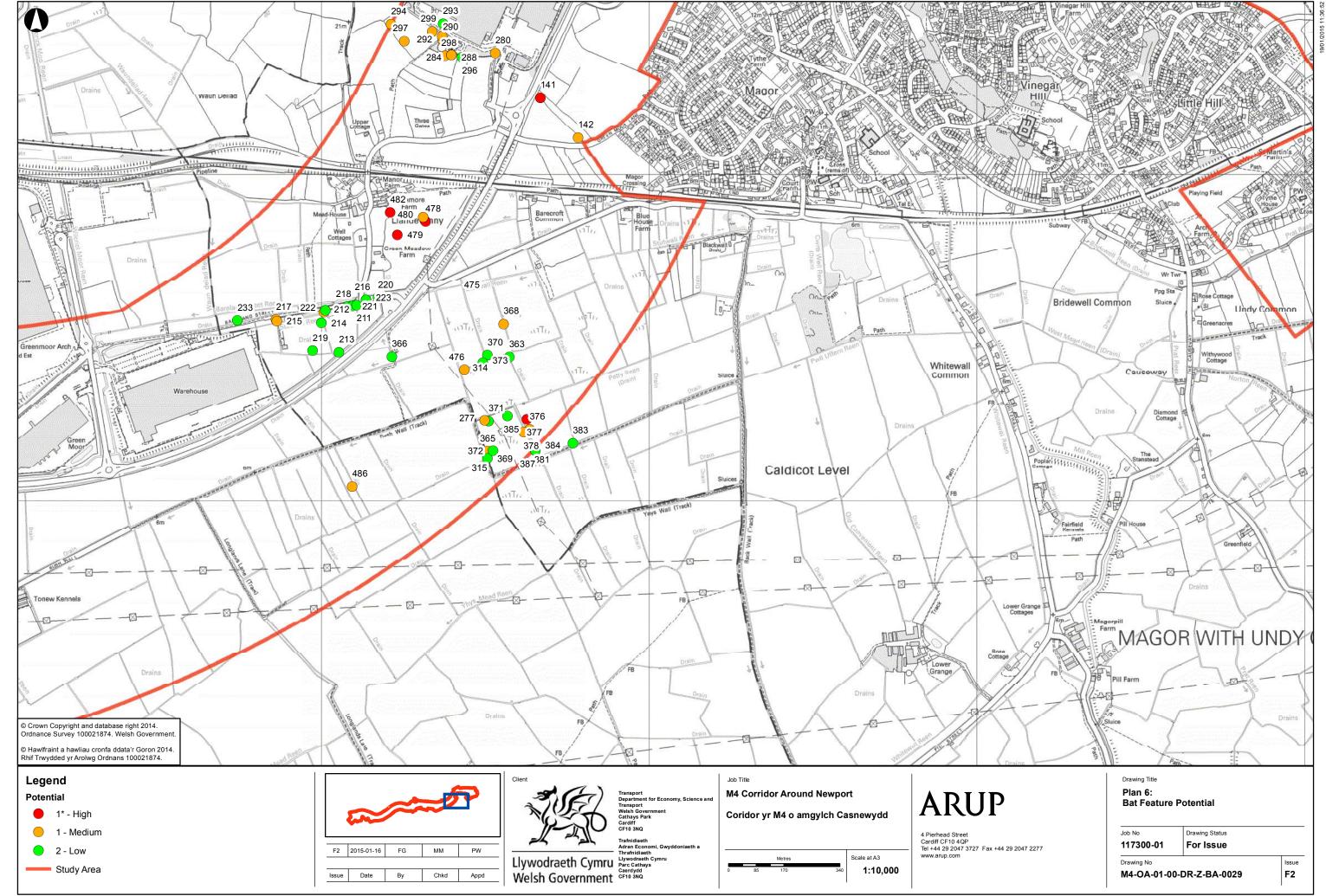


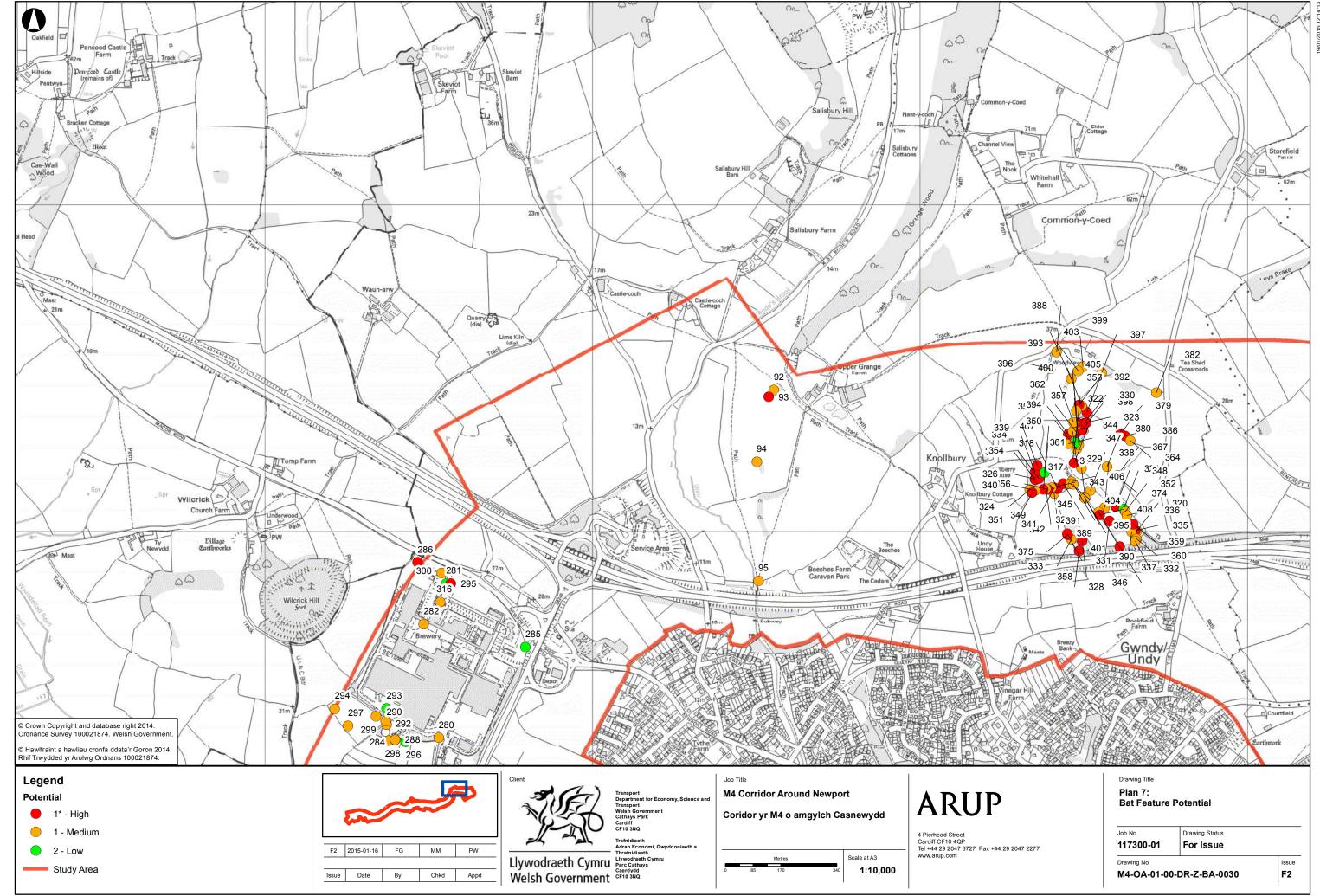


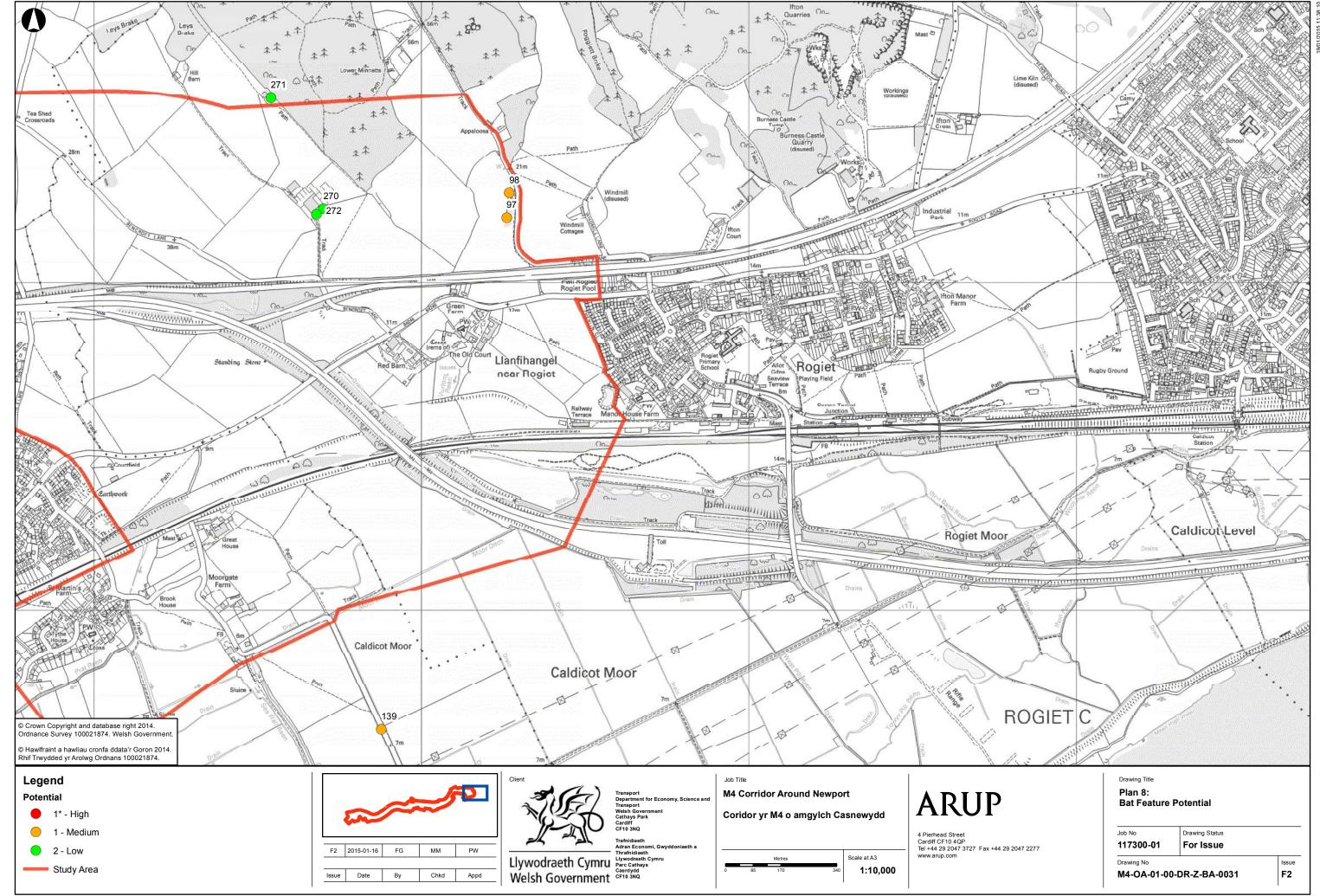


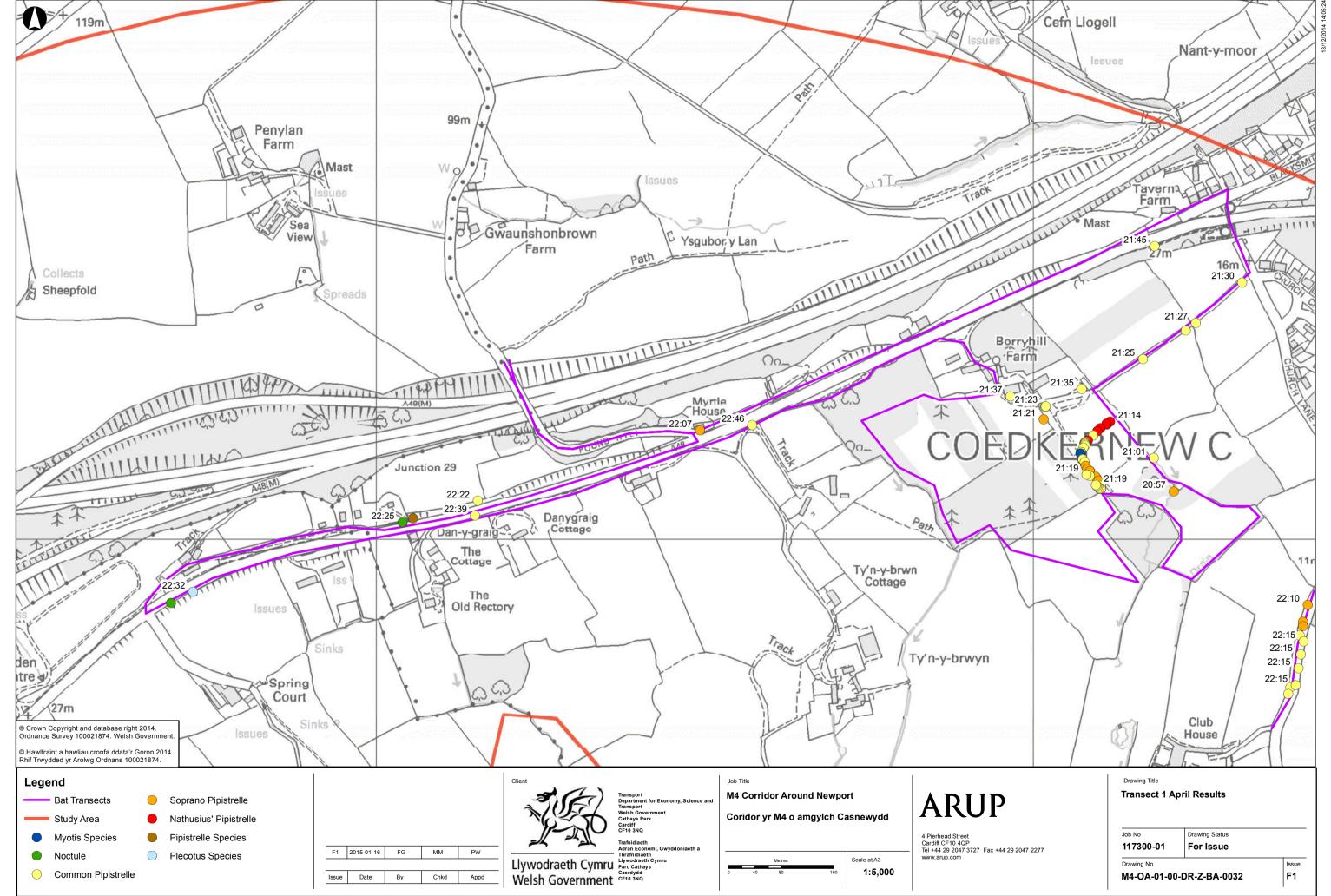


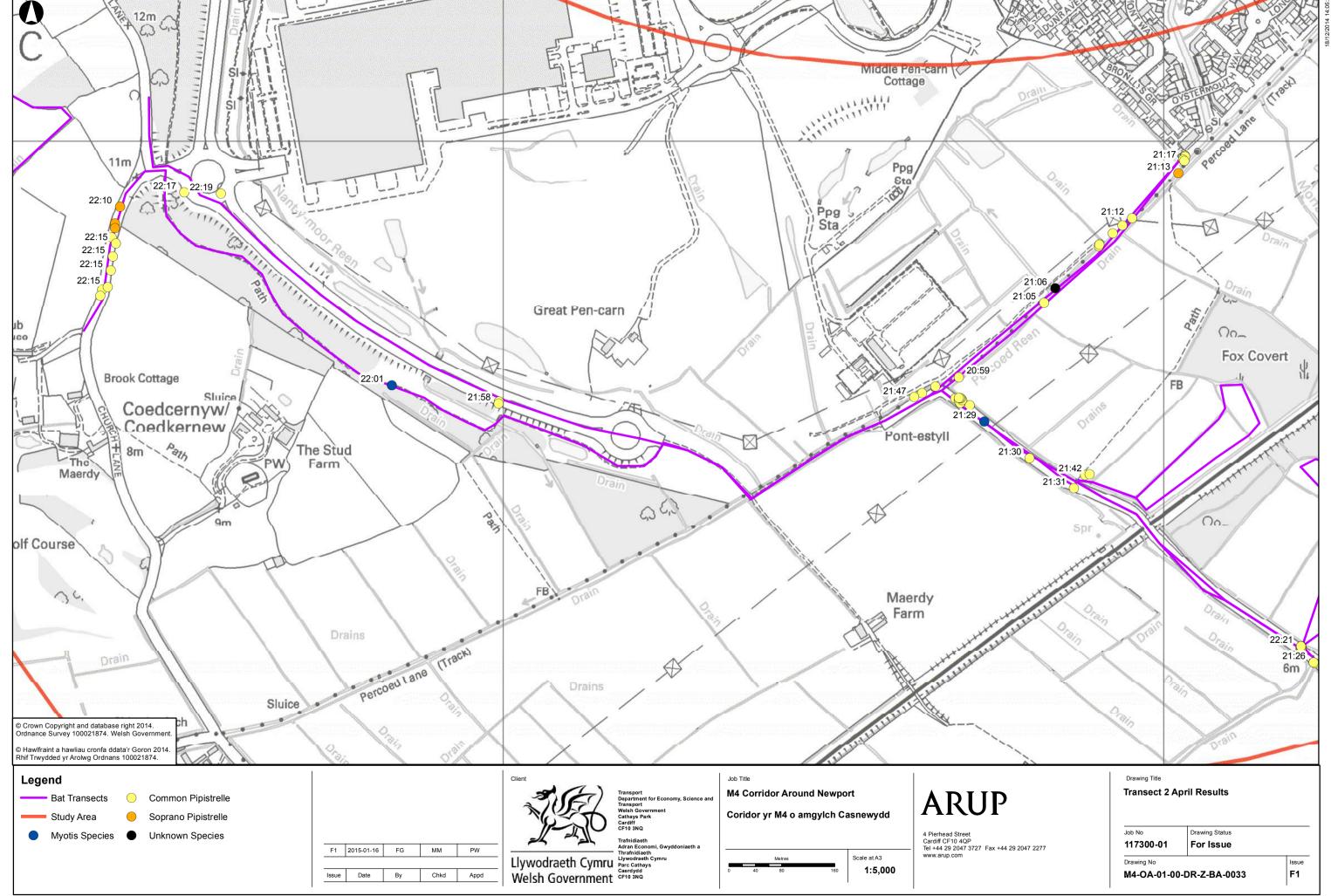


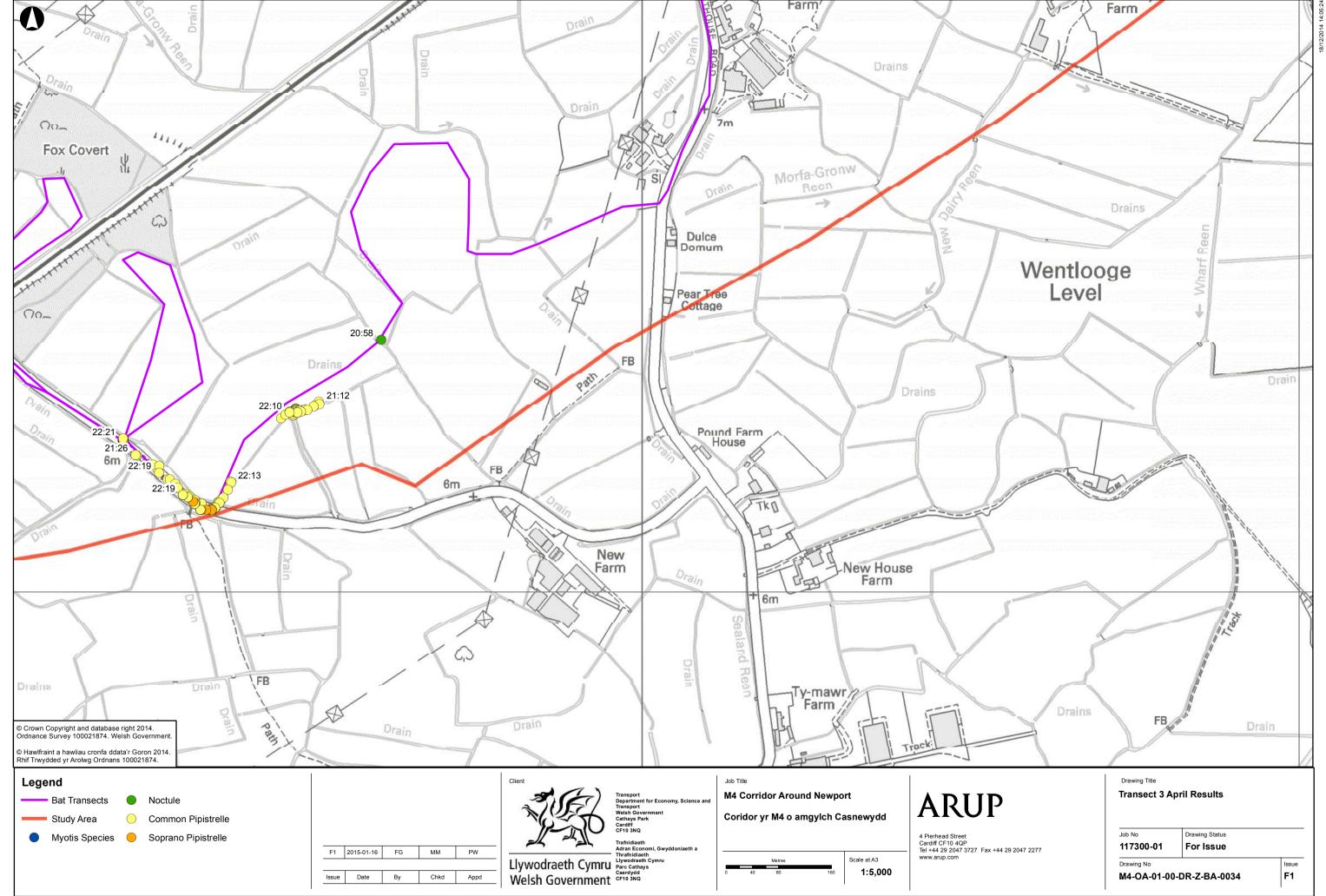


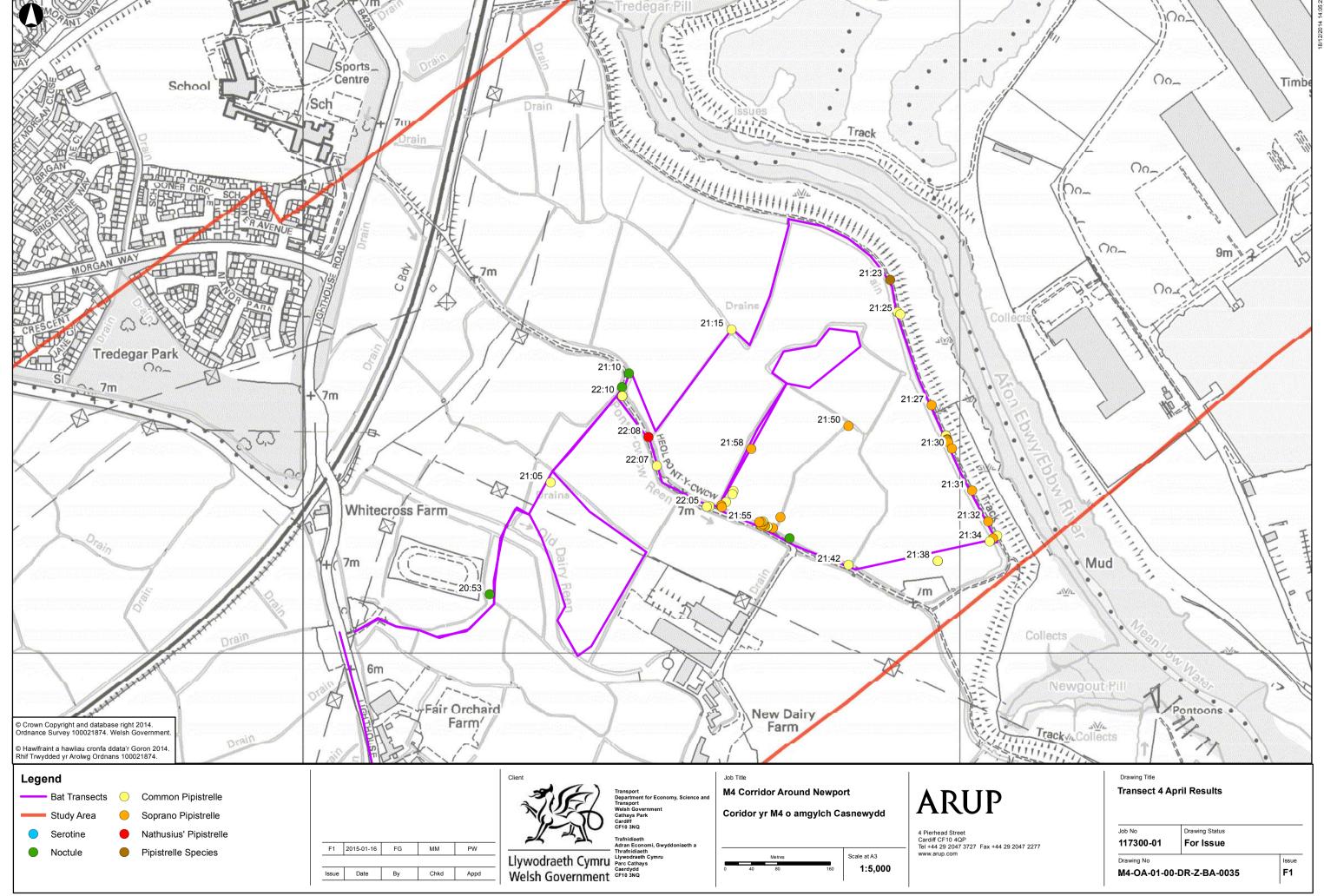


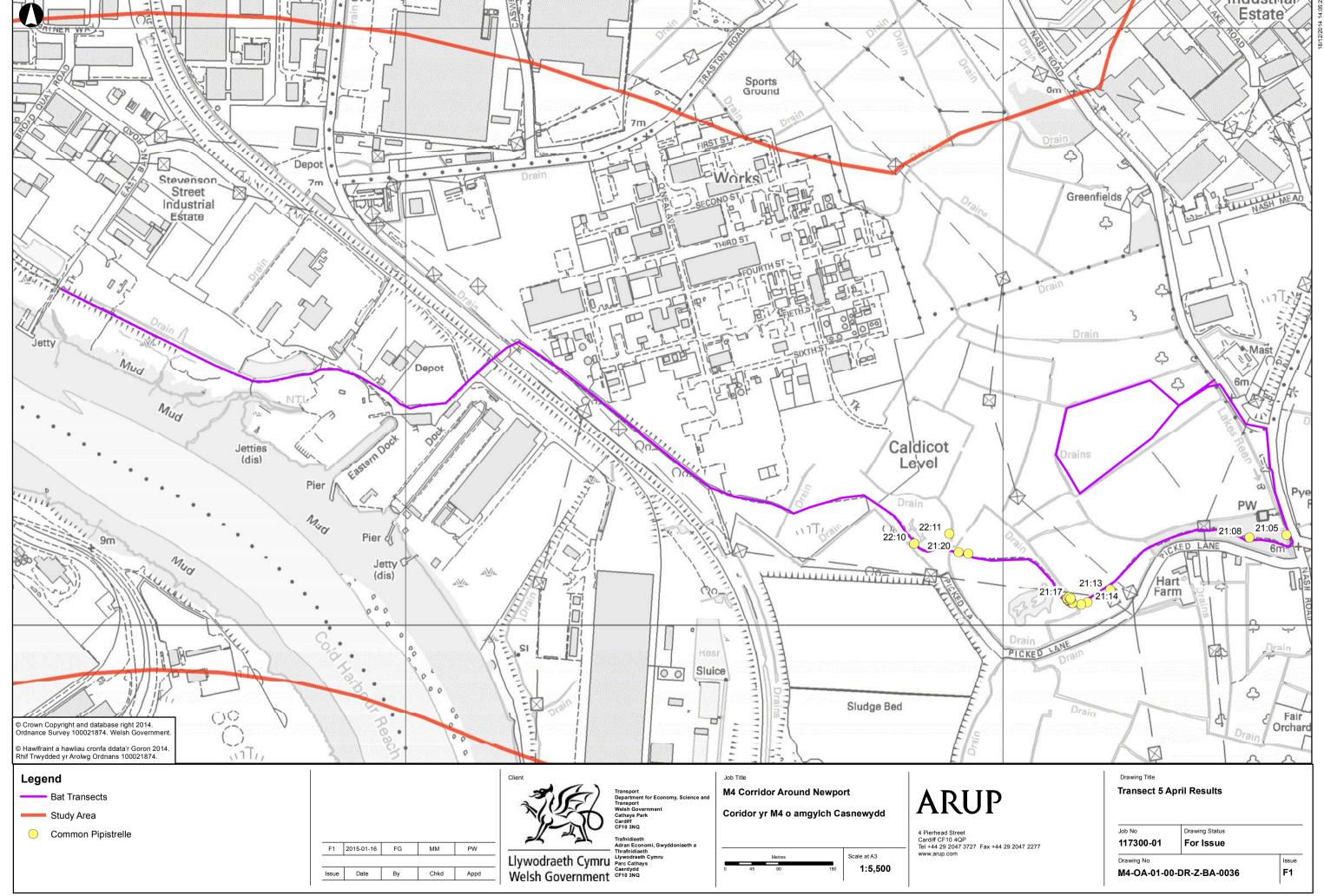


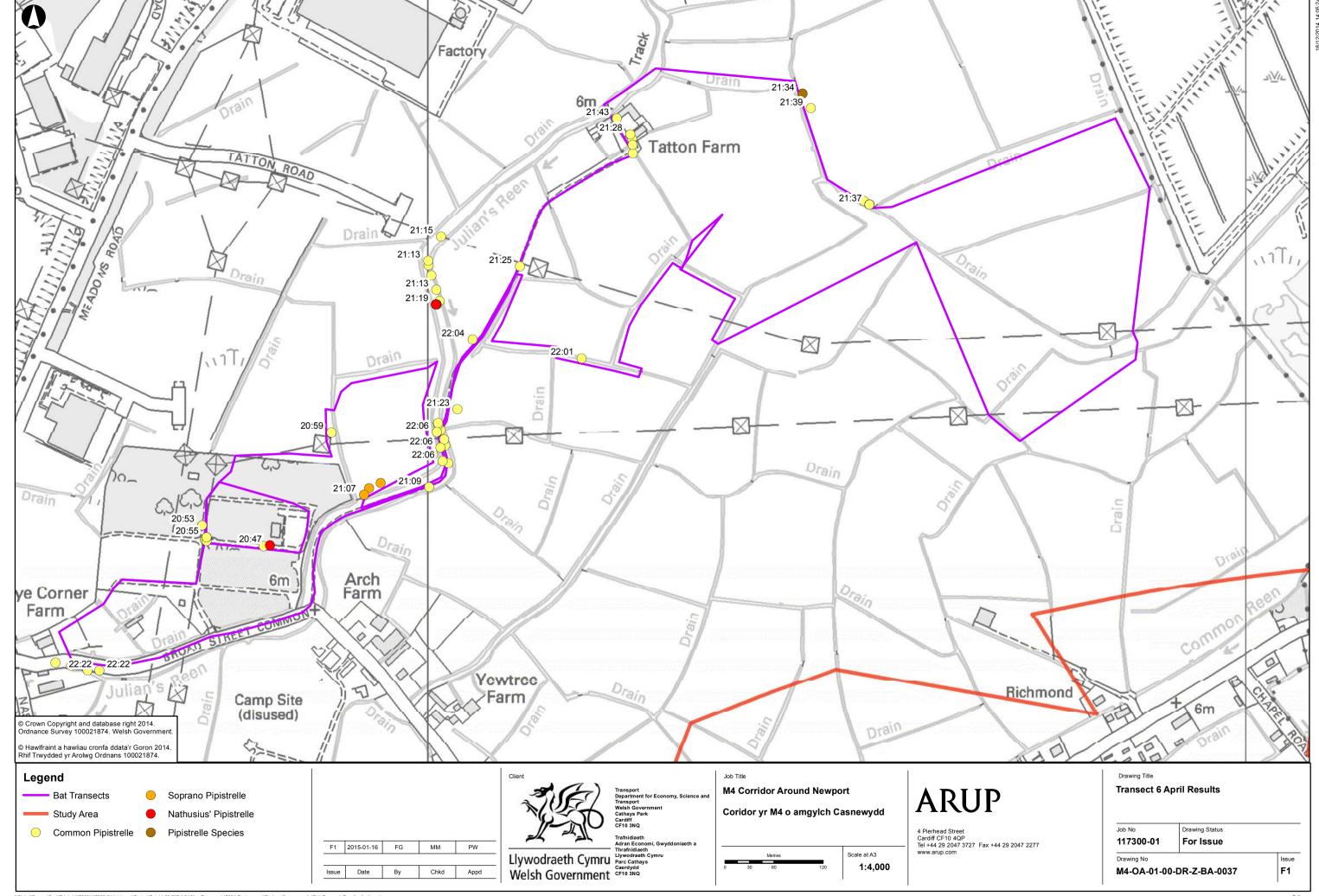


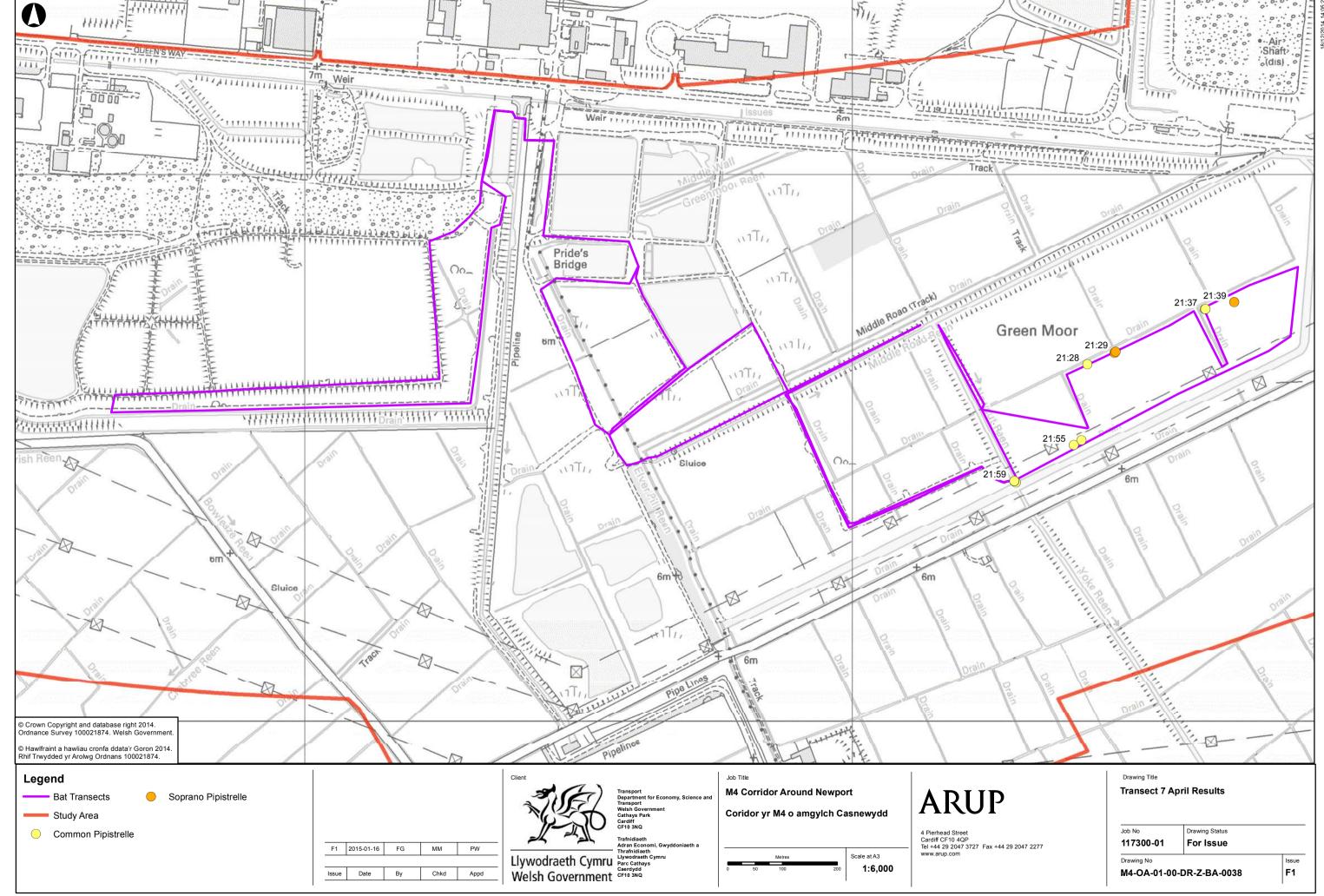


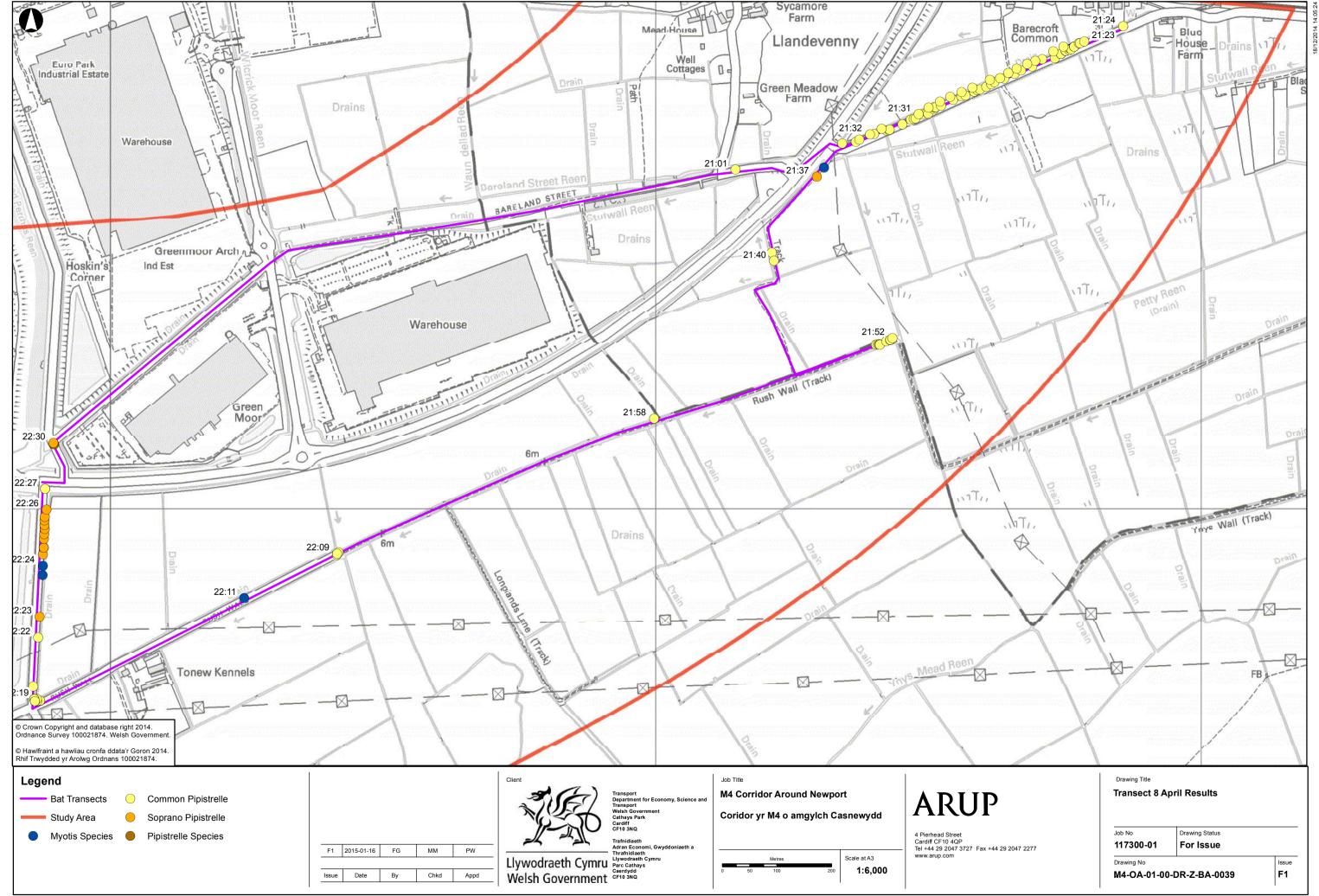


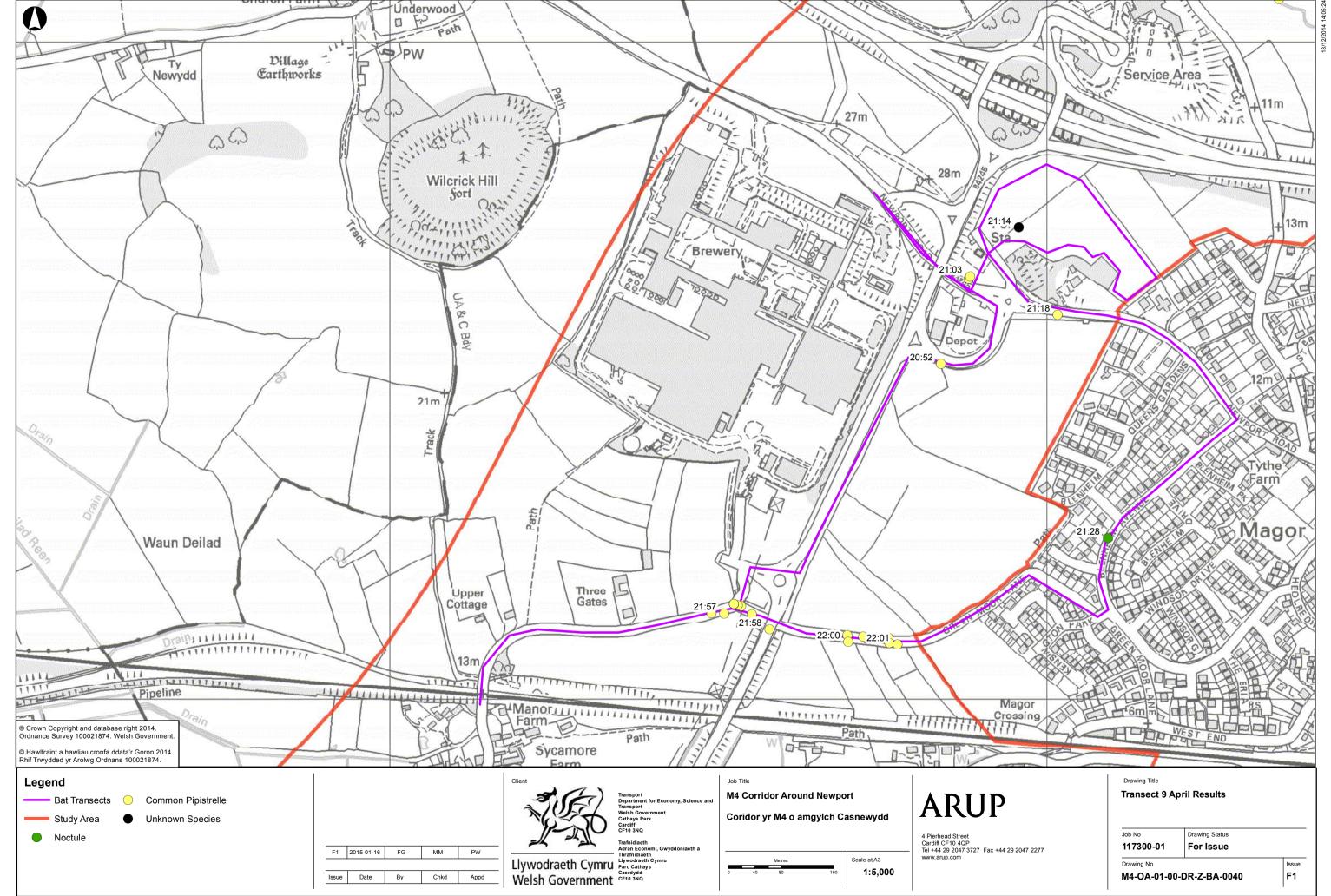


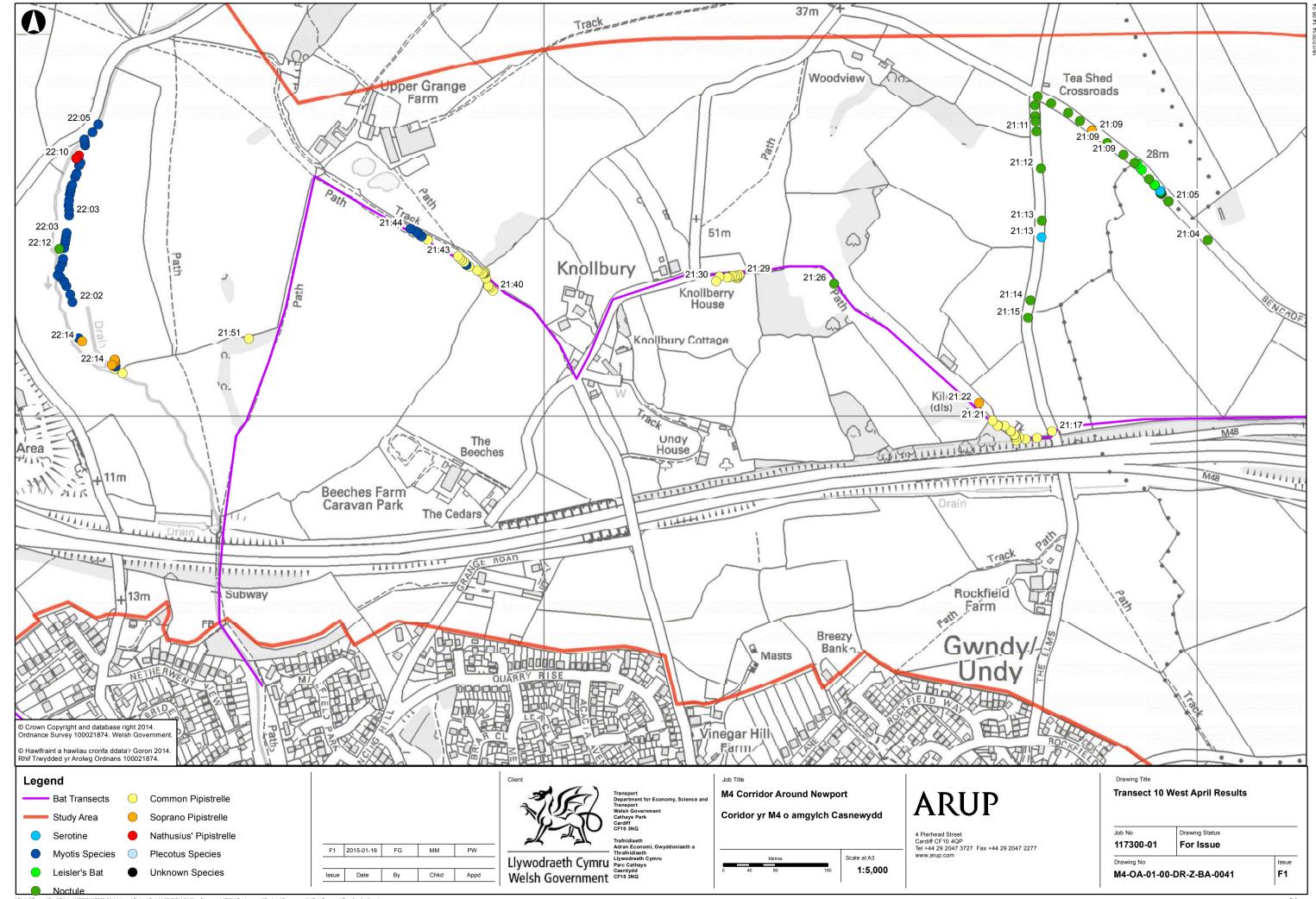


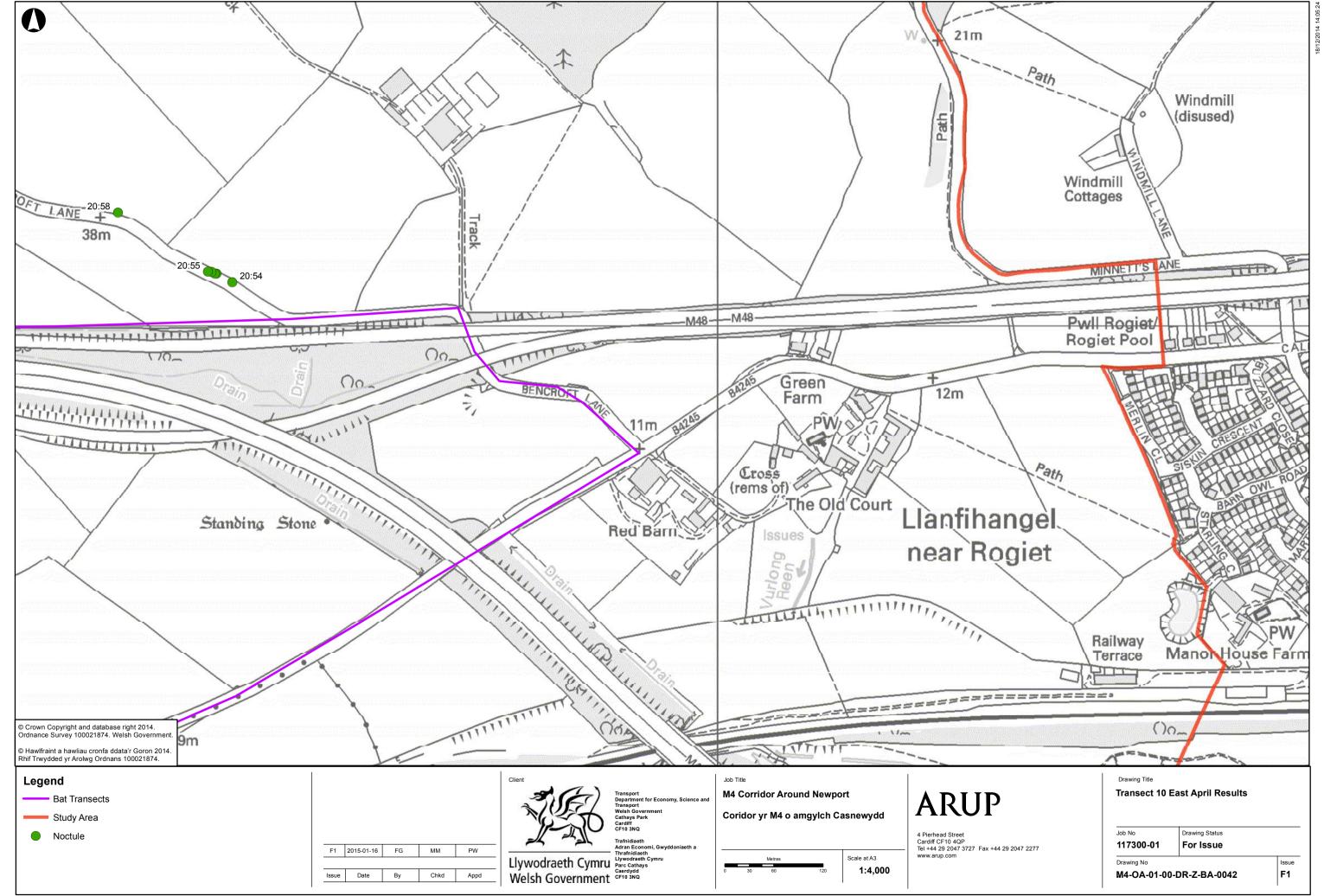


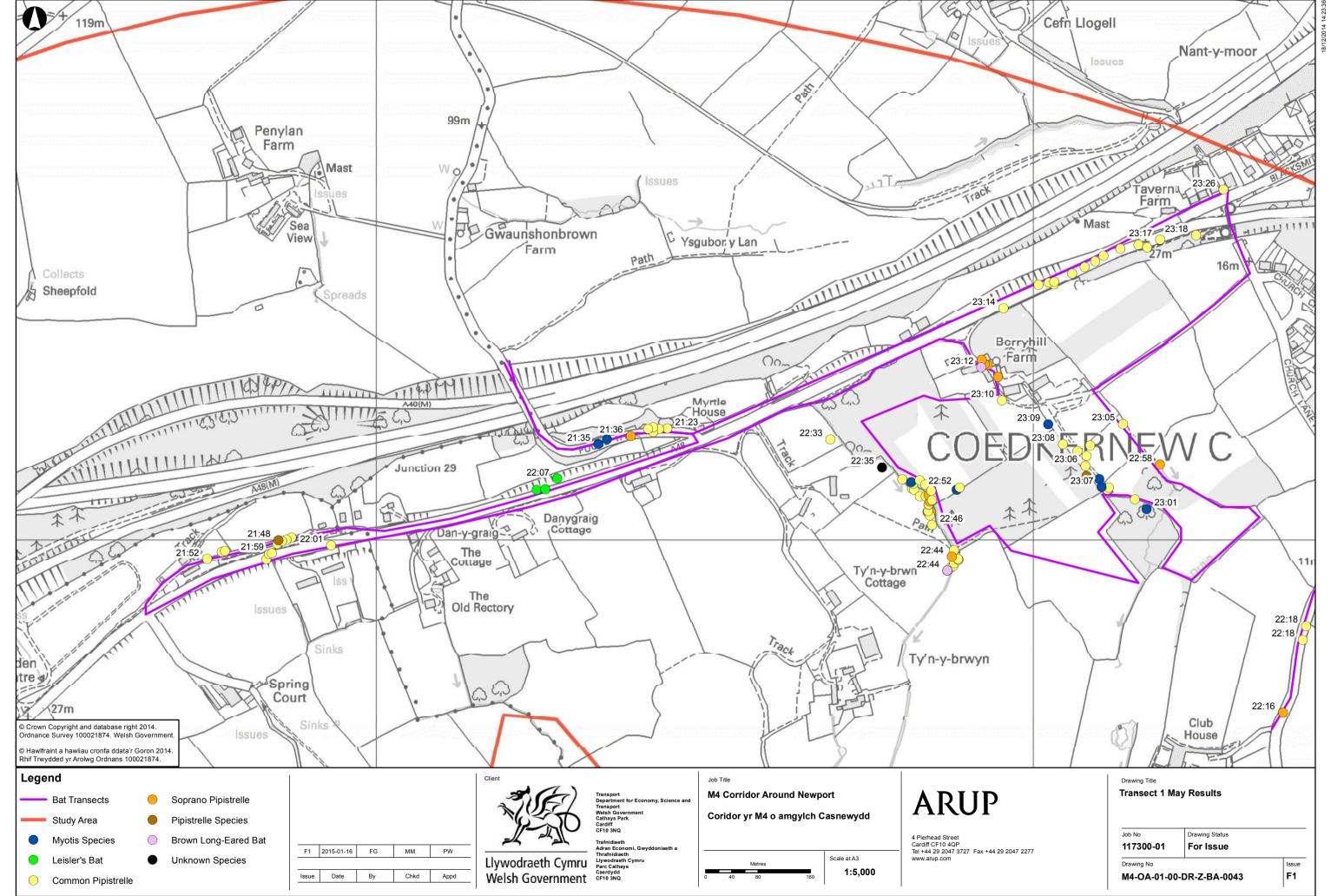


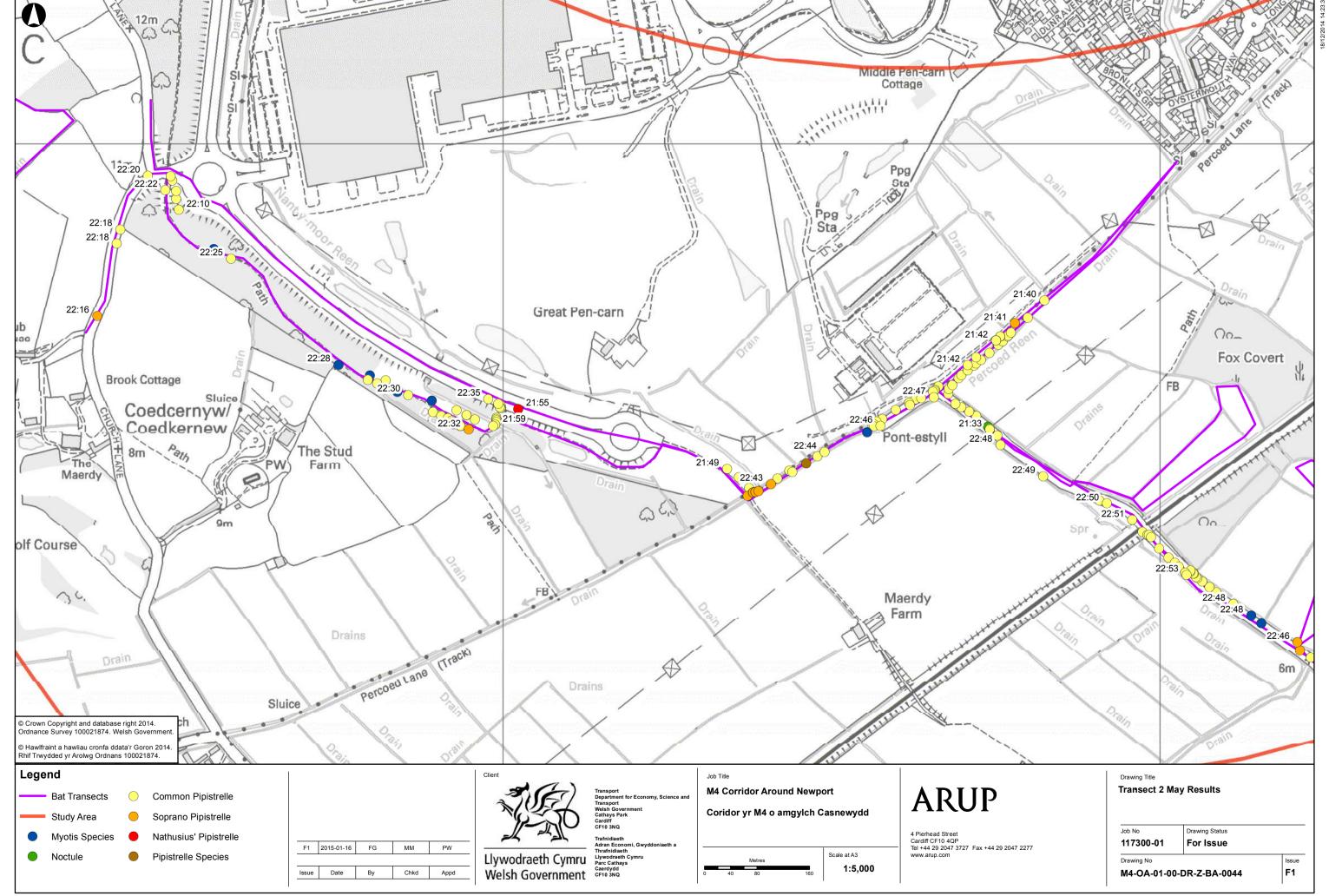


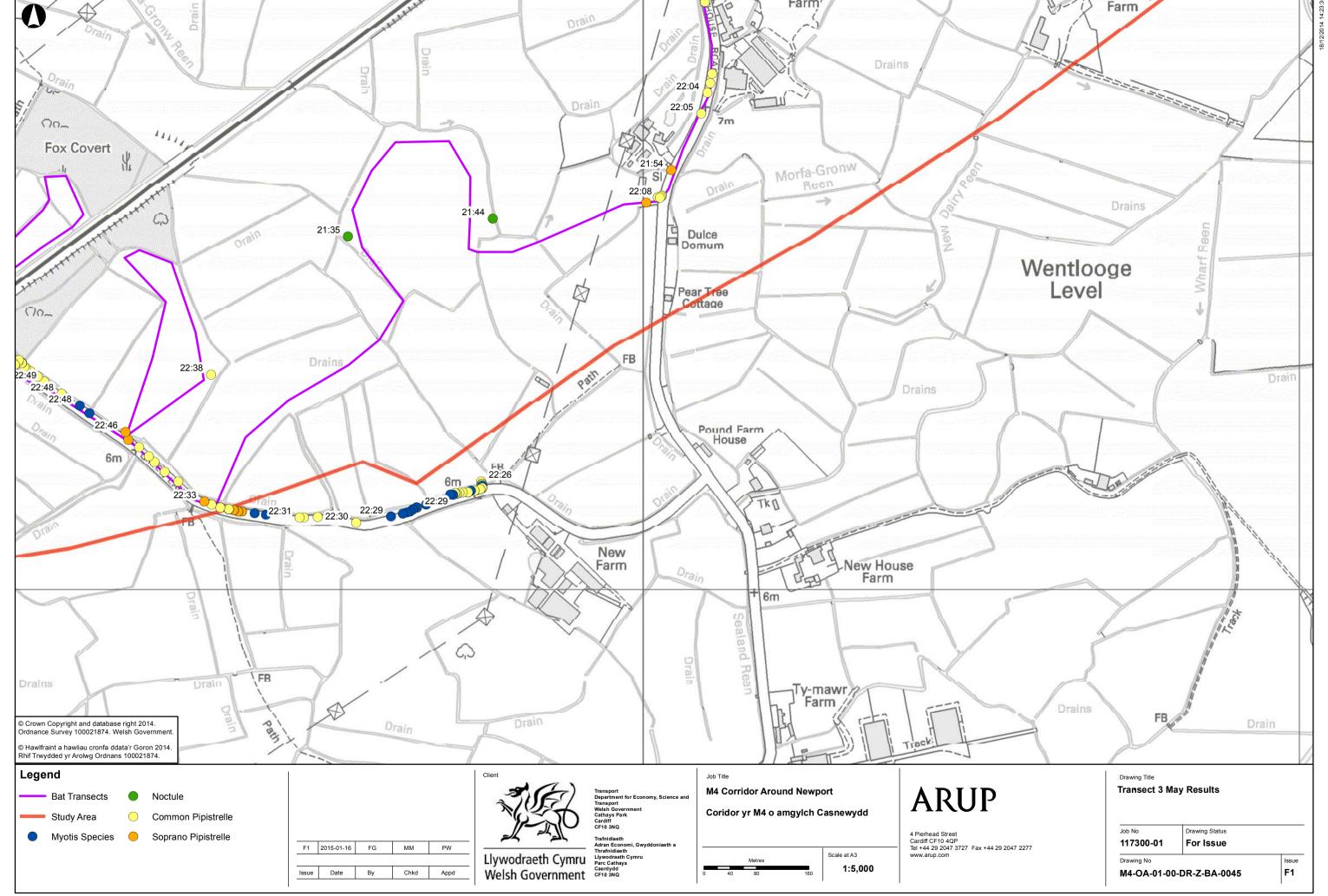


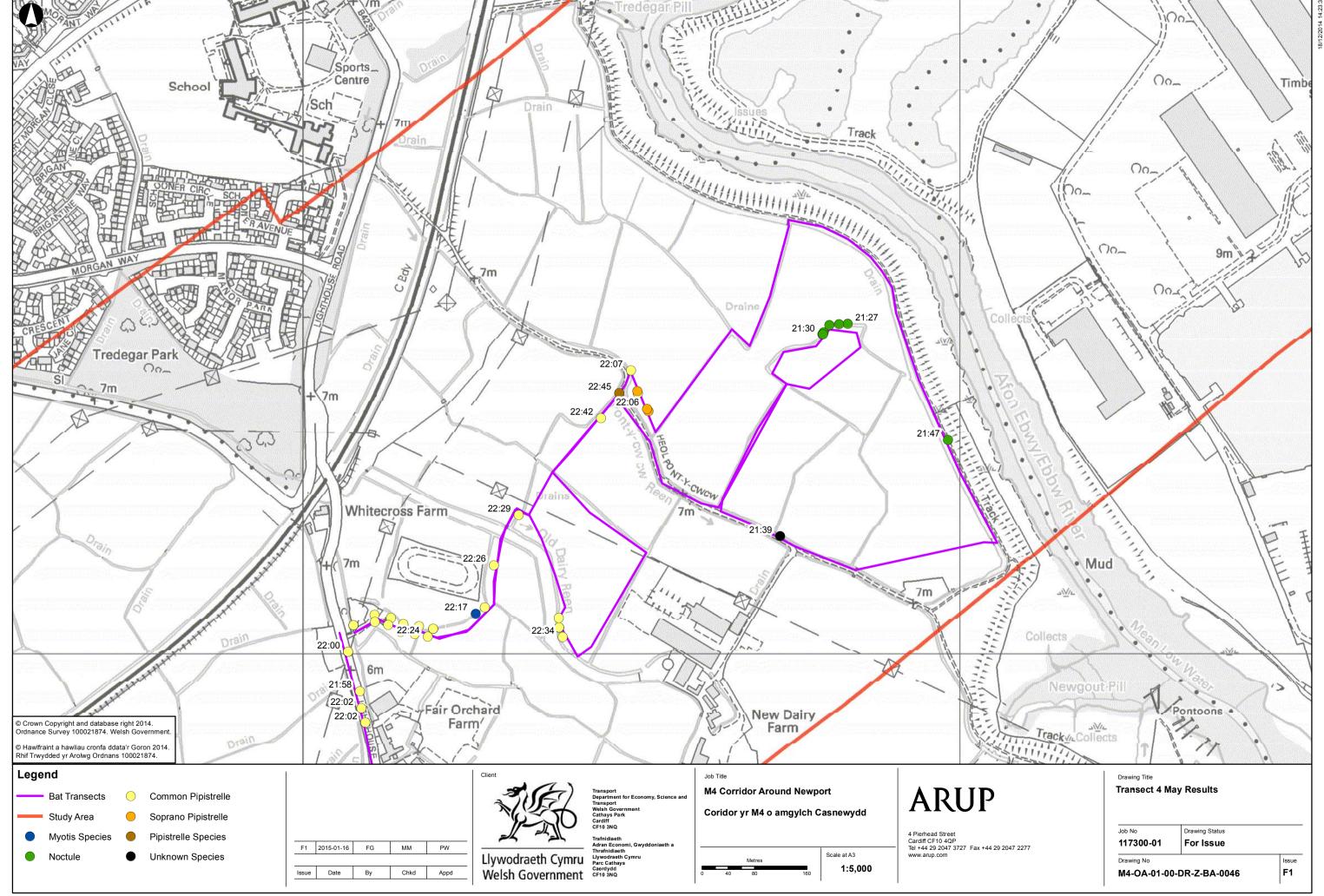


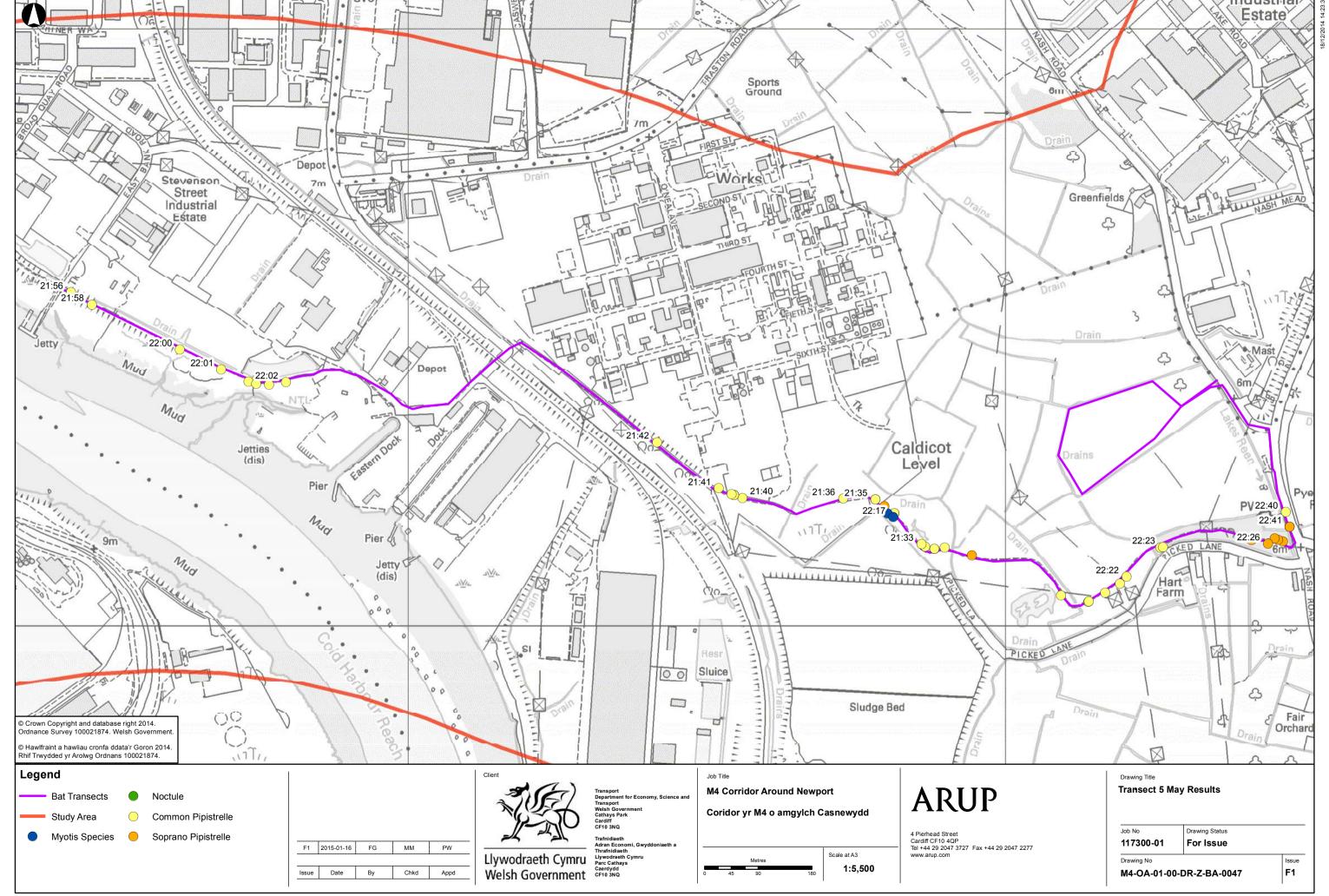


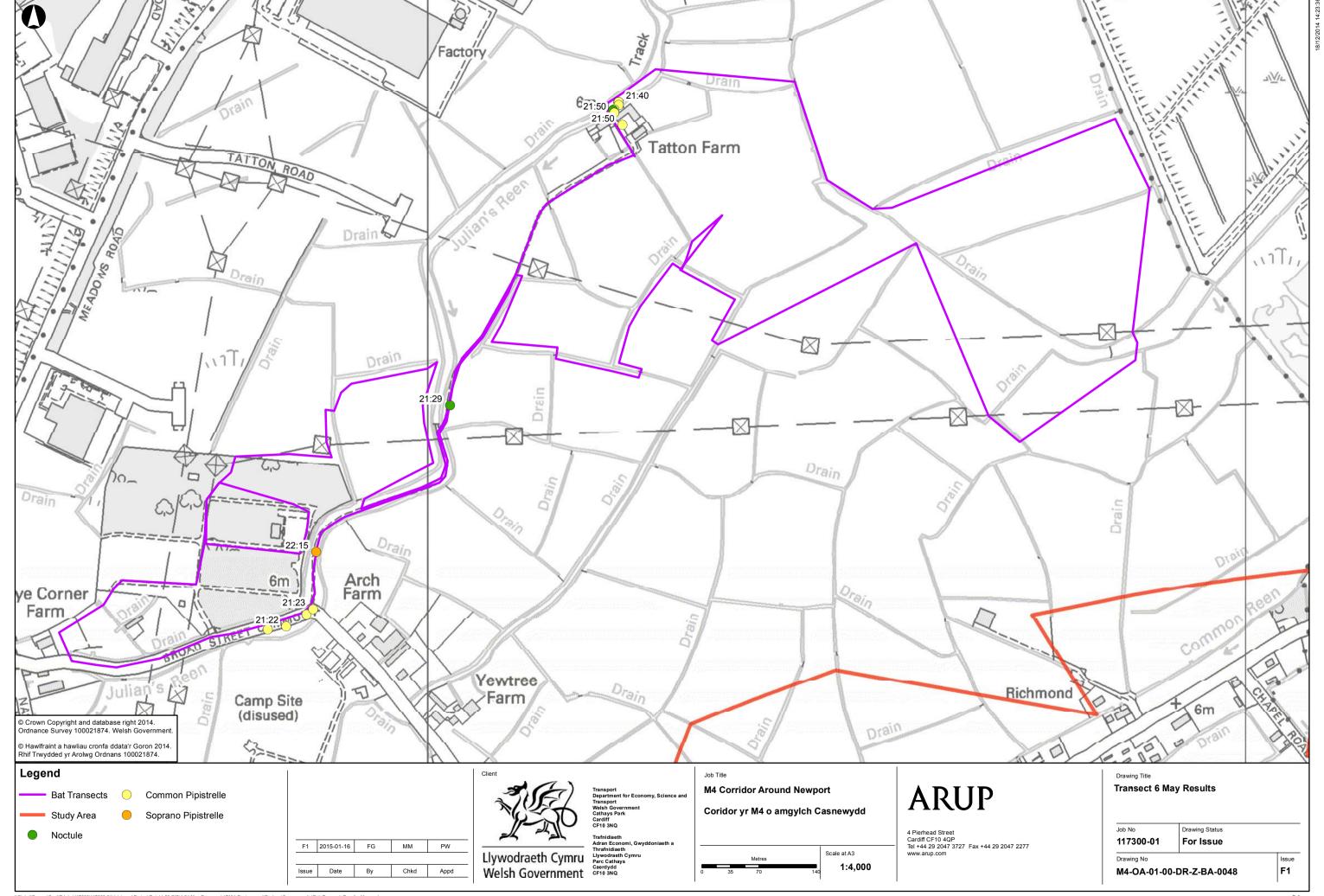


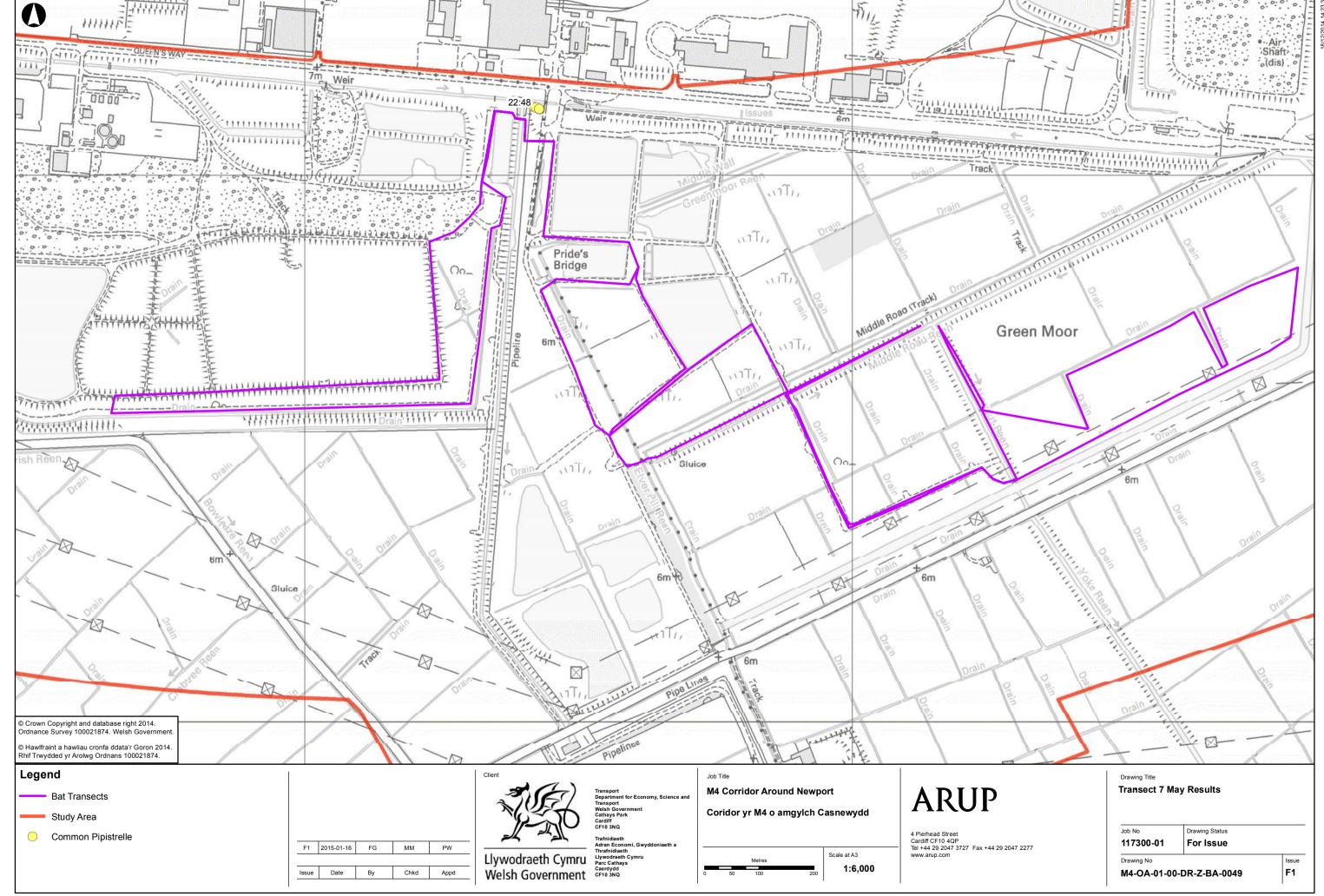


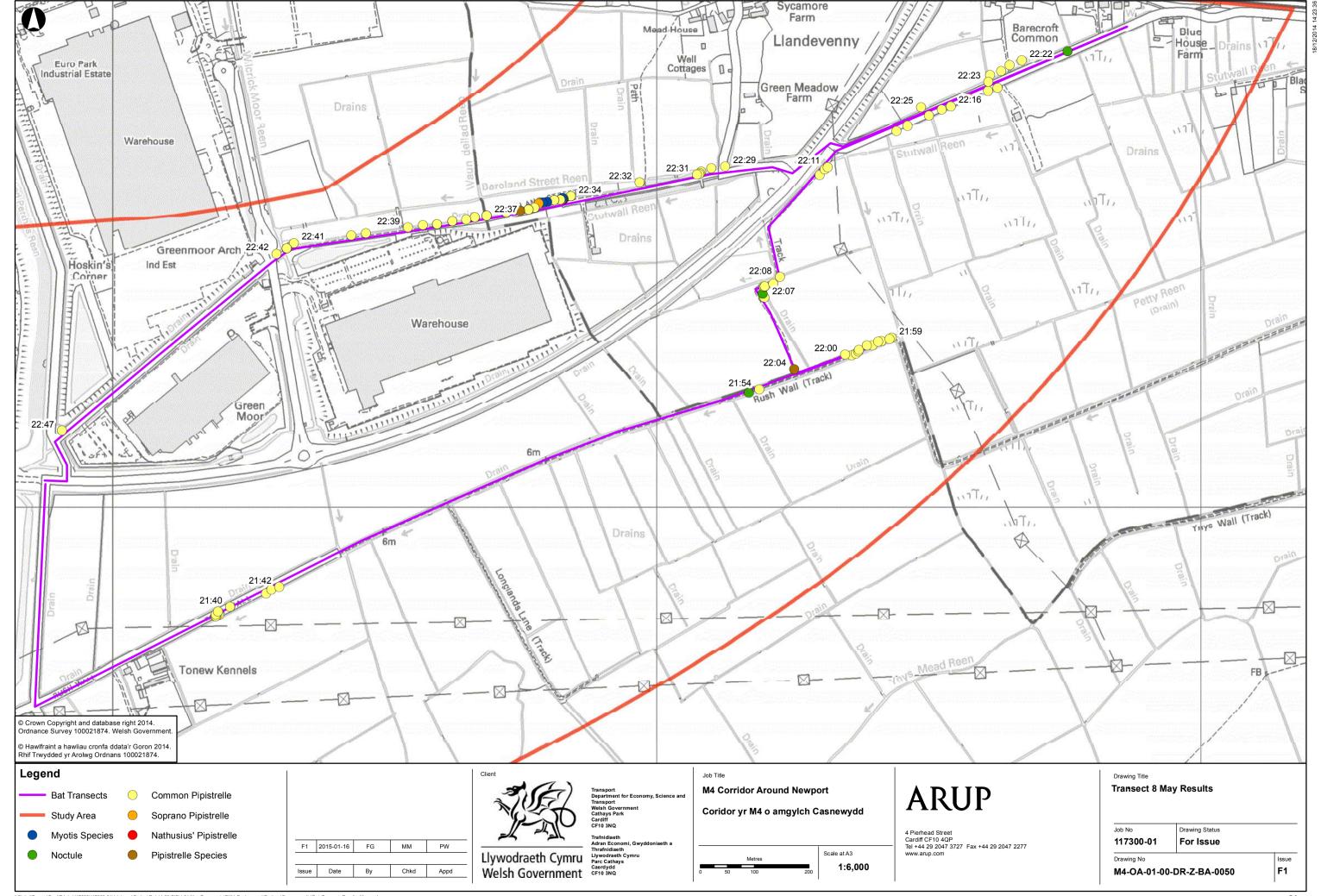


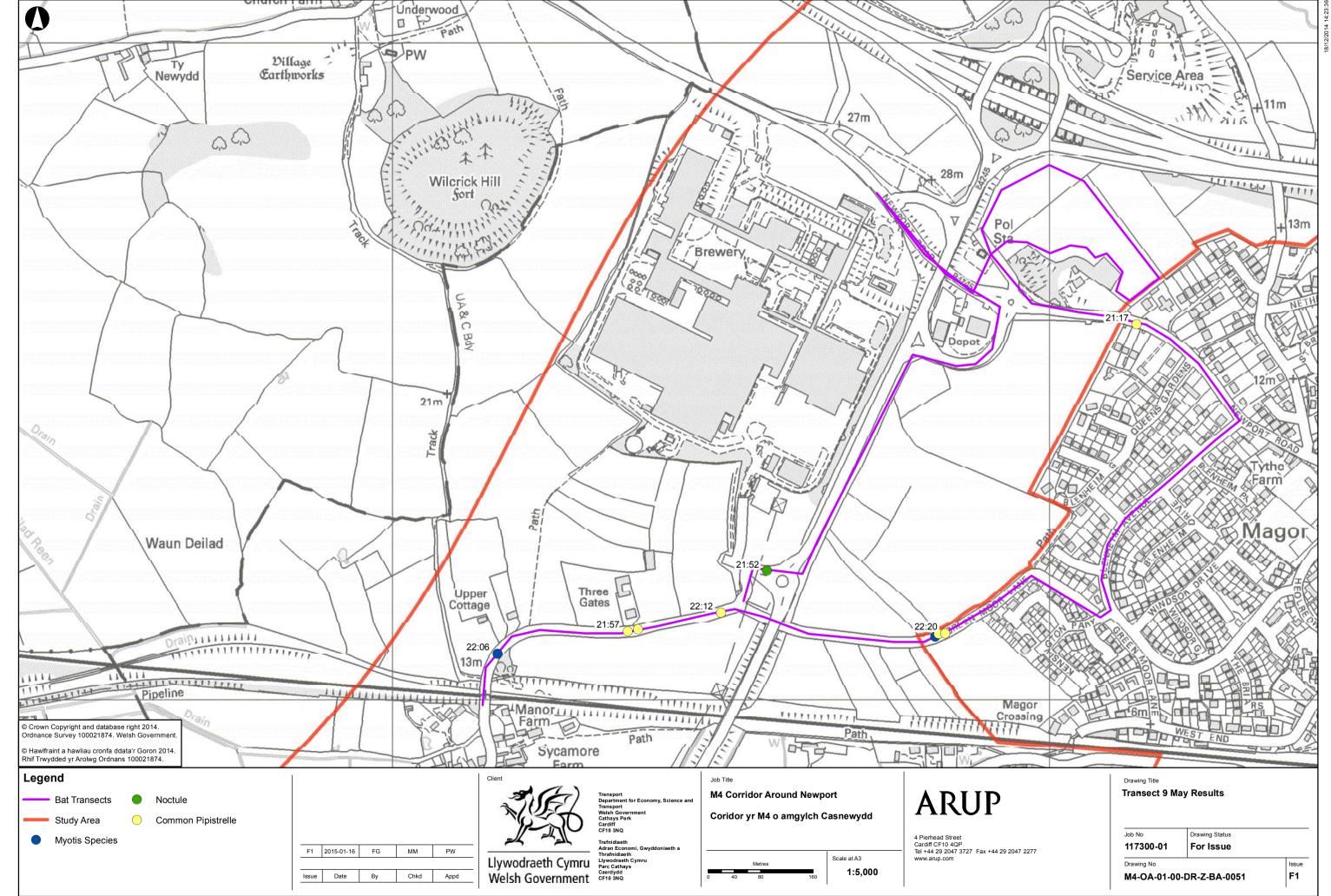


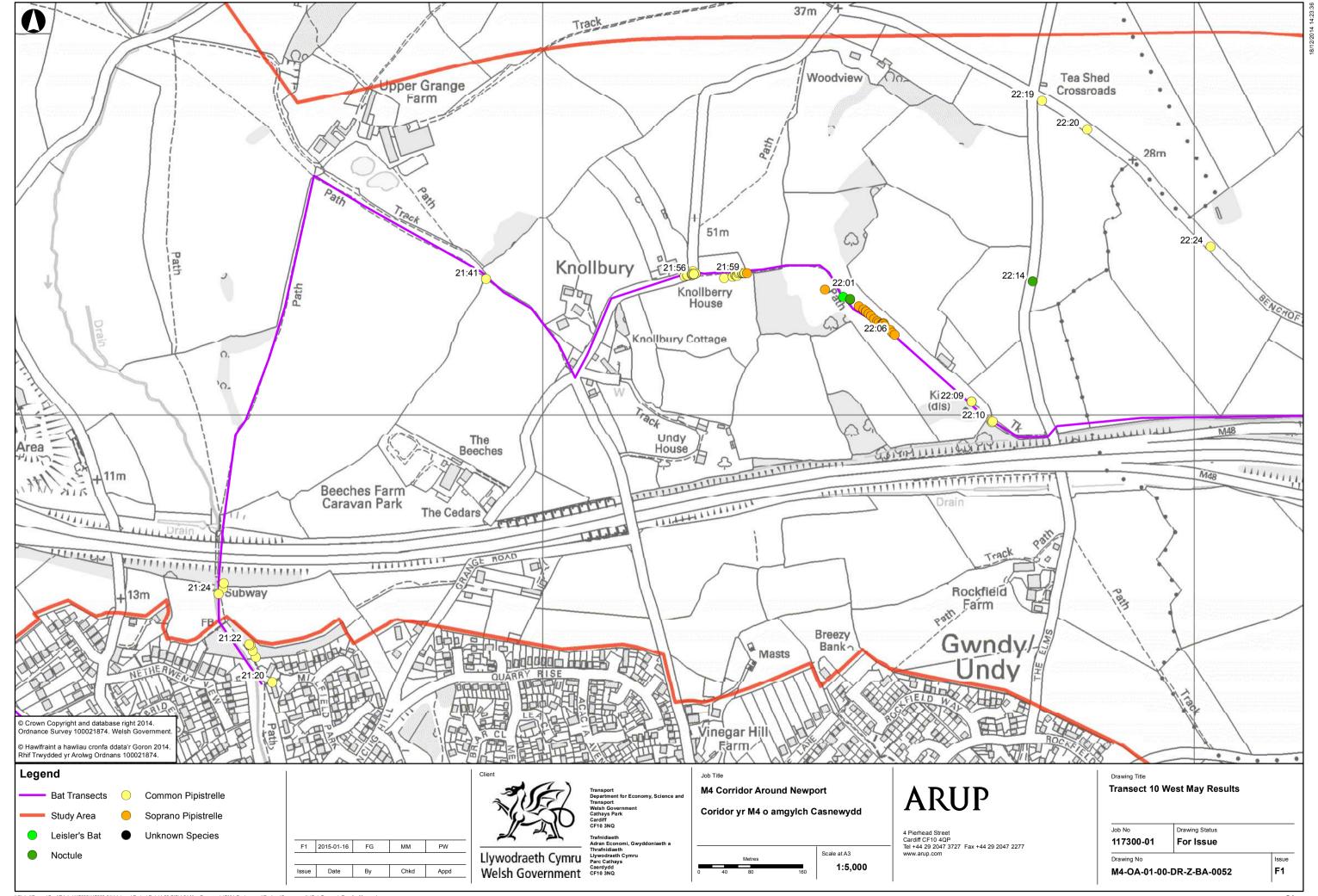


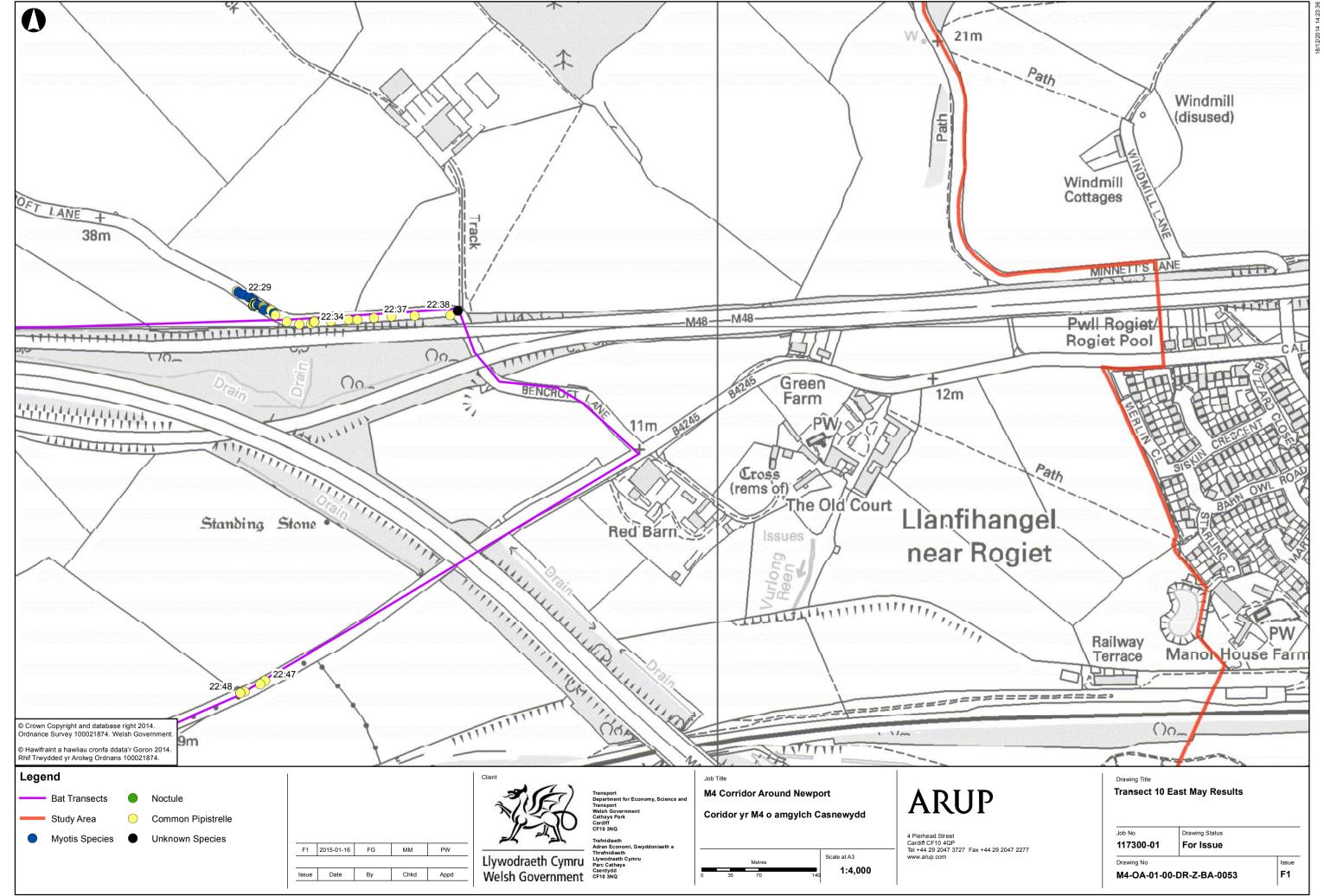


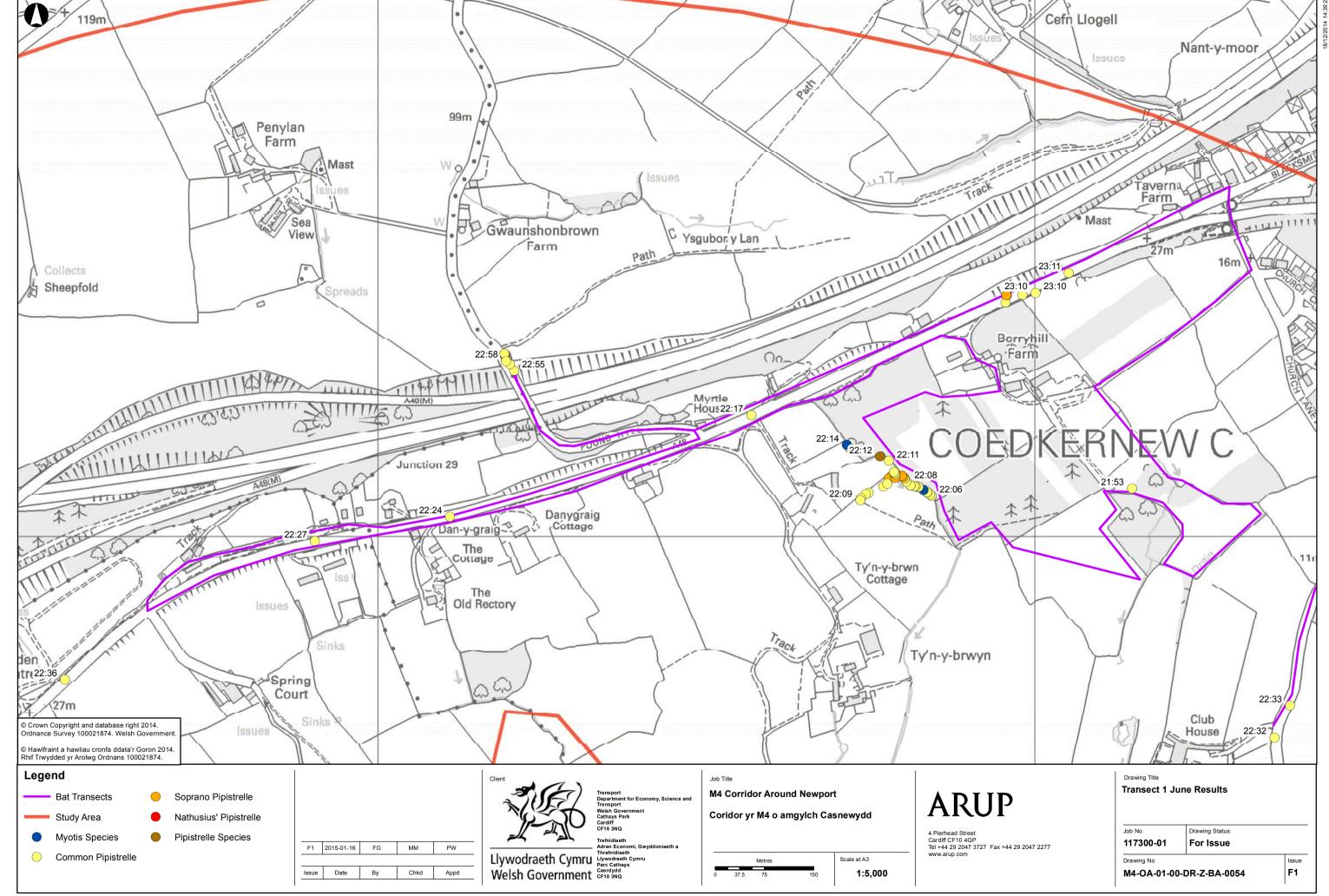


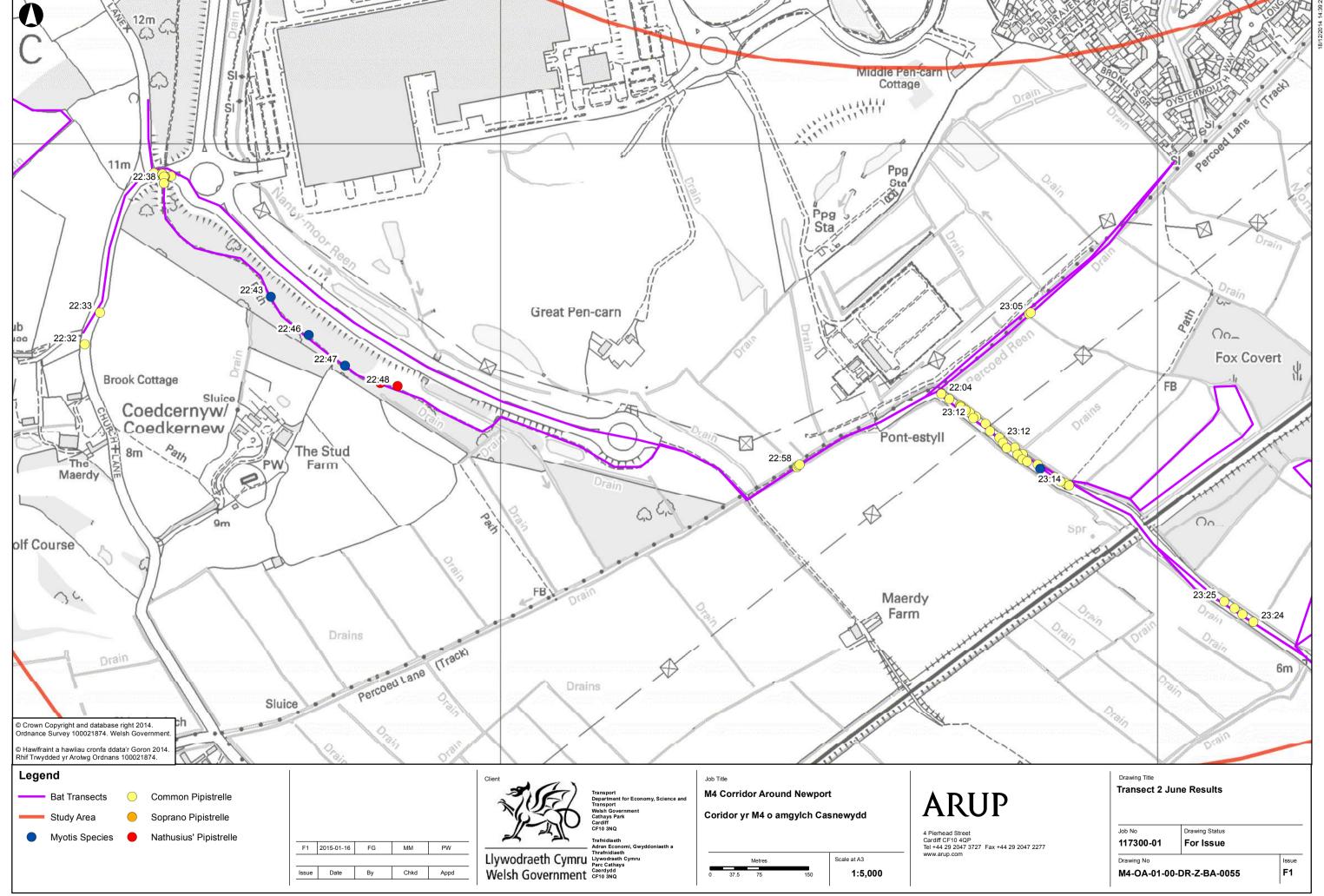


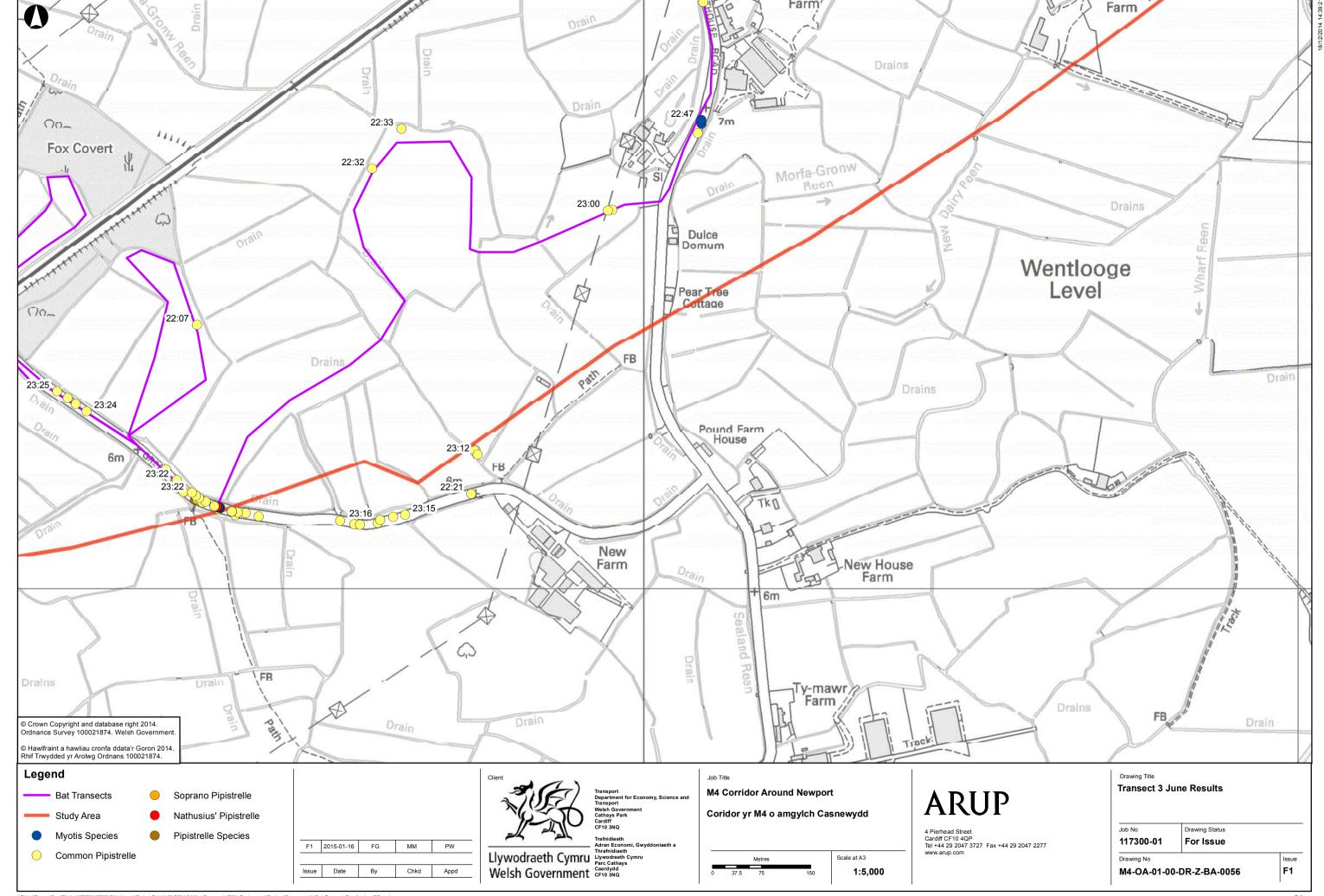


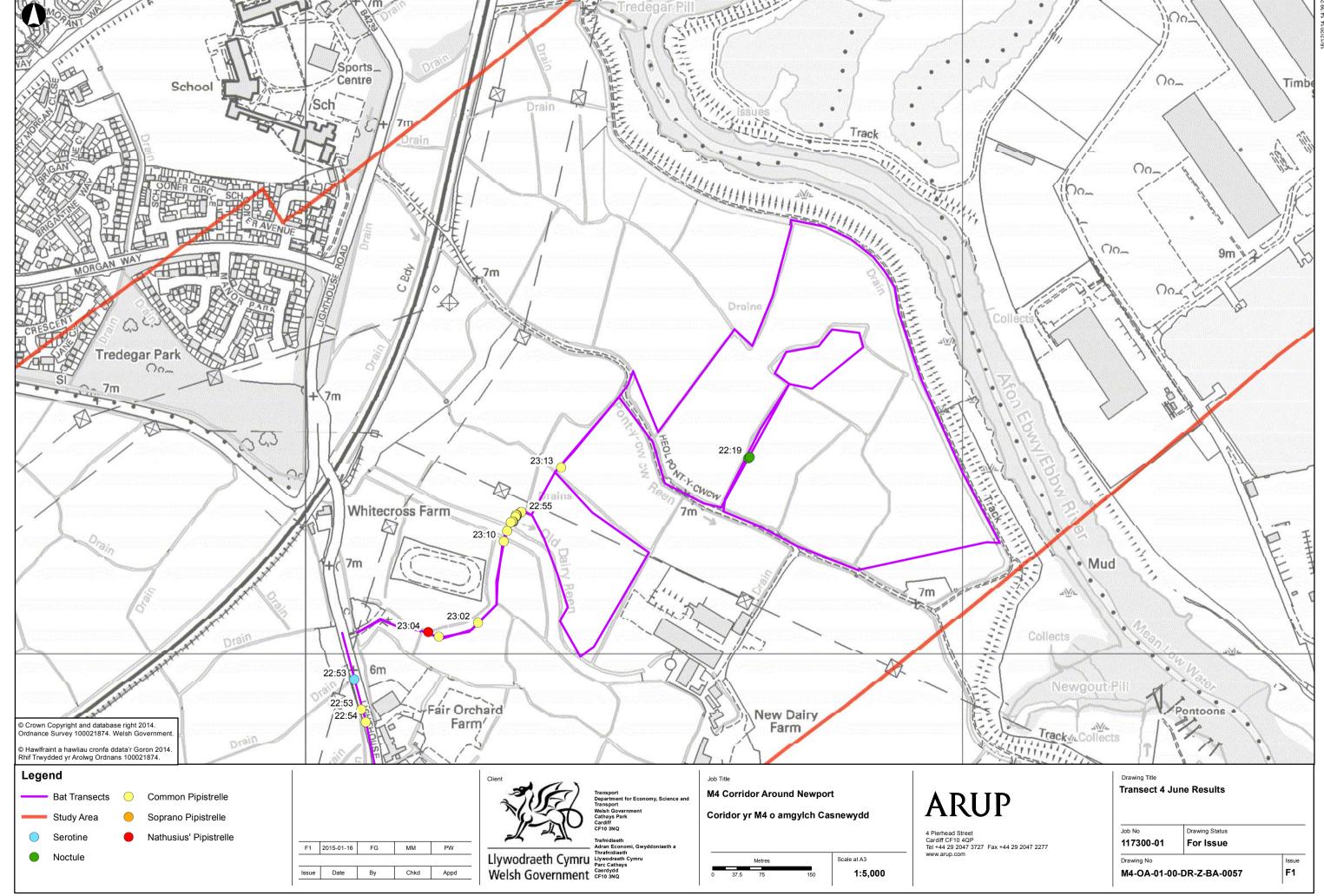


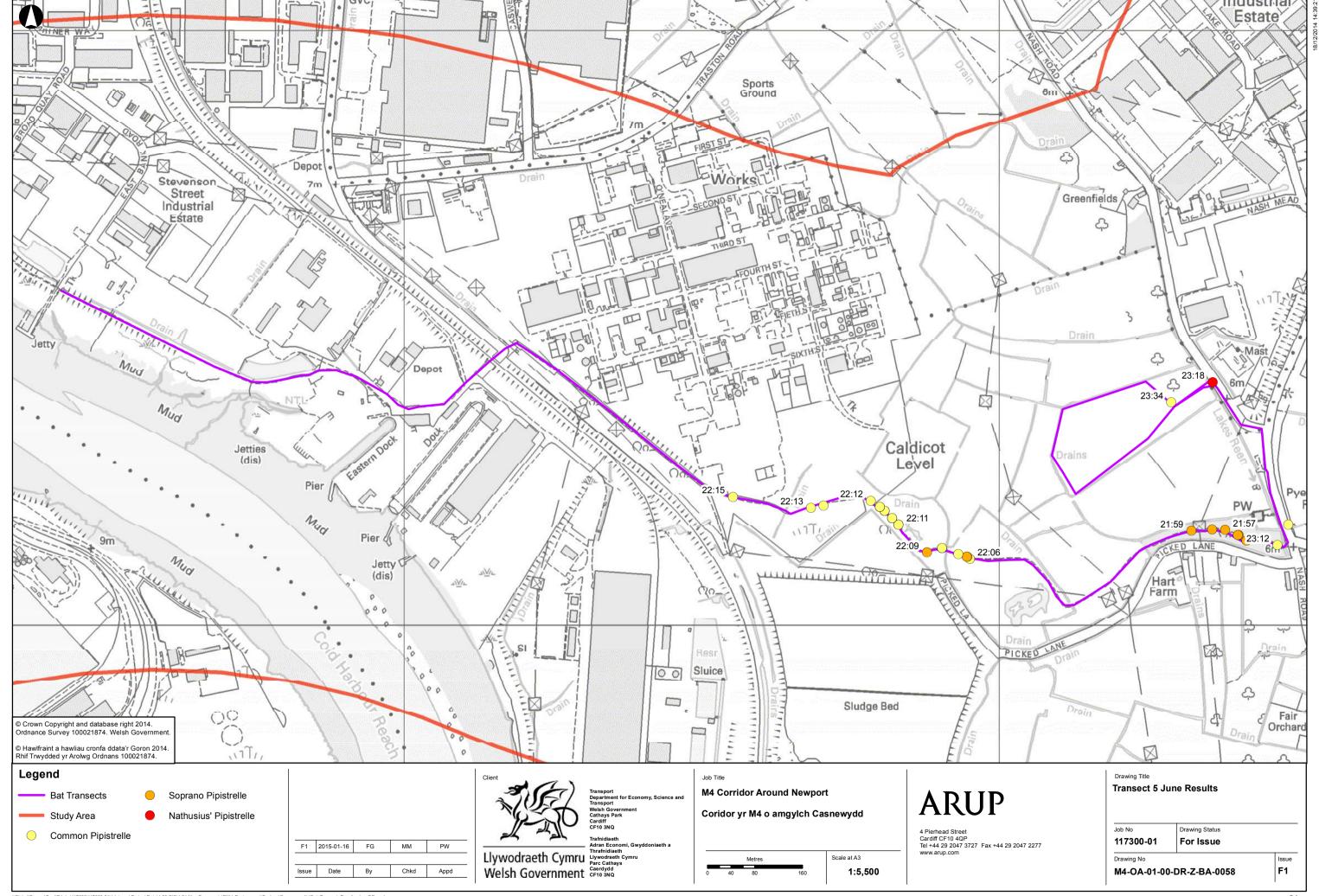


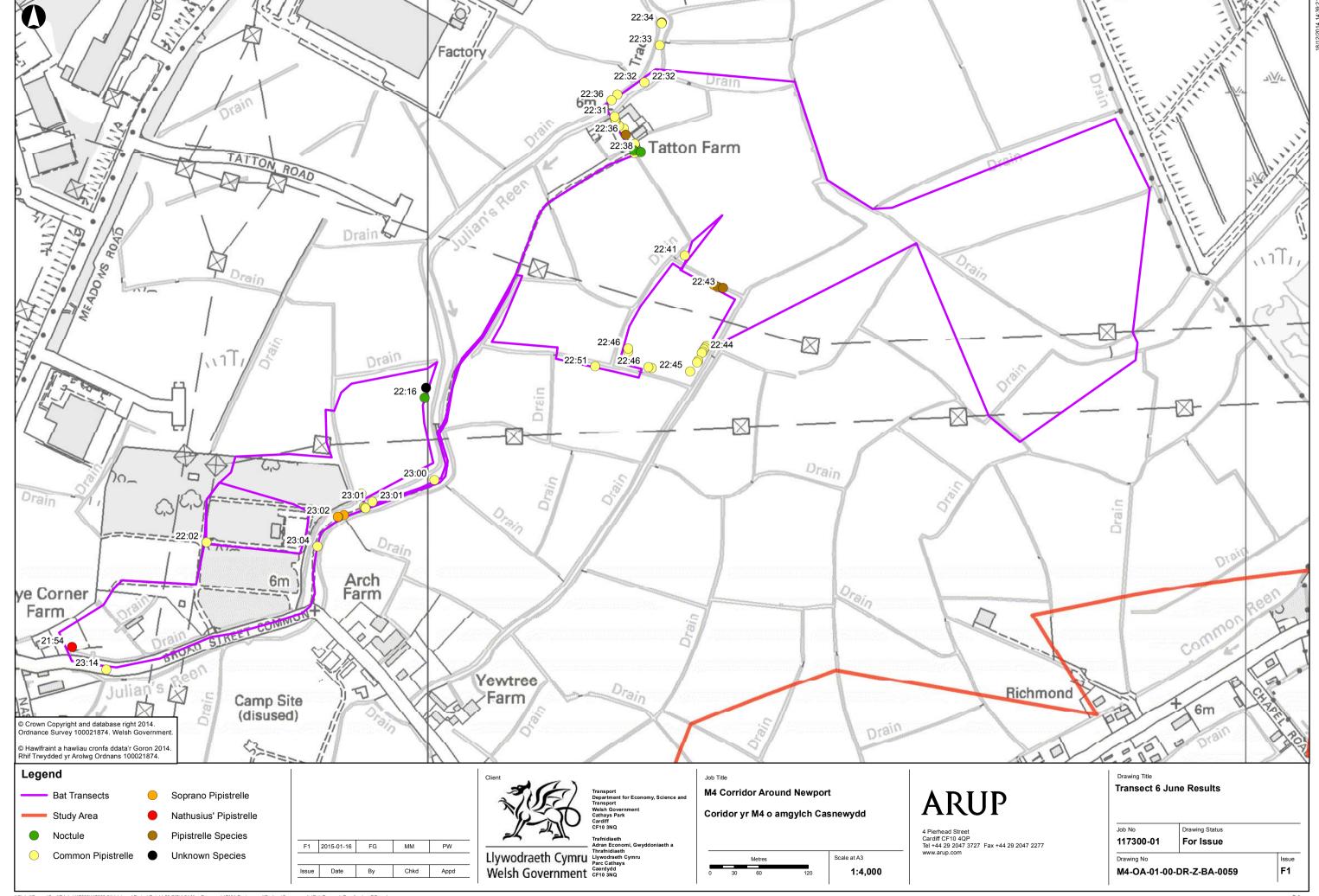


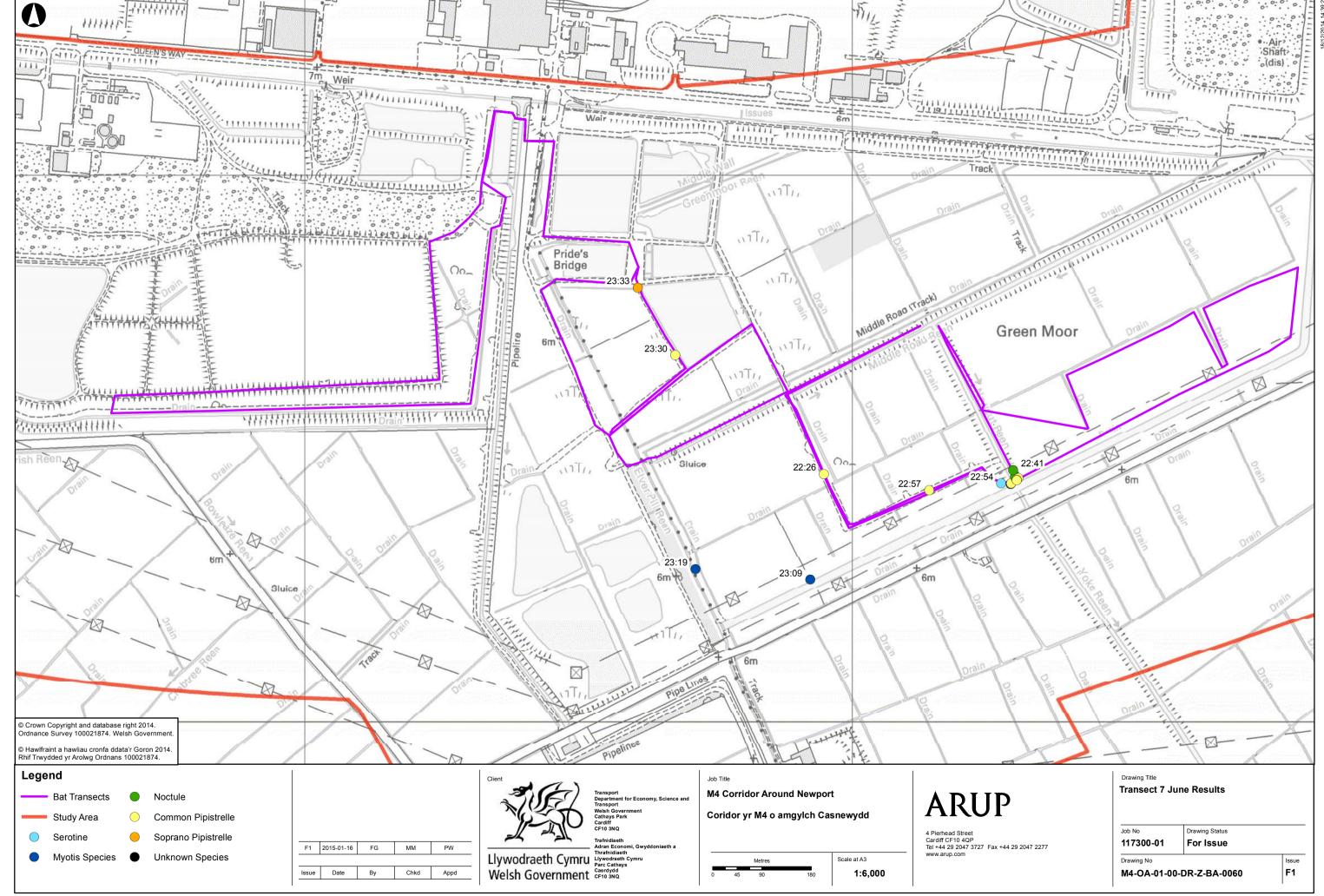


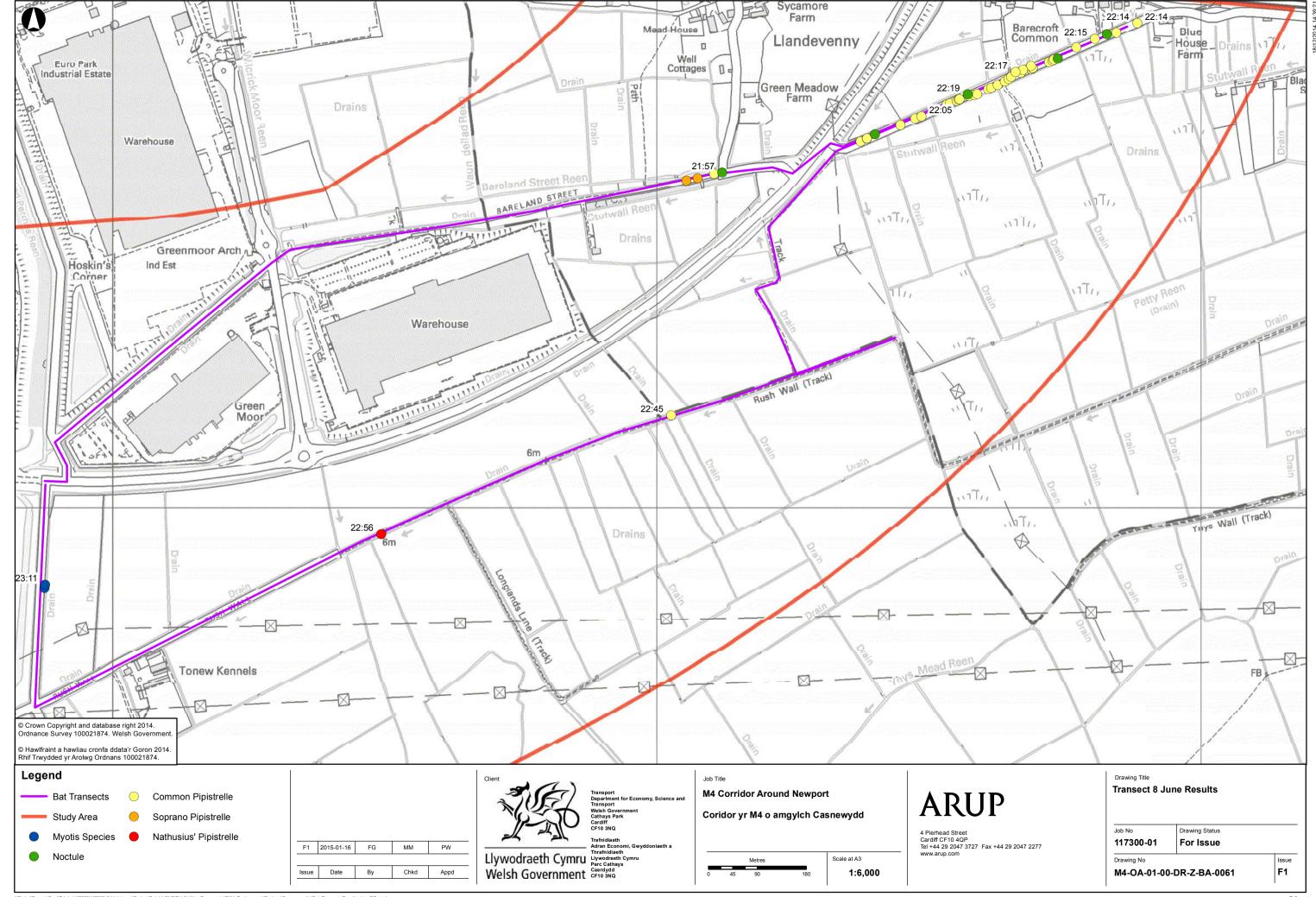


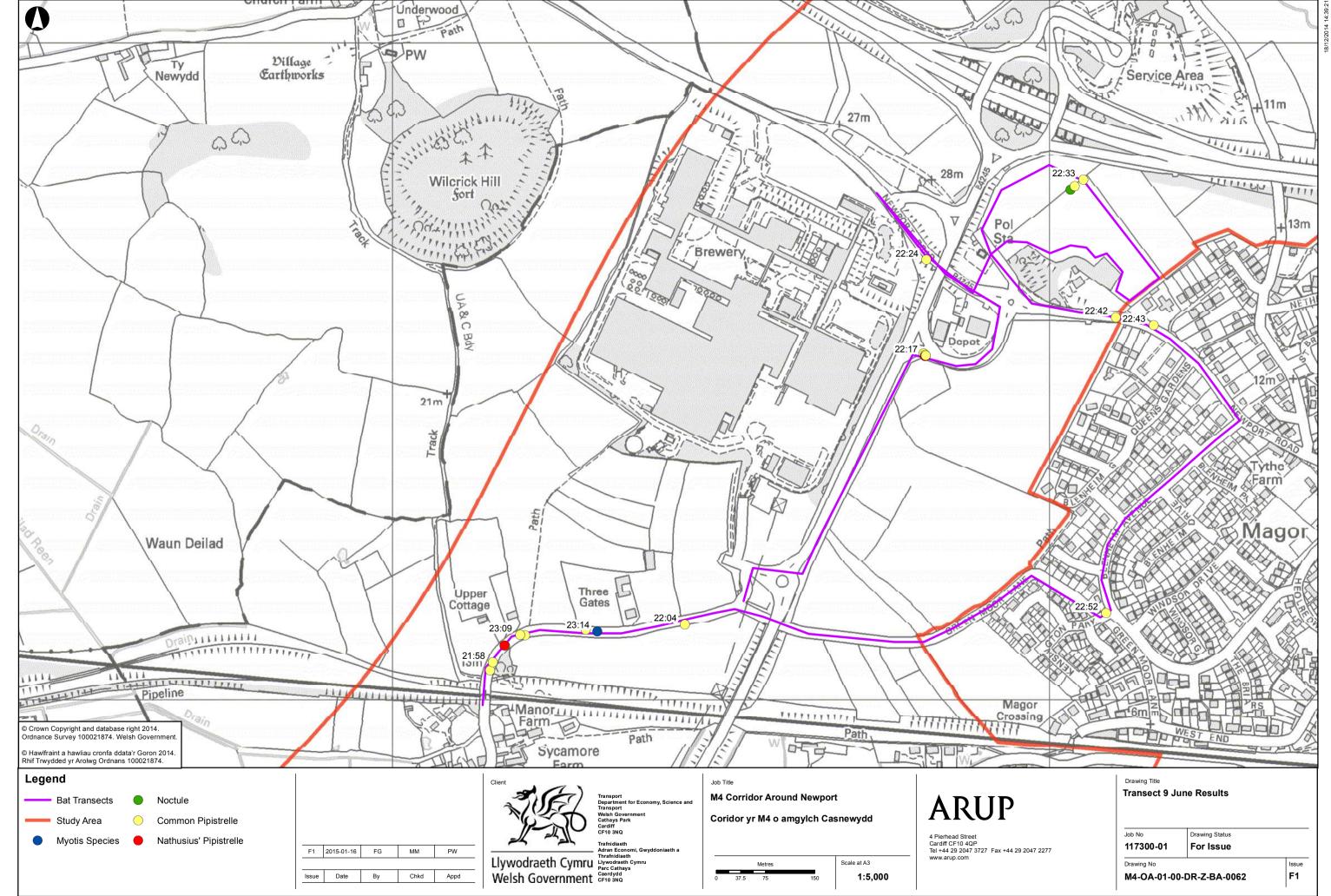


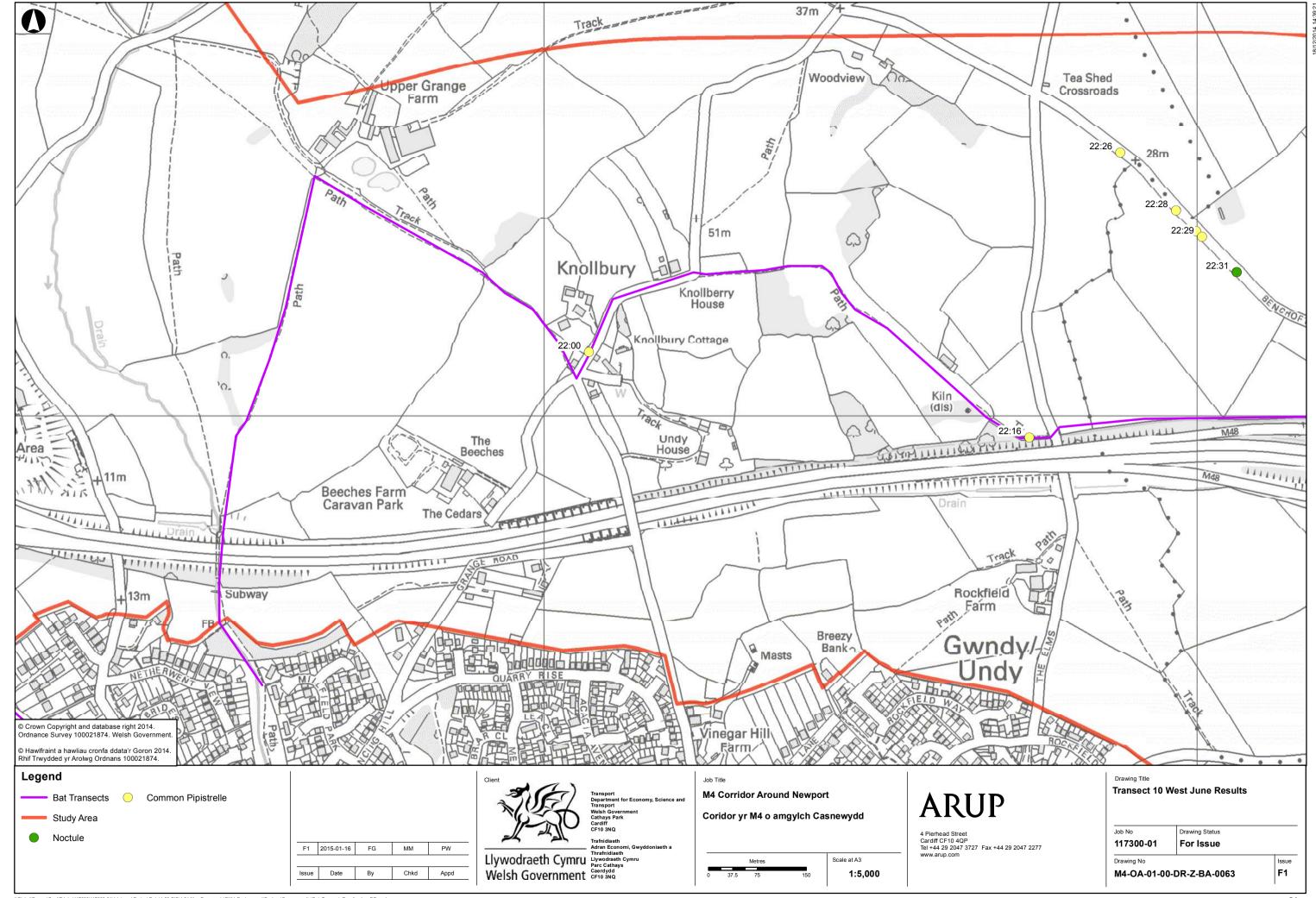


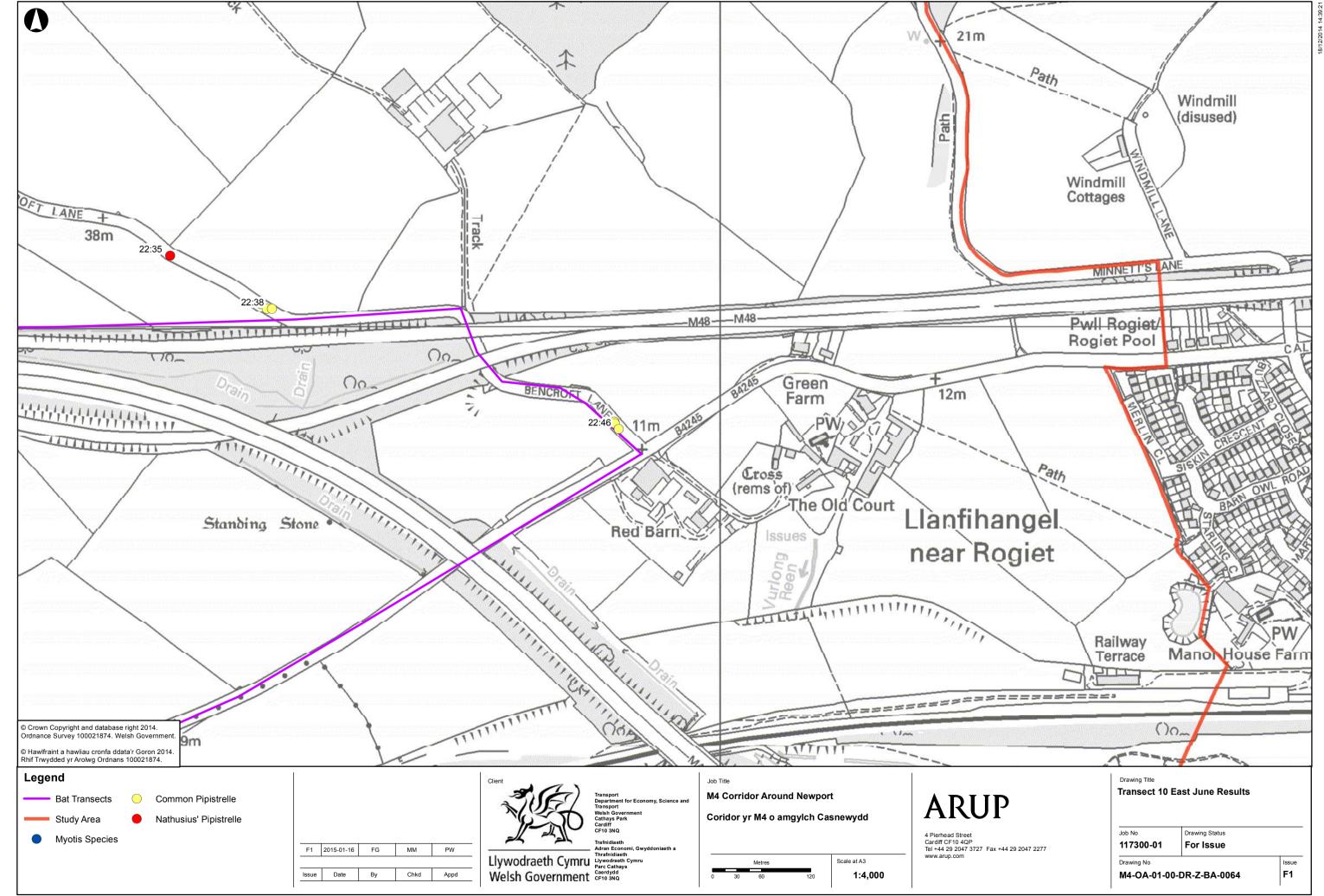


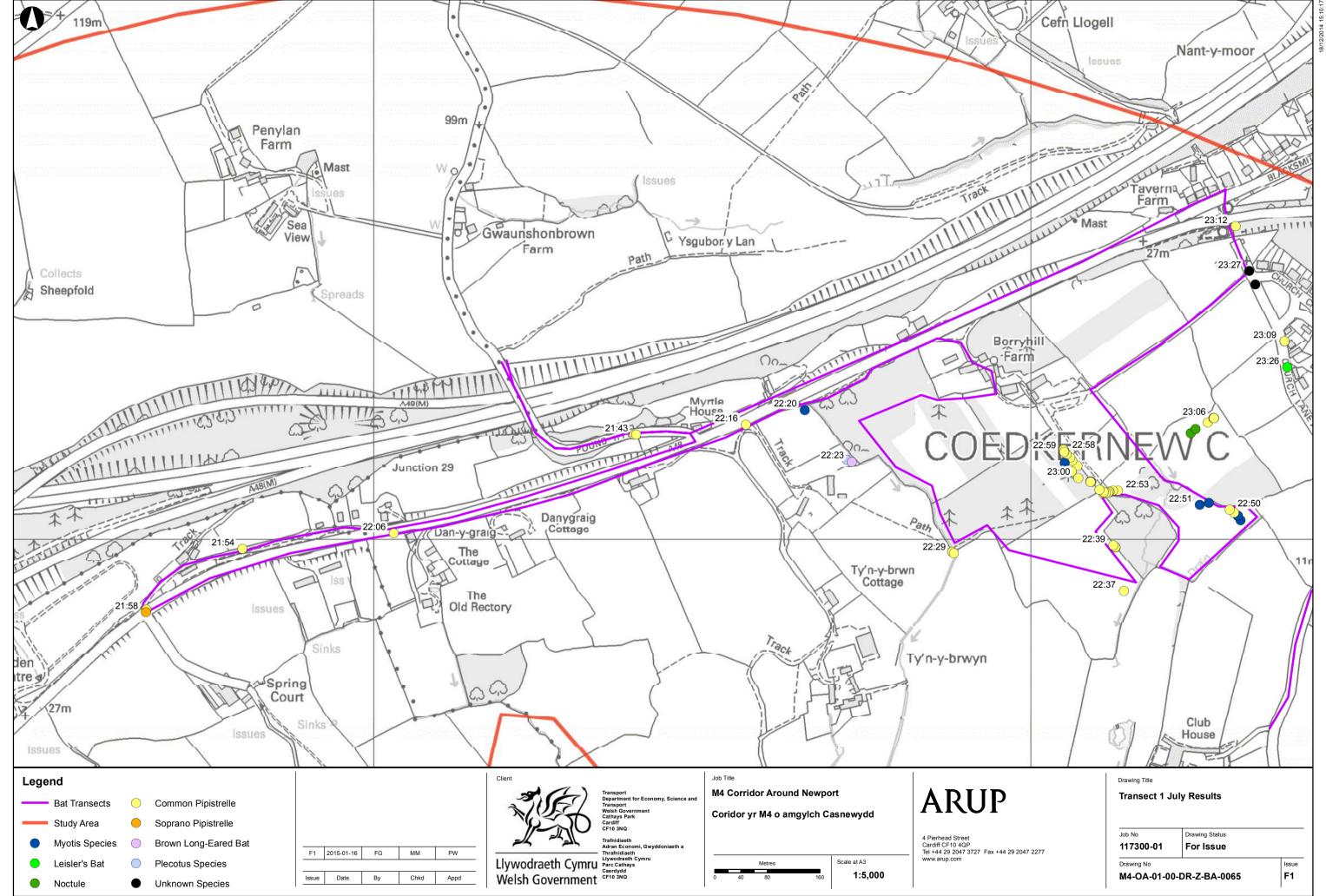


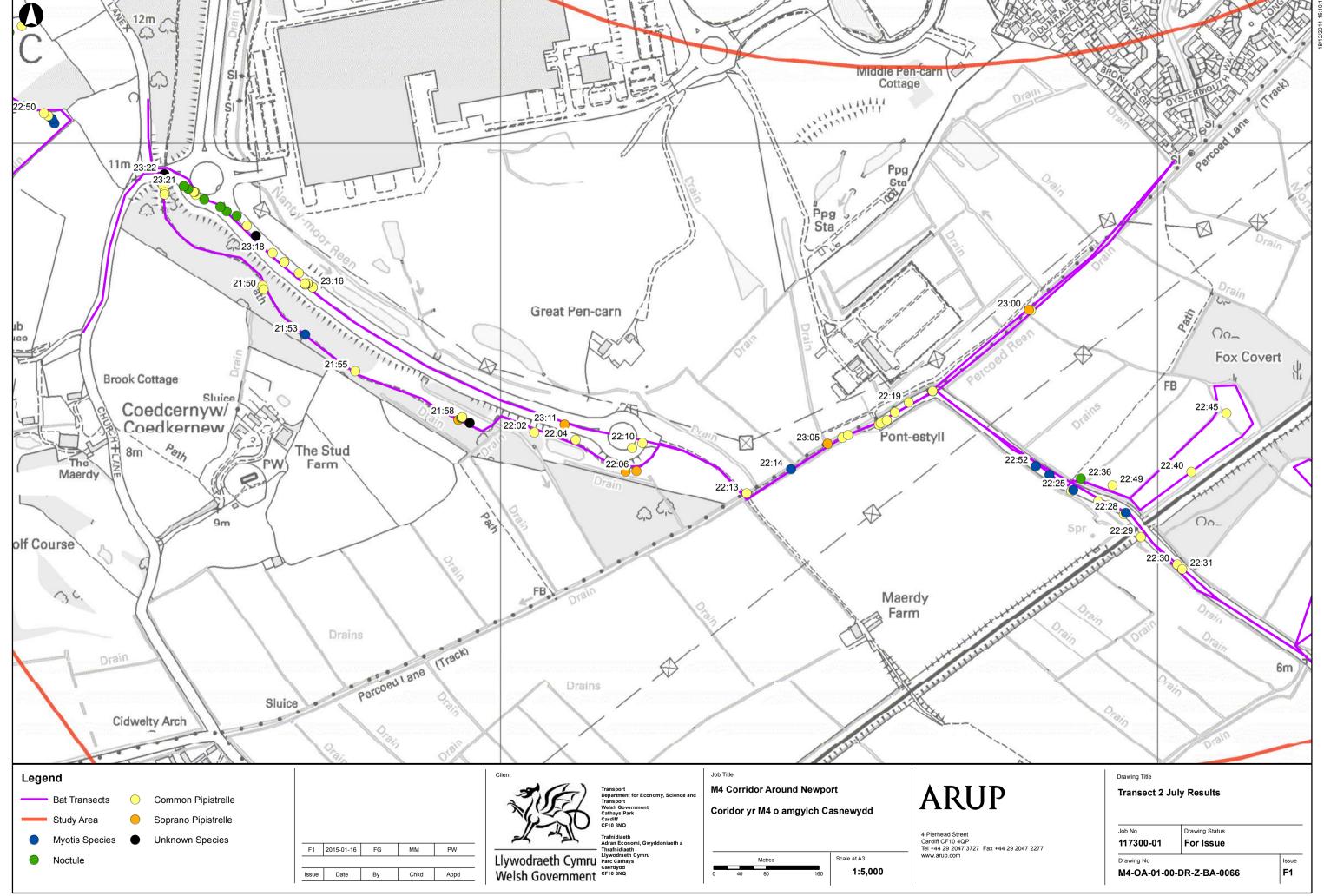


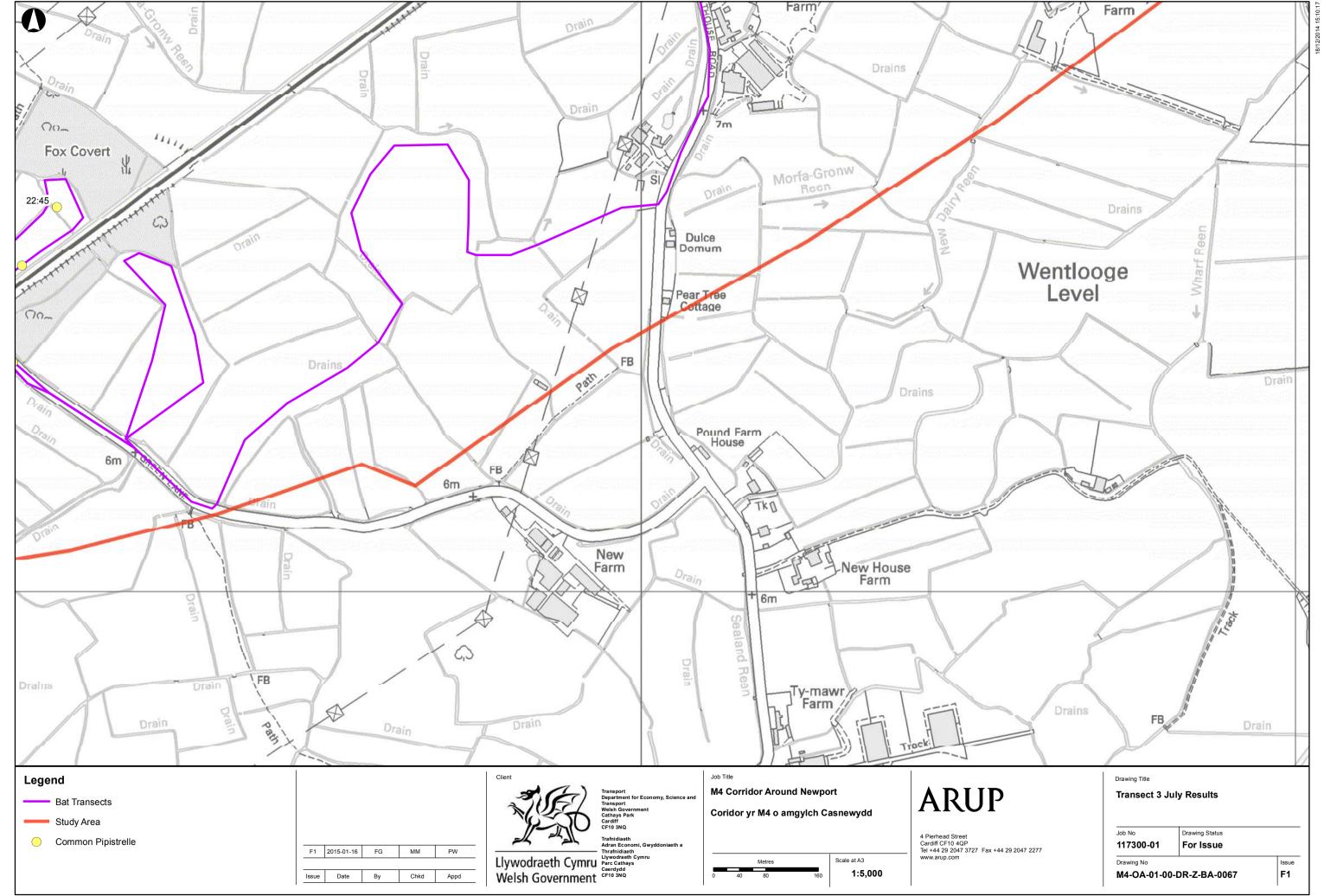


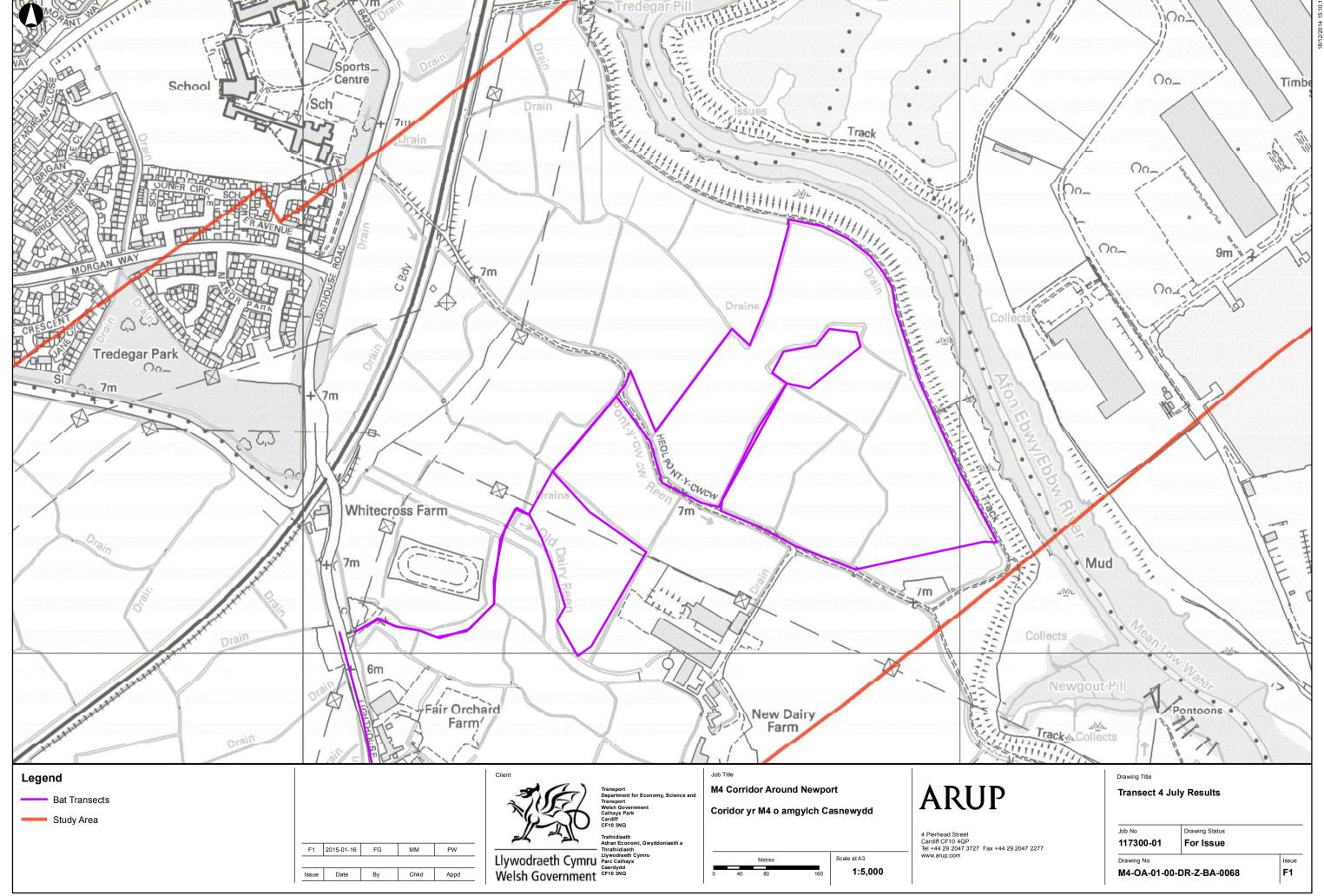


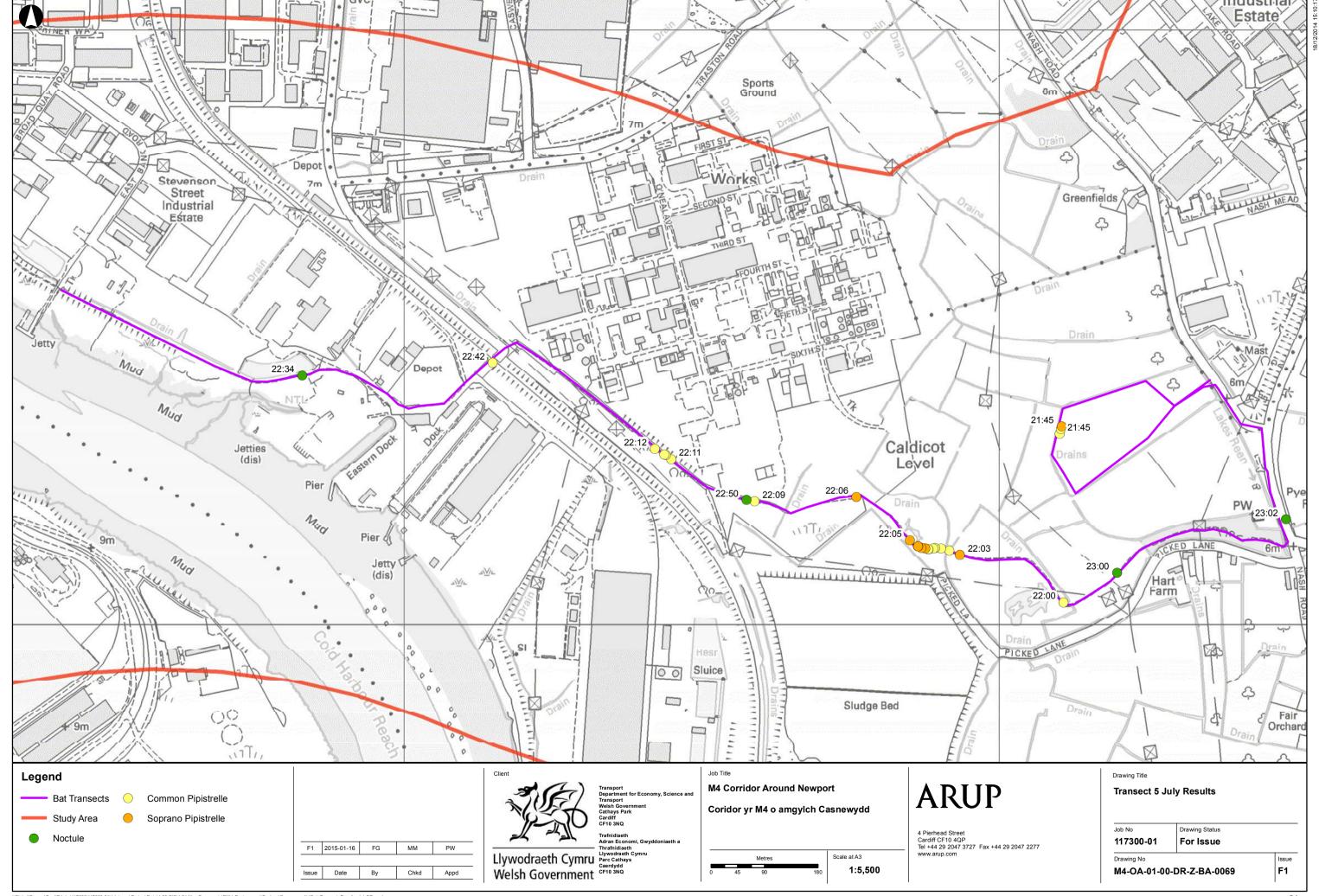


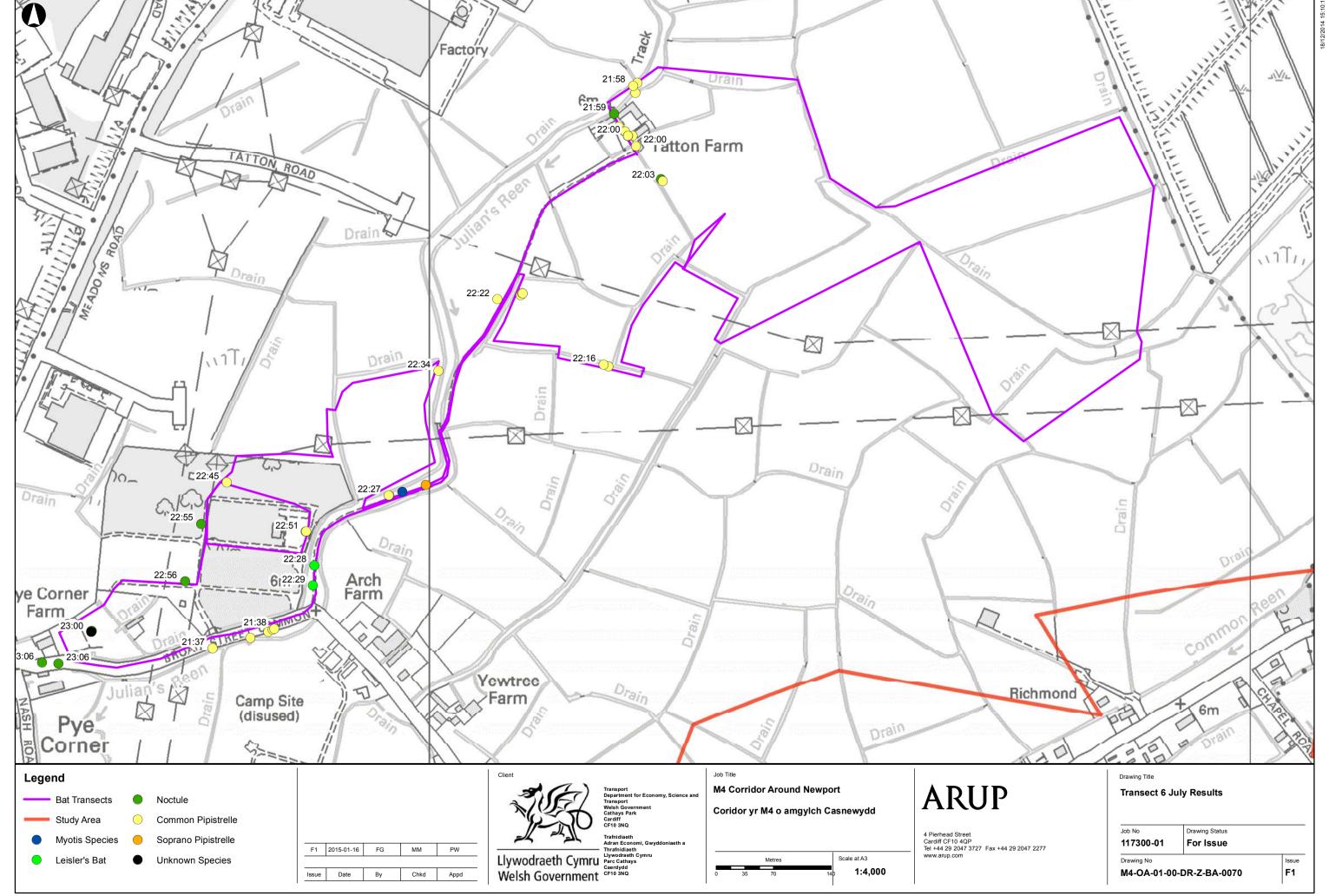


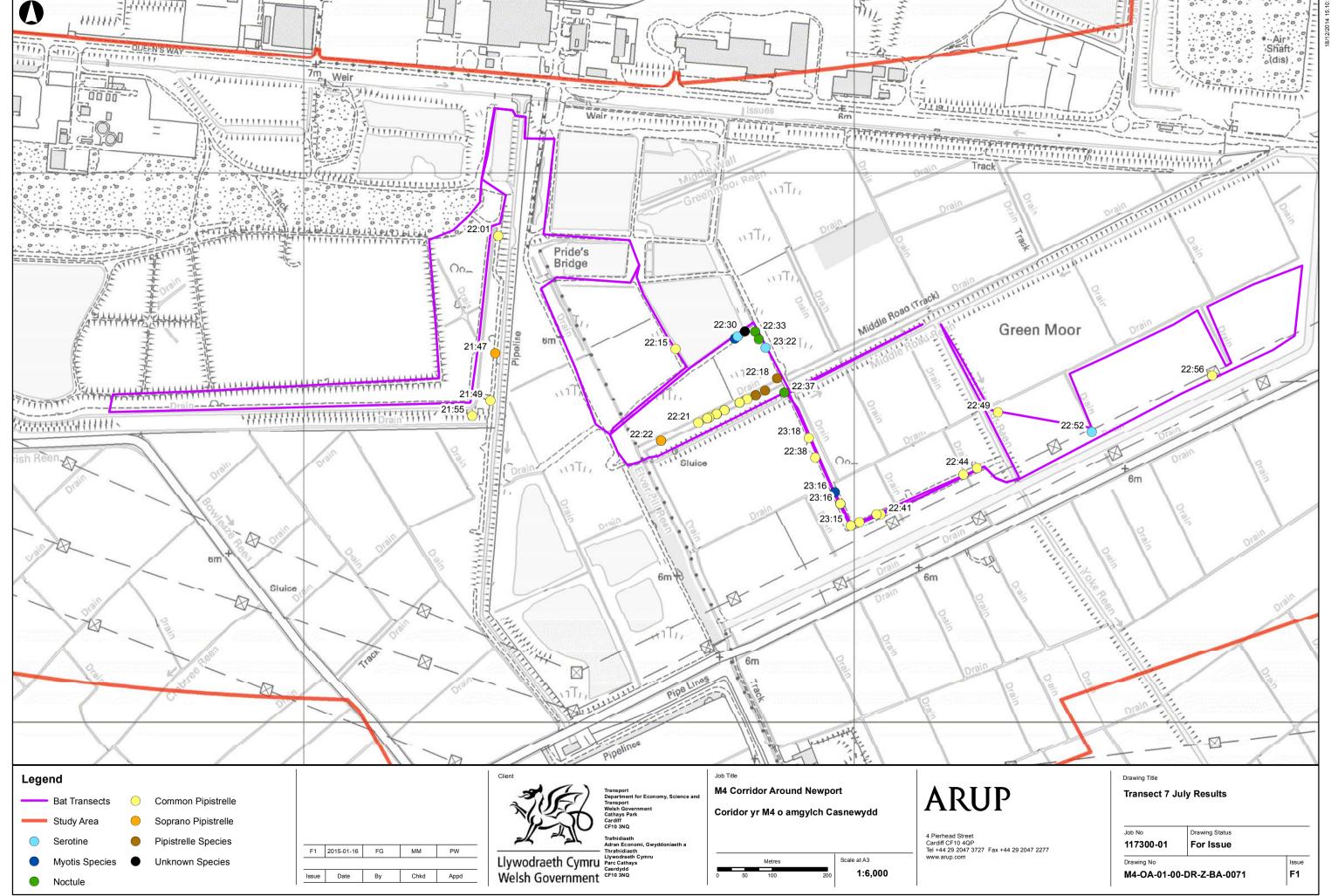


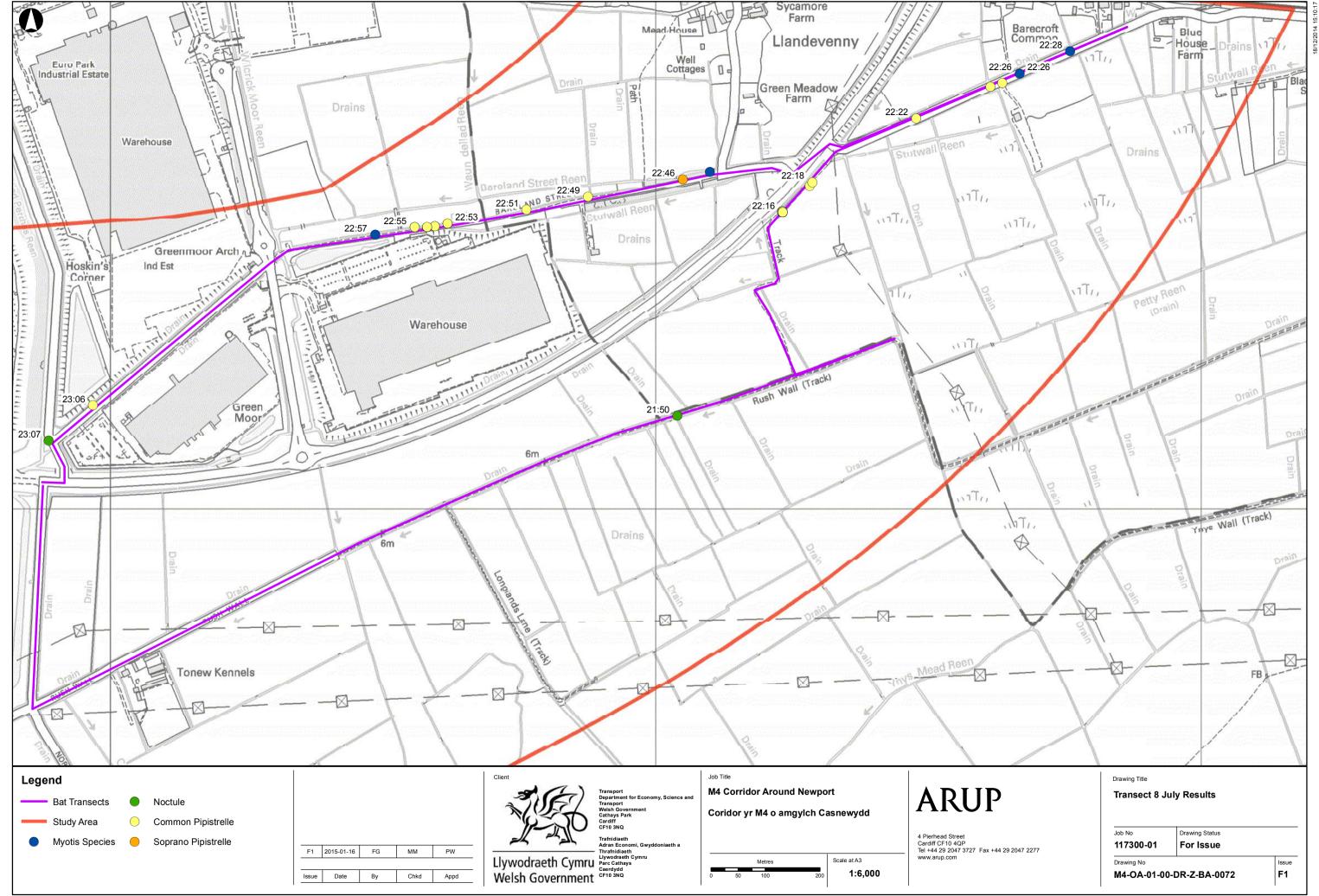


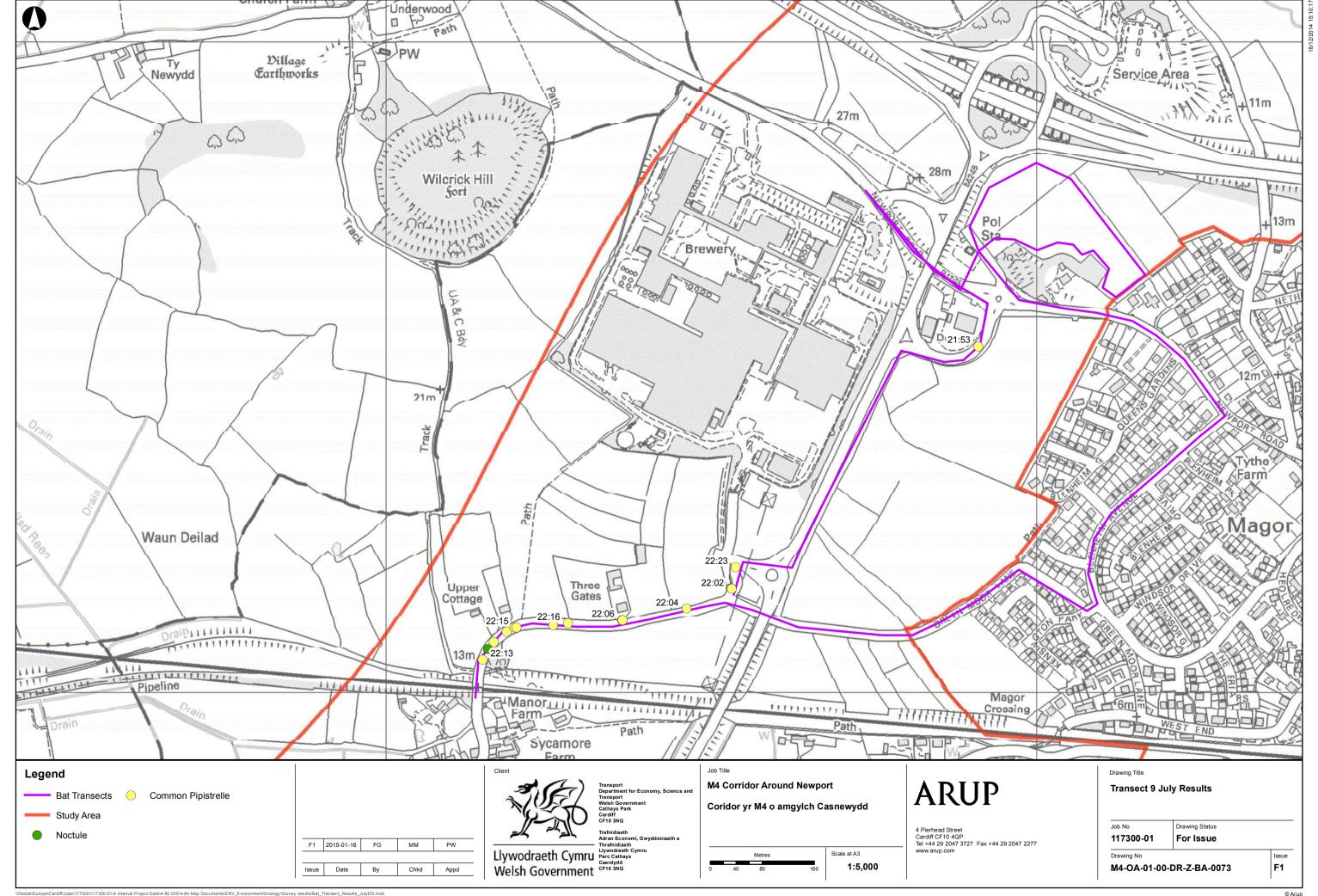


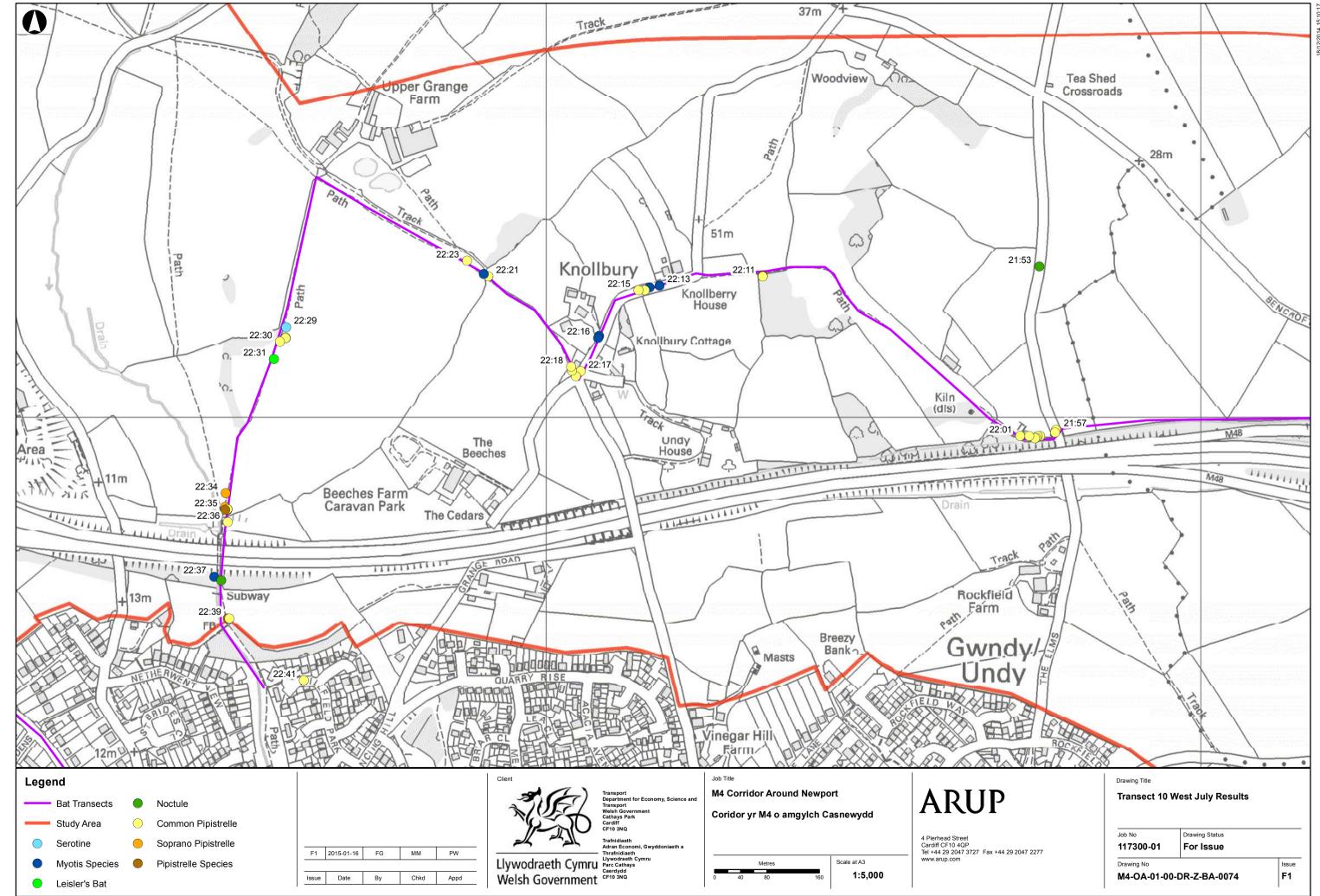


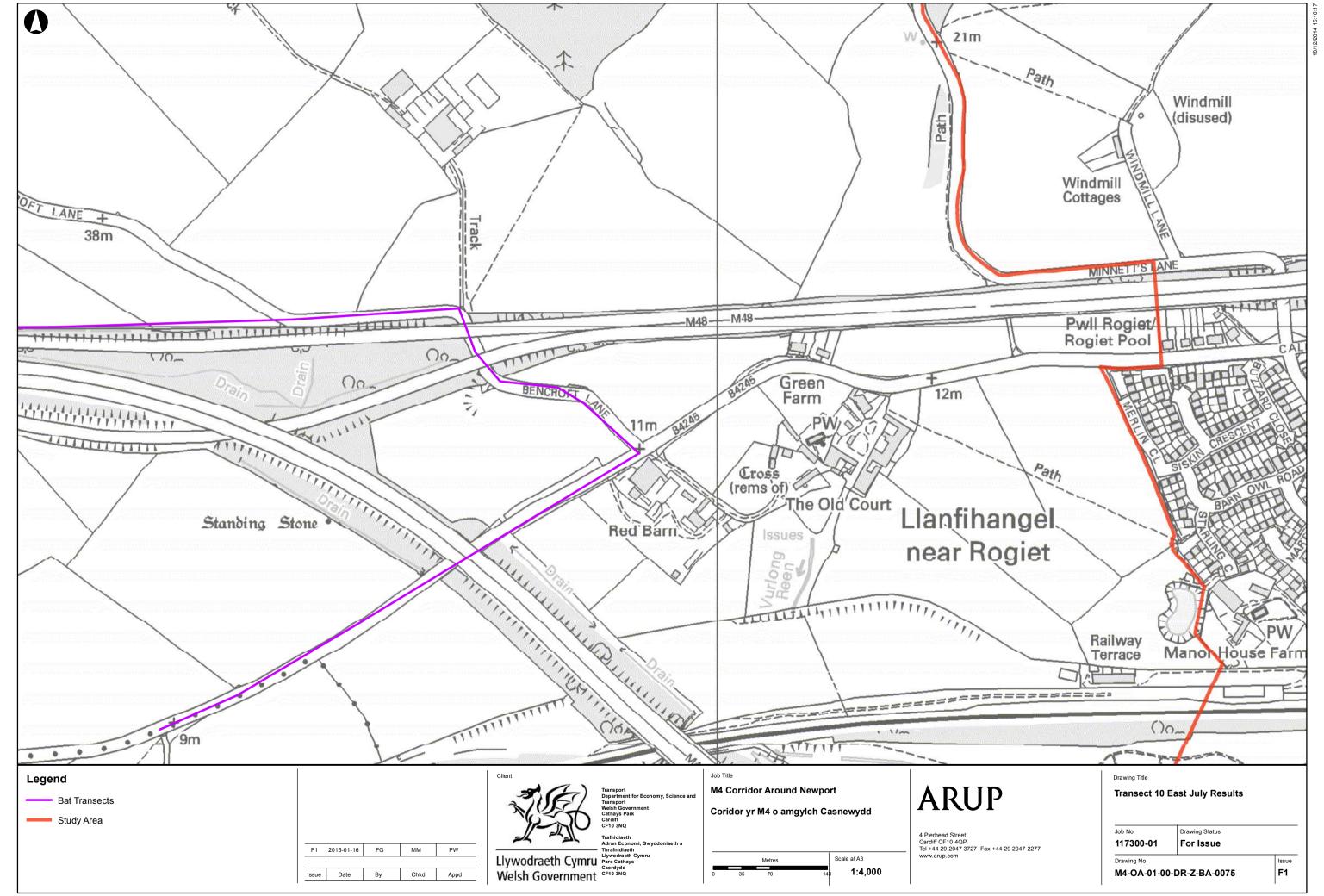


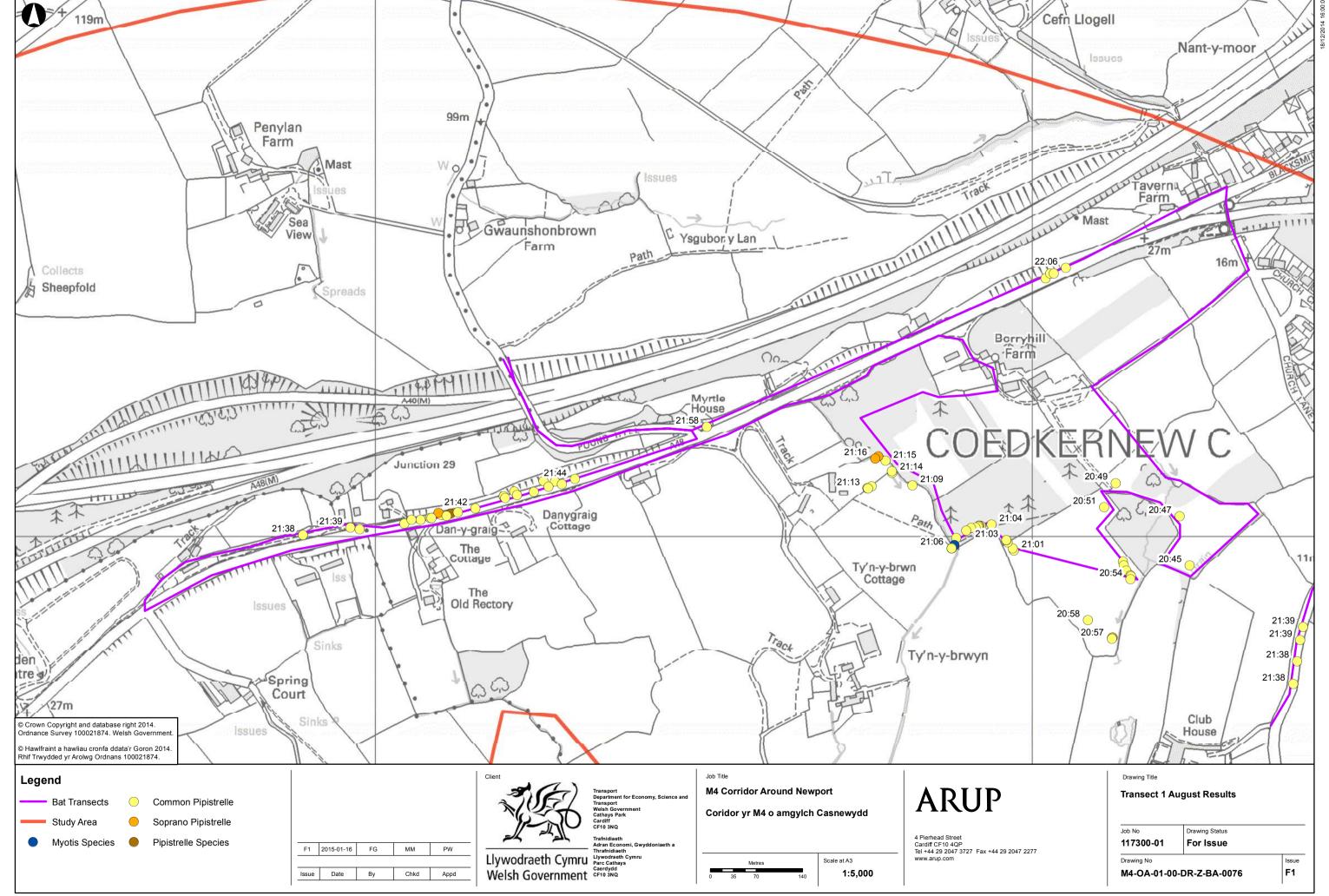


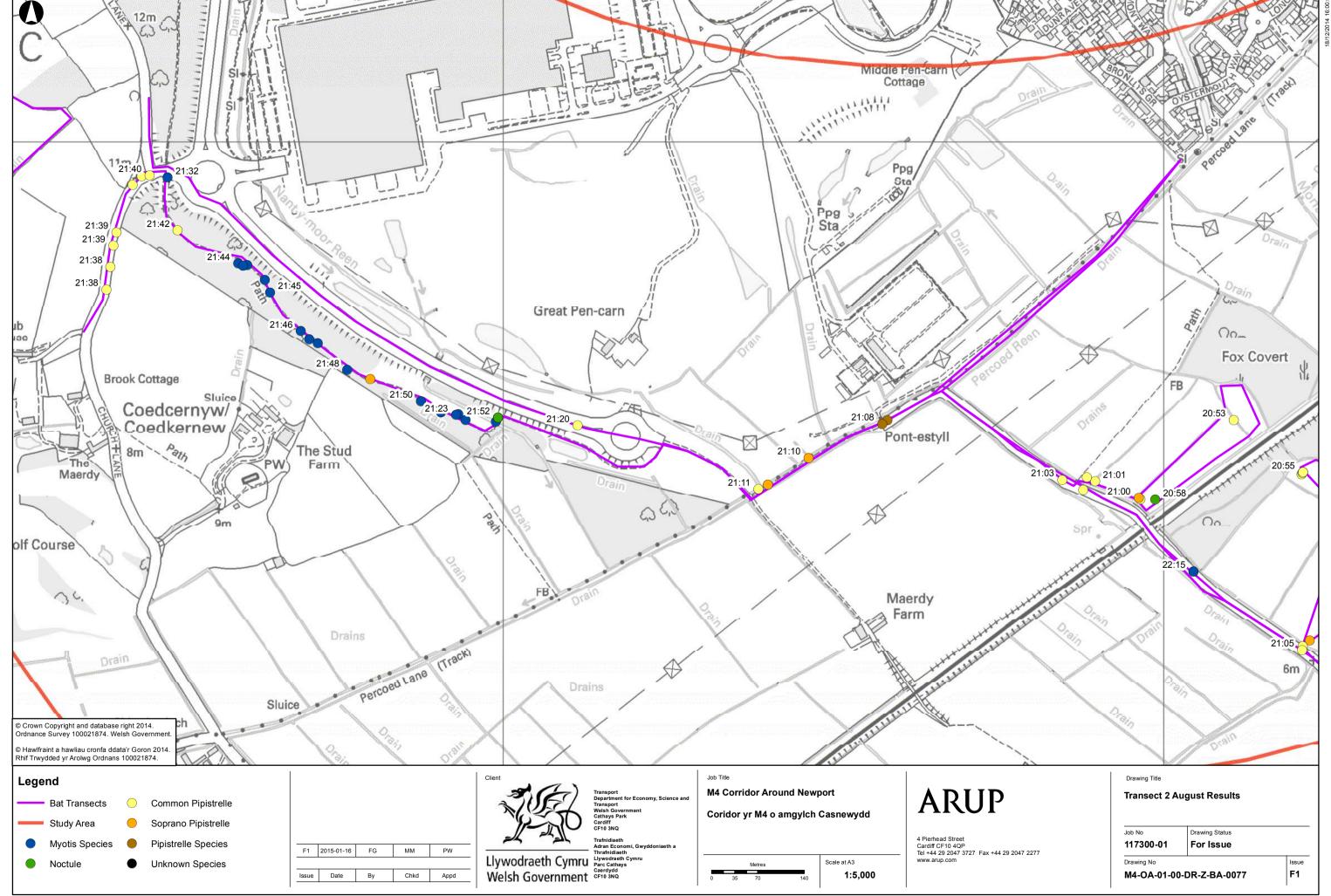


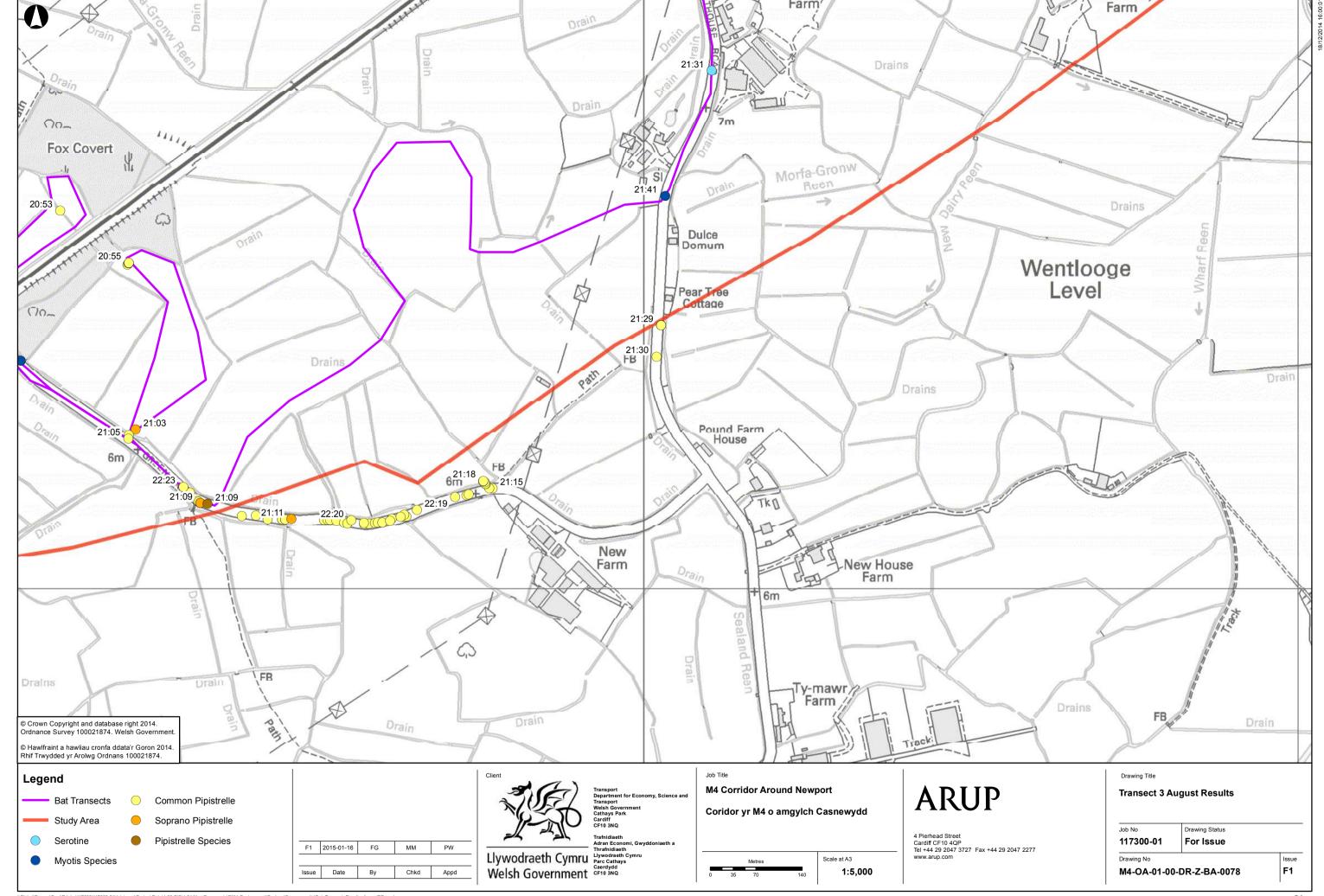


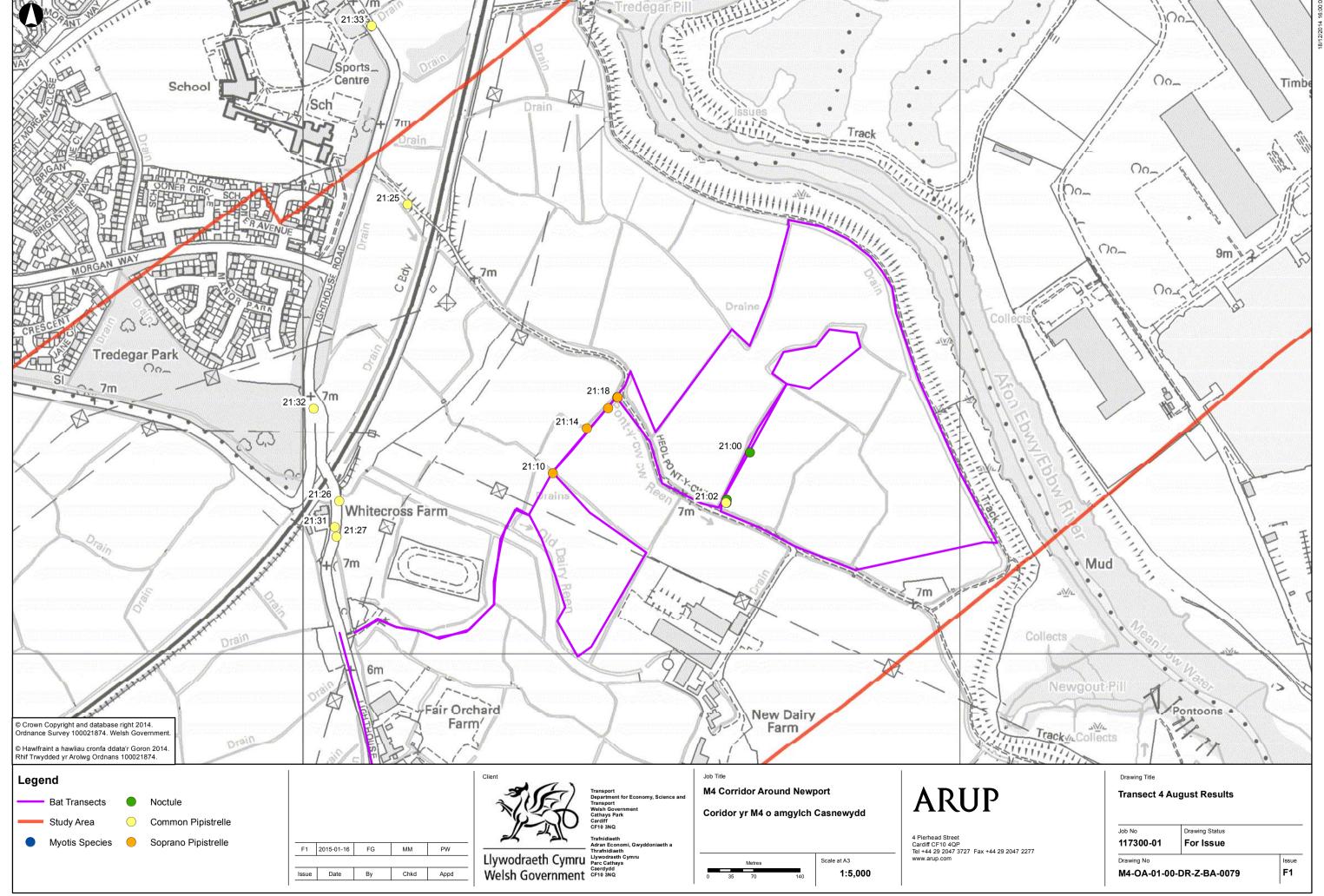


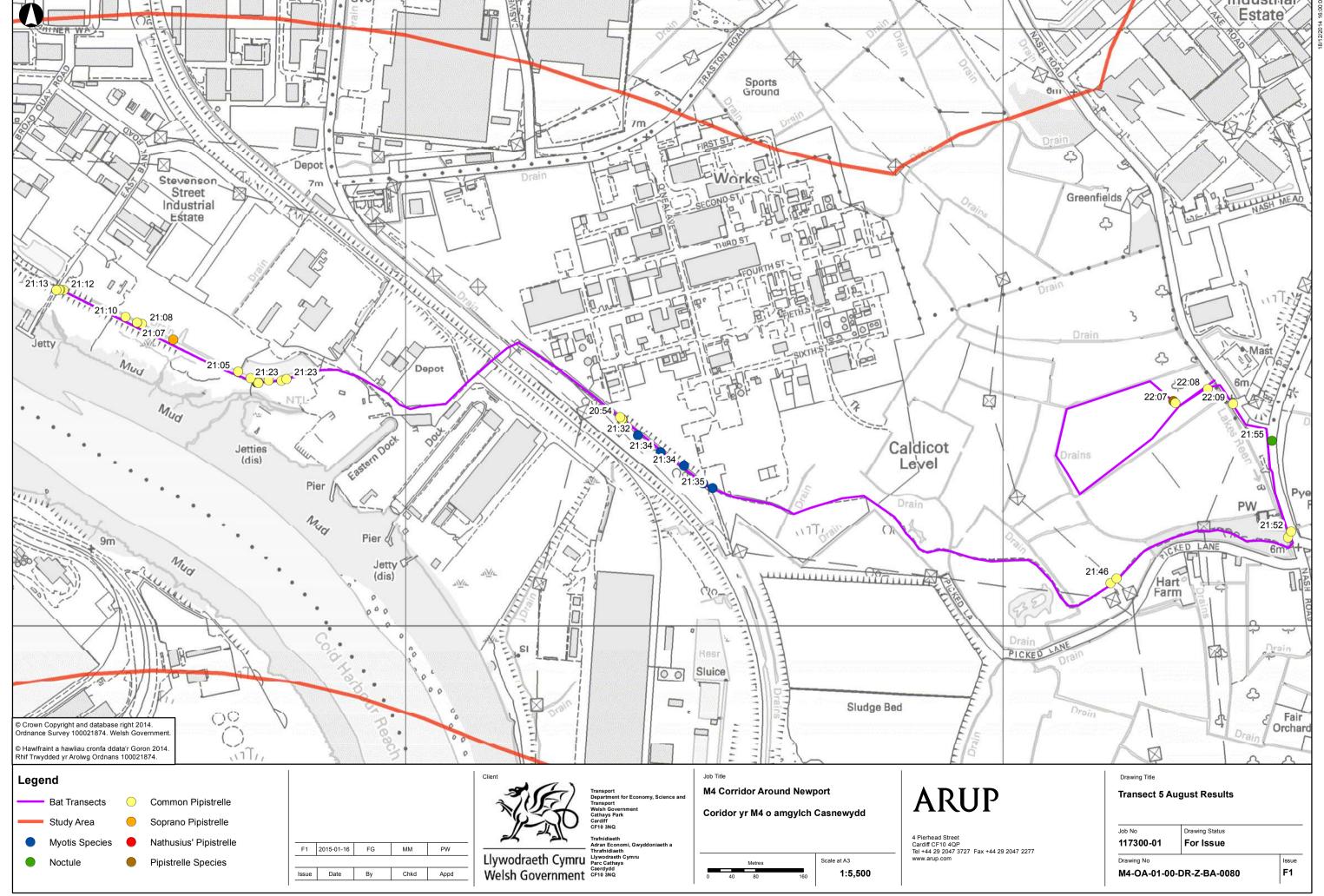


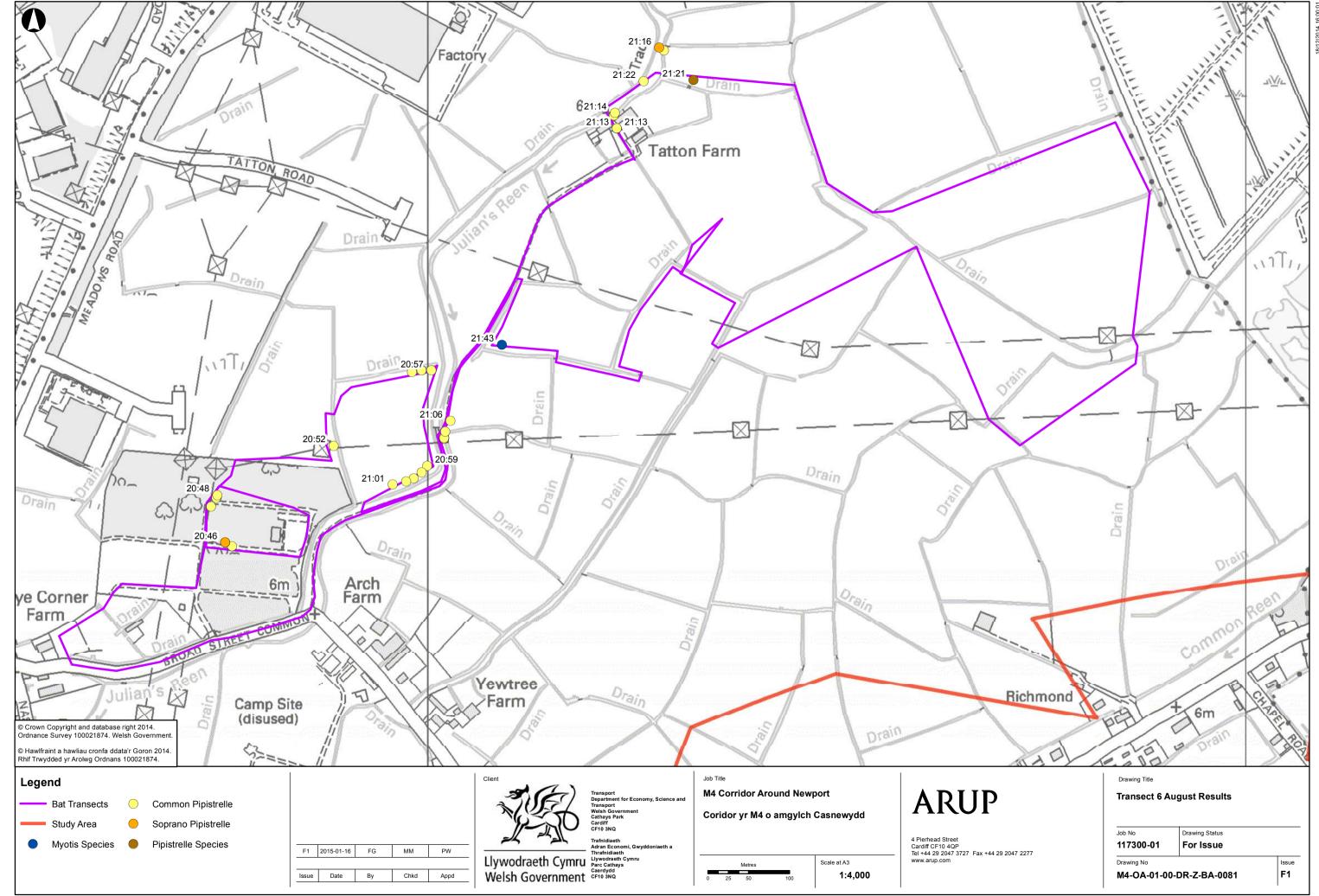


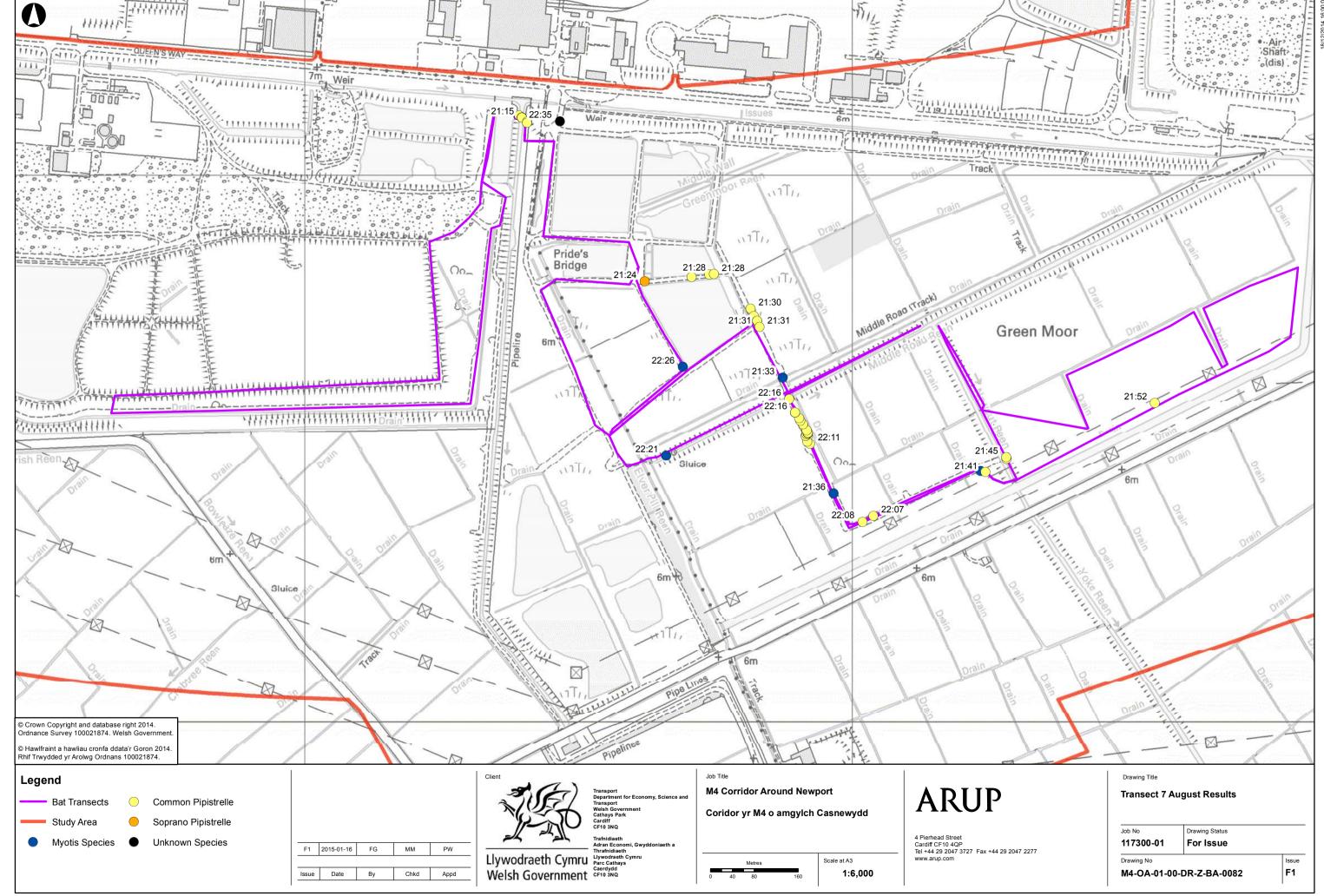


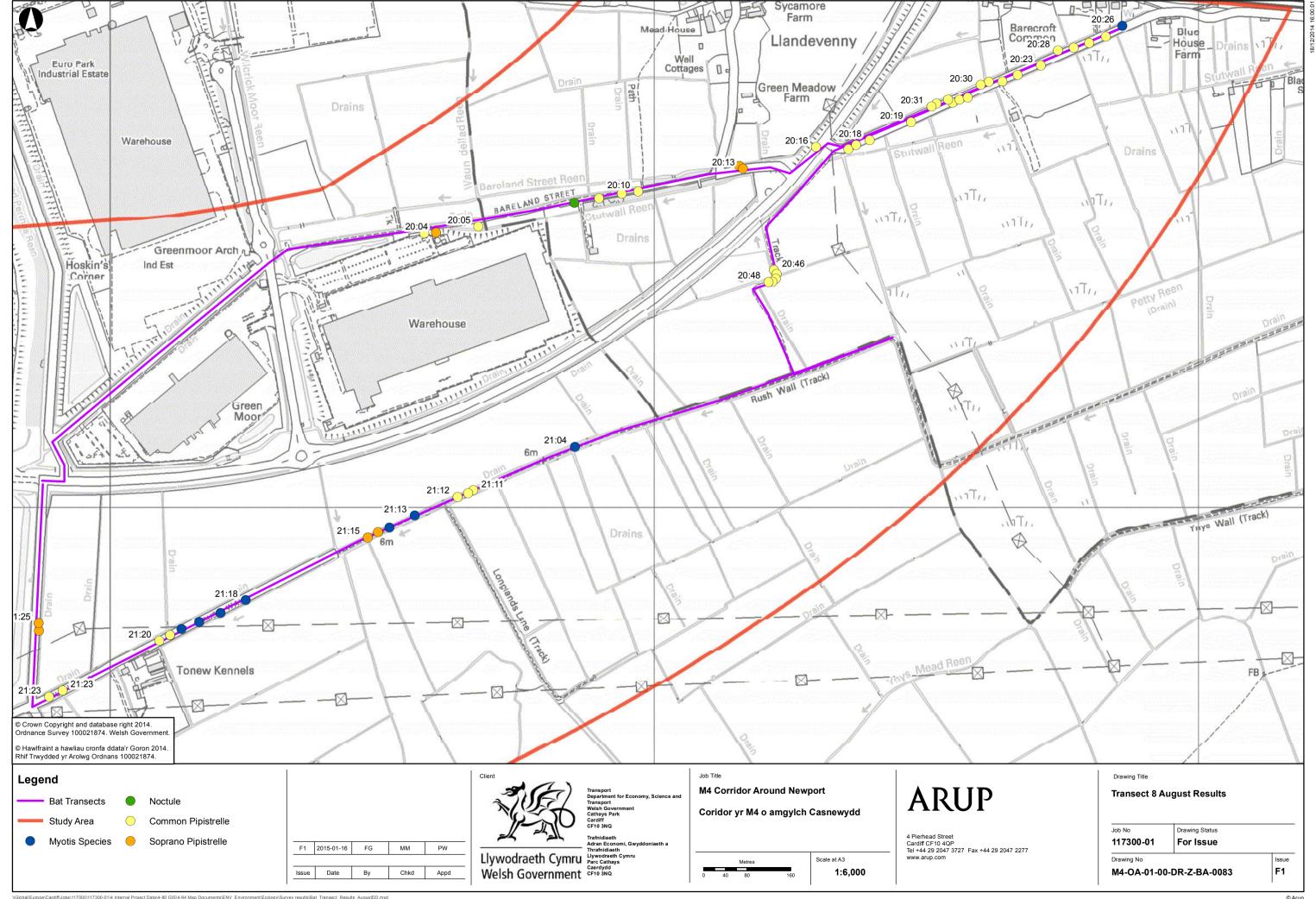


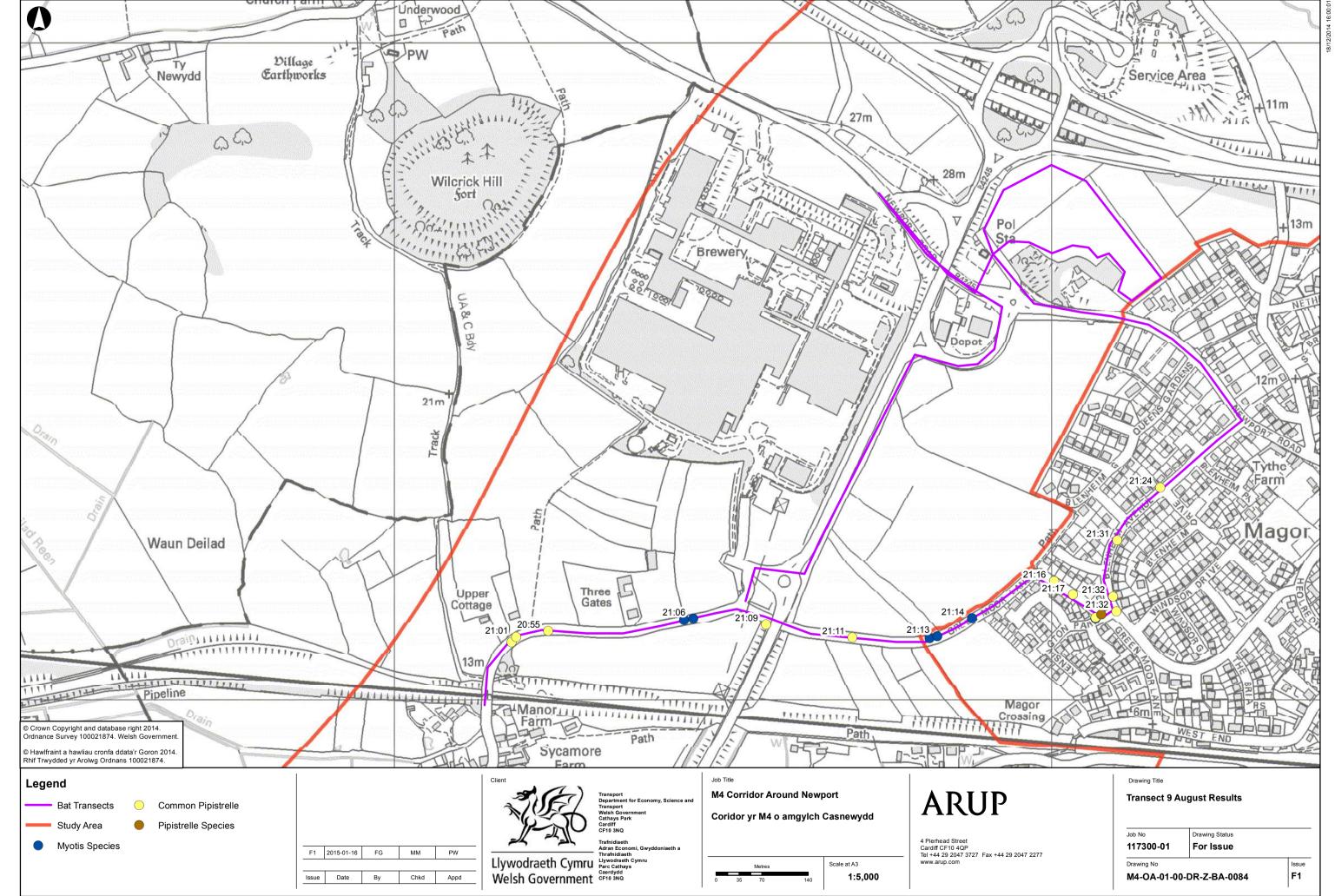


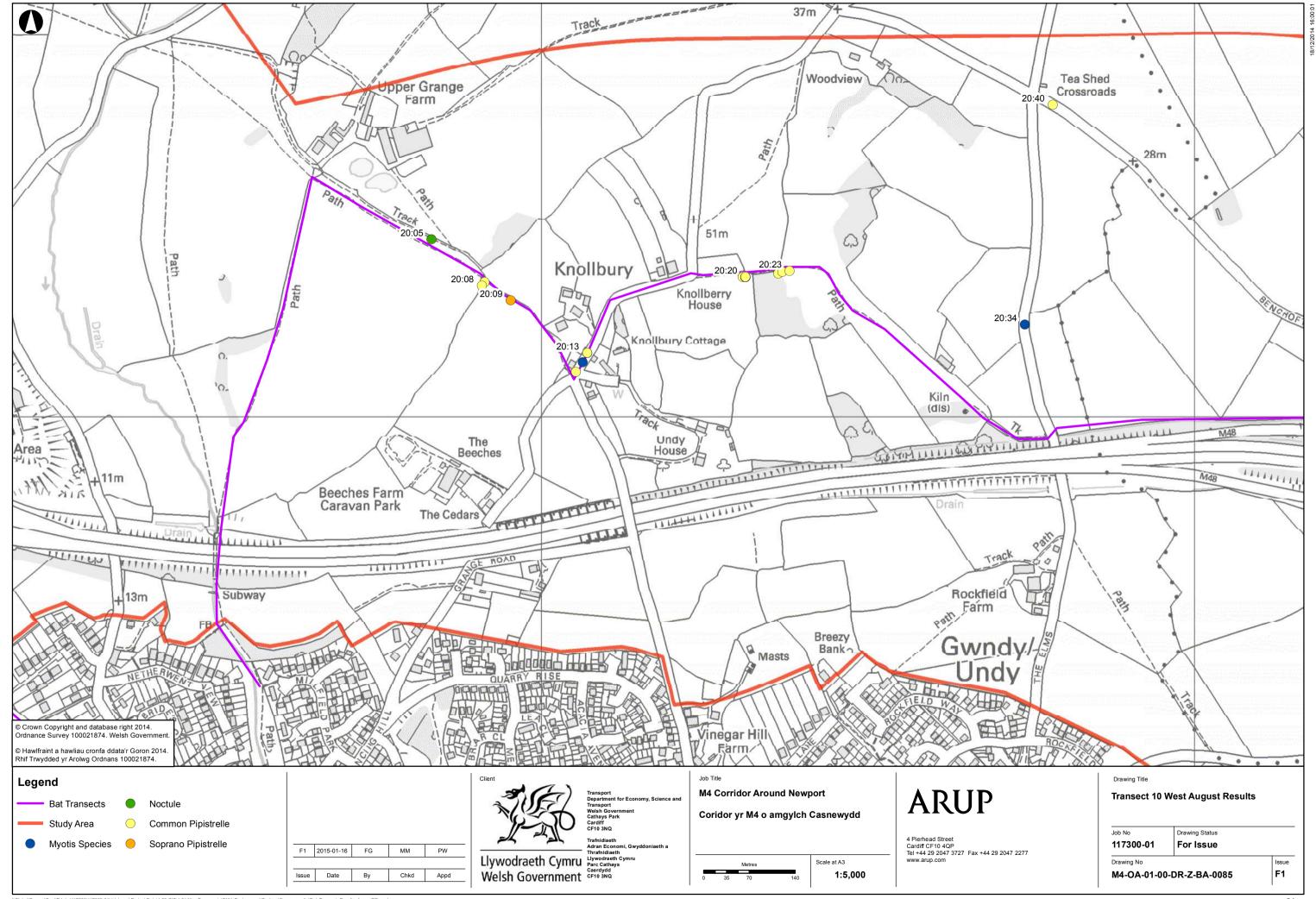


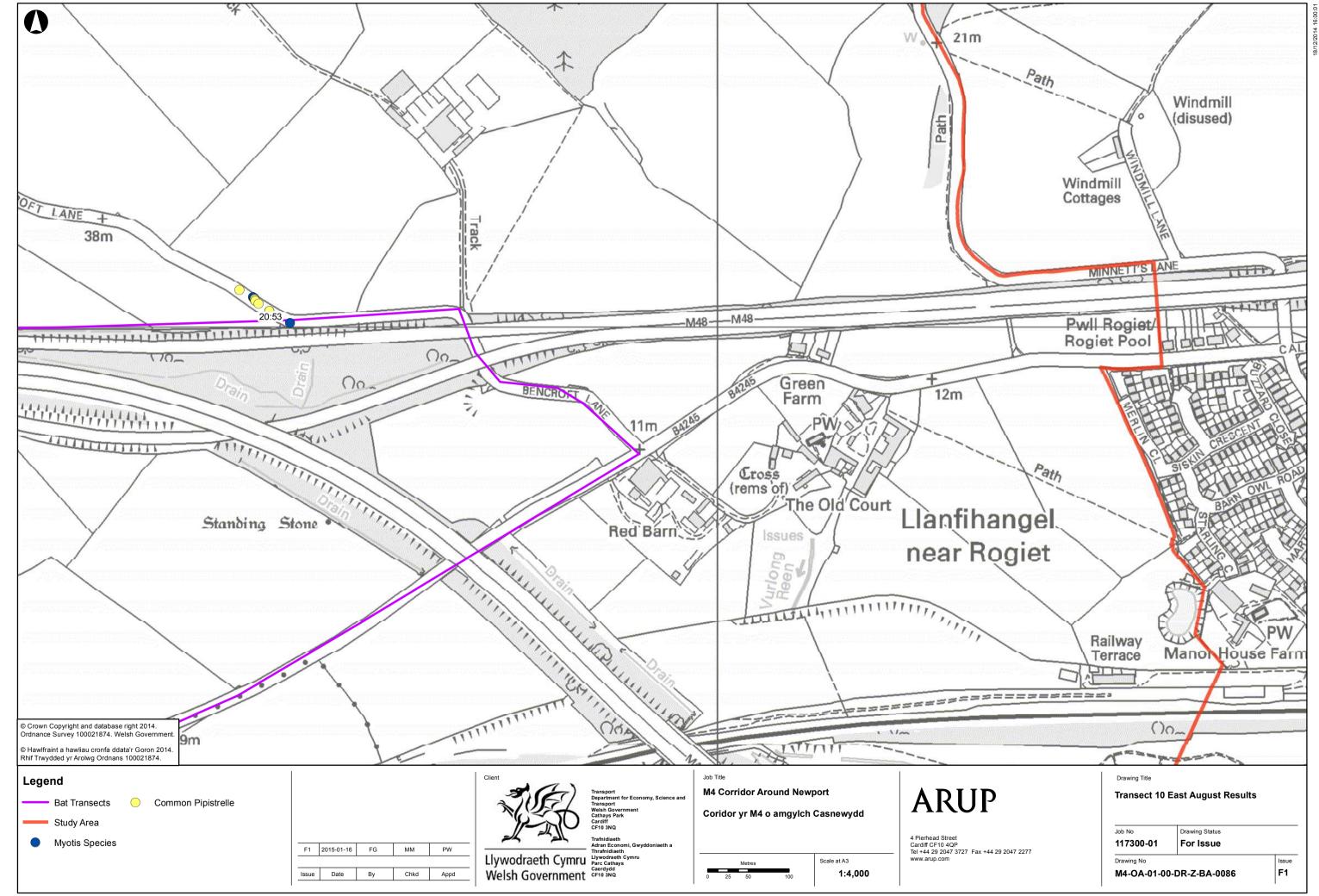


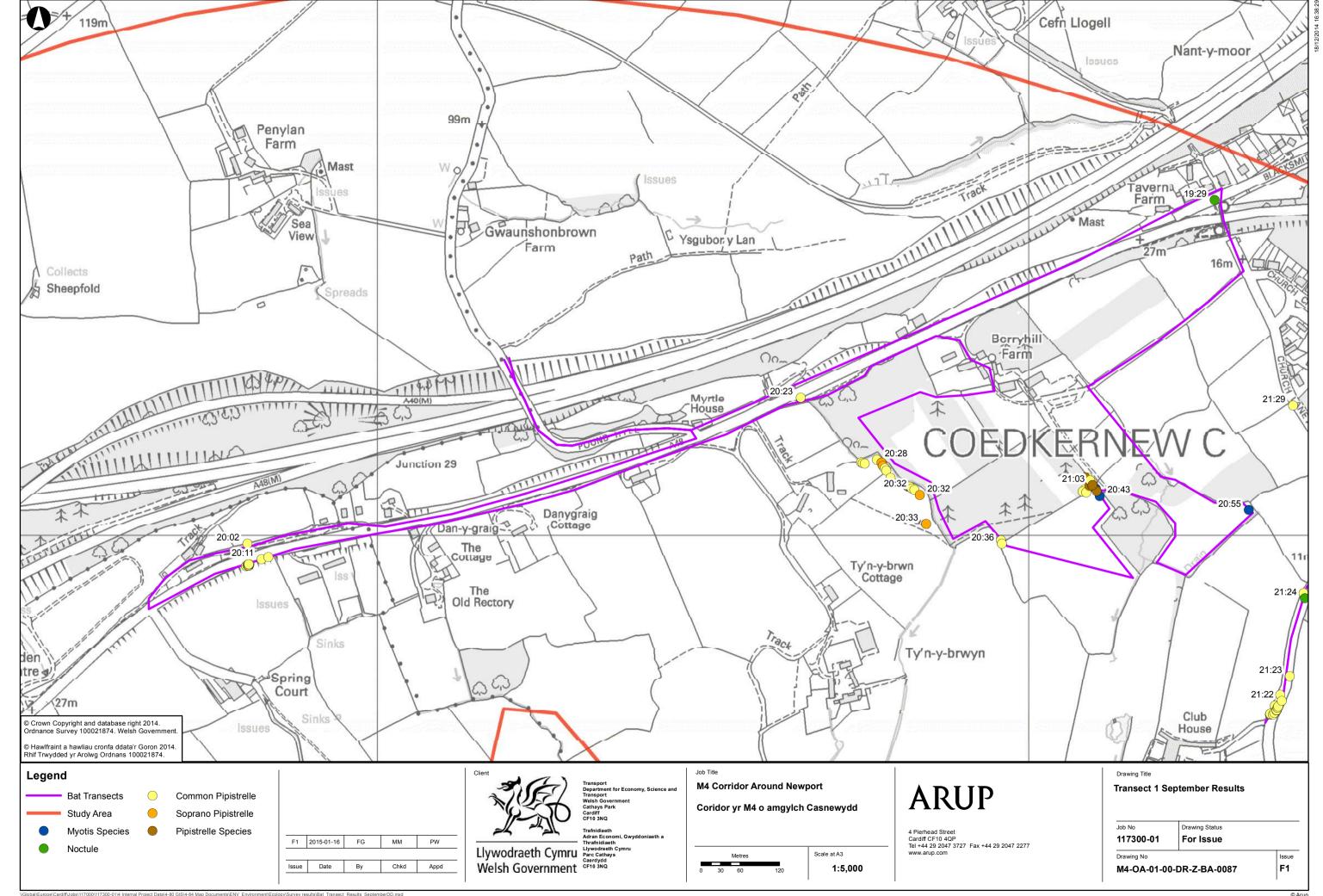


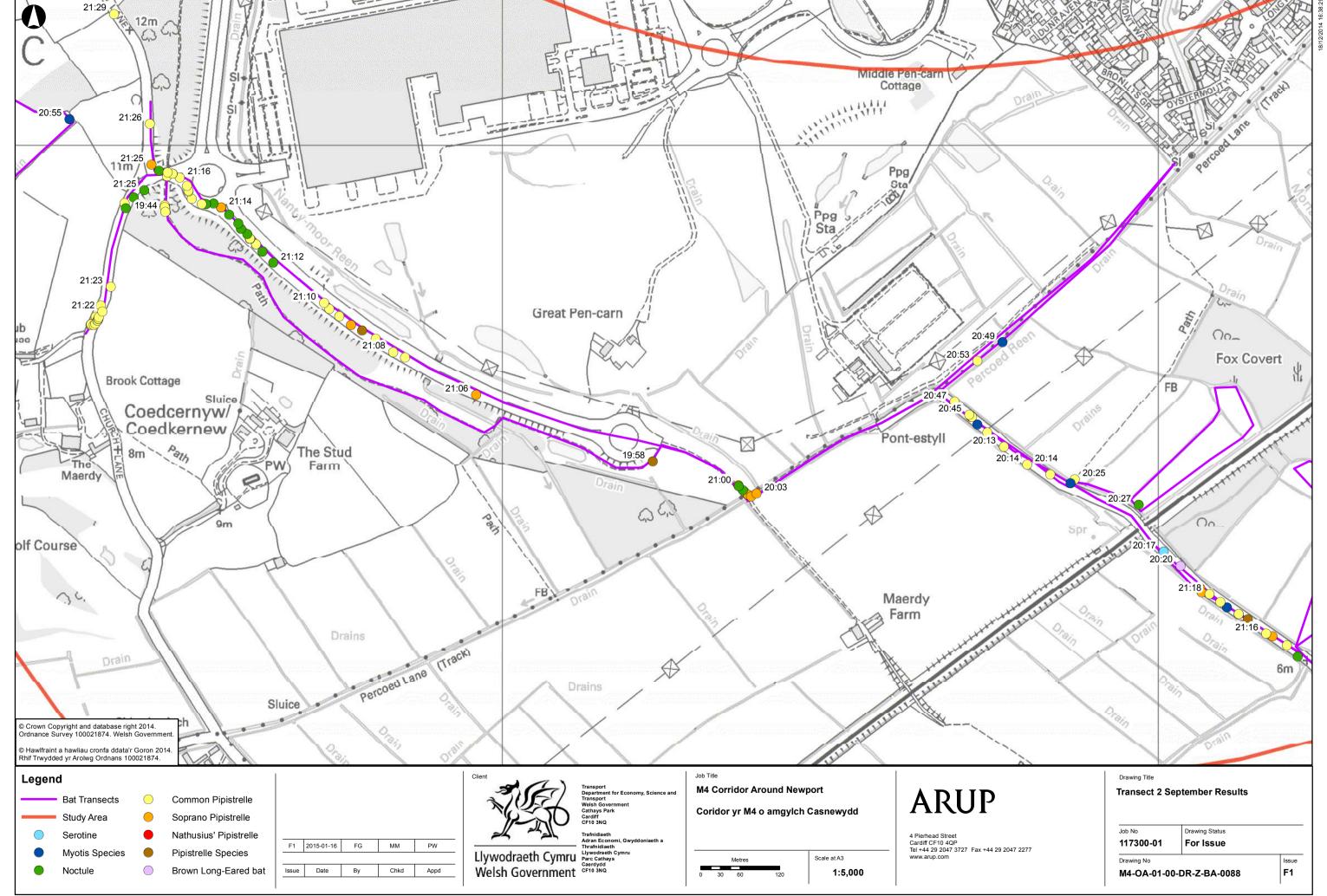


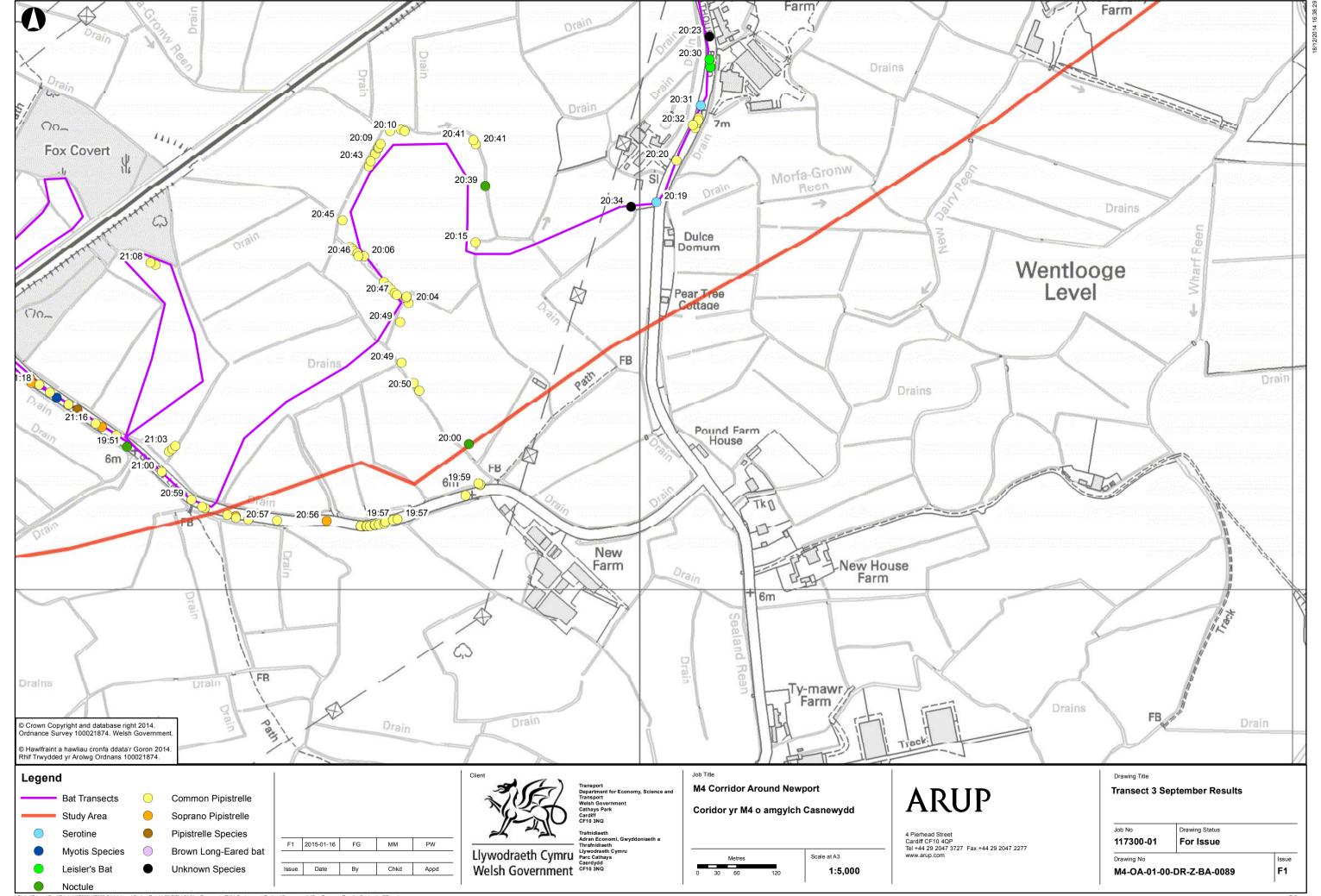


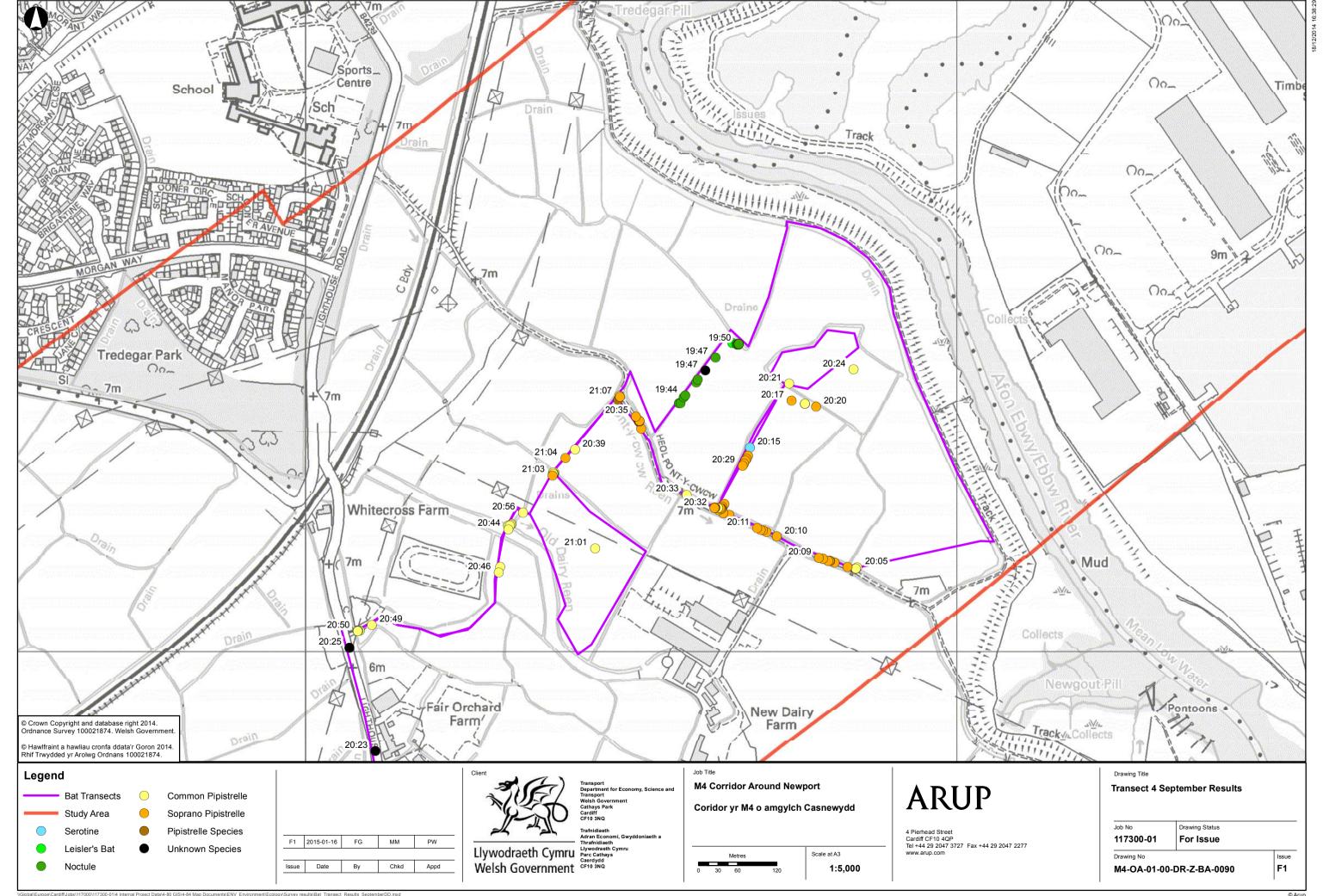


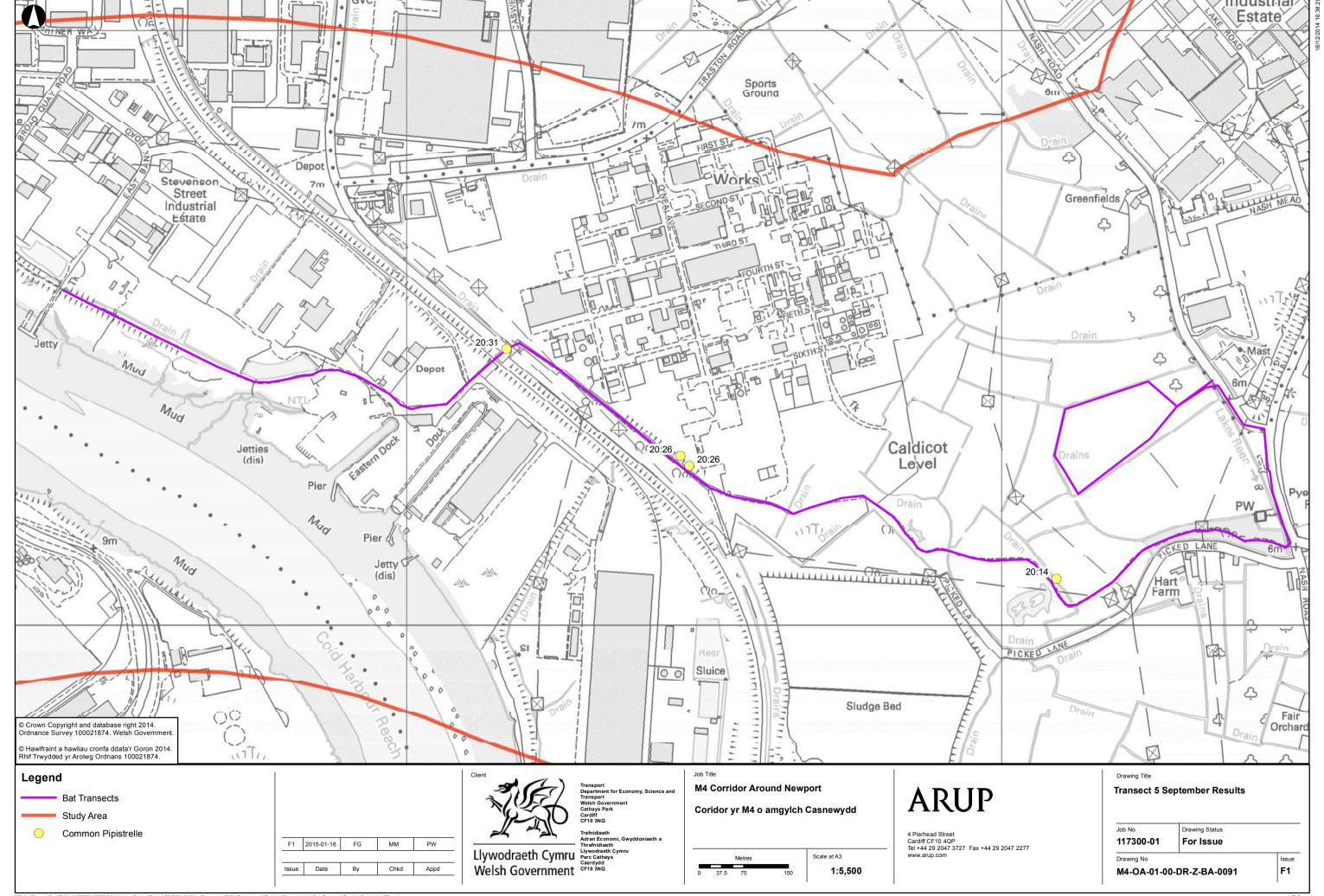


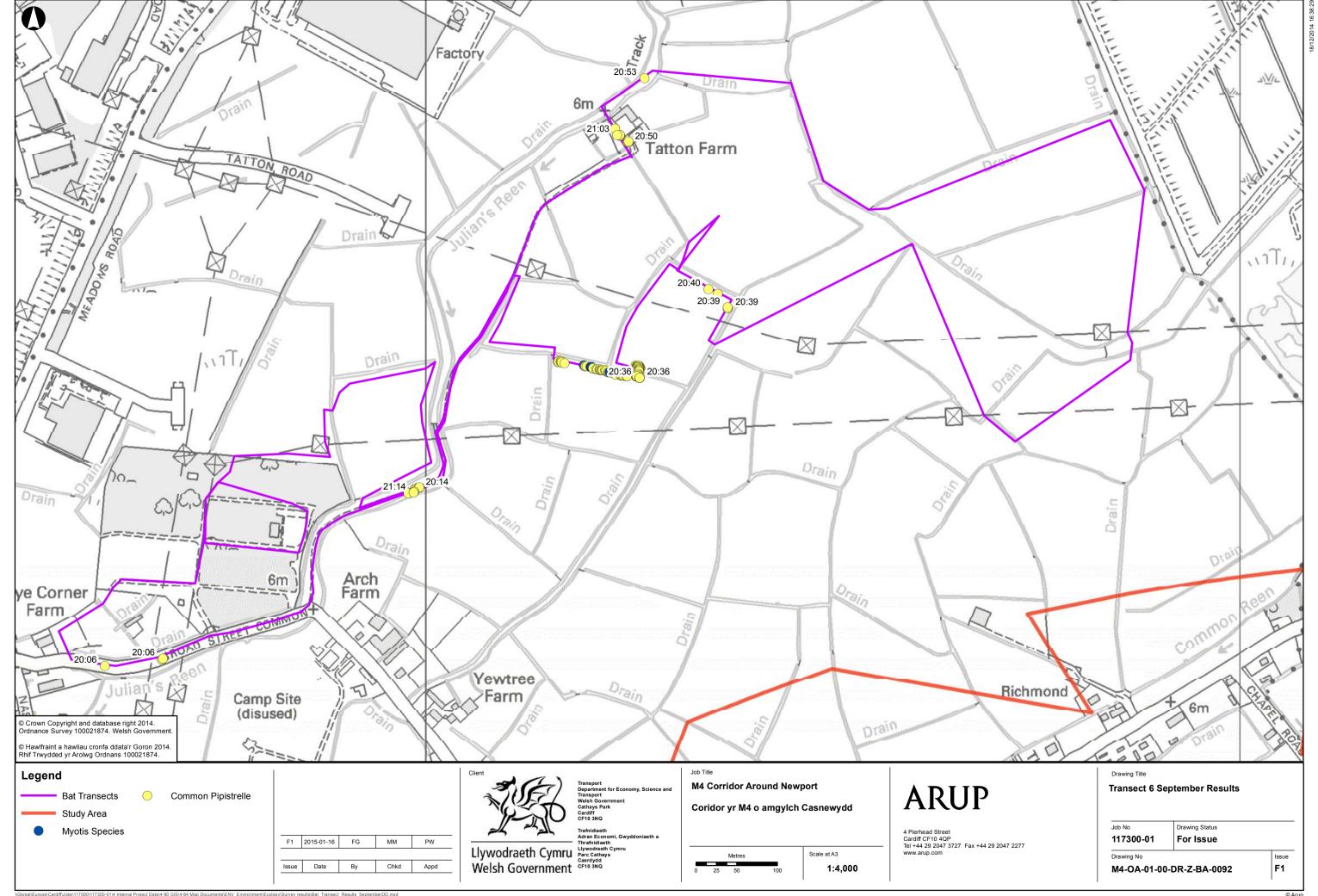


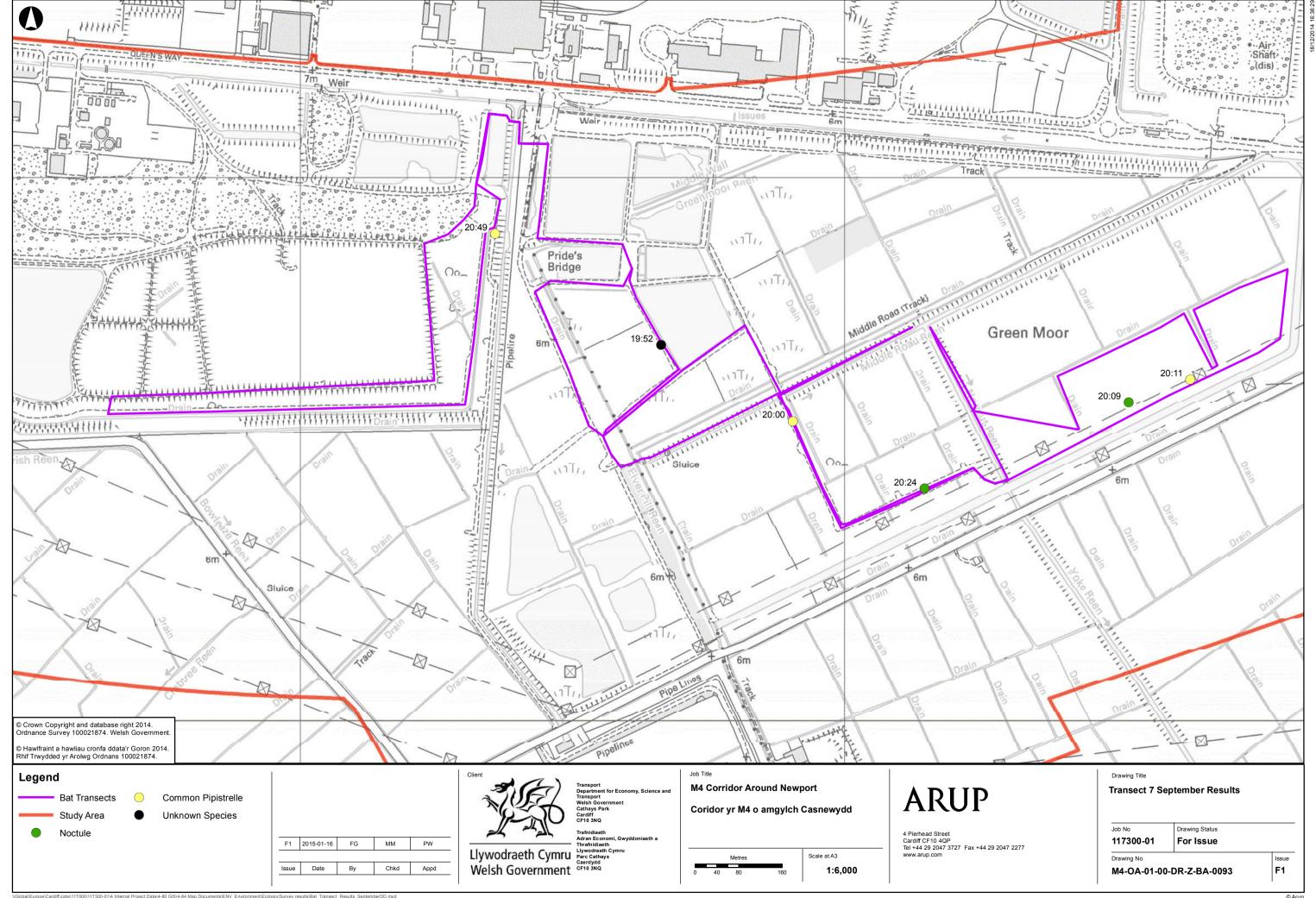


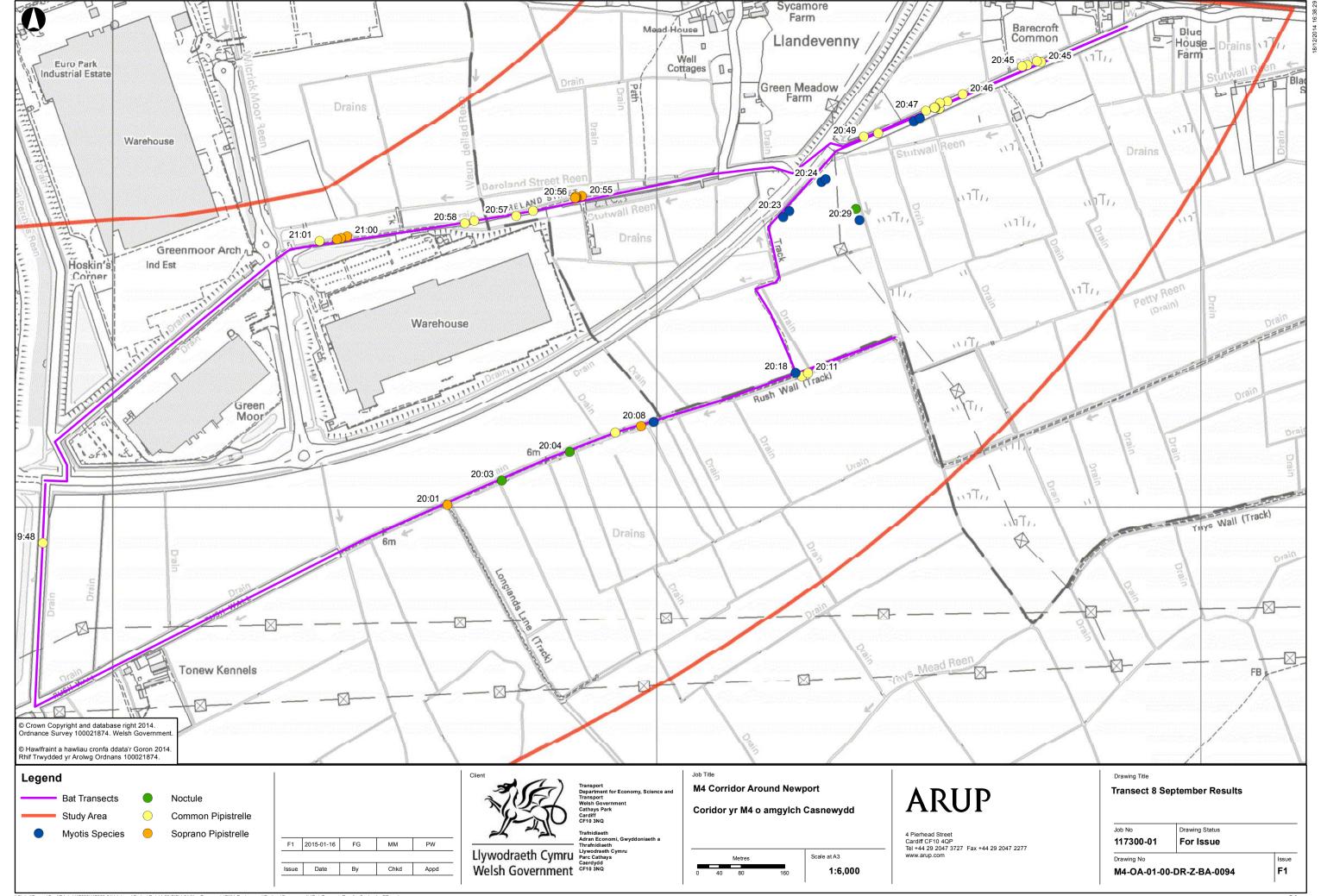


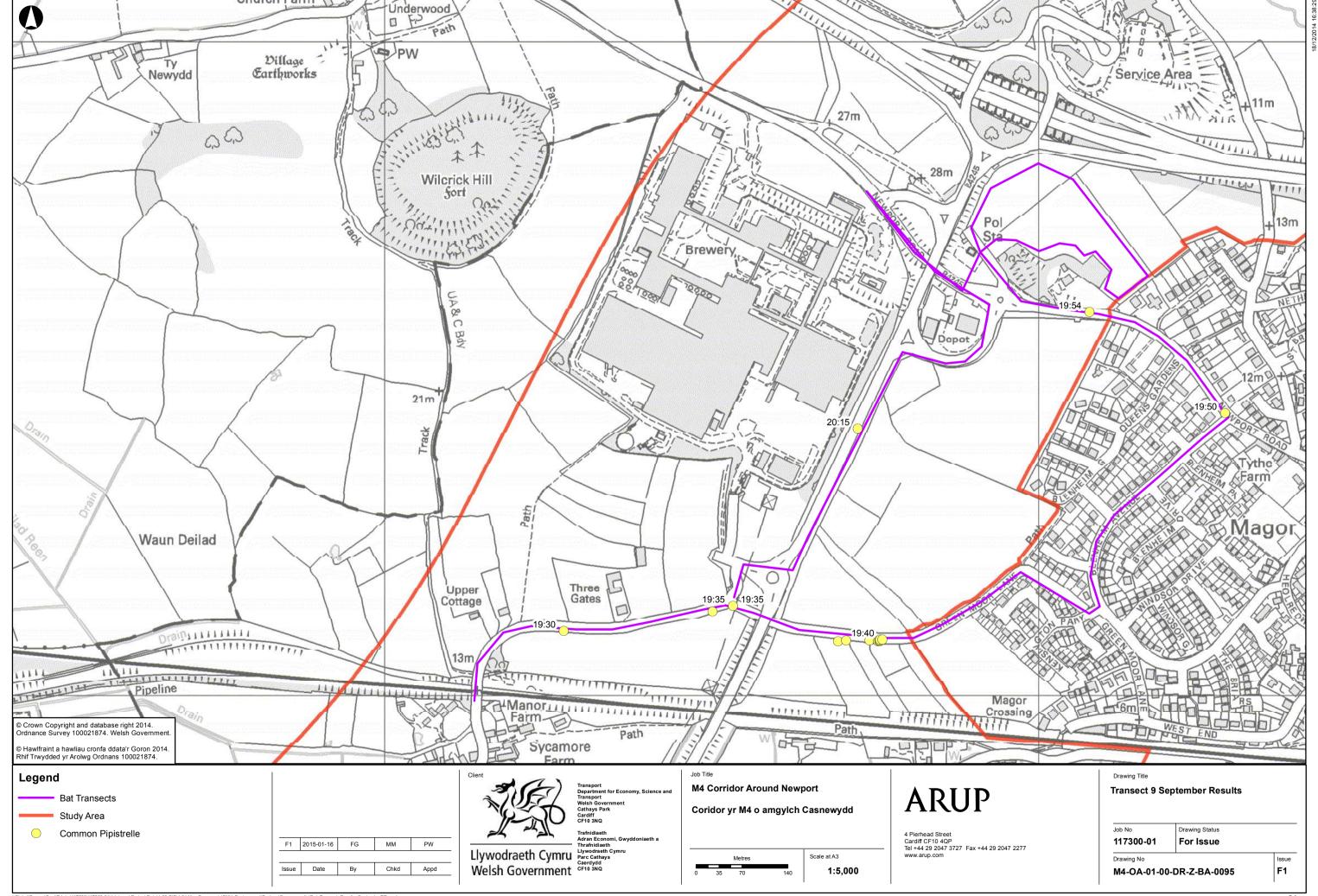


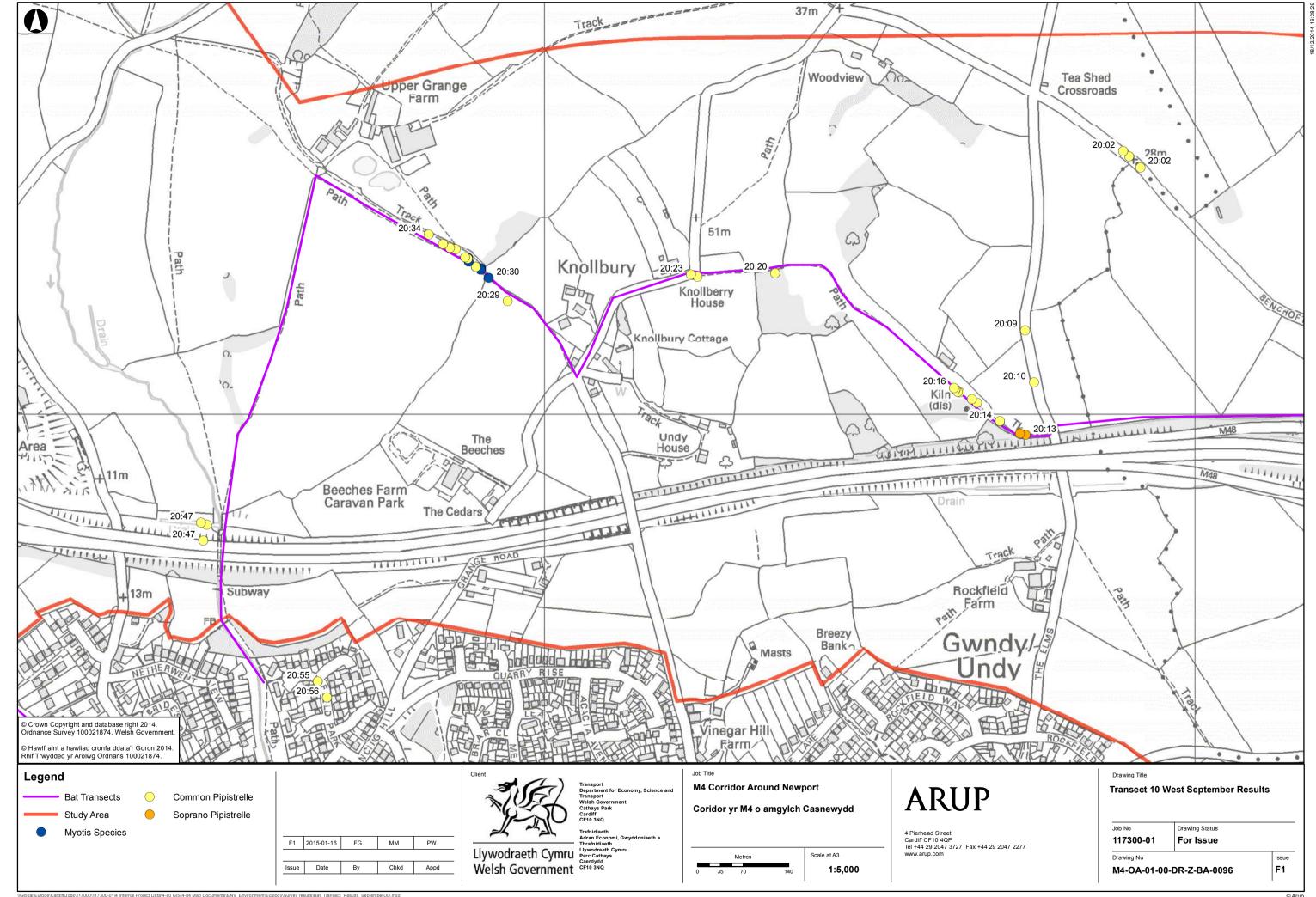


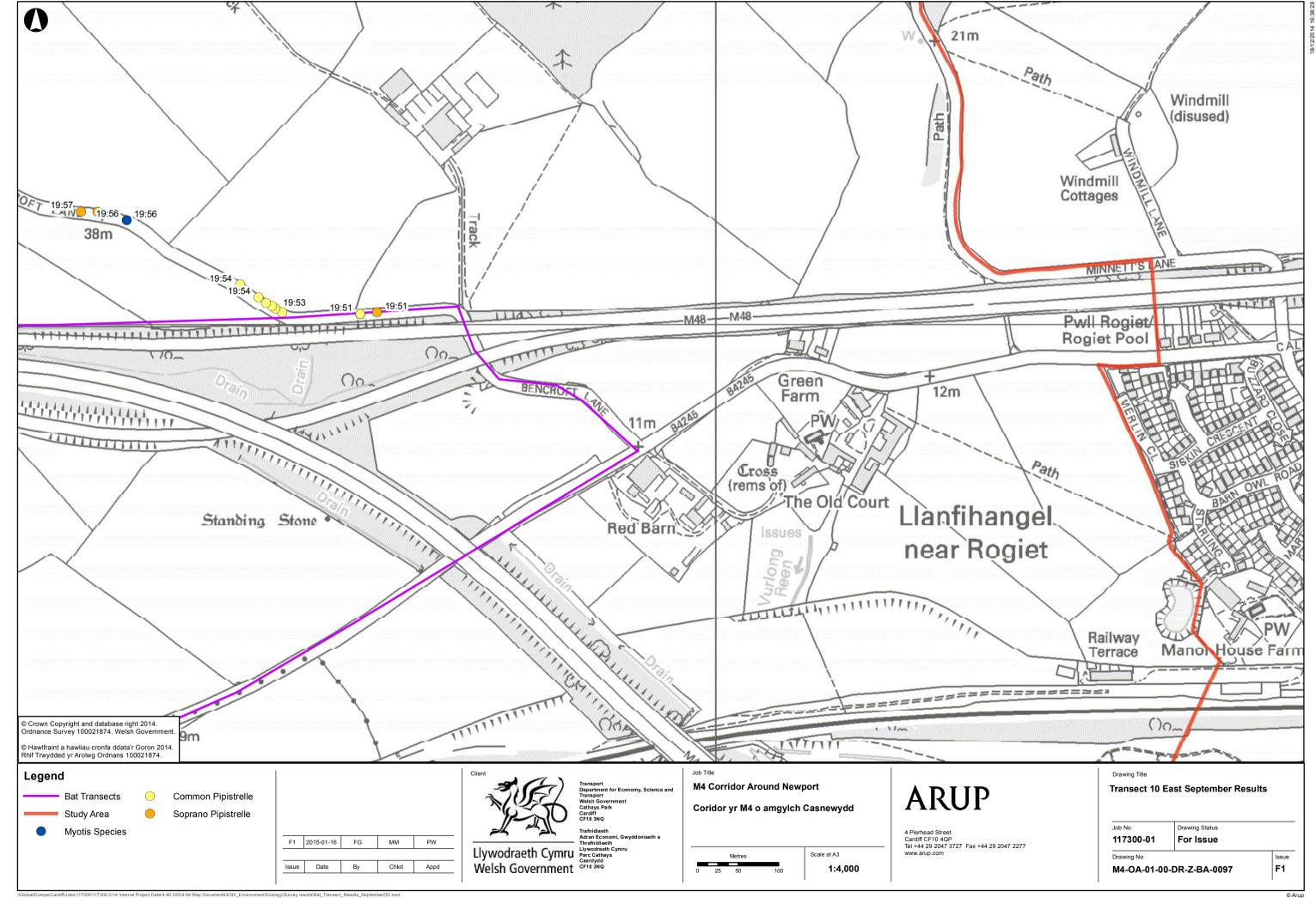


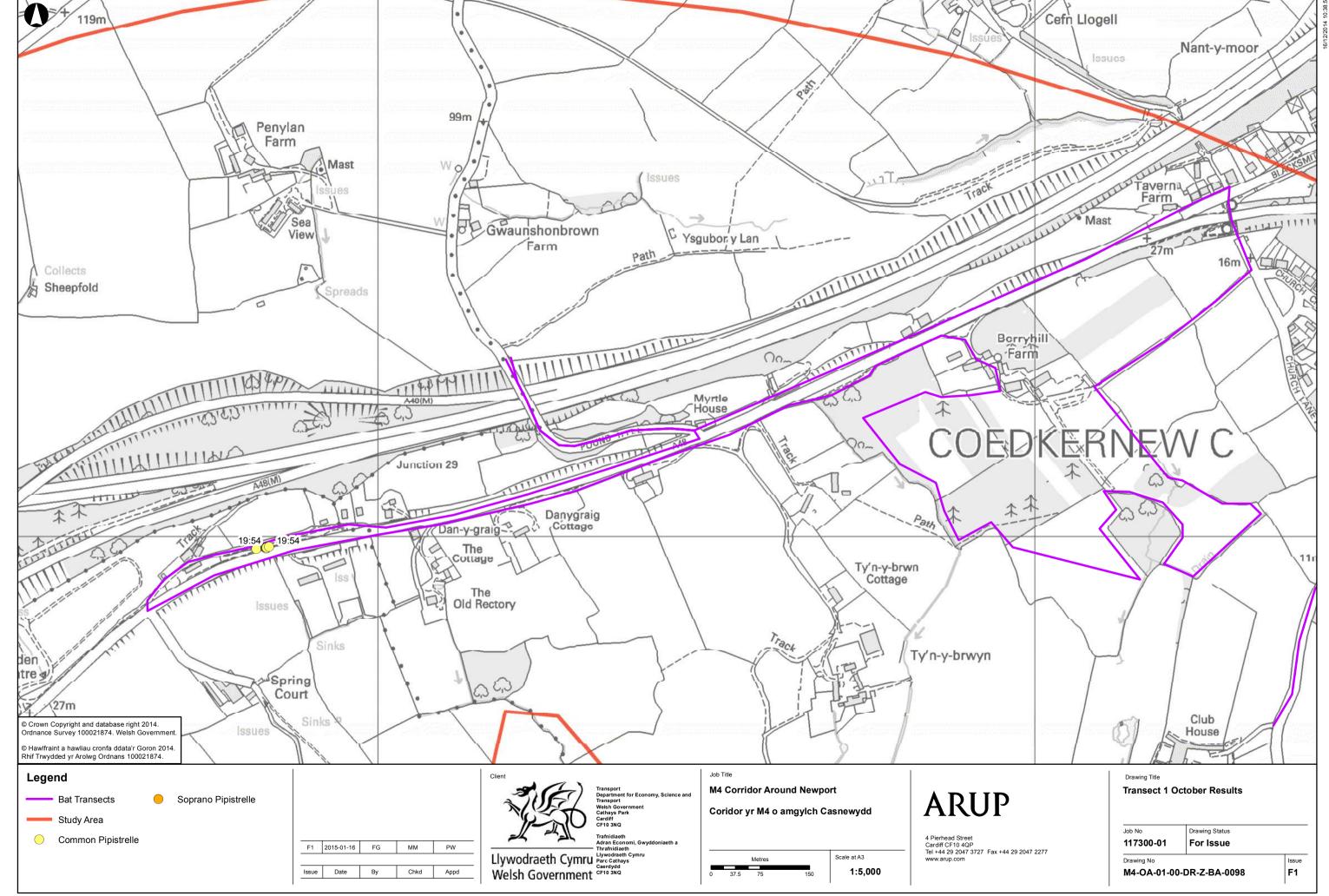


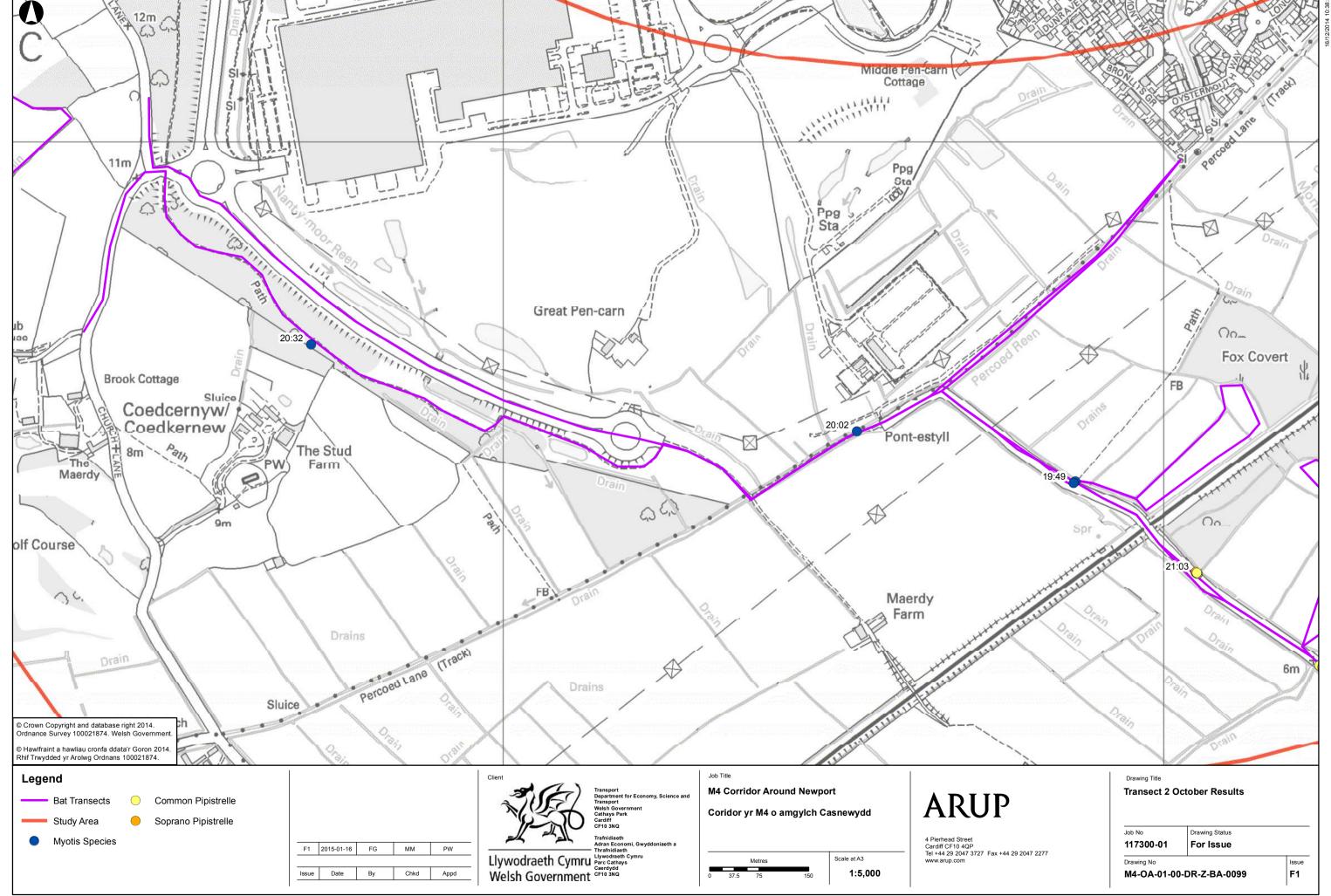


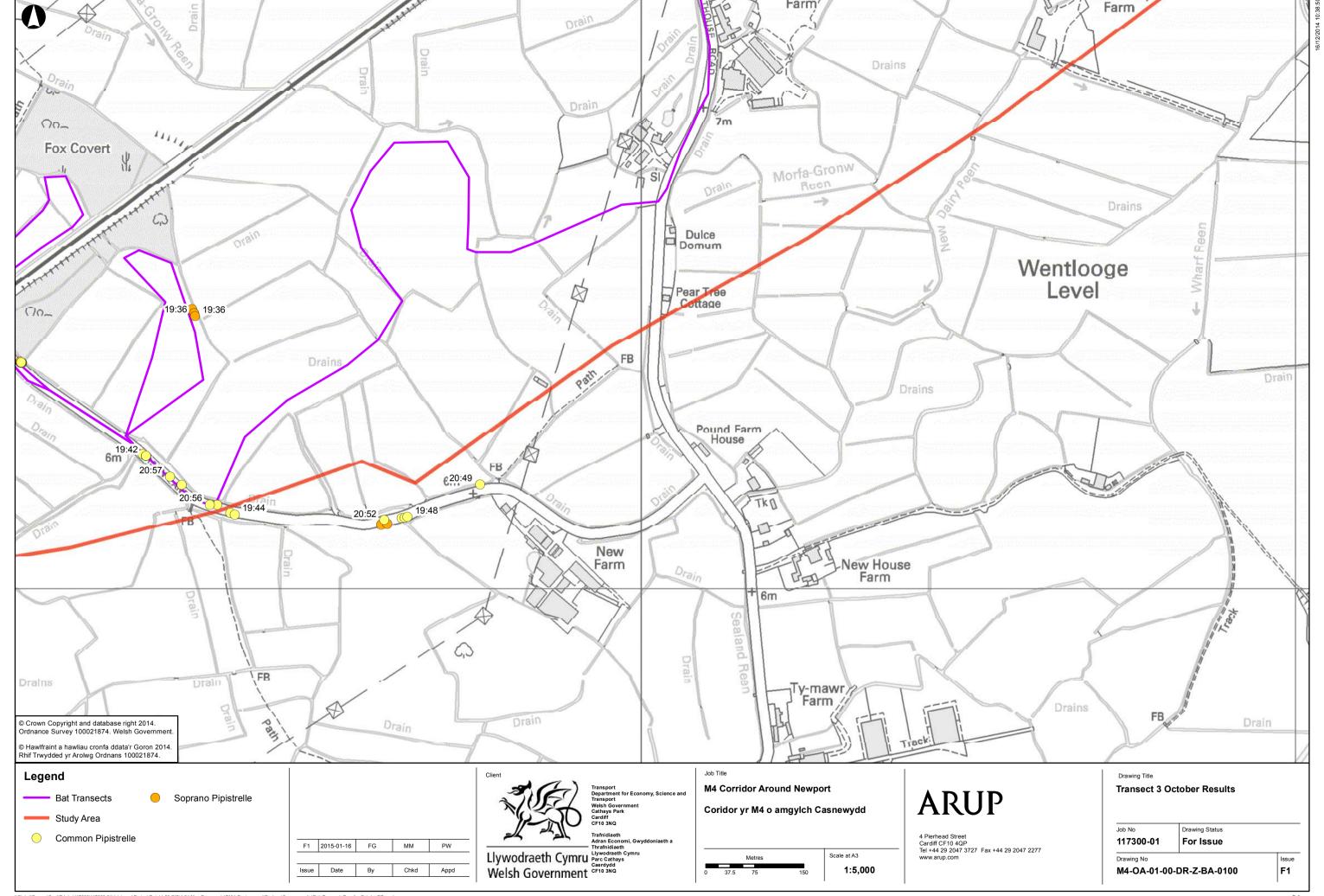


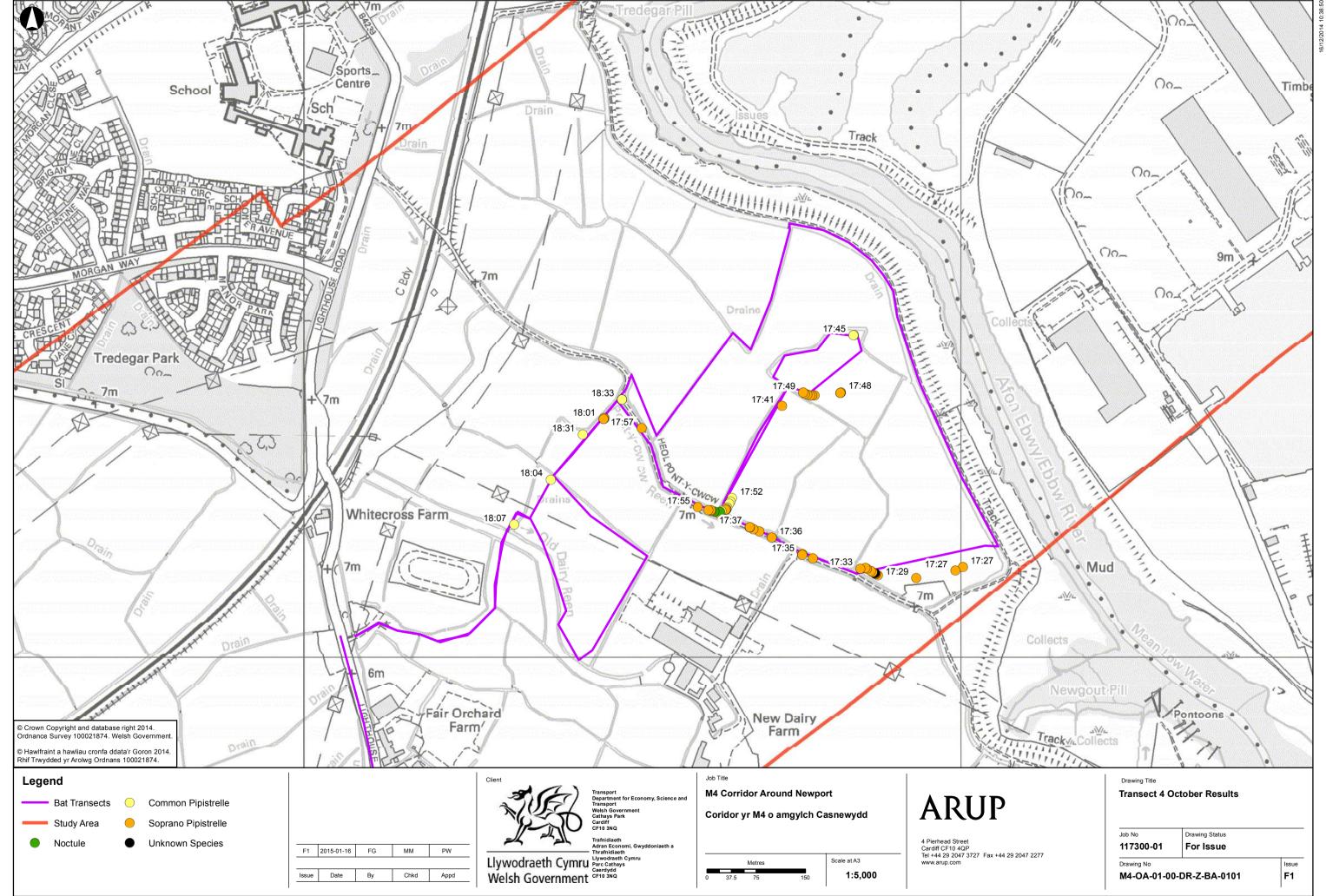


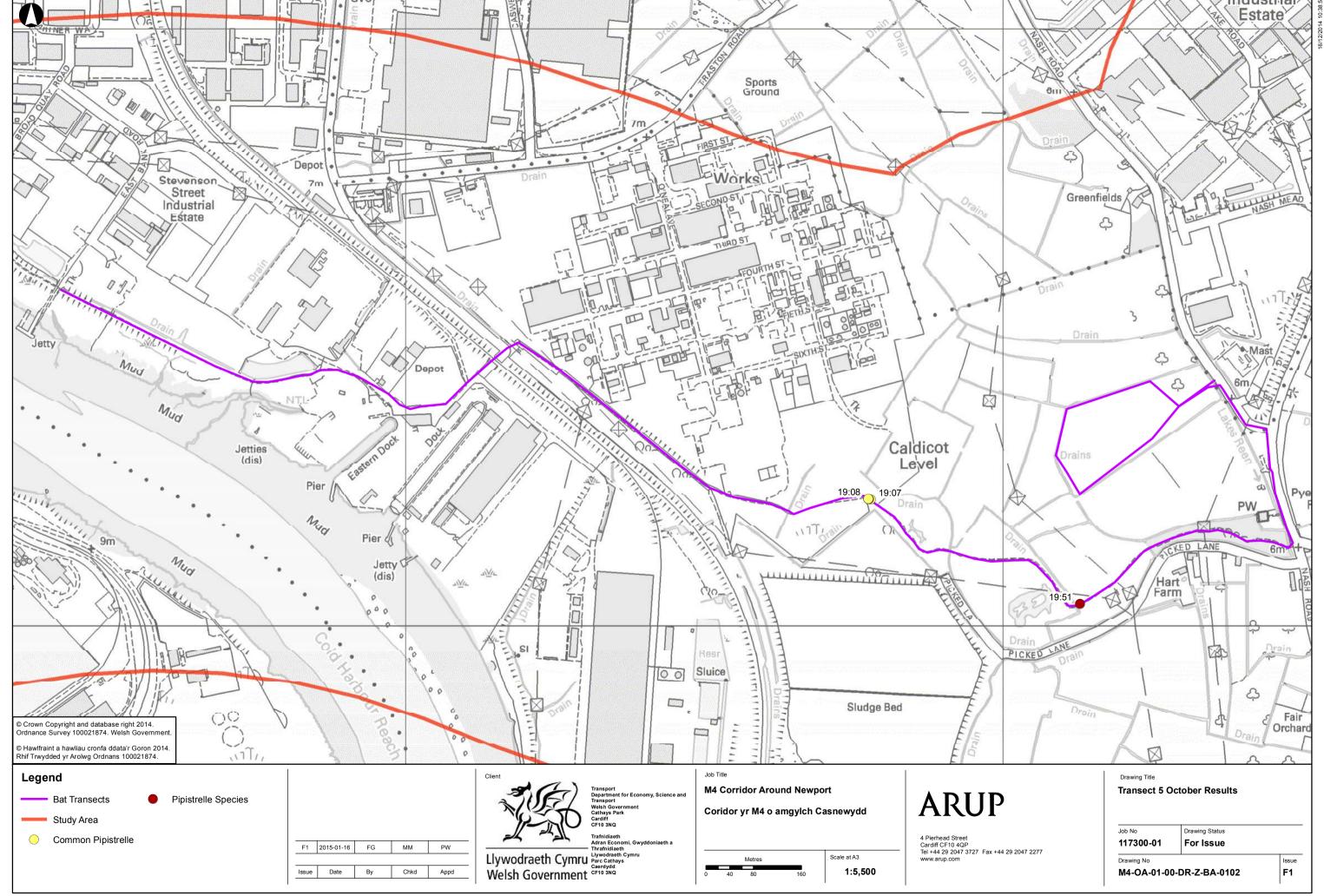


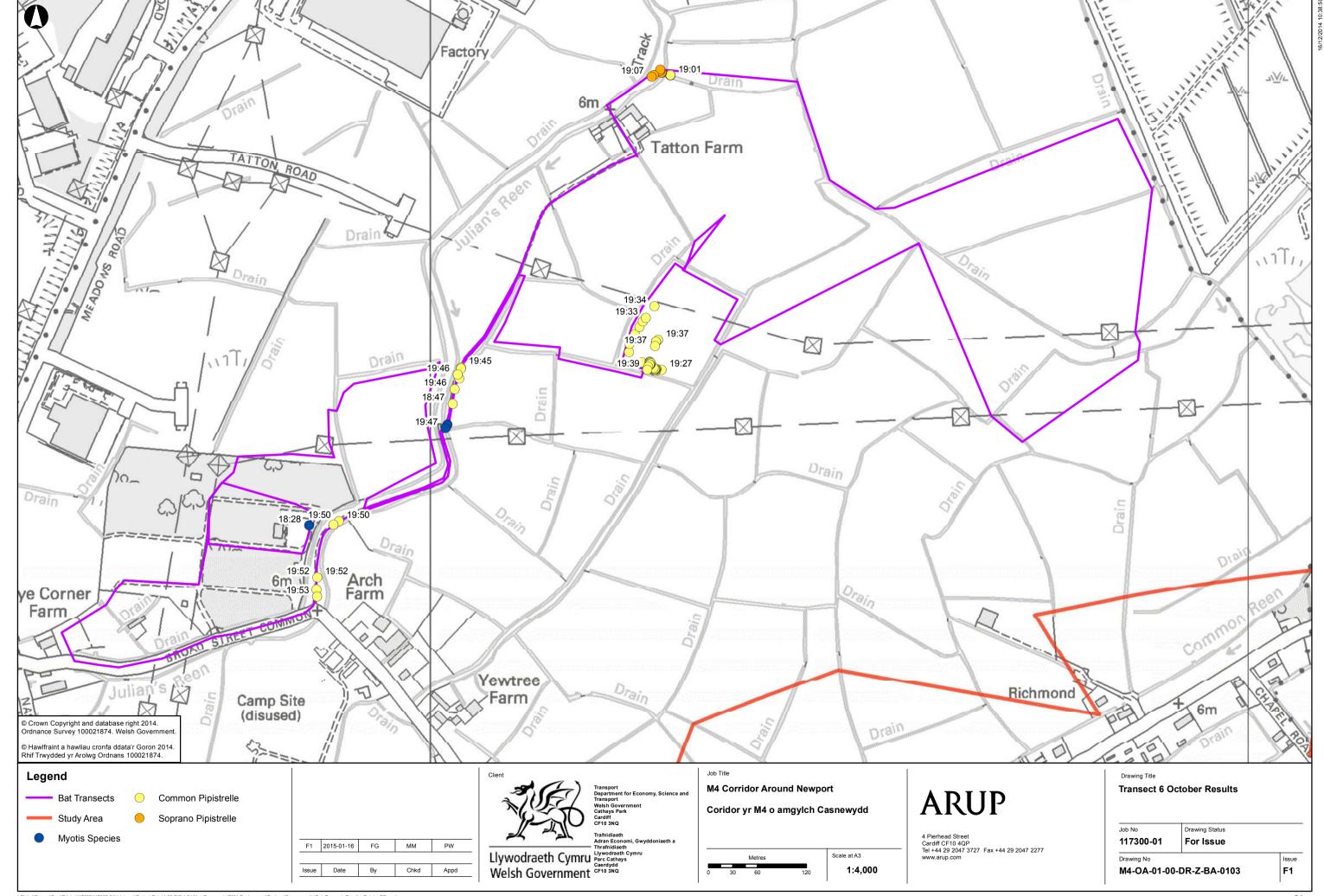


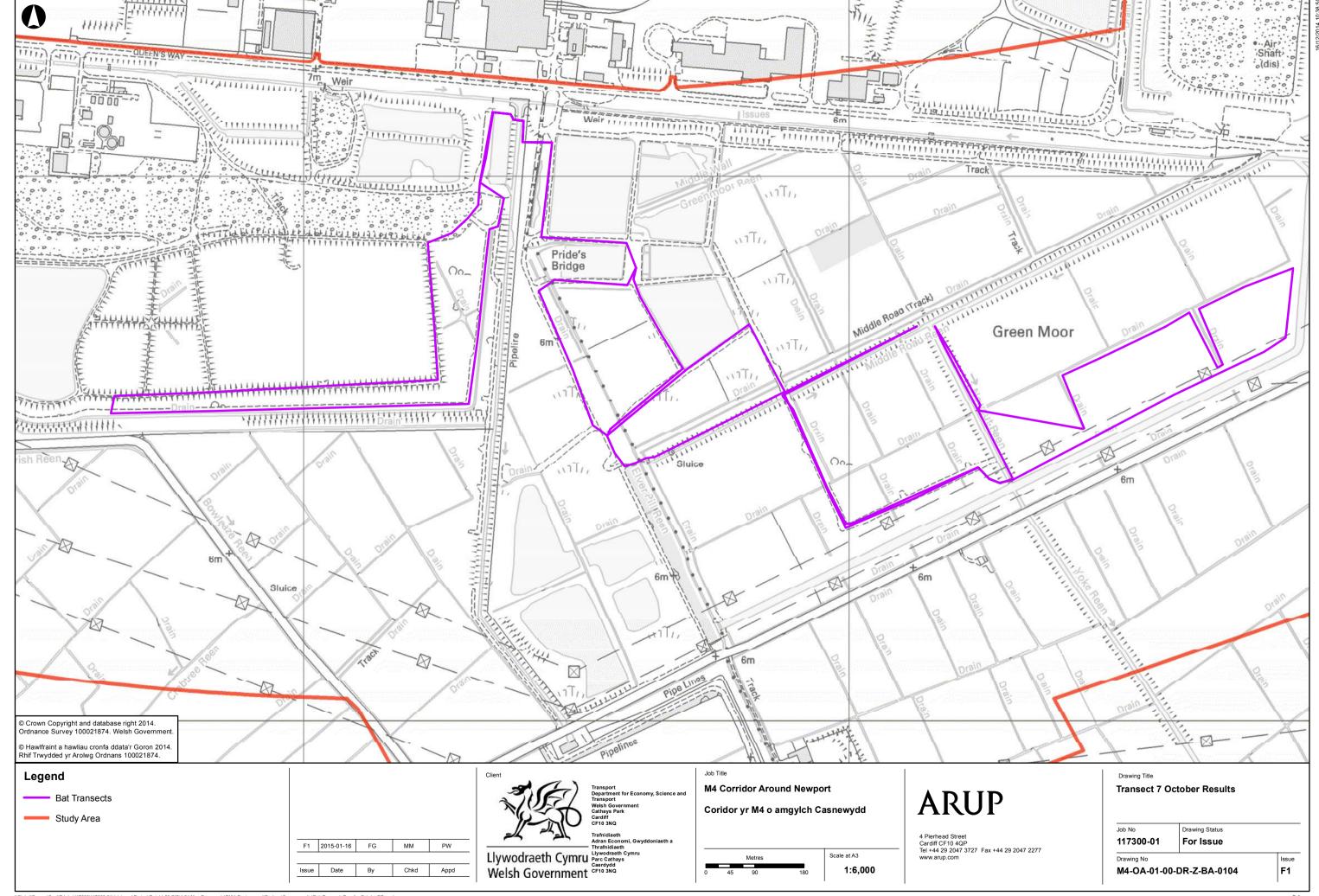


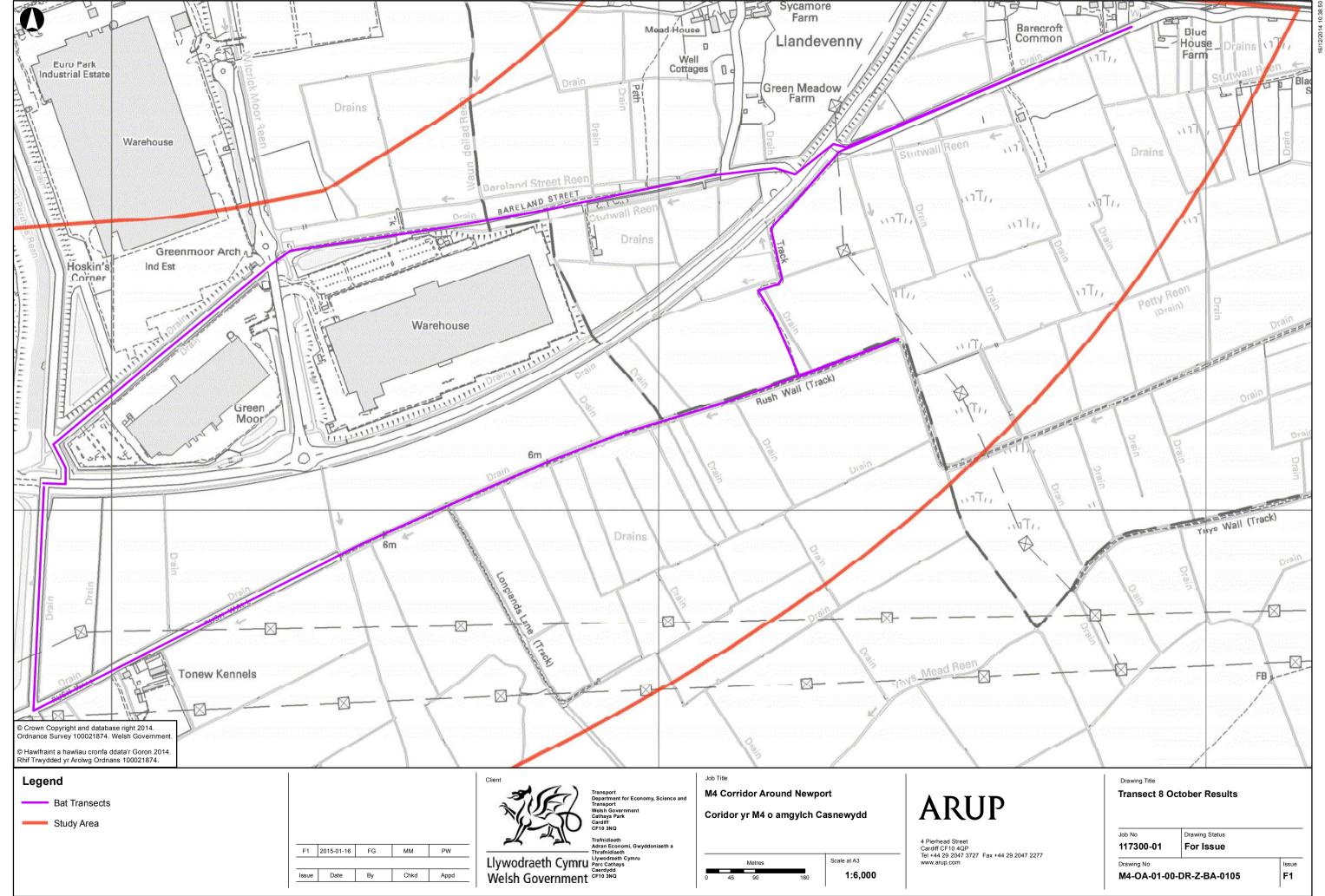


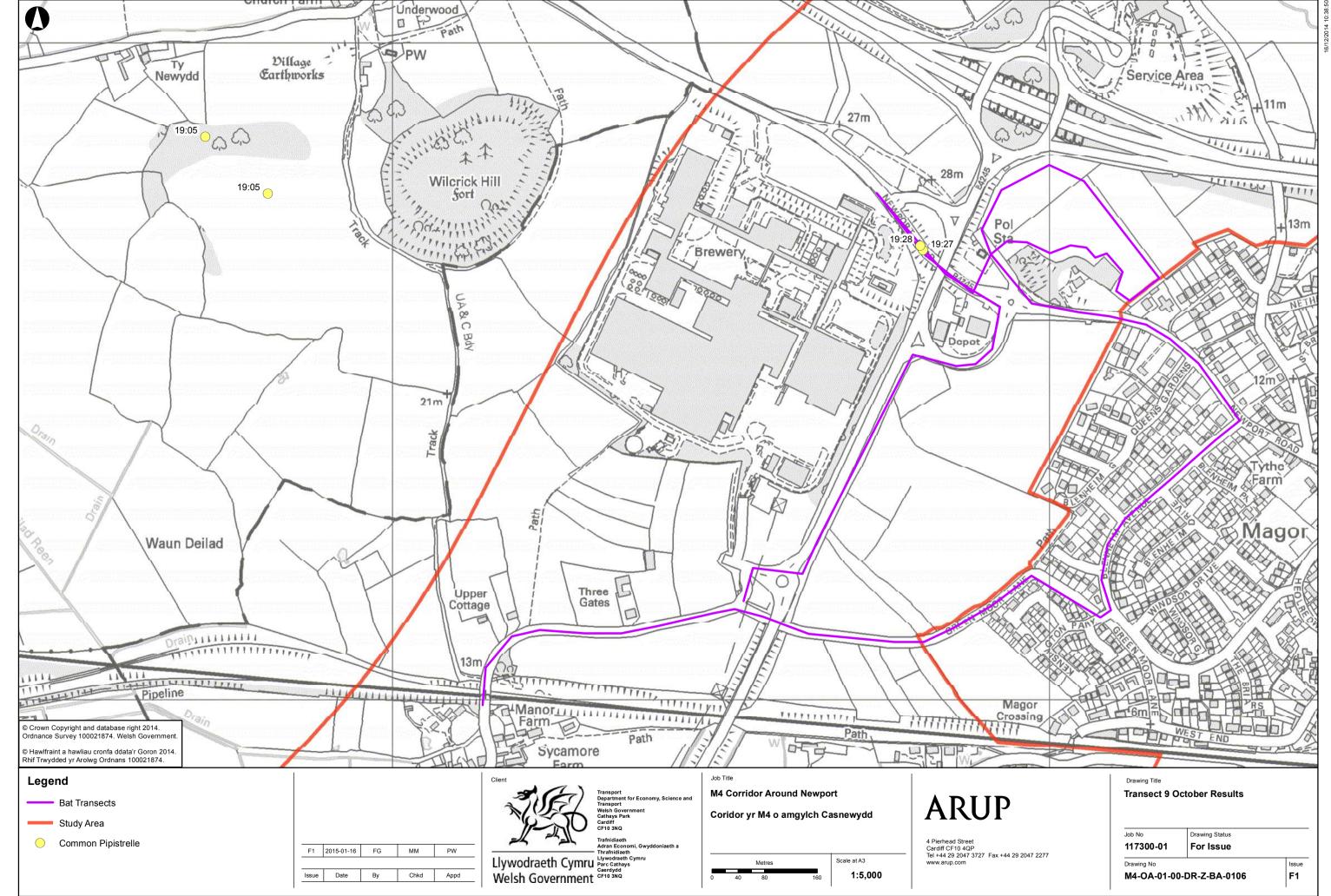


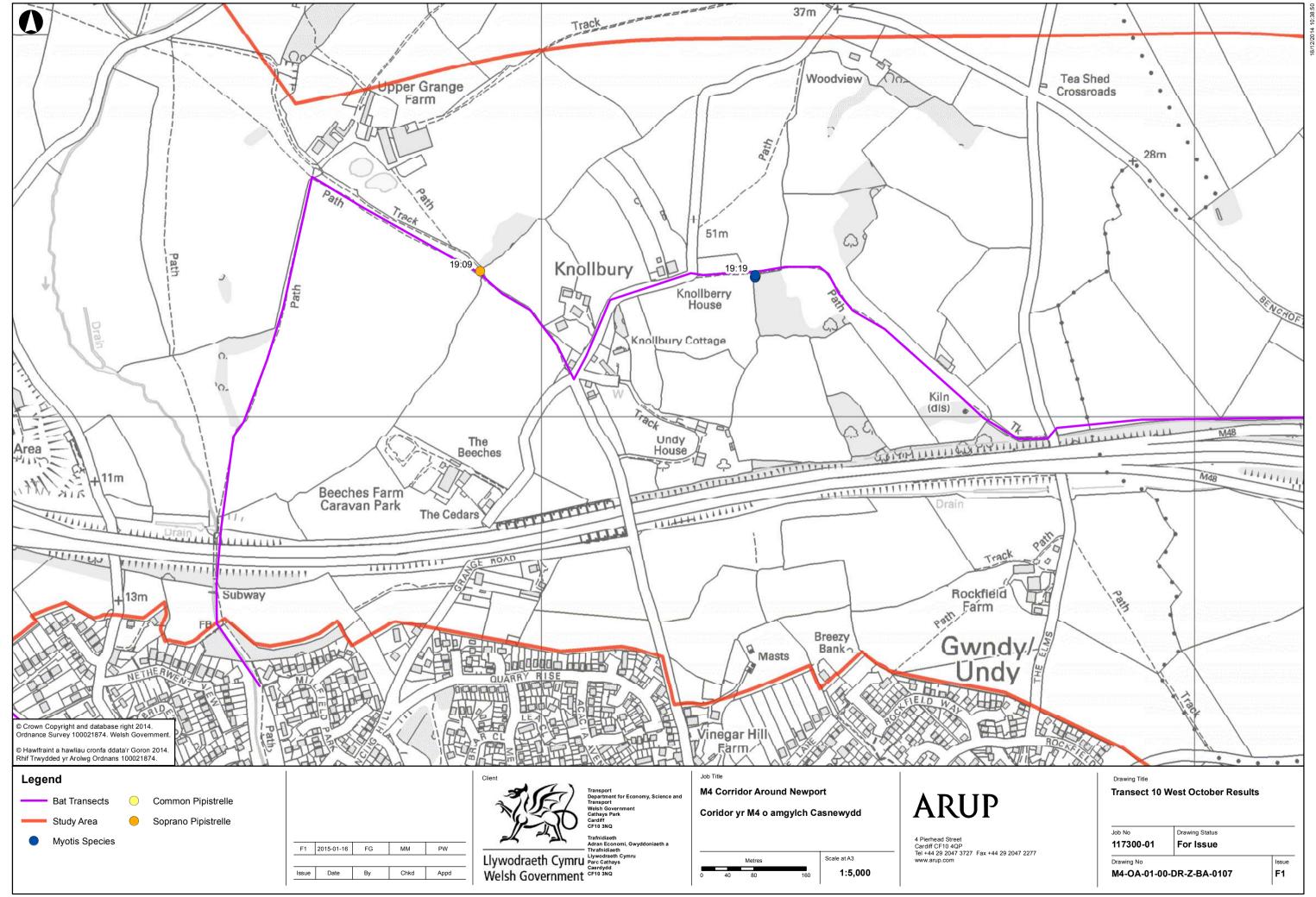


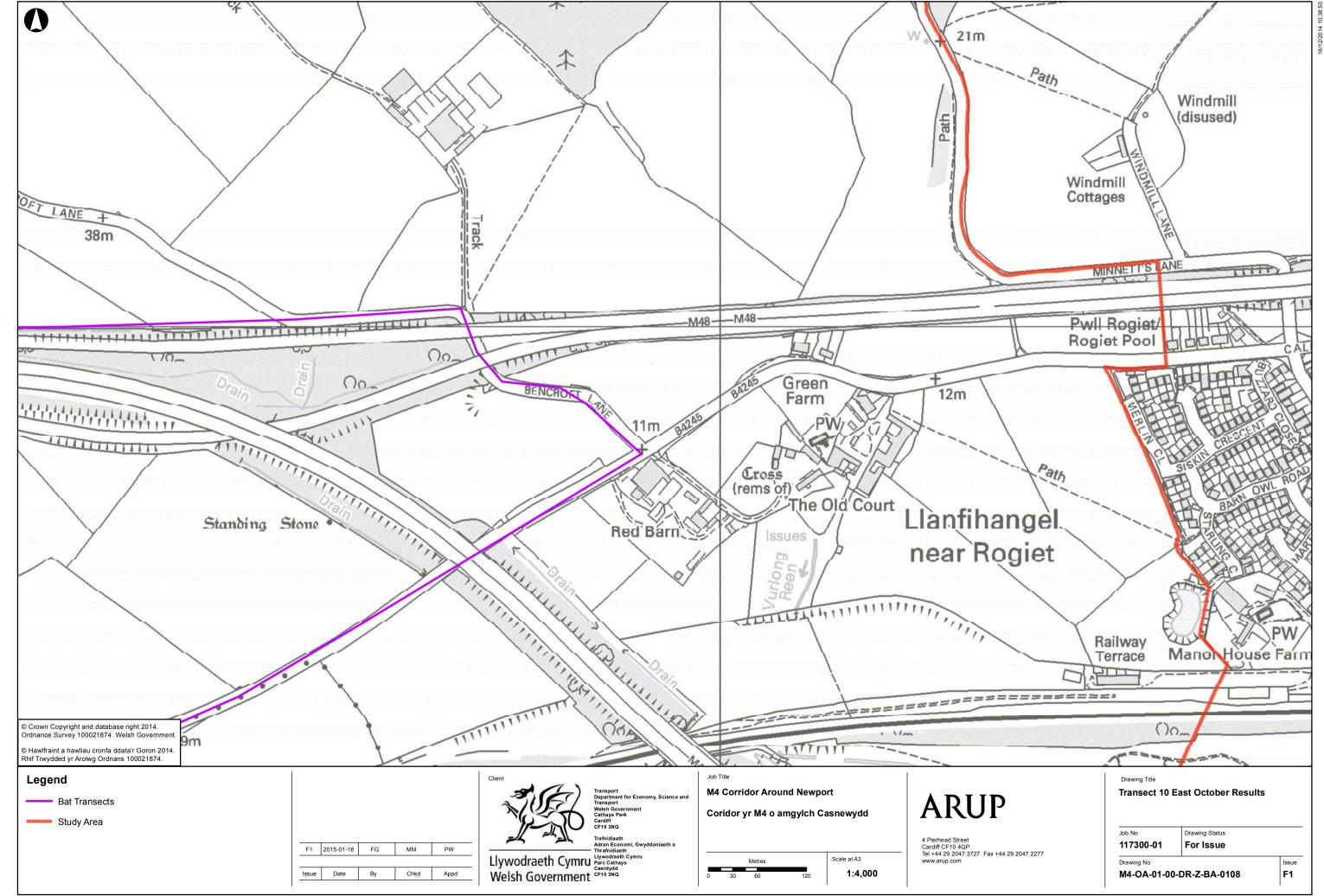


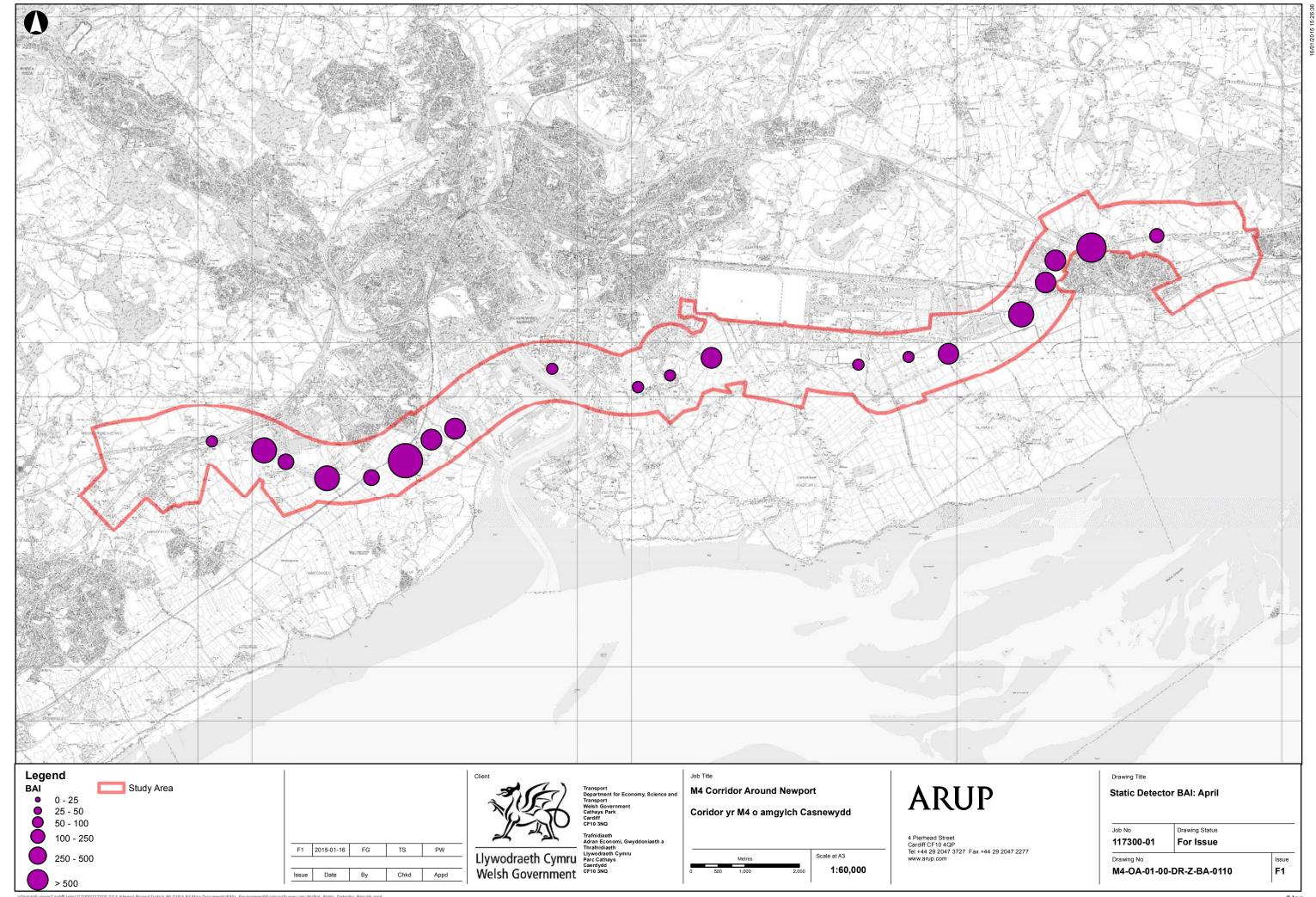


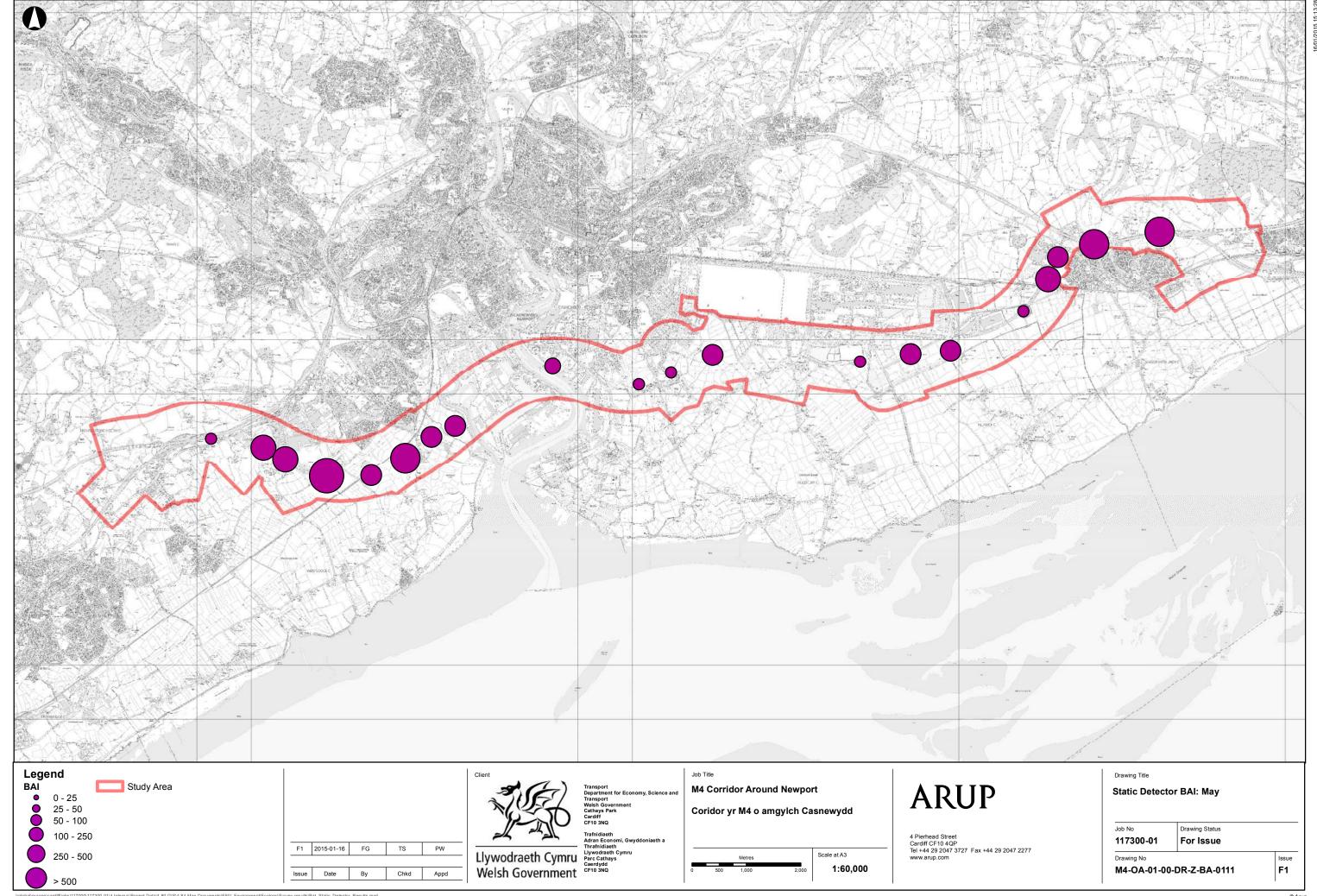


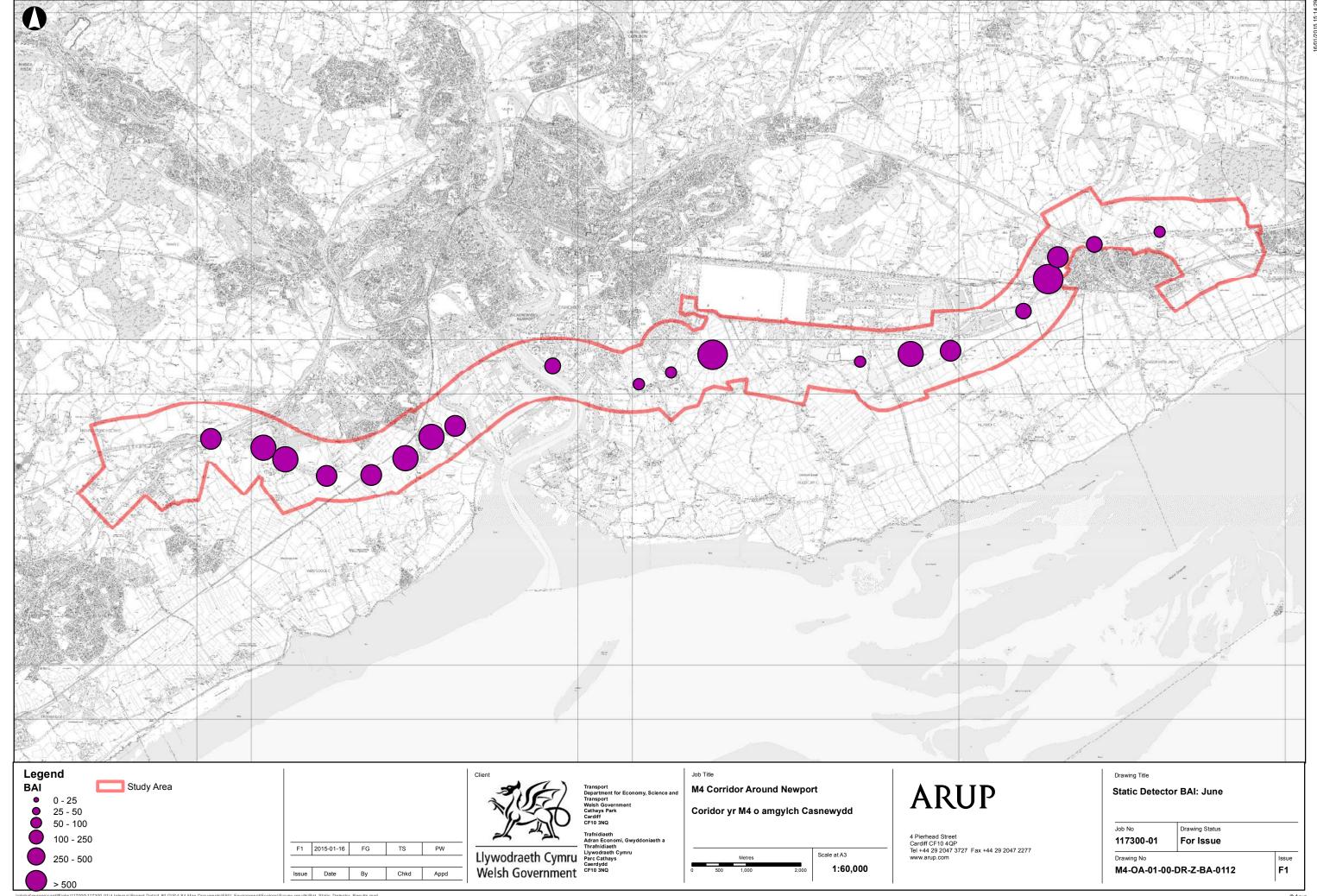


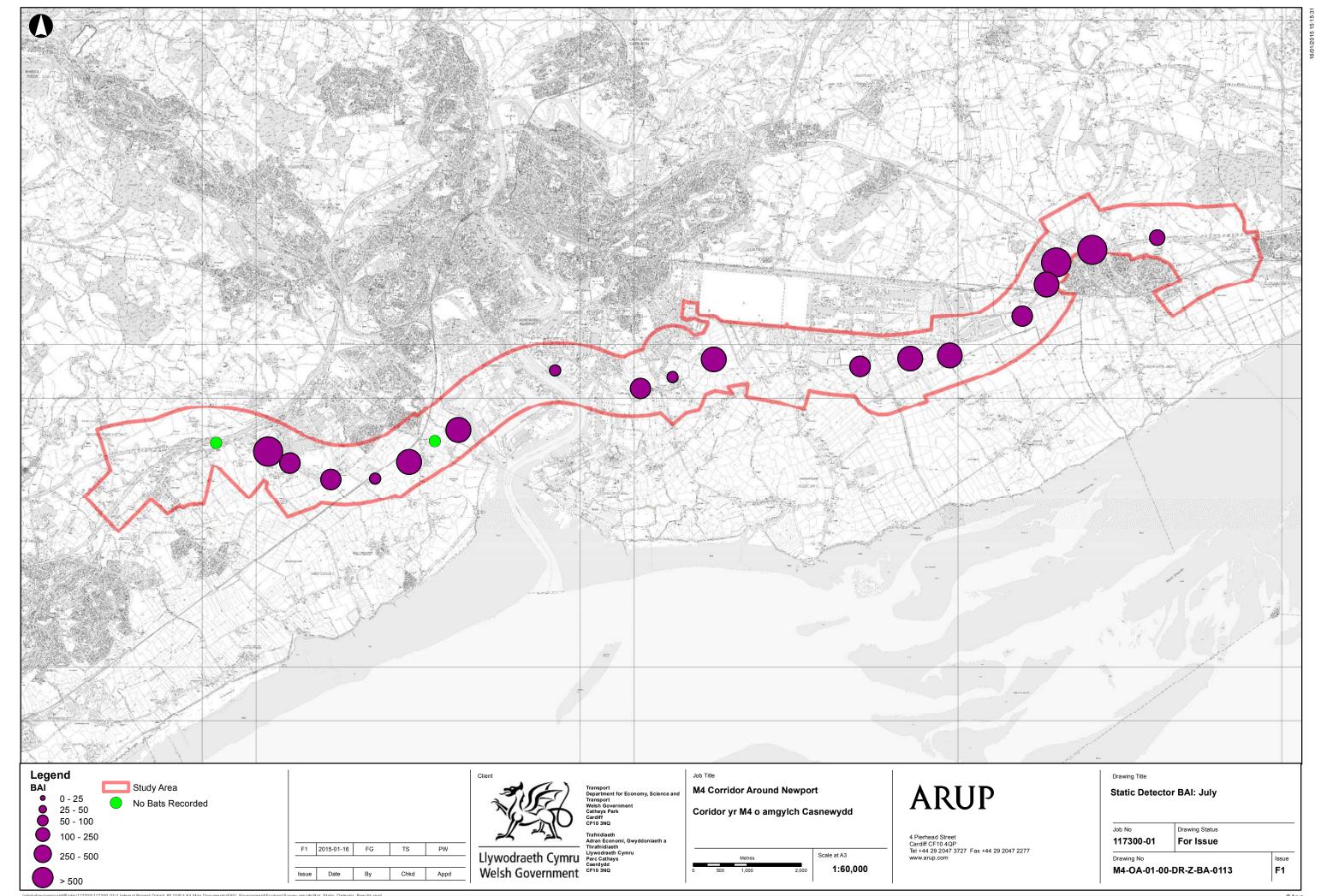


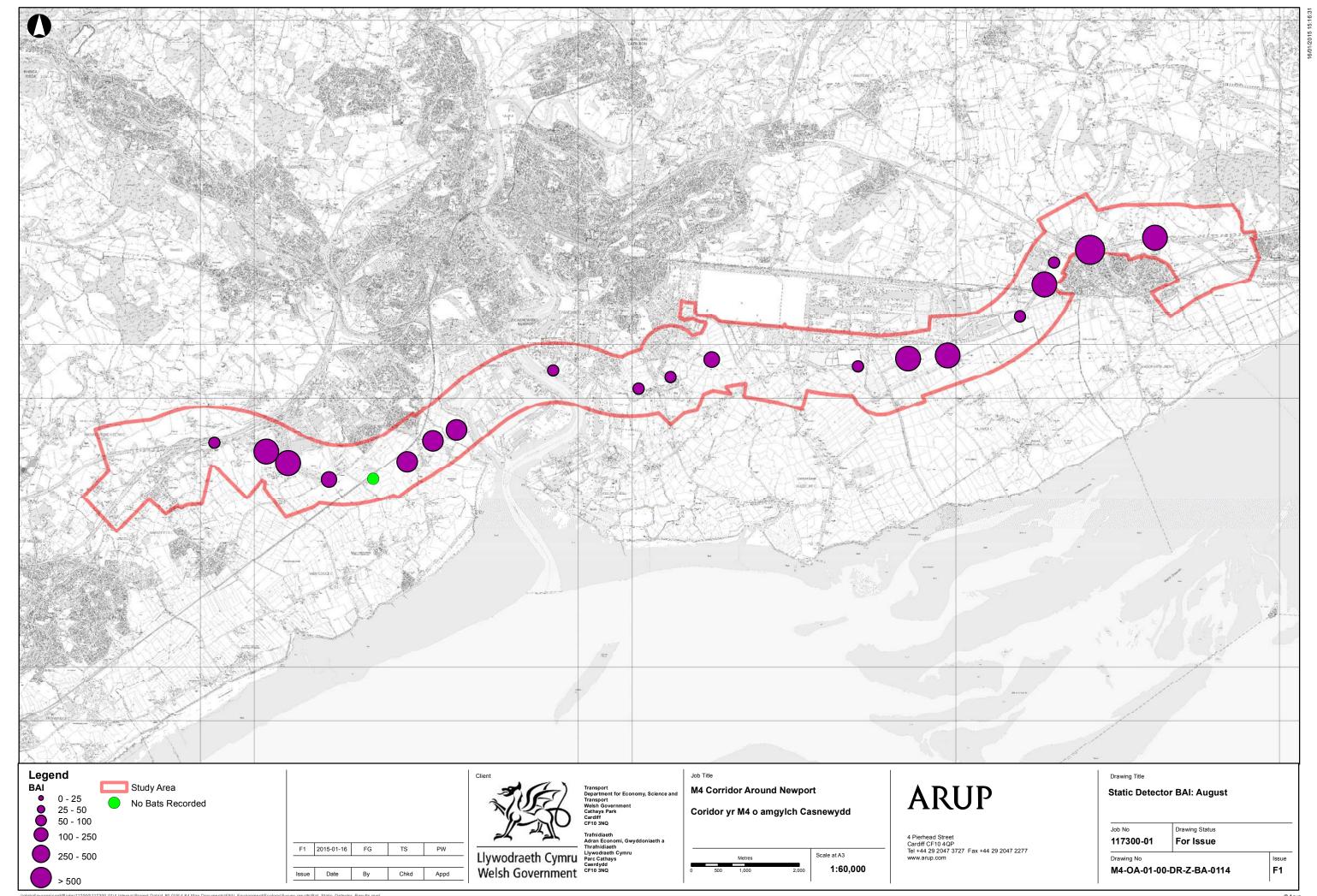


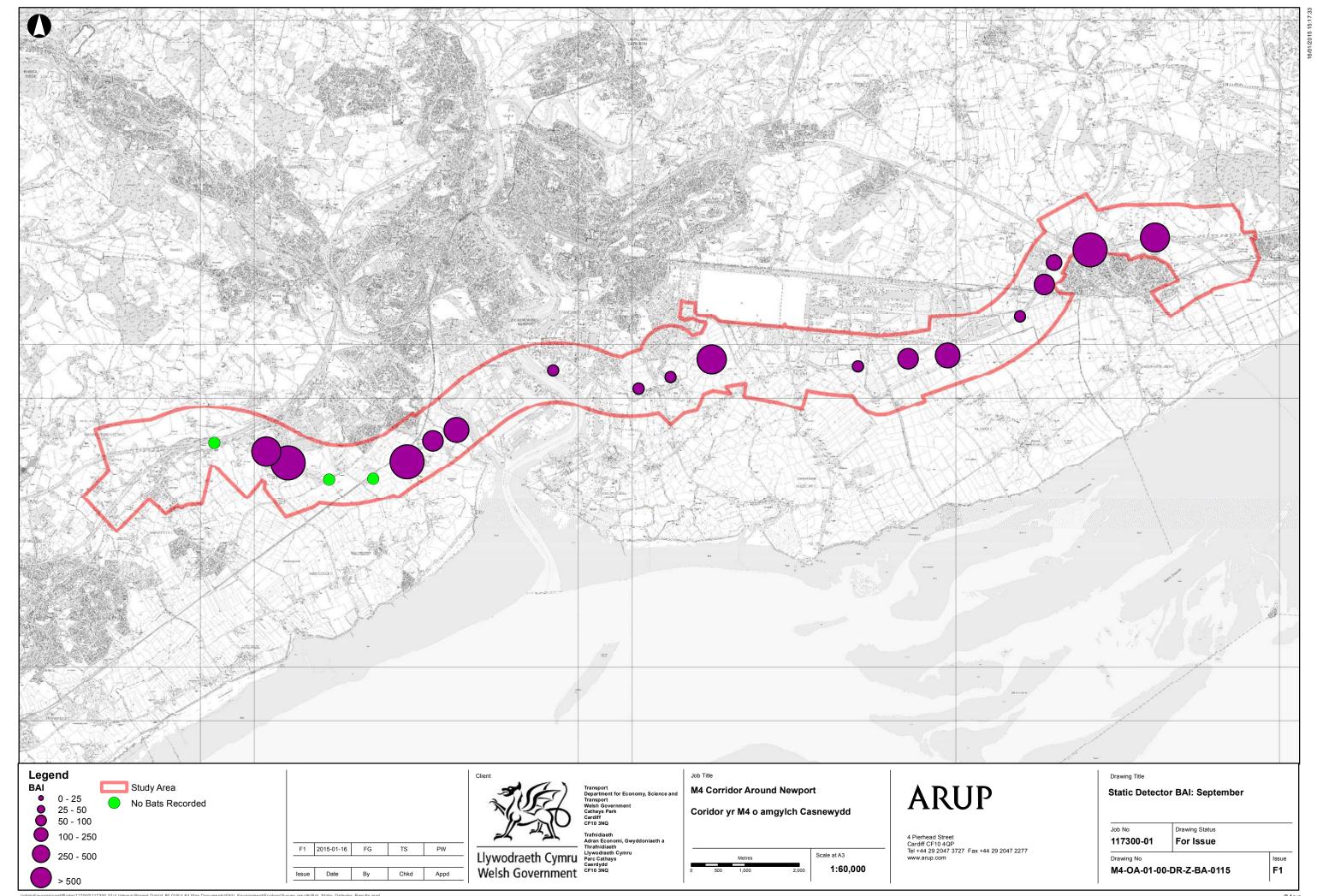


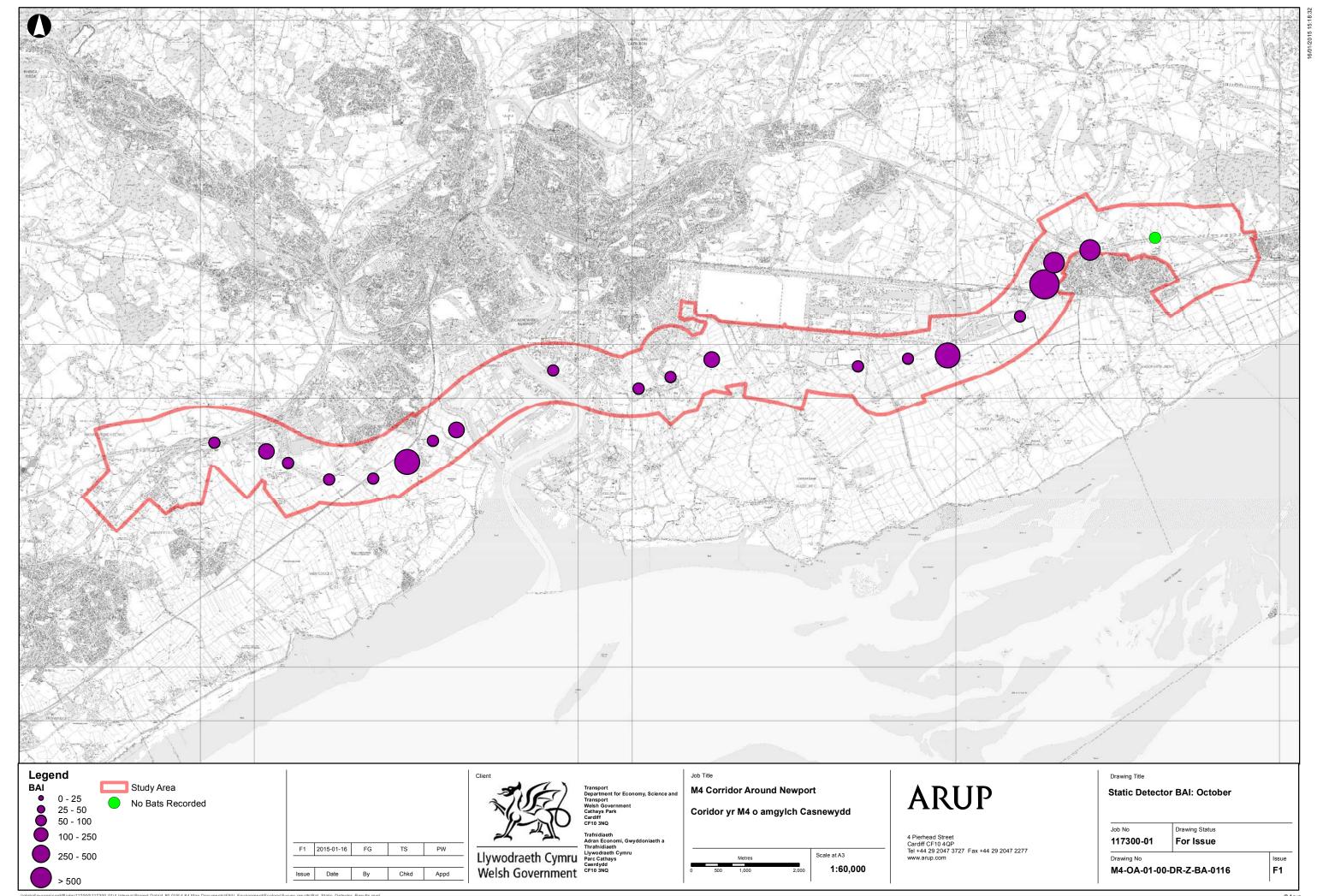












# **Appendix A**

Transect Dates and Weather Conditions

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Month	Transect	Night	Sunset	Surveyor 1	Surveyor 2	Detector	Start time	End time	Duration after sunset	Start temp (°C)	End temp (°C)	Cloud @ start (eighths)	Cloud @ end (eighths)	Wind speed @ start (Beaufort)	Wind speed @ end (Beaufort)	Rain @ start	Rain @ end	Start notes	End notes	Access issues / constraints / notes
April	1	06/05/2014	20:43	AP	JD	SD1	20:15	22:50	02:07	14	13	4	8	F1	F1	Dry	Occ + Drizzle	Occ light spots		No crossing points across various fields, barbed wire fences and gate at eastern driveway to farm
April	2	30/04/2014	20:34	RC	A?	SD1	20:30	22:25	01:51	15		8	8			Dry	Occ + Drizzle	Occ light spots	Shower from 21:20- 21:35	
April	3	30/04/2014	20:34	SW	JW	SD2	20:30	22:23	01:49	12	12	8								Original route not possible due to lack of reen crossing points
April	4	30/04/2014	20:34	RD	CR	SD2	20:35	22:10	01:36			5	8				Intermitten t			
April	5	30/04/2014	20:34	JL	RG	ЕМ3+	20:28	22:23	01:49											
April	6	30/04/2014	20:34	BF	JD	SD2	20:35	22:15	01:41	14	13	8	8	F1	F1	Dry	Slight	Warm sunny dry day	Slight drizzle for final 30mins	No crossing point to eastern loop
April	7	01/05/2014	20:35	AP	JD	SD1	20:09	22:39	02:04											
April	8	30/04/2014	20:34	AP	JS	SD1	20:39	22:30	01:56	11				F2						
April	9	01/05/2014	20:35	BF	RD	SD2	20:15	22:07	01:32	13	13	8	8	F2	0	Dry	Dry	Rain in previous hours		
April	10	01/05/2014	20:35	RC	JS	SD2	20:34	22:32	01:57											
May	1	20/05/2014	21:05	MD	JD	SD2	21:05	23:20	02:15	14	13	1	4	F5	F1	Dry	Dry			
May	2	20/05/2014	21:05	RC	AS	SD2	21:05	22:52	01:47	14.5	12.5	3	3	1	0	Nil	Nil			
May	3	20/05/2014	21:05	BF	JS	SD2	21:15	22:50	01:45	14.5	12.5	0	0	F2	F1	Dry	Dry	Warm day (15+ degrees), stormy previous night		
May	4	20/05/2014	21:05	RD	RG	SD1	21:10	22:50	01:45			2		F3		Dry	Dry			
May	5	21/05/2014	21:06	BF	SF	SD2	21:15	22:45	01:39	18	15	4	8	0	0	Dry	Dry	Hot sunny day, 20 degrees plus. Muggy		
May	6	21/05/2014	21:06	RC	JS	SD2	21:06	22:45	01:39	18	15	3	7	0	0	Nil	Nil			
May	7	22/05/2014	21:08	AP	JD	SD1	21:20	22:51	01:43											

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May	8	22/05/2014	21:08	RD	SF	SD2	21:25	22:50	01:42	14	14	8	8	1	1	Light	Light	Light rain at start and end of survey only		
May	9	22/05/2014	21:08	BF	AS	SD2	21:08	22:25	01:17	14.5	13	8	8	2	0	Very light rain	Dry	Dry by 21:15		
May	10	22/05/2014	21:08	RC	JS	SD2	21:10	22:50	01:42	14	14	7	7	0	0	Nil	Light drizzle	Heavy rain in day	Occasion sports during survey	
June	1	24/06/2014	21:34	RC	DR	SD2	21:30	23:16	01:42	17	17	2	2	0	0	Nil	Nil	Follows very warm dry day	Dry throughout	
June	2	17/06/2014	21:32	RC	JD	SD2	21:45	23:27	01:55	18.5	17	1	1	2	1	Nil	Nil	Following mild dry day	Dry throughout	
June	3	17/06/2014	21:32	BF	RD	SD1	21:50	23:27	01:55	18.5	17	1		3		Nil	Nil	Very warm (20deg) during day		
June	4	18/06/2014	21:32	BF	AP	SD1	21:44	23:12	01:40	19	15	0	0	0	0	Dry	Dry	Warm mild day		
June	5	18/06/2014	21:32	RC	JD	SD2	21:40	23:43	02:11	16	14.5	2	0	0	0	Nil	Nil	Following warm dry day	Dry throughout	
June	6	18/06/2014	21:32	RD	MD	SD2	21:50	23:15	01:43	16		1		1		Nil		Warm		
June	7	24/06/2014	21:34	AP	JD	SD2	21:34	23:39	02:05	19	18	1	1	1	1	Nil	Nil	Dry		
June	8	19/06/2014	21:33	AP	JL	SD2	21:35	23:15	01:42											
June	9	19/06/2014	21:33	RD	JD	SD2	21:40	23:25	01:52	19	18	4	4	1	1	Dry	Dry	Warm for past few days. Humid		
June	10	19/06/2014	21:33	RC	SF	SD2	21:37	23:08	01:35	22.5		3	1	0	0	Nil	Nil	Dry after wam dry day	Dry throughout	
July	1	24/07/2014	21:12	RC	LS	SD1	21:15	23:15	02:03	22	21.5	3	4	1	2	Nil	Nil	Follows hot dry day	Warm and dry throughout	
July	2	24/07/2014	21:12	AP	JD	SD1	21:11	23:25	02:13	22	21.5	3	4	1	2	Nil	Nil	Very hot dry day	Warm and dry throughout	
July	5	23/07/2014	21:14	BF	LS	SD2	21:30	23:10	01:56	21	21	6	8	1	1	Nil	Nil	Hot sunny day, nearing 30 degrees		
July	6	23/07/2014	21:14	RC	MD	SD1	21:30	23:05	01:51	21	21	6	8	1	1	Nil	Nil	Dry after wam dry day	Dry throughout	

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July	7	23/07/2014	21:14	AP	JD	SD1	21:20	23:35	02:21	25	26	5		2	3	Nil	Nil	Very hot dry day		GPS not secured properly, disconnected after 5mins. Anabat successfully recorded. Route recreated using GIS methods.
July	8	22/07/2014	21:15	AP	JD	SD1	21:17	23:08	01:53	25		0	0	0	0	Nil	Nil	Dry hot day		
July	9	22/07/2014	21:15	RC	LS	SD1	21:29	22:42	01:27	25	24	0	0	0	0	Nil	Nil	Follows warm dry day	Dry throughout	
July	10	22/07/2014	21:15	RD	BF	SD2	21:16	22:42	01:27	27	25	0	0	0	0	Nil	Nil	Very warm		
August	1	19/08/2014	20:27	AP	MD	SD2	20:26	22:10	01:43	13	10.5	1	0	0	0	Nil	Nil	Warm day with occasional showers	Dry throughout	
August	2	19/08/2014	20:27	BF	RG	SD2	20:40	22:15	01:48	13	10.5	3	0	1	0	Nil	Nil	Warm day with occasional showers	Dry throughout	Unable to go along road section due to presence of undesirables in cars. Temperature of 9.5 in woodland area.
August	3	19/08/2014	20:27	RC	LS	SD1	20:40	22:29	02:02	13	10.5	3	0	0	0	Nil	Nil	Warm day with occasional showers	Dry throughout	
August	4	20/08/2014	20:25	BF	LS	SD2	20:24	21:17	00:52	14	9.5	0	0	0	0	Nil	Nil	Dry	Dry throughout	Unable to complete transect due to bull presence in field. Driving transect for half hour in the area.
August	5	20/08/2014	20:25	RC	RG	SD1	20:25	22:15	01:50	11	8.5	2	1	0	0	Nil	Nil	Dry	Dry throughout	
August	6	20/08/2014	20:25	MD	JS	SD2	20:25	22:00	01:35	11	8.5	2	1	0	0	Nil	Nil	Dry	Dry throughout	
August	7	20/08/2014	20:25	AP	ED	SD1	20:37	22:35	02:10	15		0	0	0	0	Nil	Nil	Dry	Dry throughout	
August	8	09/09/2014	19:41	RC	LS	SD2	19:50	21:31	01:50	13	12.5	1	0	0	0	Nil	Nil	Warm 20+ day	Dry throughout	Barn Owl family in black poplar on Bareland

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Bat Survey Report 2014

																			Street - ST405888651 4. Delayed due to weather and NATO
August	9	28/08/2014 20:08	RD	SF	SD2	20:10	21:37	01:29	18	16	6	6	1	1	Nil	Nil			
August	10	09/09/2014 19:41	AP	JD	SD2	19:40	21:11	01:30	18	16	1	1	1	1	Nil	Nil	Hot dry day		Delayed due to weather and NATO
Septemb er	1	16/09/2014 19:24	MD	DR	SD1	19:29	21:15	01:51	17	16	8	7	1	0	Nil	Nil	Dry during day, small amount of drizzle late on		
Septemb er	2	16/09/2014 19:24	AP	JD	SD2	19:26	21:30	02:06	17	16	9	7	2	2	Nil	Nil	Slightly spotty prior to survey		
Septemb er	3	16/09/2014 19:24	RC	LS	SD2	19:45	21:19	01:55	17	17	8	7	0	0	Nil	Nil	Warm 20 degree day, wet at survey site	Dry throughout	
Septemb er	4	17/09/2014 19:22	RC	RG	SD2	19:30	21:30	02:08	17.5	16.5	7	5	3	3	Nil	Nil	Follws dry breezy day	Dry throughout , wind increasing	Start and end of route modified slightly due to presence of horses with foals, and then livestock
Septemb er	5	17/09/2014 19:22	JD	JS	SD1	20:03	21:42	02:20	17.5	17	8	4	1	0	Nil	Nil	Dry warm day		
Septemb er	6	17/09/2014 19:22	MD	DR	SD2	20:05	21:55	02:33	17.5	17.5	8	4	0	0	Nil	Nil	Dry with sunny spells during day		
Septemb er	7	17/09/2014 19:22	AP	LS	SD1	19:43	21:10	01:48	17.5		1	0	2	3	Nil	Nil	Warm day, overcast		Anabat failure - no data. GIS points plotted manually from notes
Septemb er	8	18/09/2014 19:20	LS	RG	SD2	19:42	21:09	01:49	21	20	8	8	0	0	Nil	Yes		Light- moderate rain at end, plus lightening and thunder	
Septemb er	9	25/09/2014 19:04	AP	JD	SD1	18:55	20:21	01:17	16	15	8	8	3	2	Nil	Nil	Dry day	Dry throughout	
Septemb er	10	18/09/2014 19:20	RC	JD	SD1	19:35	21:00	01:40	21	20	8	7	1	1	Nil	Nil	Dry day	Thunder/li ghtening from 20:10,	

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M4 Corridor Around Newport
Bat Survey Report 2014

																		remaining dry	
October	1	07/10/2014 18:36	MD	LS	SD2	19:02	20:25	01:49	10		5	6	1	0	Nil	Nil	Showers pre survey.	Dry throughout	
October	2	07/10/2014 18:36	AP	JD	SD1	18:38	20:56	02:20	9	8.5	3	1	1	0	Nil	Nil	Wet day, heavy rain. Survey delayed due to rain shower	Dry throughout	
October	3	07/10/2014 18:36	RC	AS	SD1	19:13	21:02	02:26	9	8.5	3	3	1	0	Nil	Nil	Follows heavy rain, survey delayed due to rain shower	Dry throughout	
October	4	30/10/2014 16:49	RC	JS	SD1	17:00	18:35	01:46	14	15.5	7	8	1	1	Nil	Nil	Follows mainly dry day, warm with some drizzle	Dry throughout	
October	5	08/10/2014 18:34	BF	JD	SD1	18:48	19:55	01:21	14	13	3	1	1	3	Nil	Nil	Wet day heavy showers		
October	6	22/10/2014 18:04	BF	JD	SD1	18:03	19:58	01:54	14	12	5	6	1	1	Nil	Nil	Dry day, spots of rain		
October	7	30/10/2014 16:49	AP	BF	SD2	16:52	18:11	01:22	16	15	3	5	1	1	Nil	Nil	Some rain earlier in day.		
October	8	08/10/2014 18:34	MD	AP	SD1	18:45	20:28	01:54			1	6	2	3	Nil	Nil	Heavy showers earlier		
October	9	08/10/2014 18:34	RD	LS	SD2	18:55	19:53	01:19			2		3		Nil		Rain and winds in day		
October	10	08/10/2014 18:34	RC	CR	SD1	18:50	20:05	01:31	13	11	1	1	2	1	Nil	Nil	Follows heavy showers	Dry throughout	

# **Appendix B**

Bat Feature Assessment Recording Sheets



Reference Number:	2	<b>Date:</b> 09-04-2014	GPS:	51.5468, -3.0249
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		12
Potential:	2 - Low	Diameter (m)		200
Comments:		Suitable Bat Features		Natural holes

Photo 1





Oak 15
15
13
400
ks/splits in major limbs
- (

Photo 1





Reference Number:	4
Туре:	Tree
Signs of Bat Use:	Fur polishing;
Potential:	1* - High
Comments:	

Comments:		
Scratch marks on h	le	

Date:	09-04-2014	GPS:	51.5471, -3.025
			·

Tree Species	Willow
Height (m)	15
Diameter (m)	145
Suitable Bat Features	Natural holes

Photo 1

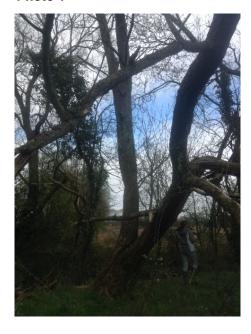


Photo 2





Reference Number:	5	Date:	02-04-2014	GPS:	51.5682, -2.9217
Type:	Tree	Tree S	pecies		Unknown, poplar?
Signs of Bat Use:		Height	(m)		15
Potential:	3 - None	Diame	ter (m)		
Comments:		Suitab	le Bat Features	3	
Group of trees formin	ng screening to cement works				

### Photo 1





Reference Number:	6	Date:	02-04-2014	GPS:	51.5675, -2.8784	
Туре:	Tree	Tree Species				
Signs of Bat Use:		Height (m)			15	
Potential:	1 - Medium	Diameter (m)				
Comments:		Suitab	Suitable Bat Features		Dense ivy	

Photo 1





Reference Number:	7	<b>Date</b> : 09-04-2014	GPS:	51.5471, -3.0262	
Type:	Tree	Tree Species		Oak	
Signs of Bat Use:	1,04	Height (m)		15	
Potential:	1* - High	Diameter (m)		270	
Comments:		Suitable Bat Features		Natural holes	
1					

Photo 1





Reference Number:	8	Date: 02-04-2014	<b>GPS:</b> 51.57, -2.8841
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	18
Potential:	2 - Low	Diameter (m)	
Comments:		Suitable Bat Features	
Mistletoe and birds nests			

Photo 1





Reference Number:	10	<b>Date:</b> 03-04-2014	<b>GPS:</b> 51.5653, -2.887
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	18
Potential:	3 - None	Diameter (m)	
Comments:		Suitable Bat Features	

Photo 1





Reference Number:	11	<b>Date</b> : 09-04-2014	<b>GPS:</b> 51.5476, -3.029	
Туре:	Tree	Tree Species	Oak	
Signs of Bat Use:		Height (m)	10	
Potential:	2 - Low	Diameter (m)	250	
Comments:		Suitable Bat Features	Dense ivy	

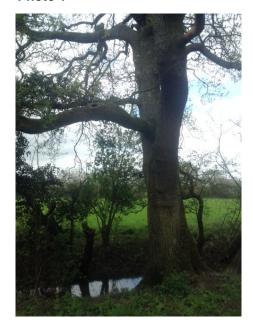
Photo 1





Reference Number:	12	<b>Date:</b> 09-04-2014	GPS:	51.5463, -3.0259	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		12	
Potential:	1* - High	Diameter (m)		280	
Comments:		Suitable Bat Features		Natural holes	

### Photo 1





Reference Number:	13	<b>Date:</b> 02-04-2014	<b>GPS:</b> 51.5679, -2.877
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	15
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Dense ivy
		7	

Photo 1





Reference Number:	14	Date:	02-04-2014	GPS:	51.5677, -2.8778
Туре:	Tree	Tree S	pecies		
Signs of Bat Use:		Height	Height (m)		18
Potential:	1* - High	Diame	ter (m)		
Comments:		Suitab	le Bat Features	Crac	ks/splits in major limbs
Two trees together wi	th ivy and splits				

Photo 1





Reference Number:	15	
Туре:	Tree	] [1
Signs of Bat Use:		]
Potential:	1 - Medium	] [
Comments:		5
Part of a group		

Date:	02-04-2014	GPS:	51.566, -2.883
Tree S	pecies		
Height (m)			10
Diameter (m)			
Suitab	le Bat Features		Natural holes

Photo 1



Photo 2





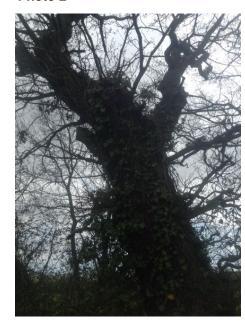
Reference Number:	16
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Also ivy.	

Tree Species Ok Height (m) 10  Diameter (m) 300  Suitable Bat Features Hollows/cavities	Date:	09-04-2014	GPS:	GPS: 51.5476, -3.029				
Height (m) 10 Diameter (m) 300								
Diameter (m) 300	Tree Species			Ok				
, ,	Height (m)			10				
Suitable Bat Features Hollows/cavities	Diameter (m)			300				
	Suitable Bat Features			Hollows/cavities				

Photo 1



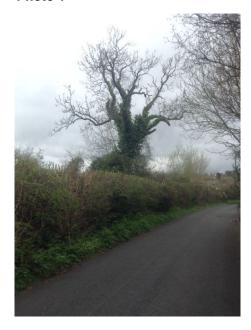
Photo 2





Reference Number:	17	<b>Date:</b> 04-04	4-2014	GPS:	51.5519, -3.0482
Туре:	Tree	Tree Species			Oak
Signs of Bat Use:		Height (m)			12
Potential:	1* - High	Diameter (m)			
Comments:		Suitable Bat I	eatures		Natural holes
Ivy and splits					

Photo 1





Reference Number:	18	Date:	02-04-2014	GPS:	51.5696, -2.8719
Type:	Tree	Tree S	pecies		
Signs of Bat Use:		Height	(m)		17
Potential:	1 - Medium	Diameter (m)			
Comments:		Suitable Bat Features		Crac	ks/splits in major limbs
				·	

Photo 1





Reference Number:	19
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	09-04-2014	GPS:	51.5467, -3.0295		
Tree Species			Oak		
Height	: (m)		10		
Diameter (m)			225		
Suitable Bat Features			Hollows/cavities		

Photo 1

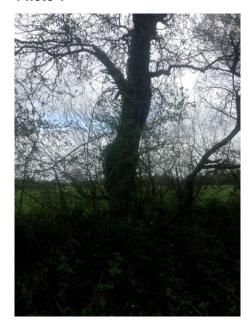


Photo 2





Reference Number:	20	<b>Date:</b> 02-04-2014	<b>GPS</b> : 51.5698, -2.8713	
Туре:	Tree	Tree Species		
Signs of Bat Use:		Height (m)	18	
Potential:	1 - Medium	Diameter (m)	300	
Comments:		Suitable Bat Features	Loose bark	

Photo 1





Reference Number:	21	<b>Date:</b> 03-04-2014	GPS:	51.5657, -2.8915
Туре:	Tree	Tree Species		
Signs of Bat Use:		Height (m)		18
Potential:	1 - Medium	Diameter (m)		
Comments:		Suitable Bat Features		Natural holes

Photo 1





Reference Number:	22	<b>Date:</b> 02-04-2014	<b>GPS:</b> 51.5676, -2.8
Type:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	12
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Natural holes

Photo 1





Reference Number:	23	Date:	02-04-2014	GPS:	51.5689
Туре:	Tree	Tree S	pecies		
Signs of Bat Use:		Height	(m)		
Potential:	1* - High	Diame	ter (m)		12
Comments:		Suitab	le Bat Features	s	Dense iv
Comments:		Suitab	le Bat Features	5	Dense

Photo 1





24	<b>Date</b> : 09-0	04-2014	GPS:	51.5471, -3.0254	
Tree	Tree Species			Oak	
	Height (m)			12	
2 - Low	Diameter (m)			200	
	Suitable Bat Features			Natural holes	
	Tree	Tree Species Height (m)  2 - Low	Tree Species Height (m)  2 - Low Diameter (m)	Tree Species Height (m) Diameter (m)	

Photo 1





Reference Number:	25	<b>Date</b> : 09-04-2014	GPS:	51.5468, -3.0249	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		12	
Potential:	2 - Low	Diameter (m)		200	
Comments:		Suitable Bat Features		Natural holes	
			-		

Photo 1





Reference Number:	26	<b>Date</b> : 09-04-2014	<b>GPS:</b> 51.5462, -3.0263		
Type:	Tree	Tree Species	Oak		
Signs of Bat Use:		Height (m)	12		
Potential:	1 - Medium	Diameter (m)	200		
Comments:		Suitable Bat Features	Natural holes		

Photo 1





Reference Number:	27	Date:	09-04-2014	GPS:	51.5466, -3.0274	
Type:	Tree	Troe Species			Oak	
	1166	Tree Species				
Signs of Bat Use:		Height	: (m)		10	
Potential:	1 - Medium	Diameter (m)			350	
Comments:		Suitable Bat Features			Dense ivy	
		]				

Photo 1





Reference Number:	28	<b>Date:</b> 09-04-2014	<b>GPS:</b> 51.5462, -3.0258	
Туре:	Tree	Tree Species		
Signs of Bat Use:		Height (m)	15	
Potential:	1 - Medium	Diameter (m)	240	
Comments:		Suitable Bat Features	Dense ivy	

### Photo 1





Reference Number:	29	<b>Date</b> : 09-04-2014	GPS:	51.547, -3.0246	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		12	
Potential:	2 - Low	Diameter (m)		170	
Comments:		Suitable Bat Features		Loose bark	
			-		

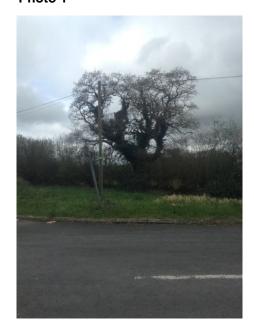
Photo 1





Type: Tree Tree Species Oak Signs of Bat Use: Height (m) 15  Potential: 1 - Medium Diameter (m)	
Pierrette (m)	
Potential: 1 - Medium Diameter (m)	
Comments: Suitable Bat Features Dense	vy

Photo 1





Reference Number:	31	Date:	09-04-2014	GPS:	51.551, -3.0266
Туре:	Tree	Tree Species			Willow
Signs of Bat Use:		Height	t (m)		10
Potential:	2 - Low	Diameter (m)			
Comments:		Suitable Bat Features		<b>;</b>	Dense ivy
				-	
		1			

Photo 1





32	<b>Date:</b> 04-04-2014	GPS:	51.5533, -3.0491
Tree	Tree Species		Oak
	Height (m)		20
1 - Medium	Diameter (m)		225
	Suitable Bat Features		Dense ivy
	Tree	Tree Species Height (m) Diameter (m)	Tree Species Height (m)  1 - Medium  Diameter (m)

Photo 1





Reference Number:	33
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	02-04-2014	GPS:	51.5698, -2.8714	
Tree S	pecies			
Height (m)		18		
Diameter (m)				
Suitab	le Bat Features	Cracks/splits in major limbs		

Photo 1



Photo 2





Reference Number:	34	<b>Date</b> : 09-04-2014	<b>GPS:</b> 51.5462, -3.0248	
Type:	Tree	Tree Species	Oak	
Signs of Bat Use:		Height (m)	15	
Potential:	2 - Low	Diameter (m)	200	
Comments:		Suitable Bat Features	Cracks/splits in major limbs	
			•	

Photo 1





Reference Number:	35	Date:	03-04-2014	GPS:	51.5657, -2.8944
Туре:	Tree	Tree S	pecies		
Signs of Bat Use:		Height	(m)		20
Potential:	1* - High	Diamet	er (m)		
Comments:		Suitab	e Bat Features	Crac	ks/splits in major limbs

Photo 1





Reference Number:	36
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	02-04-2014	GPS:	51.5678, -2.8774		
Tree S	pecies				
Height (m)			18		
Diame	ter (m)				
Suitable Bat Features		Crack	s/splits in major limbs		

Photo 1



Photo 2





Reference Number:	37	Date:	02-04-2014	GPS:	51.5642, -2.88
Туре:	Tree	Tree S	oecies		
Signs of Bat Use:		Height	(m)		12
Potential:	1 - Medium	Diameter (m)			
Comments:		Suitable Bat Features		Crac	ks/splits in major limbs
		7			

Photo 1





Reference Number:	38	<b>Date</b> : 09-04-2014	<b>GPS:</b> 51.5461, -3.0284	
			T	
Type:	Tree	Tree Species	Oak	
Signs of Bat Use:		Height (m)	10	
Potential:	1* - High	Diameter (m)	200	
Comments:		Suitable Bat Features	Hollows/cavities	

Photo 1





Reference Number:	39	<b>Date</b> : 09-04-2014	GPS:	51.5471, -3.0237		
Type:	Tree	Tree Species		Oak		
Signs of Bat Use:		Height (m)		15		
Potential:	1* - High	Diameter (m)		285		
Comments:		Suitable Bat Features		Dense ivy		

### Photo 1





Reference Number:	40	<b>Date</b> : 09-04-2014	GPS:	51.547, -3.0301		
Туре:	Tree	Tree Species		Oak		
Signs of Bat Use:		Height (m)		10		
Potential:	2 - Low	Diameter (m)		164		
Comments:		Suitable Bat Features	;	Dense ivy		

Photo 1





Reference Number:	41	Date:	02-04-2014	GPS:	51.5668, -2.9236	
Туре:	Tree	Tree S	Tree Species		Sails fragility	
Signs of Bat Use:		Height	Height (m)		12	
Potential:	2 - Low	Diame	ter (m)			
Comments:		Suitab	le Bat Features		Natural holes	
Some holes low down w	here pollarded in past.	$\neg$		•		

### Photo 1





Reference Number:	42	Date:	02-04-2014	GPS:	51.5683, -2.8759	
Туре:	Tree	Tree Species				
Signs of Bat Use:		Height (n	n)		15	
Potential:	1 - Medium	Diameter (m)				
Comments:		Suitable	Bat Features		Dense ivy	
				-		

Photo 1





44	<b>Date:</b> 02-04-2014	GPS:	51.5675, -2.8785
Tree	Tree Species		
	Height (m)		15
1 - Medium	Diameter (m)		
	Suitable Bat Features		Dense ivy
	Tree	Tree Species Height (m)  1 - Medium  Diameter (m)	Tree Species Height (m) Diameter (m)

### Photo 1





Reference Number:	45	Date:	09-04-2014	GPS:	51.5471, -3.0236
Type:	Tree	Tree S	pecies		Oak
Signs of Bat Use:		Height	(m)		15
Potential:	1* - High	Diamet	ter (m)		245
Comments:		Suitab	le Bat Features		Natural holes
				•	
1		ı			

Photo 1





Reference Number:	46	<b>Date:</b> 09-04-2014	GPS:	51.5468, -3.0271
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		10
Potential:	2 - Low	Diameter (m)		230
Comments:		Suitable Bat Features	S	Dense ivy

Photo 1





Reference Number:	47	<b>Date:</b> 02-04-2014	<b>GPS</b> : 51.5672, -2
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	12
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Dense ivy

Photo 1





Reference Number:	48	Date:	02-04-2014	GPS:	51.5678, -2.8774
Type:	Tree	Tree Sp	ecies		
Signs of Bat Use:		Height (	m)		15
Potential:	1 - Medium	Diamete	er (m)		
Comments:		Suitable	Bat Features		Dense ivy

Photo 1





Reference Number:	49	<b>Date</b> : 02-04-2014	GPS:	51.57, -2.8
Type:	Tree	Tree Species		
Signs of Bat Use:		Height (m)		15
Potential:	2 - Low	Diameter (m)		
Comments:		Suitable Bat Features		
Multistem				

Photo 1





Reference Number:	50	<b>Date</b> : 09-04-2014	GPS:	51.5459, -3.0255
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		15
Potential:	1 - Medium	Diameter (m)		200
Comments:		Suitable Bat Features		Loose bark
Tagged 000923			-	

### Photo 1





Reference Number:	51	<b>Date</b> : 09-04-2014	GPS:	51.5462, -3.0263
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		12
Potential:	1 - Medium	Diameter (m)		225
Comments:		Suitable Bat Features		Natural holes

Photo 1





-2.8759

Reference Number:	52	<b>Date:</b> 02-04-2014	<b>GPS</b> : 51.5683,
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	12
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Dense iv

Photo 1





Reference Number:	53	Date:	09-04-2014	GPS:	51.5467, -3.0301
Type:	Tree	Tree S	pecies		Oak
Signs of Bat Use:		Height	: (m)		8
Potential:	2 - Low	Diame	ter (m)		
Comments:		Suitab	le Bat Features	s Crac	ks/splits in major limbs

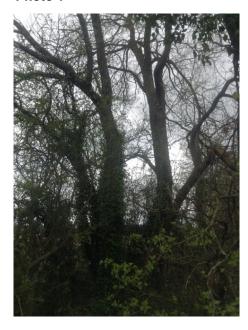
### Photo 1





Reference Number:	54	Date:	09-04-2014	GPS:	51.5472, -3.025
Type:	Tree	Tree S	pecies		Willow
Signs of Bat Use:		Height	(m)		15
Potential:	1* - High	Diame	ter (m)		200
Comments:		Suitab	le Bat Features		Natural holes
Poss scratch marks					

### Photo 1





Reference Number:	55	<b>Date:</b> 02-04-2014	<b>GPS</b> : 51.5677, -2.87
Type:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	18
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Dense ivy

Photo 1





56
Tree
3 - None

<b>Date:</b> 02-04-2014 <b>GPS:</b> 51.5669, -2.92	33
--	----

Tree Species	S. Fragilis
Height (m)	15
Diameter (m)	
Suitable Bat Features	

Photo 1



Photo 2





Reference Number:	57	<b>Date</b> : 02-04-2014	<b>GPS:</b> 51.5684, -2.8754
Type:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	18
Potential:	1* - High	Diameter (m)	
Comments:		Suitable Bat Features	Dense ivy
Two tress together. Sur	rvey as one		

Photo 1



Photo 3



Photo 2





Reference Number:	58
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	02-04-2014	GPS:	<b>GPS:</b> 51.5697, -2.8726				
Tree S	pecies						
Height (m)			15				
Diame	ter (m)						
Suitable Bat Features		Crac	ks/splits in major limbs				

Photo 1



Photo 2





59	Date:	09-04-2014	GPS:	51.5475, -3.029	
Tree	Tree S	pecies		Oak	
	Height	(m)		15	
1 - Medium	Diameter (m)			350	
	Suitable Bat Features		Crack	ks/splits in major limbs	
		1 - Medium Diame	Height (m)  1 - Medium  Diameter (m)	Height (m)  1 - Medium  Diameter (m)	

Photo 1





Reference Number:	60	<b>Date:</b> 02-04-2014	<b>GPS</b> : 51.5676, -2.878
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	15
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Dense ivy

Photo 1





Reference Number:	61	<b>Date</b> : 02-04-2014	<b>GPS:</b> 51.5698, -2.877
Туре:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	18
Potential:	2 - Low	Diameter (m)	
Comments:		Suitable Bat Features	

Photo 1





Reference Number:	62
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	09-04-2014	GPS:	51.5468, -3.0297		
Tree S	pecies		Oak		
Height	Height (m)		10		
Diame	ter (m)		270		
Suitab	le Bat Features		Hollows/cavities		

Photo 1

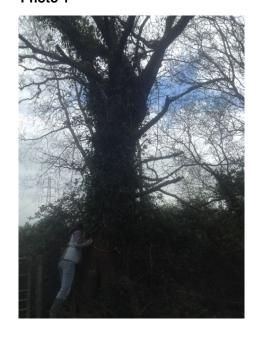


Photo 2





64	Date:	24-04-2014	GPS:	51.553, -3.0097
Tree	Tree S	pecies		Qsp
	Height (m)			18
1 - Medium	Diameter (m)			287
	Suitable Bat Features		Crack	s/splits in major limbs;
			-	
	Tree	Tree Specification Tree Specific	Tree Species Height (m)  1 - Medium  Diameter (m)	Tree Species Height (m)  1 - Medium  Diameter (m)

Photo 1





Reference Number:	65	Date:	24-04-2014	GPS:	51.5524, -3.0009	
Туре:	Tree	Tree S	pecies		Qsp	
Signs of Bat Use:		Height	Height (m)		8	
Potential:	2 - Low	Diameter (m)			200	
Comments:		Suitable Bat Features		Crack	s/splits in major limbs; Dense ivy;	
				•		

Photo 1





Reference Number:	66
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	23-04-2014	GPS:	51.5528, -3.0557

Tree Species	Holm oak?
Height (m)	20
Diameter (m)	250
Suitable Bat Features	Natural holes; Dense ivy;

Photo 1



Photo 2





Reference Number:	67	Date:	24-04-2014	GPS:	51.5531, -3.0097
Type:	Tree	Tree Species			Sf
Signs of Bat Use:		Height (m)			20
Potential:	2 - Low	Diameter (m)			250
Comments:		Suitable Bat Features		Crack	s/splits in major limbs;
		7			

Photo 1





<b>Date</b> : 23-04-2014	<b>GPS:</b> 51.5522, -3.0565
Tree Species	Oak
Height (m)	15
Diameter (m)	300
Suitable Bat Features	Natural holes;
	Tree Species Height (m) Diameter (m)

Photo 1





Reference Number:	69	Date:	23-04-2014	GPS:	51.5511, -3.0571
Type:	Tree	Tree Species			Oak
Signs of Bat Use:		Height (m)			15
Potential:	1 - Medium	Diameter (m)			200
Comments:		Suitable Bat Features		Crack	s/splits in major limbs; Dense ivy;

Photo 1





Reference Number:         70         Date:         23-04-2014         GPS:         51.55           Type:         Tree         Tree Species         S           Signs of Bat Use:         Height (m)         6           Potential:         2 - Low         Diameter (m)         10           Comments:         Suitable Bat Features         Cracks/splits in	Weish dovernment		
Signs of Bat Use:    Height (m)   60	05, -3.0517		
Potential: 2 - Low Diameter (m) 10	ζ		
2 2500			
Comments: Suitable Bat Features Cracks/splits in	)		
	major limbs;		

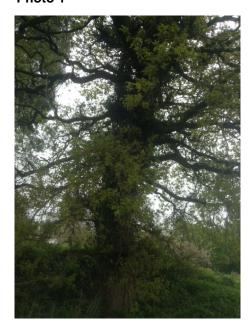
Photo 1





Reference Number:	71	Date:	23-04-2014	GPS:	51.5521, -3.0562
Type:	Tree	Tree Species			Oak
Signs of Bat Use:		Height (m)			15
Potential:	1 - Medium	Diameter (m)			320
Comments:		Suitable Bat Features			atural holes; Dense mic growth; Dense ivy;
				•	

Photo 1





Reference Number:	72	Date:	24-04-2014	GPS:	51.5526, -3.0015
Туре:	Tree	Tree Species			Sf
Signs of Bat Use:		Height (m)			10
Potential:	2 - Low	Diameter (m)			100
Comments:		Suitable Bat Features		Crack	s/splits in major limbs;
				-	

Photo 1





Reference Number:	73	Date:	23-04-2014	GPS:	51.5509, -3.0558		
Type:	Tree	Tree Species			Qsp		
Signs of Bat Use:		Height (m)			20		
Potential:	1 - Medium	Diameter (m)			275		
Comments:		Suitable Bat Features		Natura	al holes; Cracks/splits in major limbs;		

Photo 1





Reference Number:	74	Date:	23-04-2014	GPS:	51.5502, -3.0497	
Туре:	Tree	Tree Species			Qsp	
Signs of Bat Use:		Height (m)			17	
Potential:	1 - Medium	Diameter (m)			200	
Comments:		Suitable Bat Features		Crack	s/splits in major limbs Dense ivy;	
				•		

### Photo 1





Reference Number:	75	<b>Date</b> : 23-04-2014	GPS:	51.5508, -3.0562		
Туре:	Tree	Tree Species		Qsp		
Signs of Bat Use:		Height (m)		20		
Potential:	1 - Medium	Diameter (m)		300		
Comments:		Suitable Bat Features		ural holes; Dense ivy;		
			•			

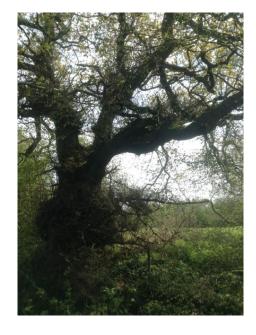
Photo 1





Reference Number:	76	<b>Date:</b> 23-04-2014	<b>GPS:</b> 51.55, -3.0501	
Туре:	Tree	Tree Species	Qsp	
Signs of Bat Use:		Height (m)	15	
Potential:	1* - High	Diameter (m)	200	
Comments:		Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Dense epicormic growth;	

Photo 1





Reference Number:	77	Date:	23-04-2014	GPS:	51.5493, -3.0522	
Туре:	Tree	Tree Species			Sx	
Signs of Bat Use:		Height (m)			25	
Potential:	1 - Medium	Diameter (m)			150	
Comments:		Suitable Bat Features		Crack	s/splits in major limbs; Dense ivy;	
Group of three				•		

Photo 1





Reference Number:	78	<b>Date</b> : 24-04-2014	GPS	51.5533, -3.0094	
Туре:	Tree	Tree Species		Sf	
Signs of Bat Use:		Height (m)		15	
Potential:	2 - Low	Diameter (m)		250	
Comments:		Suitable Bat Features		Cracks/splits in major limbs;	

Photo 1





Reference Number:	79	Date:	23-04-2014	GPS:	51.5497, -3.0508		
Туре:	Tree	Tree S	pecies		Qsp		
Signs of Bat Use:		Height (m)			20		
Potential:	1 - Medium	Diameter (m)			250		
Comments:		Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;		

Photo 1





Reference Number:	80	Date:	23-04-2014	GPS:	51.5515, -3.056	
Туре:	Tree	Tree Species			Qsp	
Signs of Bat Use:		Height (m)			15	
Potential:	1* - High	Diameter (m)			350	
Comments:		Suitable Bat Features		Crack	s/splits in major limbs; Dense ivy;	

Photo 1





Reference Number:	81	Date:	23-04-2014	GPS:	51.5485, -3.0528		
Туре:	Tree	Tree S	pecies		Qsp		
Signs of Bat Use:		Height	Height (m)		15		
Potential:	2 - Low	Diame	ter (m)		200		
Comments:		Suitable Bat Features		Crack	cs/splits in major limbs;		

Photo 1





Reference Number:	82	<b>Date</b> : 23-04-2014	GPS:	51.5513, -3.0578
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		16
Potential:	1* - High	Diameter (m)		350
Comments:		Suitable Bat Features		ural holes; Dense ivy;
			-	

Photo 1





Reference Number:	83	Date:	23-04-2014	GPS:	51.5668, -2.9374
Туре:	Tree	Tree S	pecies		Ash
Signs of Bat Use:		Height	(m)		20
Potential:	2 - Low	Diame	ter (m)		200
Comments:		Suitab	le Bat Features	Crack	s/splits in major limbs;
				-	

Photo 1





84	Date:	23-04-2014	GPS:	51.5509, -3.056
Tree	Tree S	pecies		Qsp
	Height	(m)		20
1* - High	Diameter (m)			275
	Suitab	le Bat Features	Crack	s/splits in major limbs;
	Tree	Tree S Height  1* - High	Tree Species Height (m)  1* - High  Diameter (m)	Tree Species Height (m)  1* - High Diameter (m)

Photo 1





Reference Number:	85	Date:	23-04-2014	GPS:	51.5668, -2.9373
Туре:	Tree	Tree S	pecies		Ash
Signs of Bat Use:		Height (m)		20	
Potential:	2 - Low	Diameter (m)			200
Comments:		Suitab	le Bat Features	Crack	s/splits in major limbs;
1		1			

Photo 1





Reference Number:	86	<b>Date</b> : 23-04-2014	<b>GPS</b> : 51.5497, -3.0508
Туре:	Tree	Tree Species	Qsp
Signs of Bat Use:		Height (m)	18
Potential:	1 - Medium	Diameter (m)	230
Comments:		Suitable Bat Features	Cracks/splits in major limbs;

#### Photo 1





Reference Number:	87	Date: 23-04-2014	GPS:	51.5509, -3.056
Туре:	Tree	Tree Species		Qsp
Signs of Bat Use:		Height (m)		20
Potential:	2 - Low	Diameter (m)		250
Comments:		Suitable Bat Features		Natural holes;

Photo 1





Reference Number:	88
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	23-04-2014	GPS:	51.5506, -3.0515			
Tree Species			Qsp			
Height (m)			20			
Diameter (m)			435			
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;			

Photo 1



Photo 2





Reference Number:	89	Date: 24-04-2014	GPS:	51.5524, -3.001
Туре:	Tree	Tree Species		Qsp
Signs of Bat Use:		Height (m)		10
Potential:	2 - Low	Diameter (m)		175
Comments:		Suitable Bat Features		Dense ivy;

Photo 1





Reference Number:	90	Date:	01-05-2014		GPS:	51.567, -2.8735	
Туре:	Tree	Tree S	pecies			Sx	
Signs of Bat Use:	Staining;	Height (m)		20			
Potential:	1* - High	Diameter (m)			300		
Comments:		Suitab	le Bat Features	5	Natu	ıral holes; Loose bark	;
Large hole with dark s	staining below. Would need						

#### Photo 1

climbing





Reference Number:	91				
Туре:	Tree				
Signs of Bat Use:					
Potential:	1 - Medium				
Comments:					
Group of willows in hedge line					

Date:	01-05-2014	GPS:	51.5663, -2.8788			
Tree S	pecies	Sx				
Height	: (m)		20			
Diameter (m)			200			
Suitable Bat Features		Natura	al holes; Cracks/splits in major limbs;			

Photo 1



Photo 2





Reference Number:	92	<b>Date</b> : 09-05-2014	GPS:	51.5918, -2.8306	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		10	
Potential:	1 - Medium	Diameter (m)		250	
Comments:		Suitable Bat Features		Natural holes;	

Photo 1





Reference Number:	93	Date:	09-05-2014	GPS:	51.5916, -2.8309
Туре:	Tree	Tree S	pecies		Oak
Signs of Bat Use:		Height	(m)		15
Potential:	1* - High	Diame	ter (m)		400
Comments:		Suitable Bat Features		maj	Il holes; Cracks/splits in or limbs; Loose bark; Hollows/cavities;
				•	

Photo 1





Reference Number:	94	Date:	09-05-2014	GPS:	51.5898, -2.8314	
Туре:	Tree	Tree S	pecies		Qsp	
Signs of Bat Use:		Height	(m)		15	
Potential:	1 - Medium	Diameter (m)			500	
Comments:		Suitable Bat Features			ks/splits in major limbs; Hollows/cavities;	

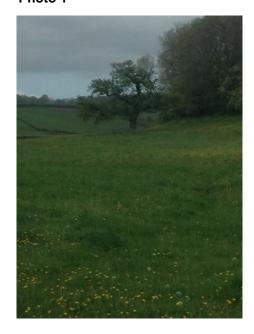
Photo 1





Reference Number:	95	Date:	09-05-2014	GPS:	51.5866, -2.8312
Туре:	Tree	Tree S	pecies		Qsp
Signs of Bat Use:		Height	: (m)		
Potential:	1 - Medium	Diame	ter (m)		
Comments:		Suitab	le Bat Features		al holes; Cracks/splits in limbs; Hollows/cavities;
				•	

Photo 1





Reference Number:	97
Reference Number.	91
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	05-06-2014	GPS:	51.59, -2.7916	
Tree S	pecies		Ash	
Height	(m)	25		
Diame	ter (m)	250		
Suitable Bat Features		Nati	ural holes; Dense ivy;	

Photo 1



Photo 2





Reference Number:	98	<b>Date</b> : 05-06-2014	<b>GPS:</b> 51.5907, -2.7915
Туре:	Tree	Tree Species	Qs
Signs of Bat Use:		Height (m)	20
Potential:	1 - Medium	Diameter (m)	200
Comments:		Suitable Bat Features	Natural holes; Dense ivy;
			•

Photo 1





Cracks in brickwork;

Reference Number:	99
Туре:	Building
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Nc roof no signs of re	ecent bat use.

Date:	10-06-2014	GPS:	51.5533, -3.0711		
D	· <b>T</b>				
Bullali	ng Type		House		
Buildi	ng Age		100		
Height	Height of Eaves (m)		4		
Pitch I End	ch Height at Gable d		6		
Roof A	Roof Aspect				
Roof Complexity					
Roof Covering					

Suitable Bat Features

Photo 1





Reference Number:	100
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

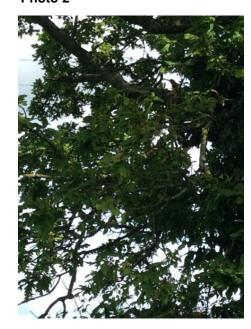
Too far	away to	determine	any signs	for hats
100 101	away to	deterrine	arry signs	เบเ มิสเอ

Tree Species	Oak
Height (m)	6
Diameter (m)	200
Suitable Bat Features	Cracks/splits in major limbs; Dense ivy;

#### Photo 1



Photo 2





Reference Number:	102
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	12-06-2014	GPS:	51.5569, -3.0059		
Tree S	pecies		Qu		
Height	: (m)		7.5		
Diameter (m)			200		
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;		

Photo 1



Photo 3



Photo 2





Reference Number:	103
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
1	

Tree Species	Oak
Height (m)	8
Diameter (m)	150
Suitable Bat Features	Hollows/cavities:

 Date:
 12-06-2014
 GPS:
 51.5571, -3.0051

Photo 1



Photo 3



Photo 2





104
Tree
1 - Medium

Date:	11-06-2014	GPS:	51.5569, -3.006
Tree S	pecies		Oak
Height	(m)	6	
Diame	Diameter (m)		150
Suitab	le Bat Features	Natural holes;	

Photo 1



Photo 2





Reference Number:	105
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	12-06-2014	GPS:	51.5572, -3.005
Tree S	pecies		Oak
Height	·	10	
Diame	Diameter (m)		200
Suitable Bat Features		Natural holes; Cracks/splits in major limbs;	

Photo 1



Photo 3



Photo 2





Reference Number:	107	<b>Date:</b> 17-06-2014	GPS:	51.5444, -3.0265	
Туре:	Tree	Tree Species		QS	
Signs of Bat Use:		Height (m)		20	
Potential:	2 - Low	Diameter (m)		205	
Comments:		Suitable Bat Features		Natural holes;	

Photo 1





Reference Number:	108	<b>Date:</b> 17-06-2014	<b>GPS</b> : 51.5426, -3.0238
Туре:	Tree	Tree Species	QS
Signs of Bat Use:		Height (m)	25
Potential:	1 - Medium	Diameter (m)	260
Comments:		Suitable Bat Features	Natural holes;

Photo 1





Reference Number:	109	<b>Date:</b> 17-06-2014	GPS:	51.5444, -3.0265	
Туре:	Tree	Tree Species			
Signs of Bat Use:		Height (m)		24	
Potential:	2 - Low	Diameter (m)		175	
Comments:		Suitable Bat Feature	es		

Photo 1





Reference Number:	110
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	17-06-2014	GPS:	51.5435, -3.028	
Tree S	pecies		QS	
Height	(m)		20	
Diame	ter (m)		250	
Suitab	le Bat Features	Natural	holes; Hollows/cavities;	

Photo 1



Photo 2





Reference Number:	111	Date: 17	-06-2014	GPS:	51.5437, -3.0284
Туре:	Tree	Tree Specie	es		QS
Signs of Bat Use:		Height (m)			12
Potential:	2 - Low	Diameter (r	n)		240
Comments:		Suitable Ba	at Features	Natura	holes; Hollows/cavities;
Right next to railway				-	

#### Photo 1





Reference Number:	112	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
Trees in centre of field and around along		

Trees in centre of field and around along hedgerows with bat potential Surrounding hedgerows also have bat potential trees

		Date:	02-07-2014		GPS:	51.544, -3.0183
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Tree Species	Oaks
Height (m)	15
Diameter (m)	2
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;



Reference Number:	113	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
Trees in centre of field and around along		

Trees in centre of field and around along hedgerows with bat potential Surrounding hedgerows also have bat potential trees

Date:	02-07-2014	G	PS:	51.544, -3.0183
-------	------------	---	-----	-----------------

Tree Species	Oaks
Height (m)	15
Diameter (m)	2
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;



Reference Number:	114
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Hole at approx 4.5 m. Tree well linked particularly to trees to the north

Tree Species	Oak sp
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Woodpecker holes;

#### Photo 1



Photo 2





Reference Number:	115
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

~12m up - 2 knot holes on main branches, tree we'll linked to hedges and woodland blocks to north

<b>Date</b> : 23-07-2014 <b>GPS</b>	51.5496, -3.0508
-------------------------------------	------------------

Tree Species	Pedunculate Oak	
Height (m)	30	
Diameter (m)	1.5	
Suitable Bat Features	Natural holes;	

#### Photo 1

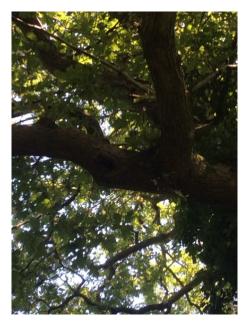


Photo 3

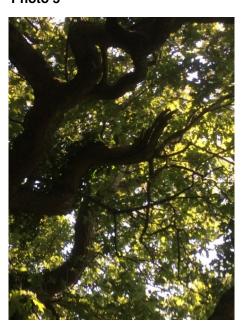
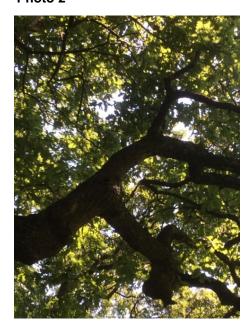


Photo 2





Reference Number:	116
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Woodpecker holes x2 at height of about 6m, well linked to wider environment, esp trees to north

Date:	23-07-2014	GPS:	51.5467, -3.0517
	-		<u> </u>

Tree Species	Oak	
Height (m)	40	
Diameter (m)	2	
Suitable Bat Features	Natural holes; Woodpecker holes;	

Photo 1



Photo 2





Reference Number:	117
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1* - High
Comments:	
[B	leade at One and accitive

Bees using	woodpecker hole at ~8m and cavity at	
1m		

Date:	30-07-2014	GPS:	51.5666, -2.9379		
Tree Species			Ash		
Height	<b>eight (m)</b> 18		18		
Diameter (m)			2		
Suitable Bat Features		holes	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;		

Photo 1



Photo 2





51.5444, -3.0886

Reference Number:	118
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

	-
Tree Species	Oak sessile
Height (m)	30
Diameter (m)	2.5
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

GPS:

Photo 1

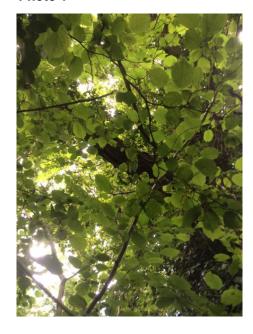


Photo 2

Date:

23-07-2014





Reference Number:	119
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	23-07-2014	GPS:	51.5446, -3.0889	
Tree Species			Oak sp	
Height (m)			30	
Diameter (m)			3	

Suitable Bat Features Cracks/splits in major limbs; Loose bark;

Photo 1

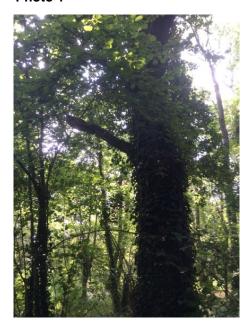
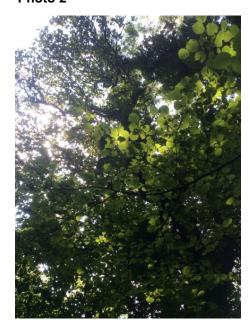


Photo 2





Reference Number:	120	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		

Bracket Fungus apparent, double leader, cracks and cavities above bracket fungus at 2m to 10m

Date:	30-07-2014	GPS:	51.5669, -2.9376

Tree Species	Ash
Height (m)	18
Diameter (m)	3
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;

Photo 1



Photo 2





51.5446, -3.0881

Loose bark;

Reference Number:	121
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	S oak	
Height (m)	30	
Diameter (m)	2	
Suitable Bat Features	Cracks/splits in major limbs;	

GPS:

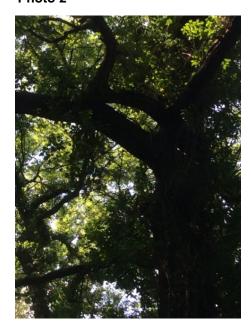
Photo 1



Photo 2

Date:

23-07-2014





Type:	Tree
i	
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Triple leader	

Date:	23-07-2014	GPS:	51.545, -3.0878	
Tree S	Species		Ash	
Height	: (m)		30	
Diameter (m)			1	
Suitab	le Bat Features		Natural holes;	

Photo 1



Photo 2





Reference Number:	123	Date:	23-07-2014	GPS:	51.545, -3.0873	
Type:	Tree	Tree S	oecies		Likely ash	
Signs of Bat Use:		Height (m)			20	
Potential:	2 - Low	Diameter (m)			1.5	
Comments:		Suitab	e Bat Features	Loose	bark; Hollows/cavities;	
Standing deadwood with Alfred's cakes) up height				·		





Reference Number:	124				
Туре:	Tree				
Signs of Bat Use:	Staining;				
Potential:	1* - High				
Comments:					
Large cavity at 2m facing nw					

Date:	30-07-2014	GPS:	51.5663, -2.9387		
Tree S	pecies		Willow		
Height	(m)		12		
Diame	Diameter (m)		1.5		
Suitable Bat Features		Natu	Natural holes; Loose bark; Hollows/cavities;		



Photo 2





51.5444, -3.0885

Hollows/cavities;

Reference Number:	125
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree Species	Sessile oak	
Height (m)	25	
Diameter (m)	3	
Suitable Bat Features	Woodpecker holes; Cracks/splits in major limbs;	

GPS:

Photo 1

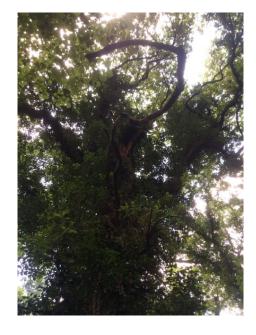
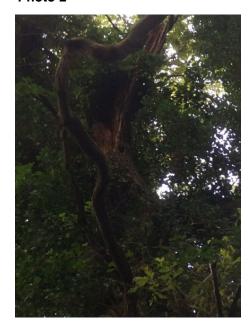


Photo 2

Date:

23-07-2014





Tree
1* - High

Comments:		
Hole s facing at 7	n, evidence of decay	′

Date.	30-07-2014	GPS.	51.5618, -2.9375		
Tree Species			Ash		
Height	·		16		
Diameter (m)			2		
Suitable Bat Features		Natural	holes; Hollows/cavities;		

Photo 1



Photo 2





**GPS:** 51.5451, -3.0892

Reference Number:	127
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

-	-
Tree Species	Unknown standing dead wood
Height (m)	20
Diameter (m)	4
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Hollows/cavities; Dense ivy;

Photo 1



Photo 2

**Date:** 23-07-2014





Reference Number:	128
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-07-2014	GPS:	51.5667, -2.938	
Tree S	pecies		Ash	
Height	: (m)		15	
Diame	ter (m)		0.7	
Suitab	le Bat Features		Natural holes; Cracks/splits in major limbs; Hollows/cavities;	

Photo 1



Photo 3



Photo 2





51.5447, -3.0893

Reference Number:	129
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	S oak
Height (m)	30
Diameter (m)	2
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

GPS:

Photo 1



Photo 2

Date:

23-07-2014





Reference Number:	130
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Feature on limb to North, facing se	
]	

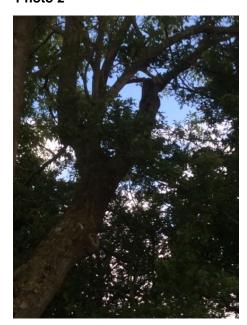
Date:	30-07-2014	GPS:	51.5671, -2.9372
	-		

Tree Species	Ash
Height (m)	10
Diameter (m)	0.6
Suitable Bat Features	Natural holes; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	131
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
2 separate cavities at	t ~30m

Date:	30-07-2014	GPS:	51.5669, -2.9373		
Tree Species			Ash		
Height	: (m)		40		
Diame	ter (m)		1		
Suitab	le Bat Features		Hollows/cavities;		

Photo 1



Photo 2





Reference Number:	132
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

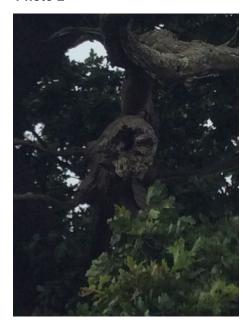
	Date:	31-07-2014	GPS:	51.5682, -2.9343
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Tree Species	Pedunculate oak
Height (m)	20
Diameter (m)	2
Suitable Bat Features	Loose bark; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	133	<b>Date:</b> 30-07-2014	GPS
Type:	Tree	Tree Species	
Signs of Bat Use:		Height (m)	
Potential:	1 - Medium	Diameter (m)	
Comments:		Suitable Bat Features	Natu
	on occluded limb with cavity - on opposite side of the reen		



Date:	30-07-2014	GPS:	51.5668, -2.9374
Tree S	pecies		Ash
Height	: (m)		40
Diame	ter (m)		1.25
Suitab	le Bat Features	Natura	I holes; Hollows/cavities;



51.5646, -2.8967

Reference Number:	135	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
Loose bark at limb cuts		

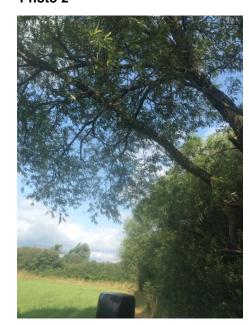
Tree Species	Willow
Height (m)	12
Diameter (m)	0.7
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

**Date:** 06-08-2014 **GPS:** 

Photo 1



Photo 2





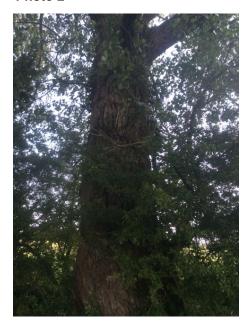
Reference Number:	136	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		

Tree Species	Poplar
Height (m)	23
Diameter (m)	3
Suitable Bat Features	Loose bark; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	137
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	31-07-2014	GPS:	51.56, -2.9511	
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Tree Species	Willow	
Height (m)	20	
Diameter (m)	1.5	
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;	

Photo 1

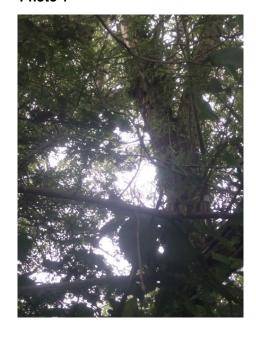


Photo 2





Reference Number:	138		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1* - High		
Comments:			

Decay apparent on east, west aspects at 1 to 2 m

<b>Date:</b> 06-08-2014 <b>GPS:</b> 51.5589, -2.8816
--

Tree Species	Poplar		
Height (m)	23		
Diameter (m)	4		
Suitable Bat Features	Natural holes; Hollows/cavities;		



Photo 2





Reference Number:	139	Date:	07-08-2014	GPS:	51.5759, -2.7968	
Туре:	Tree	Tree S	pecies		Salix	
Signs of Bat Use:		Height	Height (m)		3	
Potential:	1 - Medium	Diameter (m)			120	
Comments:	Suitab	Suitable Bat Features		s/splits in major limbs; Hollows/cavities;		
Totem left, heavily damaged, large splits and cracks at base						





141
Tree
1* - High

Date:	07-08-2014	GPS:	51.5809, -2.8432		
Tree Species			Oak		
Height (m)			7		
Diameter (m)			80		
Suitable Bat Features		Cracks/splits in major limbs; Hollows/cavities;			

Photo 1



Photo 2





Reference Number:	142	Date: 07-08-2014	<b>GPS:</b> 51.5799, -2.8416	
Type:	Tree	Tree Species	Oak	
Signs of Bat Use:		Height (m)	16	
Potential:	1 - Medium	Diameter (m)	100	
Comments:		Suitable Bat Features	Natural holes; Loose bark	
_				

Photo 1





Reference Number:	144
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
Very low potential	

Date:	22-08-2014	GPS:	51.5446, -3.054		
Tree Species		Ash			
Height (m)			30		
Diameter (m)		2			
Suitable Bat Features		Cracks/splits in major limbs; Hollows/cavities;			



Reference Number:	145
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

|--|

Tree Species	Pedunculate oak	
Height (m)	20	
Diameter (m)	100	
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;	

Photo 1



Photo 2





Reference Number:	146
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	29-08-2014	GPS:	51.5435, -3.0475
			-

Tree Species	Pedunculate oak	
Height (m)	15	
Diameter (m)	60	
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;	

Photo 1

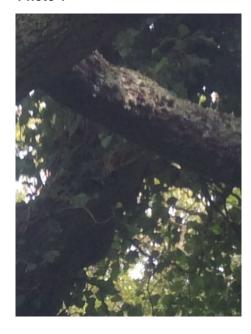
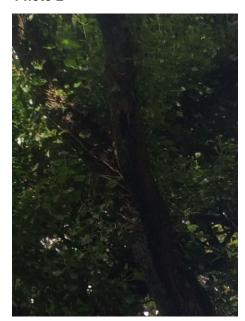


Photo 2





51.5434, -3.0473

Reference Number:	147	Date:
Type:	Tree	Tree Sp
Signs of Bat Use:		Height (
Potential:	1 - Medium	Diamete
Comments:		Suitable

	<u> </u>
Tree Species	Willow sp.
Height (m)	10
Diameter (m)	45

GPS:

29-08-2014

# Suitable Bat Features Natural holes; Cracks/splits in major limbs; Hollows/cavities;

Photo 1



Photo 3

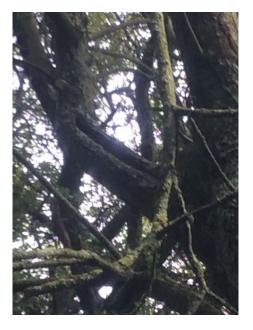


Photo 2





Reference Number:	148
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

2 Trees noted here, adjacent to each other. 1. Loose bark, hollows/cavities 2. Crack in trunk

Tree Species	Willow sp.
Height (m)	25
Diameter (m)	35
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;



Photo 3

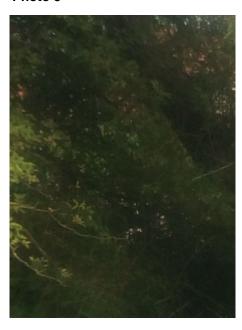
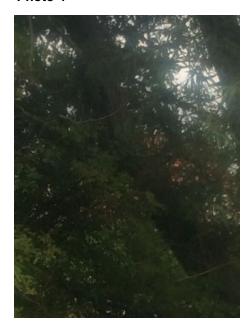


Photo 2



Photo 4





Reference Number:	149
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	28-08-2014	GPS:	51.5735, -2.9366
	-		

Tree Species	Willow sp.
Height (m)	25
Diameter (m)	40
Suitable Bat Features	Natural holes;

Photo 1



Photo 2





Reference Number:	151
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Cavity and decay apparent at 1.5 m N facing, further prfs higher at 2m and 4m on w side of tree

Tree Species	Alder
Height (m)	12
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Hollows/cavities;



Photo 3



Photo 2





Tree
Fur polishing;
1* - High

SW facing 2.5m high potential cavity (rot pocket at non occluded limb), further multiple holes and cavities to 12m

<b>Date:</b> 13-08-2014	<b>GPS:</b> 51.5486, -3.086
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Tree Species	Alder
Height (m)	18
Diameter (m)	1
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;



Reference Number:	153
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1* - High
Comments:	

On edge of m4 embankment. Multiple prfs not fully accessible.

Tree Species	Pedunculate oak
Height (m)	20
Diameter (m)	3.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;



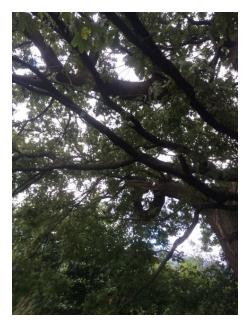
Photo 3



Photo 2



Photo 4





Reference Number:	154
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
	7

Multiple prfs at multiple heights, decay in main limb apparent

Tree Species	Alder
Height (m)	12
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;



Photo 3



Photo 2





Reference Number:	155
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prfs at 4m w, 8m cracked bark and limb nw facing, 8m west facing hole

Tree Species	Pedunculate oak
Height (m)	12
Diameter (m)	2.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;



Photo 3



Photo 2





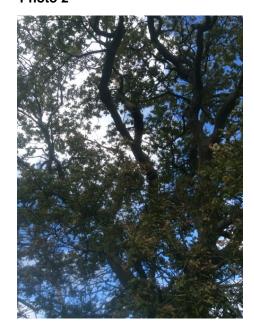
Reference Number:	156
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Prf at 7 m west facing (decayed limb and rot pocket)

Tree Species	Pedunculate oak
Height (m)	10
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;

#### Photo 1







51.5488, -3.0861

Reference Number:	157
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Main trunk split, man	v cavities and crevice prfs

	-
Tree Species	Alder
Height (m)	6
Diameter (m)	0.7
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 2

Date:

13-08-2014





Reference Number:	158
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Prfs at 7m north facing (limb decay); hole on n limb 8m

Tree Species	Pedunculate oak
Height (m)	15
Diameter (m)	3
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;



Photo 3



Photo 2





Reference Number:	159
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Prf on s limb (East aspect) at 3 and 4 m and at base of this limb. Evidence of general decay (fungi growth)

Date:	22-08-2014	GPS:	51.5584, -2.8986
	-		

Tree Species	Ash
Height (m)	10
Diameter (m)	0.8
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;



Photo 3



Photo 2



Photo 4





Reference Number:	160
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Small prfs at 3m n aspect non occluded limb and cracked limb

Date:	22-08-2014	GPS:	51.5605, -2.898
	-		

Tree Species	S oak
Height (m)	7
Diameter (m)	0.6
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;



Photo 3



Photo 2

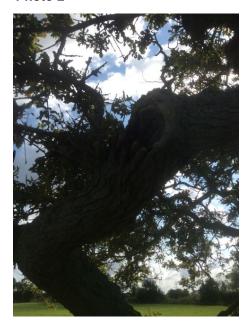


Photo 4





Reference Number:	161
Туре:	Tree
Signs of Bat Use:	Droppings;
Potential:	1* - High
Comments:	

Prfs: cavity from base to 2.5m west aspect, 5m cavity north east aspect

<b>Date:</b> 22-08-2014 <b>GPS:</b>	51.5577, -2.8989
-------------------------------------	------------------

Tree Species	Willow
Height (m)	12
Diameter (m)	0.7
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;

#### Photo 1



Photo 3



Photo 2





Reference Number:	162
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prf: limb 8m to s has crack and non occlusion, limb at 8m to ne has decay and possible cavity at base, further decay apparent within higher limbs

Date:   22-08-2014     GPS:   51.5566, -2.9013
--

Tree Species	P oak
Height (m)	15
Diameter (m)	0.7
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;

#### Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	163
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	22-08-2014	GPS:	51.5606, -2.8966	
Tree S	pecies		Ash	
Height	: (m)		12	
Diame	ter (m)		0.5	
Suitable Bat Features			Il holes; Cracks/splits in limbs; Hollows/cavities;	

Photo 1



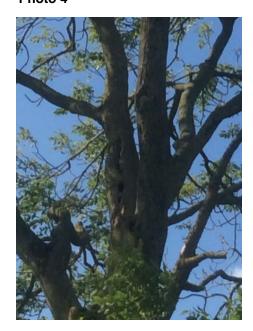
Photo 3



Photo 2



Photo 4





Reference Number:	164
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Majority of tree is dead ( small amount of growth at crown); most limbs with cracked bark and small crevices; cavity in main trunk at 3m s e aspect

Date:	22-08-2014	GPS:	51.5574, -2.9006

Tree Species	Oak
Height (m)	10
Diameter (m)	1.2
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Hollows/cavities;

#### Photo 1



Photo 3



Photo 2



Photo 4





51.5607, -2.9343

Reference Number:	165
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Prf at 6m nw aspect possible cavity;	

Tree Species	P oak
Height (m)	16
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 3



Photo 2

Date:

22-08-2014





Reference Number:	166
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1* - High
Comments:	

Prf at s aspect 11m wound with staining; small cracks and cavities on broken limbs

Barn owl pellet at base of tree

Date:	22-08-2014	GPS:	51.5587, -2.903			
Tree S	pecies		Ash			
Height	: (m)		15			
Diame	ter (m)		0.5			
Suitab	le Bat Features		al holes; Cracks/splits in or limbs; Loose bark; Hollows/cavities;			

Photo 1

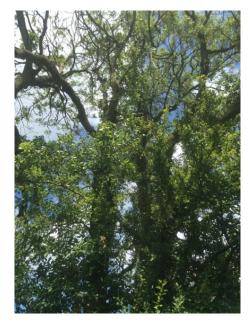


Photo 3



Photo 2



Photo 4





Reference Number:	168
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

3 trees	in a	row	near	and/or	in	pond.	2 livir	ng,	1
heah									

<b>Date:</b> 17-09-2014	GPS:	51.5386, -3.0872
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Tree Species	Silver birch
Height (m)	25
Diameter (m)	35
Suitable Bat Features	Woodpecker holes; Hollows/cavities;

Photo 1



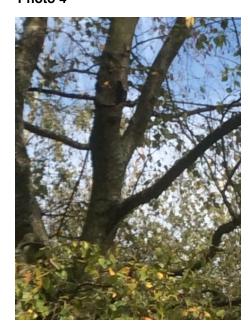
Photo 3



Photo 2



Photo 4





51.5373, -3.0847

Reference Number:	169
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Horse chestnut
Height (m)	20
Diameter (m)	50
Suitable Bat Features	Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 3

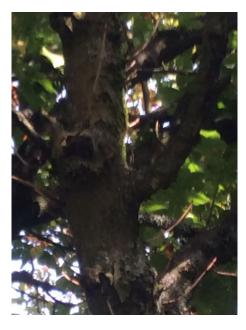
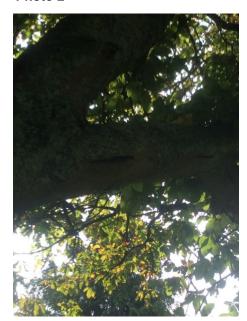


Photo 2

**Date**: 17-09-2014





Reference Number:	170
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date.	17-09-2014	l L'	0, 0.	51.5506, -5.065
Tree S	pecies			Beech
Height	t (m)			30

Diameter (m) 150

Suitable Bat Features Natural holes; Hollows/cavities;

Photo 1

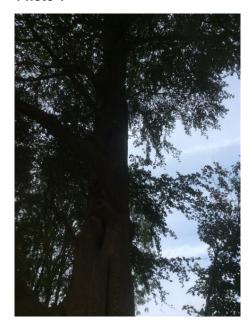


Photo 2





51.5385, -3.0881

Woodpecker holes; Cracks/splits in major limbs;

Reference Number:	171
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Pedunculate oak
Height (m)	40
Diameter (m)	175

GPS:

Photo 1



Photo 3



Photo 2

Date:

17-09-2014

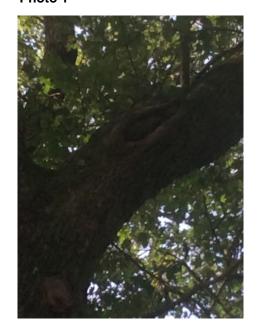
Suitable Bat Features





Reference Number:	172	Date:	17-09-2014	GPS:	51.5383, -3.0882
Туре:	Tree	Tree S	pecies		Field maple
Signs of Bat Use:		Height	: (m)		30
Potential:	2 - Low	Diame	ter (m)		100
Comments:		Suitab	le Bat Features	Natura	I holes; Hollows/cavities;

### Photo 1





Reference Number:	173
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

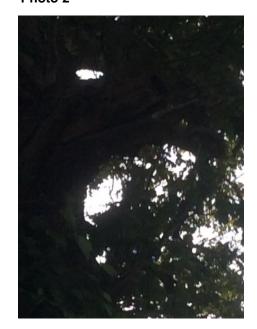
<b>Date:</b> 17-09-2014 <b>GPS:</b> 51.5379, -3.0
---

Tree Species	Pedunculate oak	
Height (m)	25	
Diameter (m)	100	
Suitable Bat Features	Cracks/splits in major limbs;	

Photo 1



Photo 2





51.5523, -3.0198

Cracks/splits in major limbs;

Reference Number:	174
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Hazard beam	

_	
Tree Species	Pedunculate oak
Height (m)	30
Diameter (m)	100

GPS:

Photo 1

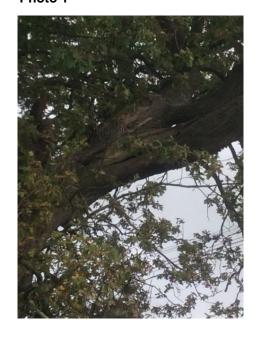


Photo 2

Date:

25-09-2014

Suitable Bat Features





Reference Number:	175
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

	Date:	25-09-2014	GPS:	51.552, -3.0186
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Tree Species	Pedunculate oak
Height (m)	12
Diameter (m)	30
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

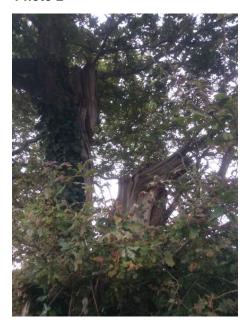
Photo 1



Photo 3



Photo 2





51.5369, -3.0861

Reference Number:	176
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
Double leader and br	oken limb

Tree Species	Sweet chestnut
Height (m)	35
Diameter (m)	175
Suitable Bat Features	Cracks/splits in major limbs;

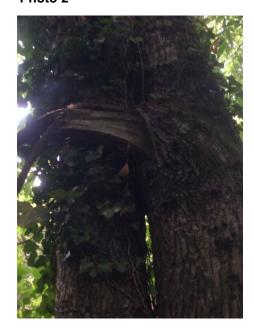
GPS:

Photo 1



Photo 2

**Date**: 17-09-2014





51.5374, -3.0849

Reference Number:	177
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Many holes in limbs 7+	

Tree Species	Mountain ash
Height (m)	15
Diameter (m)	30
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities:

GPS:

#### Photo 1



Photo 3



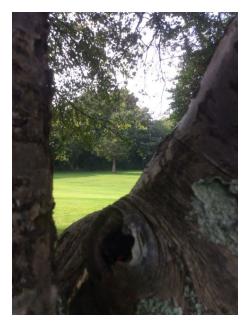
Photo 2

Date:

17-09-2014



Photo 4





Reference Number:	178	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
Double leader, possible gap between - very low potential		

Date:	17-09-2014	GPS:	51.5368, -3.0834	
Tree S	pecies		Alder	
Height	(m)		30	
Diame	ter (m)		30	
Suitab	le Bat Features		Hollows/cavities;	



Reference Number:	179
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

<b>Date:</b> 25-09-2014 <b>GPS:</b> 51.5539, -3.0165
--

Tree Species	Pedunculate oak
Height (m)	30
Diameter (m)	125
Suitable Bat Features	Natural holes; Loose bark;

Photo 1

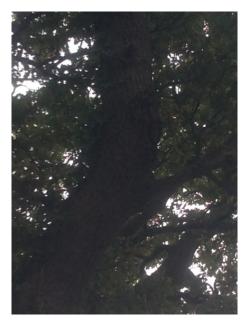
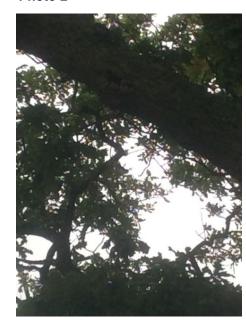


Photo 2





Reference Number:	180
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
İ	

Date:	17-09-2014	GPS:	51.5366, -3.0888

Tree Species	Pedunculate oak
Height (m)	35
Diameter (m)	130
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

Photo 1

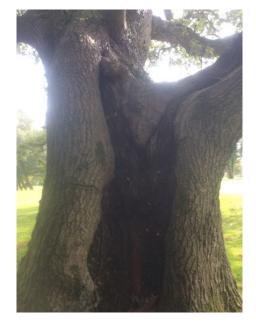


Photo 3

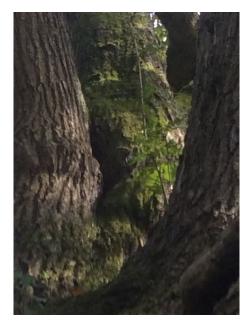
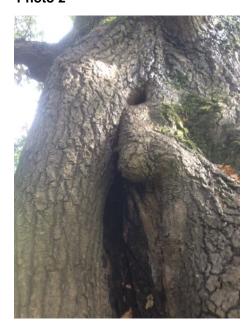


Photo 2





Reference Number:	181
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

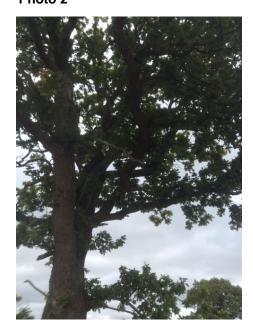
Prfs at 9m cavity west aspect, hazard beam on s limb 4m, cavity nw aspect at 6m

Tree Species	Pedunculate oak
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;

#### Photo 1



Photo 2





51.553, -3.0169

Reference Number:	182
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

-	-	
Tree Species	Turkey oak	
Height (m)	8	
Diameter (m)	0.3	
Suitable Bat Features	Cracks/splits in major limbs;	

GPS:

Photo 1

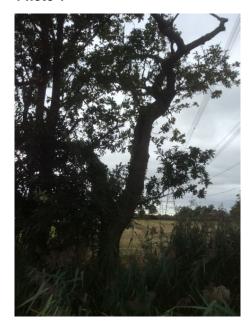
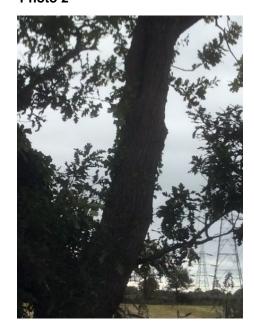


Photo 2

Date:

25-09-2014





Reference Number:	183
Type:	Tree
Signs of Bat Use:	Staining;
Potential:	1* - High
Comments:	

Comments:	
Prf woodpecker hole	at sw aspect, 10m

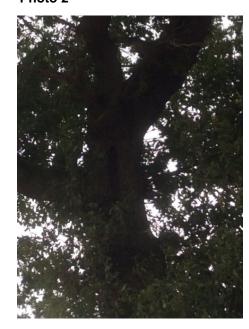
<b>Date:</b> 25-09-2014 <b>GPS</b> :	51.5527, -3.0197
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Tree Species	Pedunculate oak
Height (m)	18
Diameter (m)	1
Suitable Bat Features	Woodpecker holes; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	185
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Oommichts.				
Prf at 5m on limb	prot	ruding	to west	

Date:	25-09-2014	GPS:	51.5513, -3.0181
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Tree Species	Pedunculate oak
Height (m)	12
Diameter (m)	1
Suitable Bat Features	Natural holes; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	186
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1* - High
Comments:	

Prf tear out at 8m s aspect	

Tree Species	Pedunculate oak
Height (m)	18
Diameter (m)	1.5
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

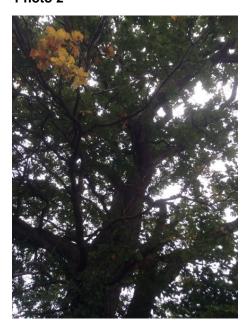
Photo 1



Photo 3



Photo 2





Reference Number:	187		
Туре:	Tree		
Signs of Bat Use:	Staining;		
Potential:	1 - Medium		
Comments:			

Comments:			
Cavity at 4m s fa	cing aspec	t	

<b>Date:</b> 17-09-2014 <b>GPS:</b> 51.531	3, -3.0901
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Tree Species	Horse chestnut
Height (m)	11
Diameter (m)	1.25
Suitable Bat Features	Natural holes; Hollows/cavities;

Photo 1

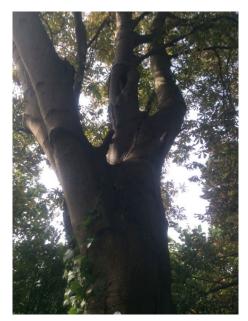


Photo 3

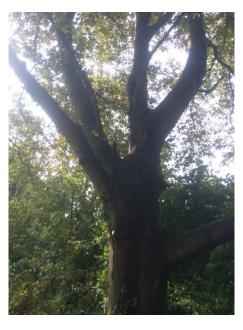
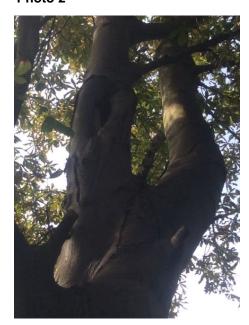


Photo 2





51.5507, -3.0188

Reference Number:	188	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
Prf at 5.5m east aspect		

Tree Species	Pedunculate oak
Height (m)	8
Diameter (m)	0.5
Suitable Bat Features	Cracks/splits in major limbs;

GPS:

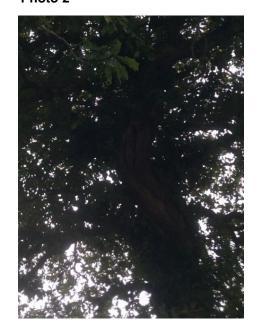
### Photo 1



Photo 2

Date:

25-09-2014





Reference Number:	189
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prf s limb at 8m nr crown, n limb at 4m rot behind decaying limb

Date:	25-09-2014		GPS:	51.5527, -3.0194
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Tree Species	Pedunculate oak
Height (m)	18
Diameter (m)	1.75
Suitable Bat Features	Cracks/splits in major limbs;

### Photo 1



Photo 3



Photo 2





Reference Number:	190
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

4m n aspect, tear out and decay apparent in limb. Tear out at 6m w aspect

Tree Species	Pedunculate oak
Height (m)	14
Diameter (m)	1
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs;

Photo 1



Photo 3

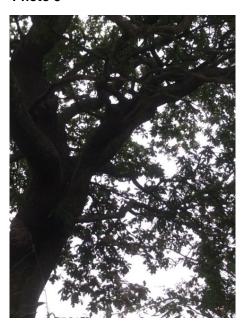


Photo 2





51.5518, -3.0219

Reference Number:	191	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1* - High	
Comments:		
Growth precludes view of crown, decay apparent in s aspect limbs		

Tree Species	Pedunculate oak
Height (m)	12
Diameter (m)	1
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;

GPS:

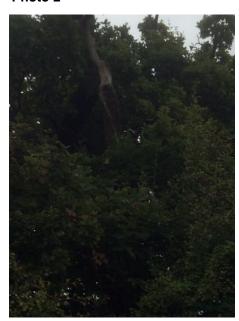
Photo 1



Photo 2

Date:

25-09-2014



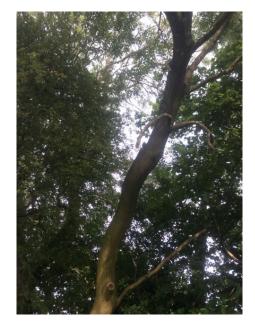


Cracks/splits in major limbs; Loose bark;

Reference Number:	192
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Prf at 8m s aspect	

Date:	17-09-2014	GPS:	51.532, -3.0938	
Tree Species			Ash	
Height (m)			15	
Diameter (m)				

#### Photo 1



### Photo 2

**Suitable Bat Features** 





Reference Number:	193
Туре:	Tree
Signs of Bat Use:	Staining; Fur polishing;
Potential:	1* - High
Comments:	

Date: 1	7-09-2014	GPS:	51.5329, -3.0932
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Tree Species	Pedunculate oak
Height (m)	18
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	194
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	30-09-2014	GPS:	51.553, -3.0889	
Tree Species			Pedunculate Oak	
Height	: (m)	16		
Diameter (m)			75	
Suitable Bat Features			al holes; Cracks/splits in or limbs; Loose bark; Hollows/cavities;	

Photo 1





Reference Number:	196
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Thick trunk un	to 1m then	narrow branches.
LITHUR HUHR UD	W 4111 MICH	Hallow Dialiches.

Tree Species	Crack willow
Height (m)	25
Diameter (m)	3
Suitable Bat Features	Natural holes; Hollows/cavities; Dense ivy;

### Photo 1

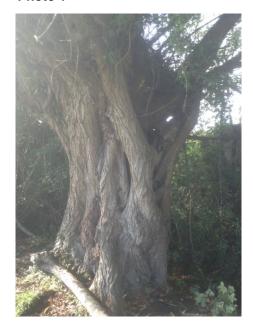


Photo 2





Reference Number:	197
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Thick trunk to	about 4m	than thinnar	hranches
	<i>,</i> ainni 411		เมลแนนธอ.

Tree Species	Crack willow
Height (m)	25
Diameter (m)	3.5
Suitable Bat Features	Natural holes; Hollows/cavities; Dense ivy;

Photo 1



Photo 2





Reference Number:	198		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

Next to entrance to compound on roadside verge. Veteran tree.

<b>Date</b> : 10-10-2014 <b>GPS</b> :	51.5614, -2.9403
---------------------------------------	------------------

Tree Species	Goat willow
Height (m)	10
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities; Dense epicormic growth;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	199
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

<b>Date:</b> 13-10-2014	GPS:	51.5587, -2.9357
-------------------------	------	------------------

Tree Species	Crack willow
Height (m)	10
Diameter (m)	0.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 2



Photo 3





Reference Number:	201
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Veteran crack willow. 3 trees in a line adjacent to ditch, and old building on opposite side of ditch.

Tree Species	Crack willow
Height (m)	11
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;



Photo 3



Photo 2



Photo 4





Reference Number:	202
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Veteran crack willow, there is ivy growing and hawthorn, but natural holes and cracks which have not been occluded by the ivy. Adjacent to 497 ditch.

	Date:	10-10-2014	GPS:	51.5607, -2.9406
--	-------	------------	------	------------------

Tree Species	Crack willow
Height (m)	13
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities; Dense ivy;

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	203
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	17-10-2014	GPS:	51.5587, -2.9523
	-		

Tree Species	Crack willow
Height (m)	12
Diameter (m)	0.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;

Photo 1



Photo 3



Photo 2





Reference Number:	204
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Crevices formed by trunk stems joining and cracks in bark.

Tree Species	Beech
Height (m)	
Diameter (m)	1
Suitable Bat Features	Loose bark; Hollows/cavities;



Photo 2





51.5469, -3.0819

Reference Number:	205
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Veteran tree.	

Tree Species	Oak
Height (m)	15
Diameter (m)	2
Suitable Bat Features	Cracks/splits in major limbs;

**Date:** 16-10-2014 **GPS**:

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	206
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	21-10-2014	GPS:	51.5621, -2.9344		
Tree Species			Oak		
Height	: (m)		1500		
Diame	ter (m)		100		
Suitable Bat Features		holes	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities:		

Photo 1



Photo 2





Reference Number:	207
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Adjacent to oak and hazel. In a woodland corridor.

Date:	16-10-2014	GPS:	51.5465, -3.0804
	-		-

Tree Species	Ash
Height (m)	20
Diameter (m)	2
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Dense ivy;



Photo 3



Photo 2





Reference Number:	208
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	16-10-2014	GPS:	51.5458, -3.0728

Tree Species	Sycamore
Height (m)	20
Diameter (m)	2
Suitable Bat Features	Natural holes; Loose bark;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	209
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:         16-10-2014           GPS:         51.5458, -3.0728	Tros Crosico			0			
	L	Date:	16-10-2014		GPS:	51.5458, -3.0728	

Tree Species	Sycamore
Height (m)	20
Diameter (m)	70
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;

Photo 1



Photo 3



Photo 2





51.5462, -3.0724

-	
Tree Species	Oak
Height (m)	25
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs;

GPS:

Photo 1



Photo 2

Date:

16-10-2014





Reference Number:	211
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

6 willows with dense ivy, May be concealing features

Date: 22-10-2014	<b>GPS</b> : 51.5752,	, -2.8512
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Tree Species	Willow
Height (m)	10
Diameter (m)	0.7
Suitable Bat Features	Dense ivy;

Photo 1



Photo 2



Photo 3

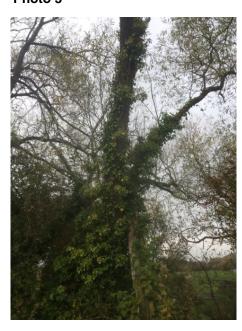


Photo 4





Reference Number:	212
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

_					
Potential:	1 - Medium				
Comments:					
5 holes facing south and southwest					

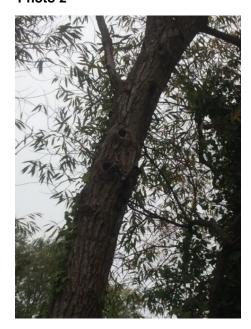
Date:	22-10-2014	GPS:	51.575, -2.8527	
Tree S	pecies	White willow		

Tree Species	White willow			
Height (m)	10			
Diameter (m)	0.3			
Suitable Bat Features	Natural holes; Woodpecker holes;			

Photo 1



Photo 2





Reference Number:	213	Date:	22-10-2014	GPS:	51.5739, -2.852	
Туре:	Tree	Tree S	Tree Species		Willow	
Signs of Bat Use:		Heigh	Height (m)		14	
Potential:	2 - Low	Diame	Diameter (m)		0.7	
Comments:		Suitab	le Bat Features	;	Dense ivy;	
Copse of willow all with civy could conceal feature		but				





Reference Number:	214	Date:	22-10-2014	GPS:	51.5747, -2.8528	
Type:	Tree	Tree S	pecies		Willow	
Signs of Bat Use:		Height (m)			6	
Potential:	2 - Low	Diameter (m)			1	
Comments:		Suitable Bat Features		;	Dense ivy;	
Dense scrub and ditcl	h limits access for inspection,	]		•		

#### Photo 1

over mature partially fallen





1.5

Reference Number:	215
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

<b>Date</b> : 22-10-201	4 GPS:	51.5747, -2.8548		
Tree Species		Willow		
Height (m)		10		

Suitable Bat Features Natural holes;

Photo 1



Photo 2

Diameter (m)





Reference Number:	216	Date:	22-10-2014	GPS	51.5753, -2.8508
Туре:	Tree	Tree S	pecies		Willow
Signs of Bat Use:		Height	(m)		14
Potential:	2 - Low	Diame	ter (m)		0.7
Comments:		Suitab	le Bat Features		Dense ivy;
Could be concealing f	eatures, two trees adjacent to			•	





Reference Number:	217
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Group of 4 willows with bat potential along boundary with road

Date: 2	22-10-2014	GF	PS:	51.5748, -2.8548
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Tree Species	Willow	
Height (m)	8	
Diameter (m)	1	
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities; Dense ivy;	

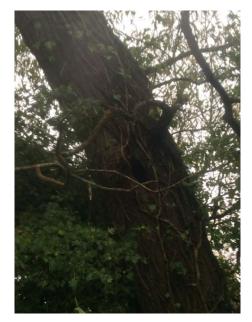


Photo 3



Photo 2



Photo 4





**GPS:** 51.5751, -2.8516

Reference Number:	218
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
Adjacent to ditch	

Tree Species	White willow		
Height (m)	10		
Diameter (m)	1		
Suitable Bat Features	Dense ivy;		

Photo 1



Photo 2

Date: 22-10-2014





Reference Number:	219	Date:	22-10-2014	GPS:	51.5739, -2.853	
		<b>-</b>				
Type:	Tree	Tree S	Tree Species		Willow	
Signs of Bat Use:		Height	: (m)		14	
Potential:	2 - Low	Diame	ter (m)		1	
Comments:		Suitab	le Bat Features		Dense ivy;	
Dense scrub and ree	ds adjacent limit access for	7				

#### Photo 1

inspection





Reference Number:	220	<b>Date:</b> 22-10-2014	GPS:	51.5754, -2.8503
Туре:	Tree	Tree Species		Willow
Signs of Bat Use:		Height (m)		13
Potential:	2 - Low	Diameter (m)		0.7
Comments:		Suitable Bat Features		Dense ivy;
Group of 3 with dense	ivy		-	





51.5752, -2.8514

Reference Number:	221	
Type:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
Adjacent to track, split in old limb		

Tree Species	Willow
Height (m)	8
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Dense ivy;

GPS:

Photo 1



Photo 2

Date:

22-10-2014





Reference Number:	222	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		

	Could be concealing features. 3 trees adjacent to
ı	track

|--|

Tree Species	White willow
Height (m)	10
Diameter (m)	0.4
Suitable Bat Features	Dense ivy;

Photo 1



Photo 3



Photo 2





Reference Number:	223	<b>Date</b> : 22-10-2014	<b>GPS</b> : 51.5753, -2.8508
Type:	Tree	Tree Species	Willow
Signs of Bat Use:		Height (m)	14
Potential:	2 - Low	Diameter (m)	1
Comments:		Suitable Bat Features	Dense ivy;
Could be concealing for branches	eatures, large trunk some i	vy	





Reference Number:	224	
Type:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		

Split in one limb appears to have been used at some point-debris hanging out. Ivy growing up next to tree and through one limb. Tree located on ditch bank along remnant treeline/hedge

Date:	22-10-2014	GPS	51.5645, -2.9066
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Tree Species	Ash
Height (m)	20
Diameter (m)	1.8
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

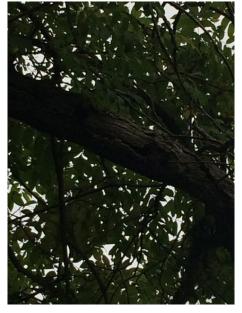


Photo 3



Photo 2



Photo 4





Reference Number:	225	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		

Difficult to see features of tree due to ivy. Base of tree particularly may have hollows/broken branches/bark

<b>Date:</b> 22-10-2014 <b>GPS:</b> 51.5645	5, -2.9067
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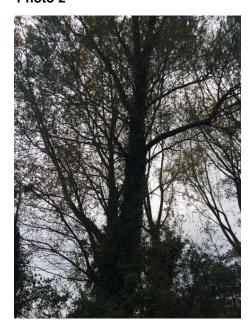
Tree Species	Suspected white willow
Height (m)	35
Diameter (m)	3
Suitable Bat Features	Loose bark; Hollows/cavities; Dense ivy;



Photo 3



Photo 2





Reference Number:	226
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Signs of use in cracks -debris and dust. Some ivy growth though not very dense

Tree Species	Goat willow
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Hollows/cavities;

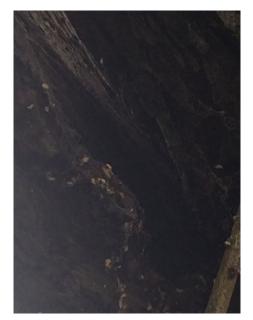


Photo 3



Photo 2





Reference Number:	227
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

On ditch bank. Loose bark and cracks. In managed hedgerow

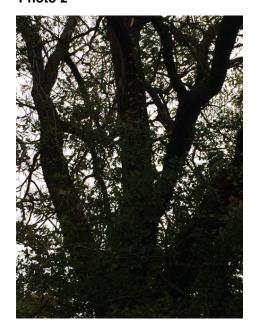
Tree Species	Crack williw
Height (m)	15
Diameter (m)	1.2
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;



Photo 3



Photo 2





Reference Number:	228
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Sparse ivy, s	ome splits ir	n bark. Lo	ocated o	n ditch
<b>-</b>   -  -  -  -  -  -  -  -  -  -  -  -  -	•• •p•			

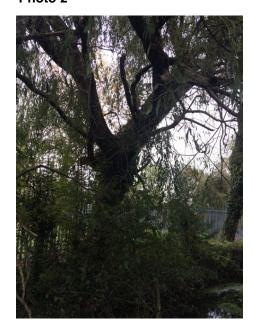
Tree Species	Weeping willow
Height (m)	30
Diameter (m)	1.8
Suitable Bat Features	Loose bark;



Photo 3



Photo 2





Reference Number:	229
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
Copiced tree, dense ivy on trunk	

Date:	22-10-2014	GPS:	51.562, -2.928
Tree S	Tree Species Willow		Willow
Height	(m)	10	
Diame	ter (m)		0.8
Suitable Bat Features		Dense ivy;	

Photo 1



Photo 2





Reference Number:	230
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Intact tree. Ivy dense around base, thinning higher up, located on ditch bank

Date:	22-10-2014	GPS:	51.5656, -2.9069

Tree Species	Crack willow
Height (m)	30
Diameter (m)	2.5
Suitable Bat Features	Dense ivy;

Photo 1



Photo 2





Reference Number:	231
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	17-10-2014	GPS:	51.5571, -2.9517
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Tree Species	White Willow
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Natural holes; Loose bark;

Photo 1



Photo 3



Photo 2



Photo 4





51.5595, -2.9531

Reference Number:	232	
Type:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
On edge of woodland.		

·	
Tree Species	Crack willow
Height (m)	15
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Dense ivy;

**Date**: 17-10-2014 **GPS**:

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	233
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Possible hole and slip in dead branch	

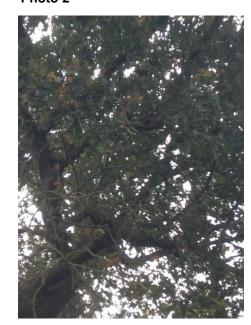
	Date:	23-10-2014	GPS	51.5747, -2.8565
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Tree Species	Oak
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Dense ivy;

Photo 1



Photo 2





51.5621, -2.9447

Reference Number:	235
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

·	
Tree Species	Goat willow
Height (m)	9
Diameter (m)	0.5
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs: Loose bark:

GPS:

Photo 1



Photo 2

Date:

23-10-2014



Photo 3



Photo 4





Reference Number:	236
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	23-10-2014	GPS:	51.5629, -2.9448

Tree Species	White willow
Height (m)	25
Diameter (m)	2
Suitable Bat Features	Loose bark; Hollows/cavities; Dense ivy;

Photo 1



Photo 3



Photo 2





Reference Number:	237
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High

Comments:

Mature trees in woodland, inaccessible due to dense undergrowth.

<b>Date:</b> 23-10-2014 <b>GPS:</b> 51.5631, -2.944	17
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Tree Species	White willow
Height (m)	50
Diameter (m)	
Suitable Bat Features	



Photo 2



Photo 3



Photo 4





Reference Number:	238
Туре:	Building
Signs of Bat Use:	
Potential:	3 - None

Comments:

Asbestos walls with brick foundations. No roof.

Date:	23-10-2014	GI	PS:	51.5628, -2.9426
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Building Type	Shed
Building Age	
Height of Eaves (m)	
Pitch Height at Gable End	
Roof Aspect	
Roof Complexity	
Roof Covering	
Suitable Bat Features	

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	239
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Ash tree adjacent to ditch in hedge on edge of woodland. Adjacent to another ash covered in dense ivy.

Date:	23-10-2014	GPS	51.5618, -2.9418
			-

Tree Species	Ash
Height (m)	20
Diameter (m)	0.5
Suitable Bat Features	Loose bark;



Photo 2



Photo 3



Photo 4





Reference Number:	240	Date:	23-10-2014	GPS:	51.5622, -2.9439
Туре:	Tree	Tree S	pecies		Crack willow
Signs of Bat Use:		Height	(m)		20
Potential:	1 - Medium	Diame	ter (m)		2
Comments:		Suitab	le Bat Features		ks/splits in major limbs; bark; Hollows/cavities;

Photo 1



Photo 3



Photo 2





Reference Number:	243
Туре:	Building
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Flat roof. Derelict building with no windows or doors. Unsafe condition with signs of vandalism. Large bees nest within southern facing window. Bats could use as roost site and would need thorough inspection.

<b>Date:</b> 27-10-2014 <b>GPS:</b>	51.5629, -2.9419
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Desitation of Terror	O#:		
Building Type	Office		
Building Age	60		
Height of Eaves (m)	6		
Pitch Height at Gable End			
Roof Aspect			
Roof Complexity			
Roof Covering			
Suitable Bat Features			





Reference Number:	244	Date:	27-10-2014	GPS:	51.5636, -2.9426
Туре:	Tree	Tree S	pecies		S.frag
Signs of Bat Use:		Height	(m)		6
Potential:	2 - Low	Diame	ter (m)		200
Comments:		Suitab	le Bat Features	Natura	holes; Cracks/splits in major limbs;



Reference Number:	: 245		
Туре:	Building		
Signs of Bat Use:			
Potential:	3 - None		
Comments:			
Flat roof. Corrugated tin walls and roof. Chimney. Very overgrown.			

<b>Date:</b> 27-10-2014	<b>GPS:</b> 51.5627, -2.9425
Building Type	Shed
Building Age	50
Height of Eaves (m)	2.5
Pitch Height at Gable End	2.5
Roof Aspect	S
Roof Complexity	
Roof Covering	Corrugated Sheets
Suitable Bat Features	





Reference Number:	247
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree is decaying,	fungi	present	and	multiple
cavities				

Date:	21-10-2014	GPS:	51.5471, -3.0748

Tree Species	Oak
Height (m)	18
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 2





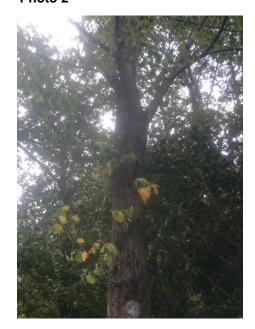
Reference Number:	248
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	10-10-2014	GPS:	51.5459, -3.0737	
Tree S	pecies		Elm	
Height	: (m)		14	
Diame	ter (m)		0.4	
Suitable Bat Features		V	Voodpecker holes;	

Photo 1



Photo 2





Reference Number:	249
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	24-10-2014	GPS:	51.5457, -3.0227
Tree S	pecies		Oak
Height	: (m)		14
Diame	ter (m)		1.25
Suitab	le Bat Features	holes	ral holes; Woodpecker ; Cracks/splits in major bs; Hollows/cavities;

Photo 1

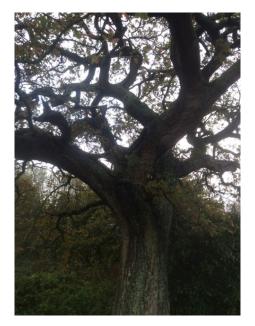


Photo 3



Photo 2





Reference Number:	250
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prfs at approx 9 and 10m west facing, decay apparent at crown

Date:	08-10-2014	GPS:	51.5361, -3.0881
	-		

Tree Species	Ash
Height (m)	17
Diameter (m)	1
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs;

Photo 1



Photo 3



Photo 2





51.5472, -3.0725

major limbs;

Reference Number:	251
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree Species	Pedunculate oak
Height (m)	22
Diameter (m)	2
Suitable Bat Features	Natural holes; Cracks/splits in

GPS:

Photo 1



Photo 3



Photo 2

Date:

21-10-2014





51.5473, -3.0732

Reference Number:	252
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Pedunculate oak
Height (m)	20
Diameter (m)	1.75
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

GPS:

Photo 1



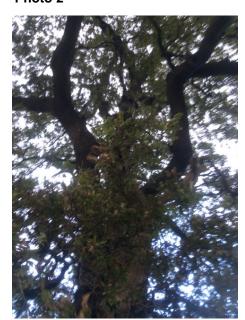
Photo 3



Photo 2

Date:

21-10-2014





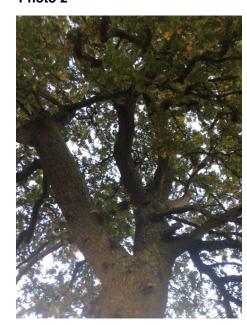
Reference Number:	253
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree Species	Pedunculate oak
Height (m)	14
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Dense ivy;

Photo 1



Photo 2





Reference Number:	254
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Decay on e aspect limb, cracking of bark on this limb

Date:	08-10-2014	G	PS:	51.5447, -3.0472
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Tree Species	Pedunculate oak
Height (m)	14
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs;



Photo 3



Photo 2





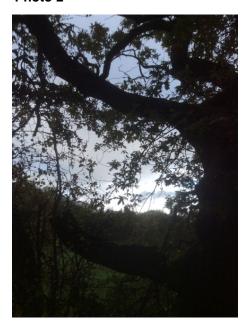
Reference Number:	255
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	24-10-2014	GPS:	51.5458, -3.0226	
Tree Species			Oak	
Height	: (m)		9	
Diame	ter (m)		1	
Suitable Bat Features		holes	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;	

Photo 1



Photo 2





Reference Number:	256
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

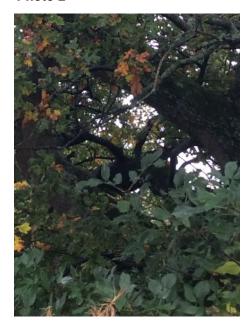
Date:	24-10-2014	GPS:	51.5449, -3.083

Tree Species	Pedunculate oak	
Height (m)	25	
Diameter (m)	60	
Suitable Bat Features	Natural holes; Hollows/cavities;	

Photo 1



Photo 2





Reference Number:	257
Туре:	Tree
Signs of Bat Use:	Droppings;
Potential:	2 - Low
Comments:	

Date:	24-10-2014	G	PS:	51.5468, -3.0817	
Tree Species			Pedunculate oak		
Height (m)			15		

Diameter (m)

Suitable Bat Features

Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 3

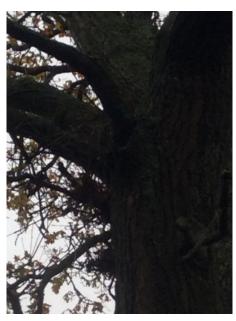
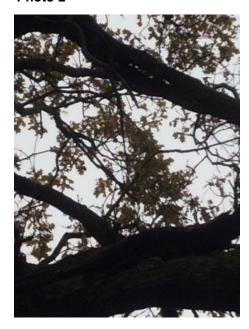


Photo 2





Reference Number:	259
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	24-10-2014	GPS:	51.545, -3.0219		
Tree Species			P oak		
Height	: (m)		16		
Diameter (m)			1		
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs:		

Photo 1



Photo 2





51.5524, -3.0135

Reference Number:	260			
Туре:	Tree			
Signs of Bat Use:				
Potential:	1* - High			
Comments:				
Prf s limb (decay) and ne non occluded limb at 6m				

Tree Species	Oak
Height (m)	12
Diameter (m)	1
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;

GPS:

Photo 1



Photo 2

**Date**: 24-10-2014





51.5478, -3.0667

Reference Number:	261
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree Species	Pedunculate oak
Height (m)	12
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 3



Photo 2

Date:

21-10-2014





Reference Number:	262	<b>Date:</b> 24-10-201	<b>GPS:</b> 51.5522, -3.0138
Туре:	Tree	Tree Species	Pedunculate oak
Signs of Bat Use:		Height (m)	12
Potential:	1* - High	Diameter (m)	1.5
Comments:		Suitable Bat Featu	res Natural holes; Cracks/splits in major limbs; Hollows/cavities;
			•

Photo 1

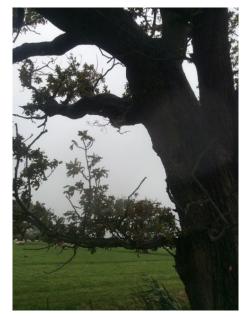
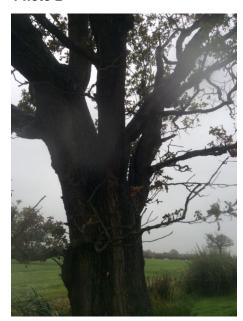


Photo 3



Photo 2





51.5517, -3.0138

Reference Number:	263
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Pe oak		
Height (m)	10		
Diameter (m)	1		
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;		

GPS:

Photo 1



Photo 2

Date:

24-10-2014





Reference Number:	264
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prfs around tree on n aspect on decaying limbs from 2m up to 6m, kissing limbs on s aspect with prf at joint

Tree Species	Sycamore
Height (m)	16
Diameter (m)	2
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;

Photo 1



Photo 2





Reference Number:	265	Date:	24-10-2014	GPS:	51.5529, -3.0127
Type:	Tree	Tree S	pecies		Deadwood
Signs of Bat Use:		Height	(m)		10
Potential:	1 - Medium	Diameter (m)			0.75
Comments:		Suitab	le Bat Features		Voodpecker holes; ks/splits in major limbs;

Photo 1





51.5375, -3.0892

Reference Number:	266	Date:	08-10-2014
Tyne			06-10-2014
1.700.	Tree	Tree S	pecies
Signs of Bat Use:		Height	: (m)
Potential: 2	2 - Low	Diame	ter (m)
Comments:		Suitab	le Bat Featur

Tree Species	Cherry	
Height (m)	20	
Diameter (m)	60	
Suitable Bat Features	Loose bark;	

GPS:

Photo 1



Photo 3



Photo 2





Reference Number:	267
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
B 11 1 1 1	

Comments:	
	avities, many not very deep, //ay have better potential

Date:	08-10-2014	GPS:	51.5368, -3.0899		
Tree Species			Silver birch		
Height	: (m)		20		
Diame	ter (m)		50		
Suitable Bat Features			Hollows/cavities;		



**GPS**: 51.5454, -3.0232

Reference Number:	268
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

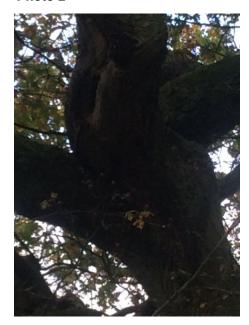
Tree Species	Pedunculate oak
Height (m)	15
	15
Diameter (m)	80
Suitable Bat Features	Natural holes:

Photo 1



Photo 2

**Date**: 24-10-2014





Reference Number:	270
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Cavity low to ground, about 1m above ground

Date: 29-10-2014 GPS: 51.5902, -2.7997
--

Tree Species	Hybrid black poplar
Height (m)	15
Diameter (m)	1.25
Suitable Bat Features	Hollows/cavities;

Photo 1



Photo 2





Reference Number:	271
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Old cherry,	dead wood,	loose	bark	and potentia	ıl
holes					

Date:         29-10-2014         GPS:         51.5932, -2.802
---

Tree Species	Cherrt
Height (m)	20
Diameter (m)	0.5
Suitable Bat Features	Natural holes; Loose bark;

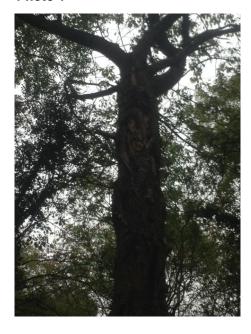


Photo 2





Reference Number:	272
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

2 trees together plus on by track

Tree Species	Hybrid black poplar
Height (m)	15
Diameter (m)	1.25
Suitable Bat Features	Dense ivy;



Photo 3



Photo 2



Photo 4





Reference Number:	273		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1* - High		
Comments:			

Prfs within loose bark and cracks especially at 12m approx south aspect

<b>Date:</b> 30-10-2014	<b>GPS:</b> 51.553, -3.0557	
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Tree Species	Willow
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;



Photo 2





Reference Number:	274
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Prf 8m e aspect - large cavity; 9m bees in woodpecker hole, 11m- woodpecker hole

<b>Date:</b> 30-	10-2014	GPS:	51.553, -3.0541	
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Tree Species	Pedunculate oak
Height (m)	18
Diameter (m)	1.5
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs;

Photo 1

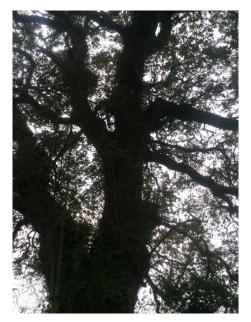
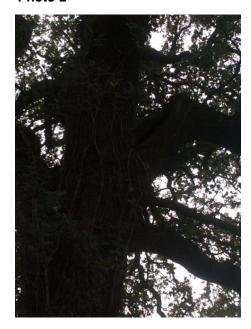


Photo 3



Photo 2





Reference Number:	275		
Туре:	Building		
Signs of Bat Use:			
Potential:	1* - High		
Comments:			
All buildings on site o	f this type high potential.		

<b>Date:</b> 30-10-2014	GPS:	51.5525, -3.0552
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Building Type	Barn
Building Age	100
Height of Eaves (m)	1.5
Pitch Height at Gable End	3
Roof Aspect	We
Roof Complexity	Single ridge
Roof Covering	Slates
Suitable Bat Features	Loose Tiles/slates;

Photo 1



Photo 2





51.5519, -3.054

Reference Number:	276	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
Prfs on w aspect, 3.5-5m		

Tree Species	Willow
Height (m)	10
Diameter (m)	0.5
Suitable Bat Features	Woodpecker holes; Cracks/splits in major limbs; Hollows/cavities;

GPS:

Photo 1



Photo 3



Photo 2

Date:

30-10-2014





Reference Number:	277
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Branch with splits nearest field edge extend back into branch and various splits and holes in main trunk behind this.

Tree Species	Crack willow
Height (m)	20
Diameter (m)	106
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;

#### Photo 1







51.5607, -2.8879

T
Tree Species
Height (m)
- Low Diameter (m)
Suitable Bat Fea

Tree Species	Crack willow
Height (m)	20
Diameter (m)	220
Suitable Bat Features	Loose bark;

GPS:



Reference Number:	279	Date:	31-10-2014	GPS:	51.5669, -2.8892
Туре:	Tree	Tree S	pecies		Oak
Signs of Bat Use:		Height	(m)		18
Potential:	2 - Low	Diameter (m)			175
Comments:		Suitab	e Bat Features	Crack	s/splits in major limbs; Loose bark;

Photo 1



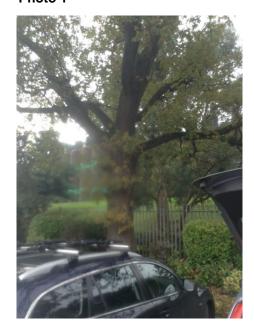


Reference Number:	280	Date:	30-10-2014	GPS:	51.5822, -2.8453	
Туре:	Tree	Tree S	pecies		Qs	
Signs of Bat Use:		Height	(m)		15	
Potential:	1 - Medium	Diameter (m)			250	
Comments:		Suitab	le Bat Features		al holes; Cracks/splits in ijor limbs; Dense ivy;	





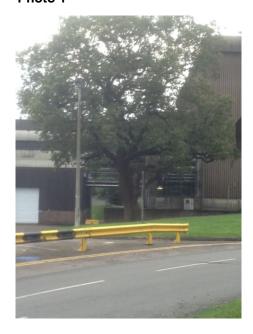
Reference Number:	281	<b>Date:</b> 30-10-2014	<b>GPS:</b> 51.5864, -2.845
Туре:	Tree	Tree Species	Oak
Signs of Bat Use:		Height (m)	18
Potential:	2 - Low	Diameter (m)	200
Comments:		Suitable Bat Features	Cracks/splits in major limbs;





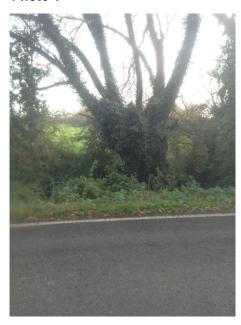
Reference Number:	282	Date:	30-10-2014	GPS:	51.5853, -2.846	
Туре:	Tree	Tree S	pecies		Oak	
Signs of Bat Use:		Height	: (m)		20	
Potential:	1 - Medium	Diameter (m)			250	
Comments:		Suitable Bat Features		Natura	al holes; Cracks/splits in major limbs;	
				•		

Photo 1





Reference Number:	283	Date:	31-10-2014	GPS:	51.5623, -2.8824
Туре:	Tree	Tree S <sub>l</sub>	pecies		Crack willow
Signs of Bat Use:		Height	(m)		20
Potential:	2 - Low	Diameter (m)			300
Comments:		Suitable Bat Features		Cracl	Cracks/splits in major limbs
Multistem pollard					





Reference Number:	284
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5821, -2.8472		
Tree S	pecies		Oak		
Height	: (m)		25		
Diame	ter (m)		1		
Suitab	Suitable Bat Features		al holes; Cracks/splits in jor limbs; Dense ivy;		

Photo 1



Photo 2



Photo 3





Reference Number:	285
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

2 ash trees in small ar	ea of woodland adjacent to
old badger sett.	-

Date:	30-10-2014	GPS:	51.5847, -2.8415
	-		

Tree Species	Ash
Height (m)	35
Diameter (m)	100
Suitable Bat Features	Natural holes;



Photo 3



Photo 2



Photo 4





Reference Number:	286
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Veteran tree.	

Date:	30-10-2014	GPS:	51.587, -2.8463	
Tree Species			Oak	
Height	: (m)		40	
Diameter (m)			300	
Suitable Bat Features			al holes; Cracks/splits in or limbs; Loose bark; Dense ivv:	

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	287	
Type:	Building	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
Building covered in ivy and surrounded by brambles. Inaccessible to make assessment.		

<b>Date</b> : 29-10-2014	GPS:	51.5616, -2.9463
Building Type		Shed

Building Type	Shed
Building Age	
Height of Eaves (m)	4
Pitch Height at Gable End	
Roof Aspect	
Roof Complexity	
Roof Covering	
Suitable Bat Features	

Photo 1



Photo 2





Reference Number:	288
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Oak
Height (m)	25
Diameter (m)	2
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;

**Date:** 30-10-2014 **GPS:** 51.5821, -2.8472

Photo 1



Photo 2



Photo 3



Photo 4





51.5578, -2.9455

Reference Number:	289	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
In woodland.		

Tree Species	Crack willow
Height (m)	30
Diameter (m)	1
Suitable Bat Features	Natural holes; Hollows/cavities;

GPS:

Photo 1



Photo 2

Date:

29-10-2014



Photo 3





51.5825, -2.8476

Reference Number:	290
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Oak
Height (m)	25
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Dense ivy;

**Date:** 30-10-2014 **GPS:** 

Photo 1



Photo 2



Photo 3



Photo 4





51.558, -2.9445

Hollows/cavities; Dense ivy;

Reference Number:	291
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Crack willow
Height (m)	5
Diameter (m)	2
Suitable Bat Features	Natural holes; Loose bark;

GPS:

Photo 1



Photo 3



Photo 2

Date:

29-10-2014

Suitable Bat Features



Photo 4





51.5826, -2.8476

Reference Number:	292
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Oak
Height (m)	25
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs;

GPS:

Photo 1



Photo 3



Photo 2

Date:

30-10-2014

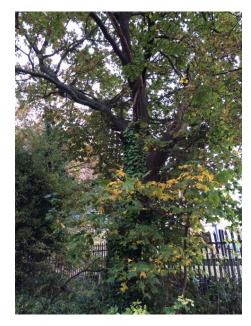


Photo 4





Tree	
2 - Low	
	2 - Low

Date:	30-10-2014	GPS:	51.5829, -2.8476		
Tree Species			Oak		
Height	: (m)		20		
Diame	ter (m)	1.5			
Suitable Bat Features		Lo	Loose bark; Dense ivy;		

Photo 1



Photo 2

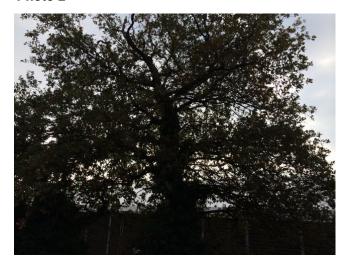


Photo 3



Photo 4





Reference Number:	294
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Mature tree in hedgerow.	

Date: 30-10-2014 GPS: 51.5829, -2.8	8499
-------------------------------------	------

Tree Species	Oak
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Dense ivy;

Photo 1



Photo 3



Photo 2

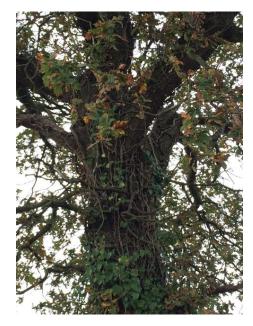


Photo 4





Reference Number:	295
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Adjacent to security carpa	rk.	

Date: 3	0-10-2014	GPS:	51.5864, -2.8448
---------	-----------	------	------------------

Tree Species	Oak
Height (m)	20
Diameter (m)	2
Suitable Bat Features	Natural holes; Loose bark; Hollows/cavities;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	296
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	30-10-2014	GPS:	51.582, -2.8467	
T 0			0-1	
ree S	pecies		Oak	
Height	: (m)		20	
Diame	ter (m)		1	
Suitable Bat Features		Crack	Cracks/splits in major limbs; Dense ivy;	

Photo 1



Photo 3



Photo 2





Reference Number:	297
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Mature oak in hedgerow.	

Date:	30-10-2014	GPS:	51.5825, -2.8493	
Tree S	pecies		Oak	
Height	: (m)		25	
Diame	ter (m)	1		
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Loose bark; Dense ivy;	

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	298
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5821, -2.8475

Tree Species	Oak
Height (m)	25
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

Photo 1



Photo 3



Photo 2



Photo 4





51.5827, -2.848

Reference Number:	299
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

_	-
Tree Species	Oak
Height (m)	15
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Dense ivy;

GPS:

Photo 1



Photo 3



Photo 2

Date:

30-10-2014



Photo 4





Reference Number:	300
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Oak
Height (m)	15
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Bird/Bat hoxes:

**Date:** 30-10-2014 **GPS:** 51.5867, -2.8452

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	301
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

In broad leaved woodland adjacent to di	itch	to di	diacent to	and adi	woodl	leaved	hroad	In
---	------	-------	------------	---------	-------	--------	-------	----

Date:	29-10-2014	(	GPS:	51.5582, -2.9466
-------	------------	---	------	------------------

Tree Species	Crack willow		
Height (m)	30		
Diameter (m)	1		
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;		

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	302
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
I	

	Date:	31-10-2014	GPS:	51.5661, -2.8947
--	-------	------------	------	------------------

Tree Species	White willow		
Height (m)	20		
Diameter (m)	150		
Suitable Bat Features	Natural holes; Woodpecker holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;		

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	303
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

	Date:	31-10-2014	GPS:	51.5684, -2.8925
--	-------	------------	------	------------------

Tree Species	White willow		
Height (m)	20		
Diameter (m)	1		
Suitable Bat Features	Woodpecker holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;		

Photo 1



Photo 3



Photo 2

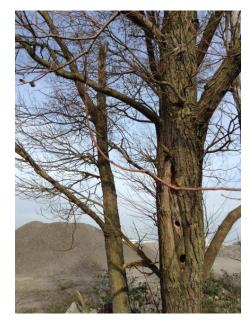


Photo 4





Reference Number:	304
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree on	ditch and	l part of	semi	defunct	hedgerow
1100 011	alton and	partor	301111	acianiot	ncagorow

Date:	27-10-2014	GPS:	51.5638, -2.9109

Tree Species	Ash
Height (m)	15
Diameter (m)	1.8
Suitable Bat Features	Dense ivy;



Photo 2





51.5627, -2.9112

Reference Number:	305		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			
Hole 1m up from bas	e		

Tree Species	Willow
Height (m)	15
Diameter (m)	1.5
Suitable Bat Features	Natural holes;

GPS:

Photo 1



Photo 3



Photo 2

Date:

27-10-2014





Reference Number:	306
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

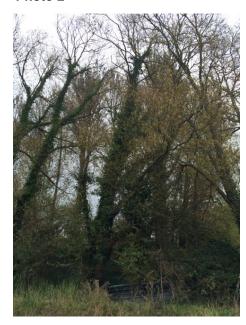
Tree	split:	at base	into 3	separate	slim trunks
1100	Spine	ai basc	IIIIO O	Suparatu	JIIIII ti ti ti ti

Tree Species	Crack willow
Height (m)	15
Diameter (m)	1.2
Suitable Bat Features	Dense ivy;

Photo 1



Photo 2





Reference Number:	307
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

!				
	Broken	branch	low	down.

<b>Date:</b> 27-10-2014	<b>GPS:</b> 51.5645, -2.9113
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Tree Species	Crack willow
Height (m)	15
Diameter (m)	1.2
Suitable Bat Features	Hollows/cavities; Dense ivy;



Photo 3

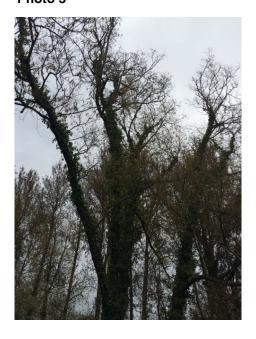


Photo 2



Photo 4





51.5645, -2.9112

Reference Number:	308		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

oonments.	
Willow split at base in dense further up trunl	to 3 slim trunks. Ivy less

<u> </u>	
Tree Species	Crack willow
Height (m)	15
Diameter (m)	1.2
Suitable Bat Features	Dense ivy;

GPS:

#### Photo 1



Photo 3



Photo 2

Date:

27-10-2014





Reference Number:	309	<b>Date</b> : 27-10-2014	GPS:	51.5625, -2.9107
Туре:	Tree	Tree Species		Ash
Signs of Bat Use:		Height (m)		12
Potential:	2 - Low	Diameter (m)		0.8
Comments:		Suitable Bat Features		
Some ivy.			-	





Reference Number:	310
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Hollows and cracks approx 2.5-3m from base of tree. Tree copiced and regrown.

<b>Date:</b> 27-10-2014	GPS:	51.5628, -2.9113
-------------------------	------	------------------

Tree Species	Willow
Height (m)	15
Diameter (m)	1.8
Suitable Bat Features	Hollows/cavities;



Photo 3



Photo 2





Reference Number:	311
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Ditch on reen in	hedgero	W	

Date:	27-10-2014	GPS:	51.5629, -2.9107
Tree S	pecies		Ash
Height	: (m)	15	
Diame	Diameter (m)		1.4
Suitab	le Bat Features	Dense ivv:	

Photo 1

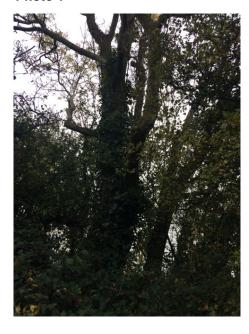


Photo 2





Reference Number:	312
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Two ash trees 20cm apart. Dense ivy obscuring

Date:	27-10-2014	GPS:	51.5627, -2.9105		
Tree Species			Ash		
Height	: (m)		15		
Diame	ter (m)		1		
Suitab	le Bat Features		Dense ivy;		

#### Photo 1







51.5645, -2.9113

Reference Number:	313
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
1	

Tree Species	Crack willow	
Height (m)	18	
Diameter (m)	1.2	
Suitable Bat Features	Loose bark; Dense ivy;	

GPS:

Photo 1



Photo 3



Photo 2

Date:

27-10-2014





Reference Number:	316	<b>Date</b> : 30-10-2014	<b>GPS:</b> 51.5859, -2.8453
Type:	Tree	Tree Species	Oak
Signs of Bat Use:		Height (m)	18
Potential:	1 - Medium	Diameter (m)	200
Comments:		Suitable Bat Features	Natural holes; Dense ivy;

Photo 1





Reference Number:	317
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Group of trees	

Date:	30-10-2014	GPS:	51.5908, -2.8174	
Tree S	pecies		Birch	
Height	: (m)		35	
Diame	ter (m)		100	
Suitable Bat Features		Natura	al holes; Cracks/splits in major limbs;	

Photo 1



Photo 2





Reference Number:	318
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5892, -2.8187	
Tree S	pecies		Oak	
Height	: (m)		25	
Diame	ter (m)		150	
Suitab	le Bat Features		al holes; Cracks/splits in jor limbs; Dense ivy;	

Photo 1



Photo 2





Reference Number:	319
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Two trees	

Date:	30-10-2014	GPS:	51.5887, -2.816
Tree S	pecies		Oak
Height	(m)		30
Diame	ter (m)		100
Suitable Bat Features		Natu	ıral holes; Loose bark;

Photo 1

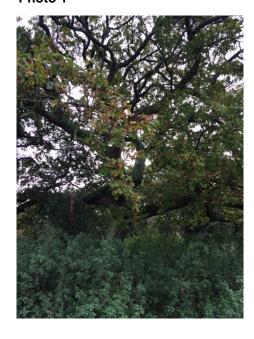


Photo 2





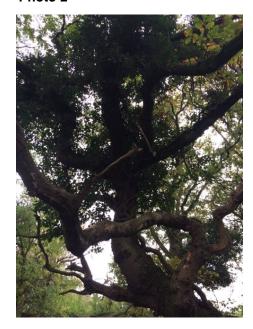
Reference Number:	320
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5881, -2.8146	
Tree S	pecies		Oak	
Height	t (m)		30	
Diame	ter (m)		100	
Suitab	le Bat Features		al holes; Cracks/splits in or limbs; Loose bark; Dense ivy;	

Photo 1



Photo 2





Reference Number:	321
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Comments.	
Group of 5 trees	_
'	

<b>Date:</b> 30-10-2014 <b>GPS:</b> 51.5887, -2.8155
--

Tree Species	Ash
Height (m)	35
Diameter (m)	100
Suitable Bat Features	Loose bark; Dense ivy;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	322	<b>Date</b> : 30-10-2014	<b>GPS</b> : 51.5904, -2.8172
Туре:	Tree	Tree Species	Oak
Signs of Bat Use:		Height (m)	30
Potential:	1 - Medium	Diameter (m)	250
Comments:		Suitable Bat Features	Natural holes;

Photo 1





Reference Number:	323
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Group of 5 trees	

Date:	30-10-2014	GPS:	51.591, -2.8168		
Tree Species			Oak		
Height (m)			35		
Diameter (m)			100		
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Loose bark;		

### Photo 1



Photo 3



Photo 2





Reference Number:	324
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

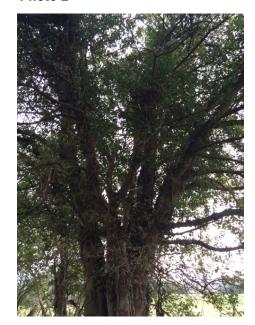
<b>Date:</b>   30-10-2014   <b>GPS:</b>   51.5892, -2.8193
--

Tree Species	Field maple	
Height (m)	25	
Diameter (m)	200	
Suitable Bat Features	Loose bark; Dense ivy;	

Photo 1



Photo 2





Reference Number:	325
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5893, -2.8178		
Tree Species			Oak		
Height (m)			25		
Diameter (m)			200		
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Hollows/cavities;		

Photo 1



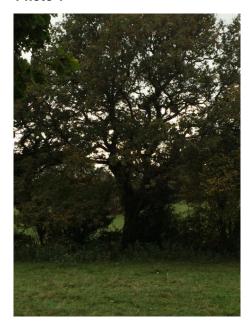
Photo 2





Reference Number:	326	<b>Date:</b> 30-10-2014	<b>GPS:</b> 51.5894, -2.8191
Type:	Tree	Tree Species	Oak
Signs of Bat Use:		Height (m)	35
Potential:	1* - High	Diameter (m)	200
Comments:		Suitable Bat Features	Natural holes; Loose bark; Dense ivy;

Photo 1





327	Date:	30-10-2014	GPS:	51.5894, -2.8191	
Tree	Tree S	Tree Species		Oak	
	Height	: (m)		40	
1* - High	Diame	ter (m)		200	
	Suitable Bat Features			Il holes; Cracks/splits in or limbs; Loose bark; Dense ivy;	
	Tree	Tree S Height  1* - High	Tree Tree Species Height (m)  1* - High Diameter (m)	Tree Tree Species  Height (m)  1* - High  Natura	

Photo 1





Reference Number:	328
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5875, -2.8171		
Tree Species			Oak		
Height	Height (m)		30		
Diameter (m)			200		
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Loose bark;		

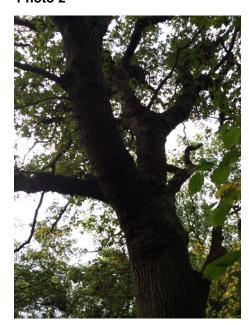
Photo 1



Photo 3



Photo 2





Reference Number:	329
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.591, -2.8172		
Tree S	pecies		Ash		
Height	(m)		35		
Diame	ter (m)		100		
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;		

Photo 1



Photo 2

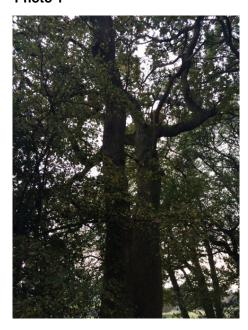




Reference Number:	330	<b>Date</b> : 30-10-2014
Type:	Tree	Tree Species
Signs of Bat Use:		Height (m)
Potential:	1* - High	Diameter (m)
Comments:		Suitable Bat Features

Date:30-10-2014GPS:51.591, -2.8169Tree SpeciesOakHeight (m)35Diameter (m)200Suitable Bat FeaturesNatural holes; Cracks/splits in major limbs; Loose bark;

### Photo 1





Reference Number:	331
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.588, -2.8176		
Tree S	pecies		Oak		
Height	(m)		30		
Diame	ter (m)		200		
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Dense ivy;		

Photo 1



Photo 2





					Welsh Government	
Reference Number:	332	Date:	30-10-2014	GPS:	51.5878, -2.8146	
Туре:	Tree	Tree S	pecies		Oak	
Signs of Bat Use:		Height (m)			25	
Potential:	1 - Medium	Diameter (m)			200	
Comments:		Suitable Bat Features			atural holes; Dense mic growth; Dense ivy;	

Photo 1



Photo 3



Photo 2





51.5878, -2.8174

Reference Number:	333
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
	1

Tree Species	Field maple
Height (m)	20
Diameter (m)	100
Suitable Bat Features	Dense ivv

GPS:

Photo 1



Photo 2

**Date:** 30-10-2014





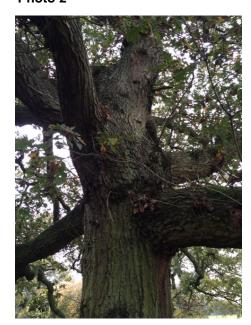
Reference Number:	334
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5896, -2.8191		
Tree S	pecies		Oak		
Height	: (m)	40			
Diameter (m)			200		
Suitable Bat Features		Natural holes; Cracks/splits in major limbs; Loose bark;			

Photo 1



Photo 2





Reference Number:	335
Туре:	Bridge
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Small brick structures in woodland with high bat potential. Internal cracks and void at rear provide potential for bats, possible for hibernation.

Date:	30-10-2014	G	PS:	51.5881, -2.8146
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Bridge Type	Brick arch
Bridge Over	other;
Carrying	
Suitable Bat Features	Internal voids;

#### Photo 1



Photo 3



Photo 2





Reference Number:	336	<b>Date</b> : 30-10-2014	<b>GPS</b> : 51.5885, -2.815
Туре:	Tree	Tree Species	Ash
Signs of Bat Use:		Height (m)	35
Potential:	1 - Medium	Diameter (m)	200
Comments:		Suitable Bat Features	Natural holes; Dense ivy;

Photo 1





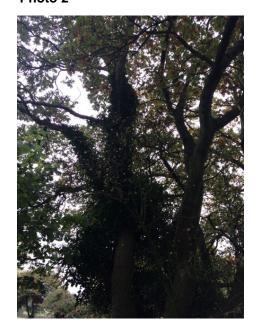
Reference Number:	337
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.588, -2.8148		
Tree Species			Oak		
Height (m)			30		
Diameter (m)			100		
Suitable Bat Features		Lo	Loose bark; Dense ivy;		

Photo 1



Photo 2





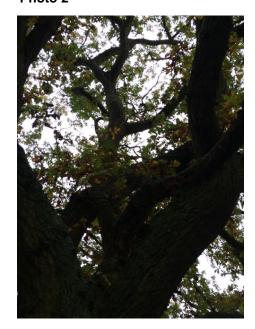
Reference Number:	338
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5892, -2.8166		
Tree Species			Oak		
Height	: (m)	25			
Diameter (m)			250		
Suitable Bat Features		Natu	Natural holes; Loose bark;		

Photo 1



Photo 2





Natural holes; Dense ivy;

Reference Number:	339
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Comments:	
Three trees all grov	wing together

Date:	30-10-2014	GPS:	51.5898, -2.819		
Tree Species			Oak		
Height (m)			35		
Diameter (m)			100		

Photo 1



Photo 3



Photo 2

Suitable Bat Features





Reference Number:	340		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1 - Medium		
Comments:			
T			

Commonto:
Two trees next to each other

Date:	30-10-2014	GPS:	51.5891, -2.8191
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Tree Species	Hazel
Height (m)	15
Diameter (m)	100
Suitable Bat Features	Dense ivy;

Photo 1



Photo 2





Reference Number:	341
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5892, -2.8186		
Tree Species			Oak		
Height	: (m)		25		
Diameter (m)			150		
Suitable Bat Features		Crack	Cracks/splits in major limbs;		

Photo 1



Photo 2





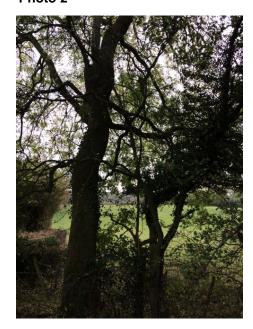
Reference Number:	342
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5891, -2.8182	
Tree S	pecies		Ash	
Height	: (m)	20		
Diameter (m)			100	
Suitable Bat Features			Dense ivy;	

Photo 1



Photo 2





51.5892, -2.8183

Reference Number:	343
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree Species	Ash
Height (m)	25
Diameter (m)	100
Suitable Bat Features	Natural holes;

GPS:

Photo 1



Photo 2

**Date**: 30-10-2014





Reference Number:	344
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

<b>Date:</b> 30-10-2014	<b>GPS</b> : 51.5899, -2.8174	
Tree Species	Ash	
Height (m)	30	
Diameter (m)	100	
Suitable Bat Features	Natural holes; Loose bark;	

Photo 1



Photo 2





Reference Number:	345
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5898, -2.817		
Tree Species			Oak		
Height	: (m)		30		
Diameter (m)			10		
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;		

Photo 1



Photo 2





Reference Number:	346
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5876, -2.8153	
Tree S	Tree Species		Oak	
Height	: (m)	25		
Diame	Diameter (m)		100	
Suitable Bat Features		Natu	Natural holes; Loose bark;	

Photo 1



Photo 2





Reference Number:	347	<b>Date:</b> 30-10-2014	GPS:	51.5904, -2.8176
Туре:	Tree	Tree Species		Ash
Signs of Bat Use:		Height (m)		20
Potential:	1 - Medium	Diameter (m)		100
Comments:		Suitable Bat Features		Natural holes;

Photo 1





Reference Number:	348
Туре:	Building
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:         30-10-2014         GPS:         51.5887, -2.815	2
---	---

Building Type	Barn
Building Age	20
Height of Eaves (m)	3
Pitch Height at Gable End	4
Roof Aspect	Ridge running north south
Roof Complexity	Single ridge
Roof Covering	Corrugated Sheets
Suitable Bat Features	

Photo 1



Photo 2





Reference Number:	349
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5892, -2.8182	
Tree Species			Oak	
Height	: (m)		30	
Diame	ter (m)		100	
Suitable Bat Features			Natural holes; Woodpecker holes; Hollows/cavities; Dense ivy;	

Photo 1



Photo 3



Photo 2





Reference Number:	350
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Multistemmed	
1	

Date:	30-10-2014	GPS:	51.5903, -2.8173	
Tree S	Tree Species		Ash	
Height	: (m)		30	
Diame	ter (m)		250	
Suitable Bat Features		Natu	Natural holes; Loose bark;	

Photo 1



Photo 2





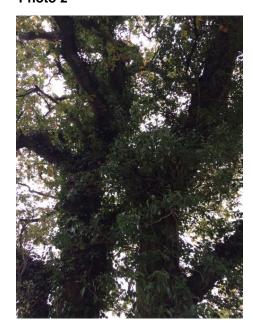
Reference Number:	351
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5891, -2.8192	
Tree S	pecies		Oak	
Height	: (m)	30		
Diame	ter (m)	200		
Suitable Bat Features		Crack	Cracks/splits in major limbs; Dense ivy;	

Photo 1



Photo 2





		2.8151
Type: Tree Species	Oak	
Signs of Bat Use: Height (m)	30	
Potential: 1 - Medium Diameter (m)	100	
Comments: Suitable Bat Feature	es Natural holes	;

### Photo 1





se bark;

Photo 1





Natural holes; Dense ivy;

Reference Number:	354
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Potential:	1* - High
Comments:	
Tree covered with ve	ery thick ivy

Date.	30-10-2014		<b>3</b> P3.	51.5895, -2.8189	
Troo S	nocios			Oak	
Tree Species			Oak		
Height (m)			30		
Diameter (m)				100	
				•	

Photo 1



Photo 3



Photo 2

Suitable Bat Features





Reference Number:	355
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5907, -2.8176		
Tree S	pecies		Ash		
Height	: (m)		30		
Diame	ter (m)	300			
Suitab	le Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities:			

Photo 1



Photo 3



Photo 2





Reference Number:	356	Date:	30-10-2014	GPS:	51.5892, -2.8185
Туре:	Tree	Tree S	pecies		Ash
Signs of Bat Use:		Height	(m)		30
Potential:	1* - High	Diameter (m)			100
Comments:		Suitable Bat Features			cs/splits in major limbs; ose bark; Dense ivy;





Reference Number:	357	<b>Date:</b> 30-10-2014	GPS:	51.5905, -2.8173
Type:	Tree	Tree Species		Ash
Signs of Bat Use:		Height (m)		30
Potential:	2 - Low	Diameter (m)		200
Comments:		Suitable Bat Features		Loose bark;
	_			
1		I		

Photo 1





Reference Number:	358
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Mature oak in ?ancient woodland (oak, hawthorn, hazel, holly, ash, birch) with high bat potential.

Date.	30-10-2014	GF3.	31.3070, -2.017	
Tree S	Tree Species Oak		Oak	
Height	(m)		30	
Diameter (m)			250	
Suitable Bat Features		Nat	ural holes; Dense ivy;	



Photo 2





Reference Number:	359
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Two trees	
1	

<b>Date:</b> 30-10-2014	<b>GPS</b> : 51.5882, -2.8147		
Tree Species	Oak		
Height (m)	25		
Diameter (m)	100		
Suitable Bat Features	Natural holes; Loose bark; Dense ivy;		

Photo 1



Photo 2





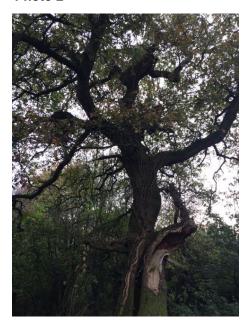
360
Tree
1 - Medium

Date:	30-10-2014	GPS:	51.5878, -2.8146	
<b>T</b> 0			0-1	
Tree Species			Oak	
Height (m)			30	
Diame	ter (m)		200	
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Loose bark;	

Photo 1



Photo 2





51.5892, -2.8181

Reference Number:	361	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1* - High	
Comments:		
Group of mature trees with bat potential		

Tree Species	Oak and ash
Height (m)	25
Diameter (m)	150
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;

GPS:

#### Photo 1



Photo 3



Photo 2

Date:





Reference Number:	362
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Multistemmed	

<b>Date:</b> 30-10-2014	<b>GPS</b> : 51.591, -2.8174
Tree Species	Ash
Height (m)	35
Diameter (m)	300
Suitable Bat Features	Natural holes; Loose bark;

Photo 1



Photo 2





Reference Number:	363
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
Split / hole, - 1m high	up trunk

Date:	31-10-2014	GPS:	51.5738, -2.8445
Tree S	pecies		Willow
Height	(m)	7	
Diame	ter (m)	0.5	
Suitab	le Bat Features	Natural holes; Cracks/splits in major limbs;	

#### Photo 1



Photo 2





51.5905, -2.8149

Reference Number:	364
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1 - Medium
Comments:	
Coppiced	

Tree Species	Field maple
Height (m)	24
Diameter (m)	200
Suitable Bat Features	Natural holes;

GPS:

Photo 1



Photo 2

Date:



Photo 3





Reference Number:	365
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

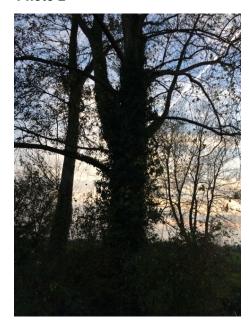
Date:	30-10-2014		GPS:	51.5712, -2.8454
	-	•		

Tree Species	Hybrid black poplar		
Height (m)	35		
Diameter (m)	1.5		
Suitable Bat Features	Woodpecker holes; Loose bark; Dense ivy;		

Photo 1



Photo 2





Reference Number:	366
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Northernmost hybrid black poplar and ivy at edge of small wooded area and adjacent to 2 reens 675. & 874.

Date:	29-10-2014	GPS:	51.5738, -2.8497
	-		

Tree Species	Hybrid black poplar		
Height (m)	35		
Diameter (m)	30		
Suitable Bat Features	Dense ivy;		





51.5896, -2.8154

Reference Number:	367			
Туре:	Tree			
Signs of Bat Use:				
Potential:	1 - Medium			
Comments:				
Ash that has been coppiced from the base				

•	
Tree Species	Ash
Height (m)	
Diameter (m)	
Suitable Bat Features	Natural holes; Woodpecker holes; Loose bark; Hollows/cavities:

GPS:

Photo 1



Photo 2

Date:



Photo 3



Photo 4





51.5747, -2.8448

Reference Number:	368
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Small hole, not particularly large tree

Tree Species	White Willow		
Height (m)	6		
Diameter (m)	0.3		
Suitable Bat Features	Natural holes;		

GPS:

#### Photo 1



Photo 2

Date:





51.571, -2.8454

Reference Number:	369
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Hybrid black poplar		
Height (m)	30		
Diameter (m)	1		
Suitable Bat Features	Loose bark; Hollows/cavities;		

GPS:

Photo 1



Photo 2

Date:





Reference Number:	370
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date.	30-10-2014	J L	OI	31.3736, -2.0433
Tree Species				White willow

Tree Species	White willow
Height (m)	40
Diameter (m)	1
Suitable Bat Features	Dense ivy;

Photo 1



Photo 2





Reference Number:	371	<b>Date:</b> 30-10-2014	GPS:	51.572, -2.8454
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		25
Potential:	2 - Low	Diameter (m)		1
Comments:		Suitable Bat Features		Dense ivy;
			-	

Photo 1





51.5712, -2.8452

Reference Number:	372
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

All similar trees in this tree line (4) have potential voids at the apex of an area of split bark.

Tree Species	Hybrid black poplar
Height (m)	30
Diameter (m)	90
Suitable Bat Features	Loose bark;

GPS:

Date:

30-10-2014





Reference Number:	373	<b>Date:</b> 30-10-2014	<b>GPS:</b> 51.5736, -2.8457
Туре:	Tree	Tree Species	White willow
Signs of Bat Use:		Height (m)	50
Potential:	2 - Low	Diameter (m)	1
Comments:		Suitable Bat Features	Natural holes; Dense ivy;

Photo 1





Reference Number:	374
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Ash tree nearest existing hedge line, likely to have been within a hedge line itself as it has been coppiced at base, hence large girth size.

	Date:	31-10-2014	GPS:	51.5895, -2.8155
•	Tree S	pecies		Ash

Tree Species	Ash
Height (m)	25
Diameter (m)	200
Suitable Bat Features	Natural holes; Hollows/cavities; Dense ivy;

Photo 1



Photo 2



Photo 3



Photo 4





Reference Number:	375
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date.	30-10-2014	GFS.	51.5879, -2.8176
Tree S	pecies		Field maple

Height (m) 20

Diameter (m) 100

Suitable Bat Features Natural holes; Dense ivy;

Photo 1

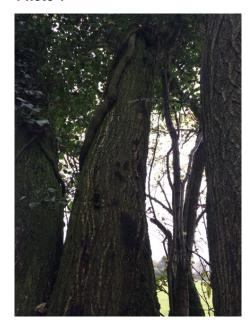


Photo 2





51.5718, -2.8435

Reference Number:	376
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Grid reference is further east than location as is in dense scrub.	

·	
Tree Species	Crack willow
Height (m)	25
Diameter (m)	35
Suitable Bat Features	Cracks/splits in major limbs;

GPS:

Date:



Reference Number:	377
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Large tree within wet woodland and adjacent to good quality foraging habitat.

Tree Species	Crack willow			
Height (m)	30			
Diameter (m)	90			
Suitable Bat Features	Cracks/splits in major limbs;			



Photo 2





Reference Number:	378
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

On west side of woodland is a crack willow (loose ivy cover) with major splits, but these being near ground level. Adjacent habitats are good ti excellent fir bat foraging.

Tree Species	Crack willow		
Height (m)	28		
Diameter (m)	200		
Suitable Bat Features	Cracks/splits in major limbs;		



Photo 2



Photo 3





Reference Number:	379	Date:	31-10-2014	G	PS:	51.5907, -2.8153
Tymas	<b>T</b>				0-1	and described
Type:	Tree	Tree S	Tree Species			and dying haethorn
Signs of Bat Use:		Height	(m)			
Potential:	1* - High	Diameter (m)				
Comments:		Suitab	le Bat Features	;	Hollov	vs/cavities; Dense ivy;
Two tree oakwith ivy	and hawthorn hollow trunk					



Reference Number:	380
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	31-10-2014	GPS:	51.5898, -2.8159
	-		

Tree Species	Pedunculate oak		
Height (m)	27		
Diameter (m)	100		
Suitable Bat Features	Natural holes; Dense ivy;		

Photo 1



Photo 2



Photo 3





Reference Number:	381
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree situated due south of path over ditch with open trunk and various cavities from branch fall, many many voids.

<b>Date:</b> 30-10-2014 <b>GPS:</b> 51.5714, -2.843	3
---	---

Tree Species	Crack willow	
Height (m)	27	
Diameter (m)	1.5	
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;	

Photo 1



Photo 2



Photo 3





Reference Number:	382
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1 - Medium
Comments:	

Coppiced ash in hedgerow, with hole in branch and split in trunk.

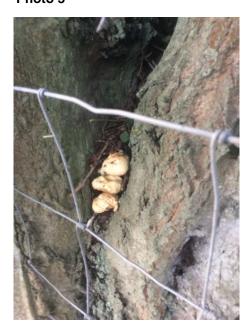
Date:	31-10-2014	GPS:	51.5919, -2.8138		
Tree S	pecies		Ash		
Height	: (m)		27		
Diame	ter (m)		200		
Suitab	le Bat Features		Il holes; Cracks/splits in		



Photo 2



Photo 3





51.5715, -2.8416

Reference Number:	383
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Split in limb that has been sawn off.

<u> </u>			
Tree Species	Crack willow		
Height (m)	20		
Diameter (m)	90		
Suitable Bat Features	Cracks/splits in major limbs;		

GPS:

#### Photo 1



#### Photo 2

Date:





Reference Number:	384
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Crack willow within woodland block, accessible under.

	Date:	30-10-2014	GPS:	51.5713, -2.8433
-				

Tree Species	Crack willow
Height (m)	11
Diameter (m)	1.7
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;



Photo 3



Photo 2





Reference Number:	385	Date:	30-10-2014	GPS:	51.5722, -2.8445
Type:	Tree	Tree Species			Crack willow
Signs of Bat Use:		Height (m)			26
Potential:	2 - Low	Diameter (m)			40
Comments:		Suitak	ole Bat Features		
	willow due east of an oak. he most ivy cover and				

#### Photo 1

potential.





Reference Number:	386
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Tree Species	Oak
Height (m)	6
Diameter (m)	1
Suitable Bat Features	Dense ivv:

 Date:
 31-10-2014

 GPS:
 51.5907, -2.8151

Photo 1



Photo 2





Reference Number:	387	<b>Date:</b> 30-10-2014	<b>GPS:</b> 51.5712, -2.8433
Туре:	Tree	Tree Species	Crack willow
Signs of Bat Use:		Height (m)	30
Potential:	2 - Low	Diameter (m)	100
Comments:		Suitable Bat Features	Dense ivy;

Photo 1





Reference Number:	388		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1 - Medium		
Comments:			
Two trees			

	Date:	30-10-2014		GPS:	51.5929, -2.8182
--	-------	------------	--	------	------------------

Tree Species	Birch
Height (m)	20
Diameter (m)	150
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;

Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	389	<b>Date</b> : 30-10-2014	<b>GPS:</b> 51.589, -2.8169	
Туре:	Tree	Tree Species	Oak	
Signs of Bat Use:		Height (m)	25	
Potential:	1 - Medium	Diameter (m)	150	
Comments:		Suitable Bat Features	Natural holes; Dense ivy;	

Photo 1





Reference Number:	390	Date:	30-10-2014	GPS:	51.5883, -2.8158	
Type:	Tree	Tree S	Tree Species		Oak	
Signs of Bat Use:		Height (m)			20	
Potential:	1* - High	Diameter (m)			100	
Comments:		Suitable Bat Features		Nati	Natural holes; Dense ivy;	
Many similar oaks in	woodland adjacent			•		





Reference Number:	391
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5893, -2.8174		
Tree Species		Oak			
Height	(m)	1) 2			
Diameter (m)			100		
Suitable Bat Features		Natural holes;			

Photo 1

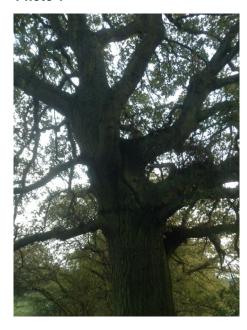
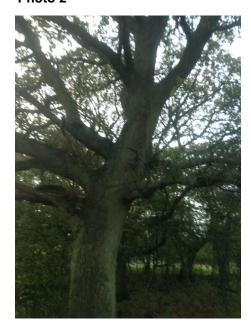


Photo 2





51.5915, -2.8172

Reference Number:	392
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	
Two holes in each tre	е

Tree Species	Ash x2
Height (m)	10
Diameter (m)	0.5
Suitable Bat Features	Woodpecker holes;

GPS:

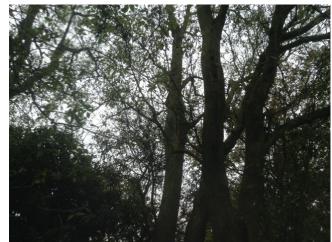
#### Photo 1



#### Photo 2

Date:

30-10-2014





Reference Number:	393	<b>Date:</b> 30-10-2014	GPS:	51.5924, -2.8172	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		15	
Potential:	1 - Medium	Diameter (m)		1	
Comments:		Suitable Bat Features		Dense ivy;	

Photo 1





Reference Number:	394
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5907, -2.8173			
Tree Species			Oak			
Height (m)			20			
Diameter (m)			1			
Suitable Bat Features		Natura	Natural holes; Cracks/splits in major limbs;			

Photo 1



Photo 2





395
Tree
1 - Medium

Date:	30-10-2014	GPS:	51.5889, -2.8169			
Tree Species		Oak				
Height (m)			20			
Diameter (m)			100			
Suitable Bat Features		Natural holes; Dense ivy;				

Photo 1



Photo 3



Photo 2



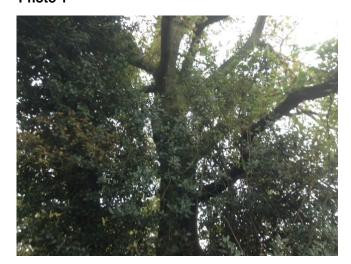


396	Date:	30-10-2014	GPS:	51.5925, -2.8184		
Tree	Tree S	pecies		Oak		
	Height	Height (m)		20		
1 - Medium	Diame	ter (m)		100		
	Suitable Bat Features		Natu	Natural holes; Dense ivy;		
			<b>.</b>			
	Tree	Tree S Height  1 - Medium  Diamer	Tree Tree Species Height (m)  1 - Medium  Diameter (m)	Tree Species Height (m)  1 - Medium  Diameter (m)		



397	<b>Date:</b>   30-10-2014	GPS:	51.5924, -2.8162	
Tree	Tree Species		Oak	
	Height (m)		15	
1 - Medium	Diameter (m)		1	
	Suitable Bat Features		Dense ivy;	
		Tree Species Height (m)  1 - Medium  Diameter (m)	Tree Species Height (m) Diameter (m)	

Photo 1





Reference Number:	398
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5908, -2.817		
Tree S	pecies		Ash/birch		
Height	Height (m)		20		
Diame	ter (m)	1			
Suitab	le Bat Features	Natura	al holes; Cracks/splits in major limbs;		

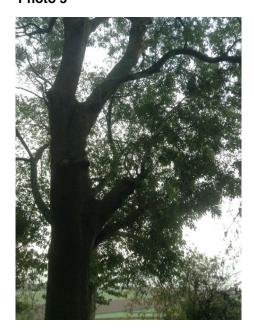
Photo 1



Photo 2



Photo 3





51.5926, -2.817

Reference Number:	399
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

	•
Tree Species	Oak
Height (m)	8
Diameter (m)	1
Suitable Bat Features	Natural holes;

GPS:

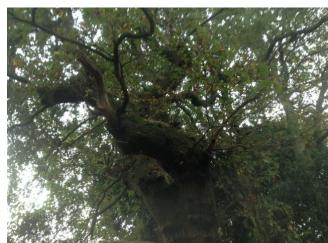
Photo 1



Photo 2

Date:

30-10-2014





Reference Number:	400	Date:	30-10-2014	GPS:	51.5915, -2.817	
Туре:	Tree	Tree S	pecies		Oak	
Signs of Bat Use:		Height (m)			5	
Potential:	1 - Medium	Diameter (m)			0.5	
Comments:		Suitable Bat Features		Crack	s/splits in major limbs; Dense ivy;	
				•		





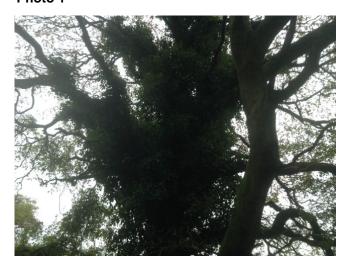
Reference Number:	401	<b>Date:</b> 30-10-2014	GPS:	51.5886, -2.8163	
Туре:	Tree	Tree Species		Oak	
Signs of Bat Use:		Height (m)		20	
Potential:	1 - Medium	Diameter (m)		100	
Comments:		Suitable Bat Features		Dense ivy;	
			-		

Photo 1



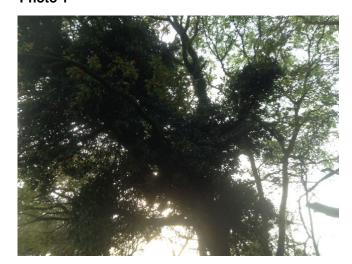


Reference Number:	402	Date:	30-10-2014	GPS:	51.5913, -2.8168
Туре:	Tree	Tree	Species		P.oak
Signs of Bat Use:		Heigh	nt (m)		
Potential:	1* - High	Diam	eter (m)		
Comments:		Suita	ble Bat Features	Crack	s/splits in major limb Dense ivy;





Reference Number:	403	<b>Date</b> : 30-10-2014	<b>GPS:</b> 51.5922, -2.8175
Туре:	Tree	Tree Species	Oak
Signs of Bat Use:		Height (m)	10
Potential:	1 - Medium	Diameter (m)	1
Comments:		Suitable Bat Features	Dense ivy;
		$\neg$	





Reference Number:	404	<b>Date</b> : 30-10-2014	GPS:	51.5893, -2.8175
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		20
Potential:	1 - Medium	Diameter (m)		150
Comments:		Suitable Bat Features		Natural holes;

Photo 1





Reference Number:	405
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	30-10-2014	GPS:	51.5913, -2.8173	
Tree Species		Oak x2		
Height	: (m)	15		
Diameter (m)		0.6		
Suitable Bat Features		Natural holes; Woodpeck		

Photo 1

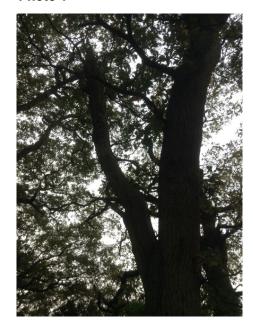
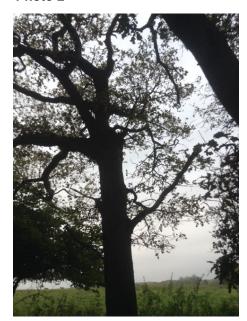


Photo 2





Reference Number:	406	Date:	30-10-2014	GPS:	51.5894, -2.8175
Туре:	Tree	Tree Species			Oak
Signs of Bat Use:		Height (m)			20
Potential:	1 - Medium	Diame	ter (m)		100
Comments:		Suitable Bat Features			al holes; Cracks/splits in or limbs; Loose bark;
				•	





Reference Number:	407
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	30-10-2014	GPS:	51.5896, -2.8187		
Tree S	pecies		Oak		
Height	(m)		8		
Diameter (m)			0.5		
Suitable Bat Features			Natural holes;		



Photo 2





Reference Number:	408
Type:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Date:	30-10-2014	GPS:	51.5885, -2.8162		
Tree S	pecies		Oak		
Height	(m)		30		
Diameter (m)			150		
Suitable Bat Features		Natural holes; Dense ivy;			

Photo 1



Photo 2





51.5455, -3.0725

Reference Number:	409
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

	-	
Tree Species	Oak	
Height (m)	20	
Diameter (m)	1	
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark;	

GPS:

Photo 1

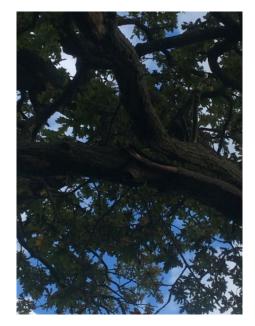


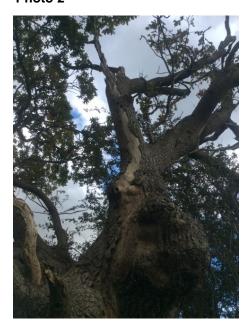
Photo 3



Photo 2

Date:

10-10-2014





51.5452, -3.0723

major limbs;

Reference Number:	410
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Oak
Height (m)	30
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in

GPS:

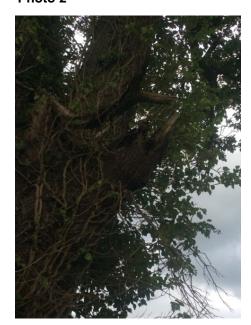
Photo 1



Photo 2

Date:

10-10-2014





Reference Number:	411
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	
1	

<b>Date:</b> 16-10-2014 <b>GPS:</b> 51.5541, -3.0872
--

Tree Species	Beech
Height (m)	21.4
Diameter (m)	1.5
Suitable Bat Features	Loose bark; Hollows/cavities;

Photo 1

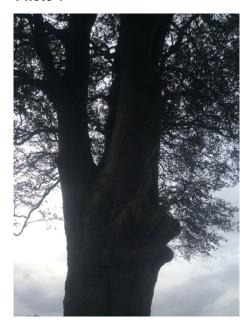
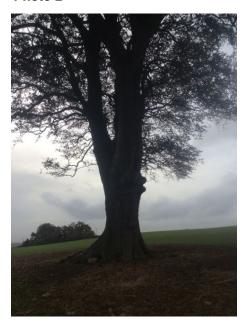


Photo 2





Reference Number:	412
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

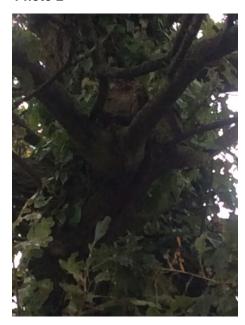
Date:	15-10-2014	GPS:	51.5459, -3.0088
	-		

Tree Species	Pedunculate oak
Height (m)	15
Diameter (m)	80
Suitable Bat Features	Cracks/splits in major limbs;

Photo 1



Photo 2





Reference Number:	413	<b>Date</b> : 10-10-2014	GPS:	51.545, -3.0721
Туре:	Tree	Tree Species		Oak
Signs of Bat Use:		Height (m)		25
Potential:	2 - Low	Diameter (m)		1
Comments:		Suitable Bat Features		Natural holes;

Photo 1





51.5479, -3.0053

Reference Number:	414
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

	-
Tree Species	Pedunculate oak
Height (m)	8
Diameter (m)	65
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

GPS:

Photo 1



Photo 2

Date:

15-10-2014





Reference Number:	415
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Multi stemmed tree. Two small holes facing east in trunk nearest ditch.

<b>Date:</b> 24-10-2014	GPS:	51.562, -2.9046
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Tree Species	Hawthorn
Height (m)	18
Diameter (m)	50
Suitable Bat Features	Natural holes;



Photo 2





Reference Number:	416
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Largest semi-mature horse chestnut with few cavities where branches have fallen. May have other features, only viewed from north.

Tree Species	Horse chestnut
Height (m)	27
Diameter (m)	100
Suitable Bat Features	Natural holes; Loose bark; Dense ivy;

#### Photo 1







Reference Number:	417
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Large multi-stemmed crack willow, with some snagged branches.

<b>Date:</b> 24-10-2014 <b>GPS:</b> 51.564, -2.929
--

Tree Species	Crack willow
Height (m)	20
Diameter (m)	105
Suitable Bat Features	Natural holes; Hollows/cavities;



Photo 2



Photo 3





Reference Number:	418
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

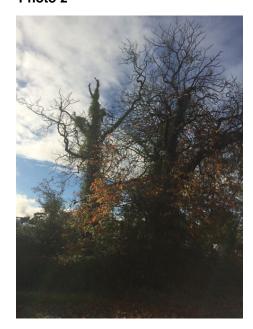
Ivy may obscure other features on tree with a stag headed trunk. Only viewed from one side.

<b>Date:</b> 24-10-2014	GPS:	51.5607, -2.9073
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Tree Species	Horse chestnut
Height (m)	21
Diameter (m)	80
Suitable Bat Features	Dense ivy;



Photo 2





Dense ivy;

Reference Number:	419		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

May be other features on north side, only viewed from south.

Date:	24-10-2014	GPS:	51.5621, -2.9047
Tree S	pecies		Ash
Height	: (m)		18
Diame	ter (m)		55

#### Photo 1



Photo 2

Suitable Bat Features





Reference Number:	420
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Single feature where branch has fallen, hard to tell if void present.

Date:	24-10-2014	GPS:	51.561, -2.9056

Tree Species	English Oak
Height (m)	21
Diameter (m)	50
Suitable Bat Features	Natural holes;



Photo 2





Reference Number:	421
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Large semi- mature tree may have more opps, viewed from one side.

Date:	24-10-2014	GPS:	51.5596, -2.9057		
Tree Species		Ash			
Height (m)			32		
Diameter (m)			100		
Suitable Bat Features		V	Woodpecker holes;		



Photo 2





Reference Number:	422		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

Two small holes where branch has fallen from.

Date:	24-10-2014	ľ	GPS:	51.5611, -2.9031
Tree Species			Ash	
Height (m)			23	

Diameter (m) 55

Suitable Bat Features Natural holes;

#### Photo 1







Reference Number:	423		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1 - Medium		
Comments:			

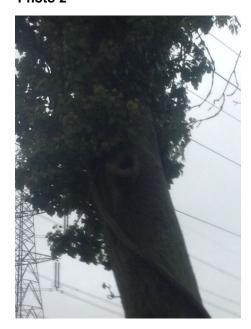
3 natural holes, some dense ivy, no signs of use. Medium to low potential

Date:	24-10-2014	GPS:	51.5641, -2.9289

Tree Species	Ash		
Height (m)	2100		
Diameter (m)	50		
Suitable Bat Features	Natural holes; Loose bark; Dense ivy;		



Photo 2





Reference Number:	424	Date: 24-10-2014	<b>GPS:</b> 51.5621, -2.9052	
Type:	Tree	Tree Species	Hawthorn	
Signs of Bat Use:		Height (m)	12	
Potential: 2 - Low		Diameter (m)	40	
Comments:		Suitable Bat Features	Dense ivy;	

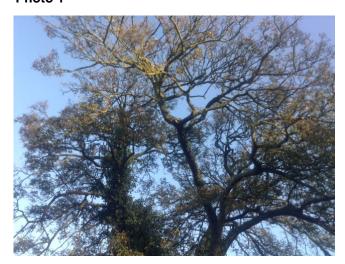
Photo 1





Reference Number:	425	Date: 24-10-2014	<b>GPS:</b> 51.56, -2.9052
Туре:	Tree	Tree Species	Field maple
Signs of Bat Use:		Height (m)	27
Potential:	2 - Low	Diameter (m)	100
Comments:		Suitable Bat Features	Natural holes; Dense ivy;

Photo 1





Reference Number:	426			
Type:	Tree			
Signs of Bat Use:				
Potential:	2 - Low			
Comments:				
Dense ivy around trunk				
ĺ				

Date:	24-10-2014	GPS:	51.5621, -2.9052		
Tree Species			Ash		
Height (m)			30		
Diameter (m)			70		
Suitable Bat Features			Dense ivy;		

Photo 1



Photo 2





Reference Number:	427
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	24-10-2014	GPS:	51.5622, -2.9052		
Tree Species			Ash		
Height (m)			30		
Diameter (m)			50		
Suitable Bat Features			Dense ivy;		

Photo 1



Photo 2





Reference Number:	428		
Туре:	Tree		
Signs of Bat Use:			
Potential:	1 - Medium		
Comments:			

Hole where branch has fallen from around head height and facing track. Hole appears to continue with further void into trunk but needs checking. Medium to low value.

Date:	23-10-2014	GPS:	51.5615, -2.928		
Tree Species			Ash		
Height (m)			13		
Diameter (m)			25		
Suitable Bat Features			Natural holes;		



Reference Number:	429		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

Grey willow tree with lower areas rotting and with splits and cavities. Situated in hedge adjacent to dumped telegraph poles.

Tree Species	Grey willow		
Height (m)	17		
Diameter (m)	35		
Suitable Bat Features	Cracks/splits in major limbs; Loose bark; Hollows/cavities;		



Photo 2





Reference Number:	430	Date: 23-10-201	4	GPS:	51.5619, -2.9279
Type:	Tree	Tree Species			Grey willow
Signs of Bat Use:	1100	Height (m)		15	
Potential:	2 - Low	Diameter (m)			25
Comments:		Suitable Bat Featu	res		Dense ivy;
	n yesterday, so could be adjacent to pile of breeze		•		





Reference Number:	431	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		

Trunk of crack willow within a group of several crack willow trees. The trunk has a split, just above where another tree has fallen against it.

Tree Species	Crack willow	
Height (m)	27	
Diameter (m)	25	
Suitable Bat Features	Cracks/splits in major limbs;	

### Photo 1







Reference Number:	432	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
2 trees very close together with linked ivy growth.		

Date:	23-10-2014	GPS:	51.5614, -2.928	
Tree Species			Hawthorn	
Height	(m)		11	
Diameter (m)			25	
Suitab	le Bat Features		Dense ivy;	



Reference Number:	433		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

Small holes where part of upright branch has lost a branch. One pointing south has a potential void.

<b>Date:</b> 23-10-2014 <b>GPS:</b> 51.56	642, -2.9333
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Tree Species	Crack willow	
Height (m)	20	
Diameter (m)	90	
Suitable Bat Features	Natural holes;	



Photo 2





Reference Number:	434
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

May be medium to low potential holes may be too exposed and let in elements.

Date:	23-10-2014	GI	PS:	51.5646, -2.9333
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Tree Species	Crack willow	
Height (m)	17	
Diameter (m)	90	
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;	



Photo 2



Photo 3



Photo 4





Reference Number:	435		
Туре:	Tree		
Signs of Bat Use:			
Potential:	2 - Low		
Comments:			

Two hawthorn trees close together either side of an unvegetated spoil mound in edge of hedge.

<b>Date:</b> 23-10-2014 <b>GPS:</b>	51.5617, -2.9279
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Tree Species	Hawthorn
Height (m)	12
Diameter (m)	15
Suitable Bat Features	Dense ivy;



Photo 2



Photo 3





Reference Number:	436
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Northernmost branch has fallen and is split, some cobwebs in void entrances, but some clear. Csn be viewed fairly easily as voids are at head height.

<b>Date:</b> 23-10-2014	GPS:	51.5636, -2.9299
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Tree Species	Crack willow
Height (m)	17
Diameter (m)	45
Suitable Bat Features	Cracks/splits in major limbs;



Photo 2



Photo 3





Reference Number:	437
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree some distance from grid reference and due north of path - is inaccessible on either side due to dense scrub. Set back from pathway. Appears to be semi-mature with ivy growth. May have other suitable features.

Tree Species	Crack willow
Height (m)	20
Diameter (m)	70
Suitable Bat Features	Dense ivy;



Photo 2





Reference Number:	438
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Tree with suitable voids to be used as a bat roosting feature. Near pathway.

Date:	21-10-2014	GP	S:	51.566, -2.909
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Tree Species	Crack willow
Height (m)	19
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 2



Photo 3





51.5653, -2.9109

Reference Number:	439	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		
Potential for temporary bat roost.		

Tree Species	Silver birch
Height (m)	16
Diameter (m)	30
Suitable Bat Features	Dense ivy;

GPS:

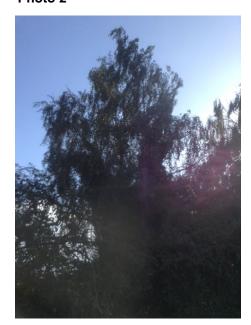
### Photo 1



Photo 2

Date:

21-10-2014





30

Dense ivy;

Reference Number:	440
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Semi-mature ash tree due west of reen and north of poplar plantation. Appears to have potential to support features used by bats, but was inaccessible on day of survey due to high winds.

Date:	21-10-2014	GPS:	51.5663, -2.9118		
Tree S	pecies		Ash with ivy		
Height	: (m)		22		

#### Photo 1



### Photo 2

Diameter (m)

Suitable Bat Features





Reference Number:	441
Туре:	Bridge
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

From eastern side appears to be a low, but intact bridge. Would need mirrors on sticks to look under structure as is in an area with deep water gtr 1m depth. Needs further investigation. Also is adjacent to traveller encampment.

<b>Date:</b> 21-10-2014	GPS:	51.5666, -2.912
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	<del>-</del>
Bridge Type	Brick arch
Bridge Over	Water;
Carrying	Path;
Suitable Bat Features	

#### Photo 1







Reference Number:	442	Date:	21-10-2014	GPS:	51.5646, -2.9105
Туре:					
Signs of Bat Use:					
Potential:	1 - Medium				
Comments:					
site. Large tall tree w obscure further featu	building within National Grid ith dense ivy cover which may res. within a line/group of itch and the western boundary site.				





Reference Number:	443
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree adjacent to western boundary of National Grid site and north of ditch. Ivy may obscure other features.ngr to west of actual location.

Date.	21-10-2014	GPS.	51.5645, -2.9104	
Tree S	pecies		Alder	
Height	(m)		15	
Diame	ter (m)		25	
Suitab	le Bat Features		Dense ivy;	





Reference Number:	446
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

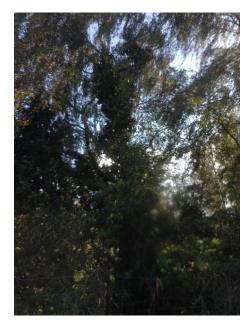
Possible bat use, adjacent to wet ditch/reen. Potential temporary roost.

<b>Date:</b> 21-10-2014	GPS:	51.5652, -2.911
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Tree Species	Silver birch
Height (m)	16
Diameter (m)	30
Suitable Bat Features	Dense ivy;



Photo 2





Reference Number:	447	Date
Type:	Tree	Tree
Signs of Bat Use:		Hei
Potential:	1 - Medium	Dia
Comments:		Suit
Ash tree with split trur	nk and branches. Moderate to	

Date:	22-10-2014	GPS:	51.5645, -2.9065	
Tree Species			Ash	
Height	leight (m) 20		20	
Diameter (m)			30	
Suitable Bat Features			Natural holes; Cracks/splits in major limbs; Loose bark;	



Reference Number:	448	Date
Type:	Tree	Tre
Signs of Bat Use:		Hei
Potential:	2 - Low	Dia
Comments:		Suit

Multistemmed tree, one branch with large split and some ivy cover . Note: bees nest here too they were defending the nest.

Date:	22-10-2014	GPS:	51.5614, -2.9268
	-		-

Tree Species	Crack willow	
Height (m)	22	
Diameter (m)	30	
Suitable Bat Features	Cracks/splits in major limbs;	





Reference Number:	449	
Туре:	Tree	
Signs of Bat Use:		
Potential:	2 - Low	
Comments:		

Tree is within group of semi-mature hybrid black poplars at field corner. This is 3rd from east with ivy cover over whole of trunk. The other trees may have low value within ivy cover.

Tree Species	Hybrid black poplar	
Height (m)	30	
Diameter (m)	40	
Suitable Bat Features	Dense ivy;	

#### Photo 1







Reference Number:	450
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Potential for complex base to be used by otter, multistemmed. Possibly of veteran status.

<b>Date:</b> 22-10-2014 <b>GP</b>	<b>S:</b> 51.5635, -2.9089
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Tree Species	Crack willow	
Height (m)	27	
Diameter (m)	1	
Suitable Bat Features	Dense ivy;	

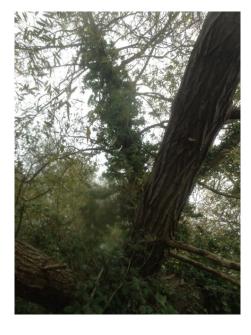


Photo 2





Reference Number:	451	<b>Date</b> : 22-10-2014	<b>GPS:</b> 51.5635, -2.9089
Туре:	Tree	Tree Species	Crack willow and ivy
Signs of Bat Use:		Height (m)	20
Potential:	2 - Low	Diameter (m)	30
Comments:		Suitable Bat Features	Dense ivy;

Photo 1





40

Reference Number:	452
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree with fungal disease near base and ivy cover. Thought to be low potential within dense- area of ivy cover. View obscured from northern side of ditch. Can access behind adjacent to National Grid Boundary.

Date:	22-10-2014	GPS:	51.5654, -2.9068	
Tree S	pecies		Alder and ivy	
Height	: (m)		24	

### Suitable Bat Features Dense ivy;

Diameter (m)





Reference Number:	453	<b>Date:</b> 22-10-2014	<b>GPS:</b> 51.5625, -2.9268
Type:	Tree	Tree Species	Hawthorn and ivy
Signs of Bat Use:		Height (m)	15
Potential:	2 - Low	Diameter (m)	25
Comments:		Suitable Bat Features	Dense ivy;
Grid ref from other side	e of ditch.		





51.5641, -2.9068

Reference Number:	454	Date:	22-10-2014
Type:	Tree	Tree S	pecies
Signs of Bat Use:		Height	: (m)
Potential:	2 - Low	Diame	ter (m)
Comments:		Suitab	le Bat Features

Tree outside boundary at SE corner of National Grid site. Hawthorn and elm adjacent to base.

	<del></del>
Tree Species	Weeping willow
Height (m) 27	
Diameter (m)	40
Suitable Bat Features	Dense ivy;

GPS:





Reference Number:	455
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Large tree situated adjacent to southern boundary of National Grid site. May be other bat features but viewed from other side of ditch, so cant see.

Tree Species	Weeping willow	
Height (m)	27	
Diameter (m)	40	
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;	

### Photo 1







Reference Number:	456
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Opening facing south in westernmost trunk of multi-stemmed tree. High potential as hole cavity appears to go up into trunk with clear opening out onto wetland landscape. Has potential to be used by bats or by owl species.

<b>Date</b> : 21-10-2014 <b>GPS</b> :	51.5639, -2.9102
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Tree Species Walnut	
Height (m)	17
Diameter (m)	90
Suitable Bat Features	Natural holes; Hollows/cavities;



Reference Number:	458
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Large semi-mature horse chestnut tree adjacent to reen. Main trunk has hole from loosing prior limb. Feature is Too high to check inside from ground. First tree in the row next ti path and rubbish burning area. Ngr from a distance away due to fencing.

<b>Date:</b> 21-10-2014 <b>GPS:</b> 51.5666, -2.9
---

Tree Species	Horse chestnut	
Height (m)	27	
Diameter (m)	70	
Suitable Bat Features	Natural holes; Hollows/cavities;	



Photo 2





Reference Number:	459
Type:	Tree
Signs of Bat Use:	
Potential:	3 - None
Comments:	

Group of poplars forming wooded plantation belt, adjacent to reen, of low -no use to bats other than foraging. Not able to be surveyed separately due to adverse weather conditions (safety issue).

Date:	21-10-2014	GPS:	51.5652, -2.9111
	-		

Tree Species	Poplar var.			
Height (m)	25			
Diameter (m)	65			
Suitable Bat Features				





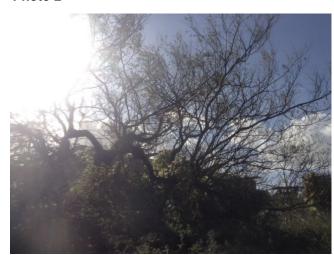
Reference Number:	460
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Minor split to rear (south) of trunk. Tree on far side of ditch. Thought to have no value but then split at rear observed, so now low value.

Tree Species	Crack willow
Height (m)	15
Diameter (m)	70
Suitable Bat Features	Loose bark; Hollows/cavities;



Photo 2





Reference Number:	461
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Bat roost potential several features, split bark in trunk.within a line/group of trees that flank the ditch and the western boundary of the National Grid site.

Date:	21-10-2014	GPS:	51.5648, -2.9105

Tree Species	Crack willow
Height (m)	20
Diameter (m)	30
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

### Photo 1







Reference Number:	462	Date:	21-10-2014	GPS:	51.5645, -2.9104	
Type:	Tree	Tree S	pecies	Hawtl	norn and alder complex	
Signs of Bat Use:		Height	Height (m)		17	
Potential:	2 - Low	Diameter (m)			25	
Comments:		Suitable Bat Features		;	Dense ivy;	
	ring 4 trees of hawthorn and orner of building within					





Reference Number:	463
Туре:	Tree
Signs of Bat Use:	Staining;
Potential:	1 - Medium
Comments:	

Potential:	1 - Medium
Comments:	
Staining on top fork of	of tree.

|--|

Tree Species	White willow
Height (m)	20
Diameter (m)	0.5
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

Photo 1



Photo 3



Photo 2





Reference Number:	465	Date:	17-09-2014	GPS:	51.5682, -2.9344
Туре:	Tree	Tree S	pecies		Oak
Signs of Bat Use:		Heigh	t (m)		30
Potential:	1 - Medium	Diame	ter (m)		3
Comments:		Suitab	le Bat Features	maj	Il holes; Cracks/splits in or limbs; Loose bark; Hollows/cavities;

Photo 1





51.5532, -3.0126

Reference Number:	466
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Adjacent to reen, adjacent to woodland.

	-
Tree Species	Ash
Height (m)	15
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities; Dense ivy;

GPS:

Photo 1



Photo 3



Photo 2

**Date**: 16-09-2014



Photo 4





Reference Number:	467
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Mature ash tree with ivy and hawthorn growing adjacent.

<b>Date:</b> 16-09-2014	GPS:	51.5528, -3.0117
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Tree Species	Ash, ivy and hawthorn.
Height (m)	12
Diameter (m)	1
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities; Dense ivy;

#### Photo 1



Photo 3



Photo 2





Reference Number:	468
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

2 Trees noted here, adjacent to each other. 1. Loose bark, hollows/cavities 2. Crack in trunk

Tree Species	Willow sp.
Height (m)	25
Diameter (m)	35
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

#### Photo 1



Photo 3

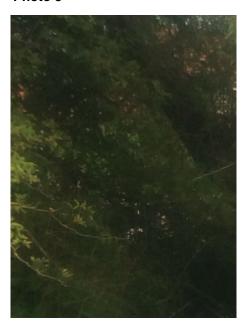
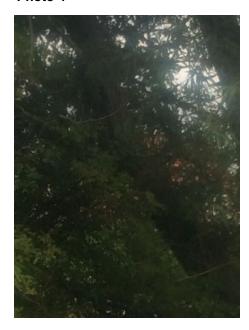


Photo 2



Photo 4





Reference Number:	469
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

<b>Date</b> : 28-08-2014	<b>GPS</b> : 51.5735, -2.9366
Tree Species	Willow sp.
Height (m)	25
Diameter (m)	40
Suitable Bat Features	Natural holes:

Photo 1



Photo 2





Reference Number:	470
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	29-08-2014	GPS:	51.544, -3.0476

Tree Species	Dead tree unknown
Height (m)	10
Diameter (m)	2
Suitable Bat Features	Natural holes;

Photo 1



Photo 2





Reference Number:	471	
Type:	Building	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		
Could be suitable for barn owl		

Date:	14-08-2014	GPS:	51.5201, -2.4425
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Building Type	House	
Building Age	200	
Height of Eaves (m)	4	
Pitch Height at Gable End	8	
Roof Aspect	All compass points	
Roof Complexity	Complex	
Roof Covering	Tiles	
Suitable Bat Features	Gaps at Gable Ends; Loose Tiles/slates; Cracks in brickwork;	

Photo 1 Photo 2







Reference Number:	472	
Туре:	Bridge	
Signs of Bat Use:		
Potential:	3 - None	
Comments:		
Large cracks in parapet but unsauitanle for bats. Span intact with no gaps.		

Date:	14-08-2014	GPS:	51.5201, -2.4425	
Bridge Type			Brick arch	
Bridge Over			Road;	
Carrying			Rail;	
Suitable Bat Features				

#### Photo 1



#### Photo 2





51.5198, -2.4439

Reference Number:	473
Туре:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Oak		
Height (m)	15		
Diameter (m)	175		
Suitable Bat Features	Natural holes; Woodpecker holes; Loose bark;		

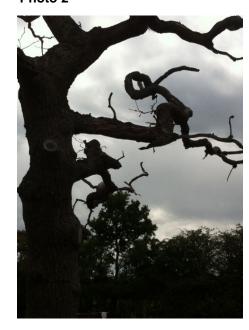
GPS:

Photo 1



Photo 2

**Date:** 14-08-2014





major limbs; Loose bark;

Reference Number:	474	
Туре:	Tree	
Signs of Bat Use:		
Potential:	1 - Medium	
Comments:		

Stag headed oak with lose bark and some splits. May be a hollow in the base of the head of the tree at about 3m height.

Date:	14-08-2014	GPS:	51.5198, -2.4439	
Tree Species			Oak	
Height (m)			16	
Diameter (m)			200	
Suitable Bat Features		Natura	Natural holes; Cracks/splits in	

#### Photo 1



#### Photo 2

Suitable Bat Features





Reference Number:	475	
Type:	Tree	
Signs of Bat Use:		
Potential:	3 - None	
Comments:		

Mature trees / woodland adjacent to field ditch in a woodland / hedgerow that has potential for a flight path / foraging. Mature crack willow, goat willow, grey willow.

<b>Date:</b> 26-08-2014	GPS:	51.5755, -2.8465
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Tree Species	Oak
Height (m)	10
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;

#### Photo 1



Photo 3



Photo 2



Photo 4





Reference Number:	476
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

5 mature grey willow trees at end of field ditch. The ditch has hawthorn, Goat willow and crack willow which would be medium / high for bat foraging habit

Tree Species	Grey willow
Height (m)	10
Diameter (m)	
Suitable Bat Features	Natural holes; Cracks/splits in major limbs;

#### Photo 1



Photo 2



Photo 3



Photo 4





51.571, -2.9331

Reference Number:	477
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Tree Species	Unknown, likely oak, old dead trunk and limbs
Height (m)	5
Diameter (m)	2
Suitable Bat Features	Cracks/splits in major limbs; Loose bark;

GPS:

Photo 1



Photo 3



Photo 2

Date:

28-08-2014





51.5775, -2.8482

Reference Number:	478	
Type:	Tree	
Signs of Bat Use:		
Potential:	1* - High	
Comments:		
Cavities on vet willow at edge of pond		

Tree Species	Willow
Height (m)	5
Diameter (m)	3
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 3



Photo 2

**Date:** 07-08-2014





Reference Number:	479
Туре:	Tree
Signs of Bat Use:	
Potential:	1* - High
Comments:	

Large cavity through centre of tree from ground to 3.5m with internal fissures and cracks

	Date:	07-08-2014		GPS:	51.5771, -2.8495
--	-------	------------	--	------	------------------

Tree Species	Ash
Height (m)	12
Diameter (m)	2
Suitable Bat Features	Cracks/splits in major limbs; Hollows/cavities;

#### Photo 1



Photo 2





51.5776, -2.8484

Reference Number:	480		
Type:	Tree		
Signs of Bat Use:			
Potential:	1 - Medium		
1 Otomian	i - Medidili		
Comments:			
Multiple potential features, evidence of decay at crown			

Tree Species	Willow
Height (m)	10
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

GPS:

Photo 1



Photo 2

Date:

07-08-2014





51.5638, -2.8664

Reference Number:	481
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Coppiced in past	

-	
Tree Species	Willows
Height (m)	12
Diameter (m)	4
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Hollows/cavities;

GPS:

Photo 1



Photo 2

**Date:** 07-08-2014





482
Building
1* - High
penings and ivy cover.

<b>Date:</b> 07-0	8-2014	GPS:	51.5777, -2.8498
-------------------	--------	------	------------------

Building Type	
Building Age	60
Height of Eaves (m)	2.5
Pitch Height at Gable End	
Roof Aspect	Flat
Roof Complexity	
Roof Covering	
Suitable Bat Features	

Photo 1



Photo 3



Photo 2





Reference Number:	483
Type:	Building
Signs of Bat Use:	Droppings;
Potential:	Known Roost
Comments:	
Droppings consistent	with natterers

Date:	06-08-2014	GPS:	51.56, -2.8824
		<u> </u>	·

Building Type	Barn	
Building Age	20	
Height of Eaves (m)	3	
Pitch Height at Gable End	4	
Roof Aspect	Ns	
Roof Complexity	Single ridge	
Roof Covering	Corrugated Sheets	
Suitable Bat Features	Gaps at Gable Ends;	

Photo 1



Photo 2





Reference Number:	484		
Type:	Building		
Signs of Bat Use:	Bats heard;		
Potential:	1 - Medium		
Comments:			
Likely bats within roof void/felting - owners comments and potential			

Date:	07-08-2014	GPS:	51.567, -2.8666
-------	------------	------	-----------------

Building Type	House
Building Age	50
Height of Eaves (m)	6
Pitch Height at Gable End	8
Roof Aspect	Ew
Roof Complexity	Main section with extensions
Roof Covering	Tiles
Suitable Bat Features	Loose Tiles/slates; Gaps behind fascias; Soffit boxes;

Photo 1



Photo 2





51.4621, -3.1639

Cracks/splits in major limbs;

Reference Number:	485	Date:
Troibilito Irailiboi.	100	
Туре:	Tree	Tree S
Signs of Bat Use:		Height
Potential:	2 - Low	Diame
Comments:		Suitab

Tree Species	Pine
Height (m)	20
Diameter (m)	1

GPS:

Photo 1



Photo 3



Photo 2





Reference Number:	486
Туре:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	
Multiple trees (5) all s	imilar state with modium hat

Multiple trees (5) all s potential along this he	imilar state with medium batedge

	Date:	07-08-2014	GPS:	51.5702, -2.8513
--	-------	------------	------	------------------

Tree Species	Willow
Height (m)	25
Diameter (m)	2.5
Suitable Bat Features	Woodpecker holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

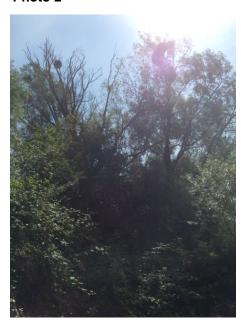
Photo 1



Photo 3



Photo 2





Reference Number:	487
Type:	Tree
Signs of Bat Use:	
Potential:	1 - Medium
Comments:	

Date:	23-07-2014	GPS:	51.5452, -3.0899
Tree S	pecies		Ash
Height	(m)		25
Diame	ter (m)		2
Suitable Bat Features		Cracks	s/splits in major limbs;

Photo 1

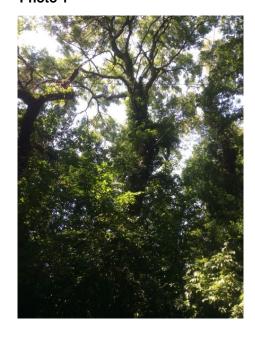
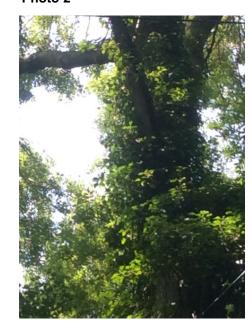


Photo 2





Reference Number:	488	
Туре:	Building	
Signs of Bat Use:		
Potential:	1* - High	
Comments:		
Broken windows and boardings		

|--|

Building Type	House
Building Type	110030
Building Age	200
Height of Eaves (m)	9
Pitch Height at Gable End	12
Roof Aspect	EW
Roof Complexity	Single ridge
Roof Covering	Slates
Suitable Bat Features	Gaps at Gable Ends; Loose Tiles/slates; Gaps behind fascias; Cracks in brickwork; Boarding;

Photo 1



Photo 3

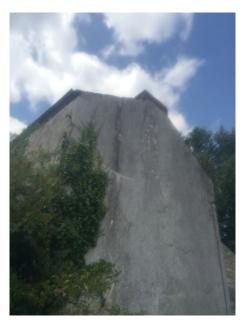


Photo 2



Photo 4





	400			
Reference Number:	489	<b>Date</b> : 23-07-2014	<b>GPS:</b> 51.5451, -3.0897	
Type:	Tree	Tree Species	Ash	
Signs of Bat Use:		Height (m)	30	
Potential:	2 - Low	Diameter (m)	3	
Comments:		Suitable Bat Features	Loose bark;	

Photo 1





					Weish Government	
Reference Number:	490	Date:	23-07-2014	GPS:	51.5453, -3.0896	
Туре:	Tree	Tree Species			Elder	
Signs of Bat Use:		Height (m)			12	
Potential:	1 - Medium	Diameter (m)			1	
Comments:		Suitable Bat Features			ks/splits in major limbs; bark; Hollows/cavities;	
Tree growing at angle Feature at 2.5m to 4m				·		

#### Photo 1





Reference Number:	492
Type:	Tree
Signs of Bat Use:	
Potential:	2 - Low
Comments:	

Date:	04-07-2014	GP	S:	51.5448, -3.0131

Tree Species	Oak
Height (m)	20
Diameter (m)	1
Suitable Bat Features	Natural holes; Cracks/splits in major limbs; Loose bark; Hollows/cavities;

Photo 1



Photo 3



Photo 2

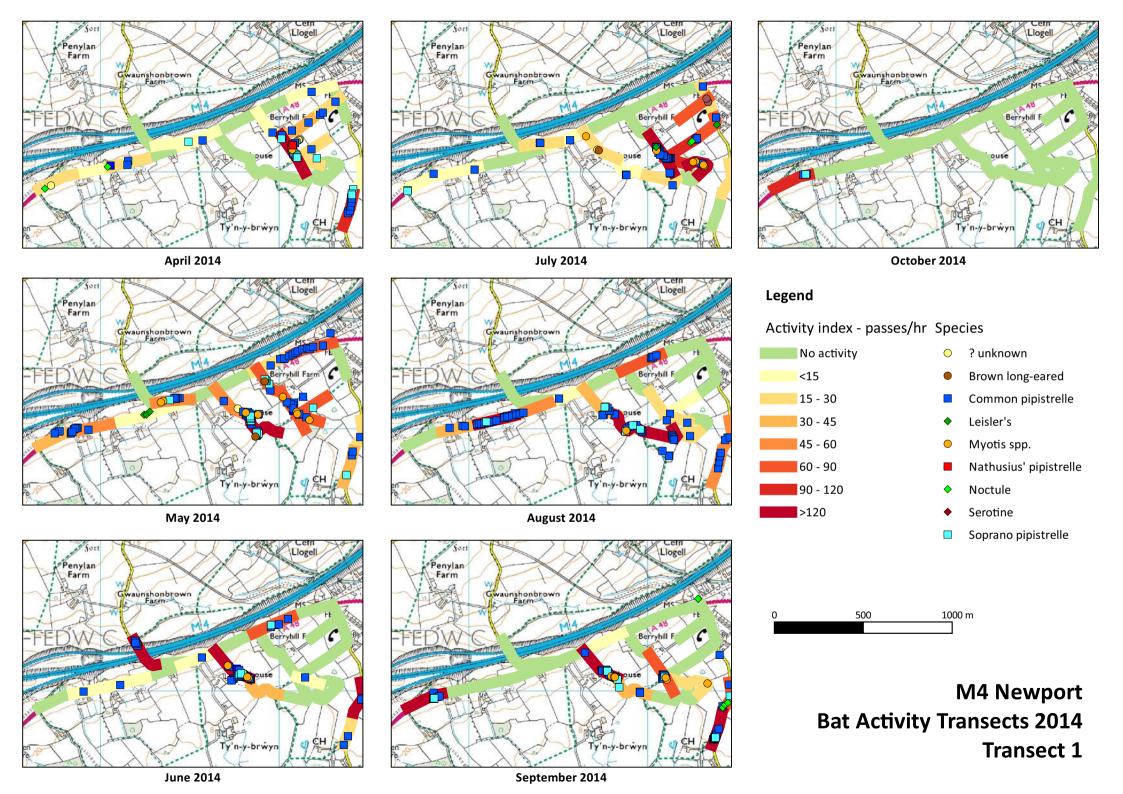


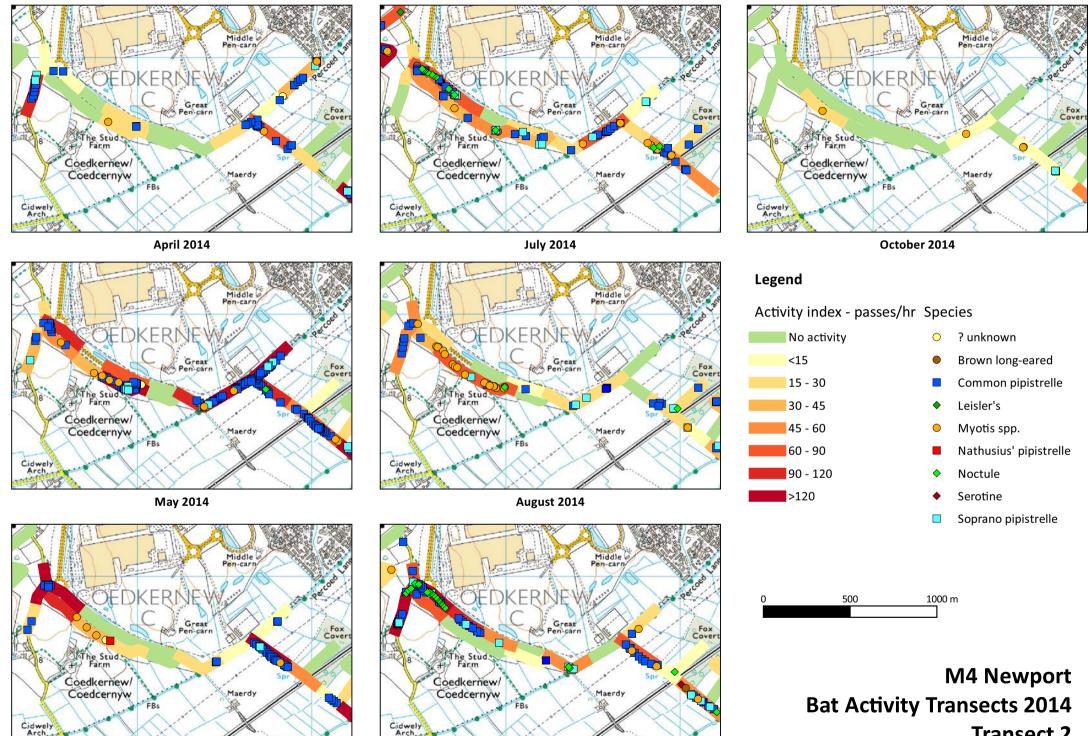
Photo 4



# **Appendix C**

Bat Activity Indexes

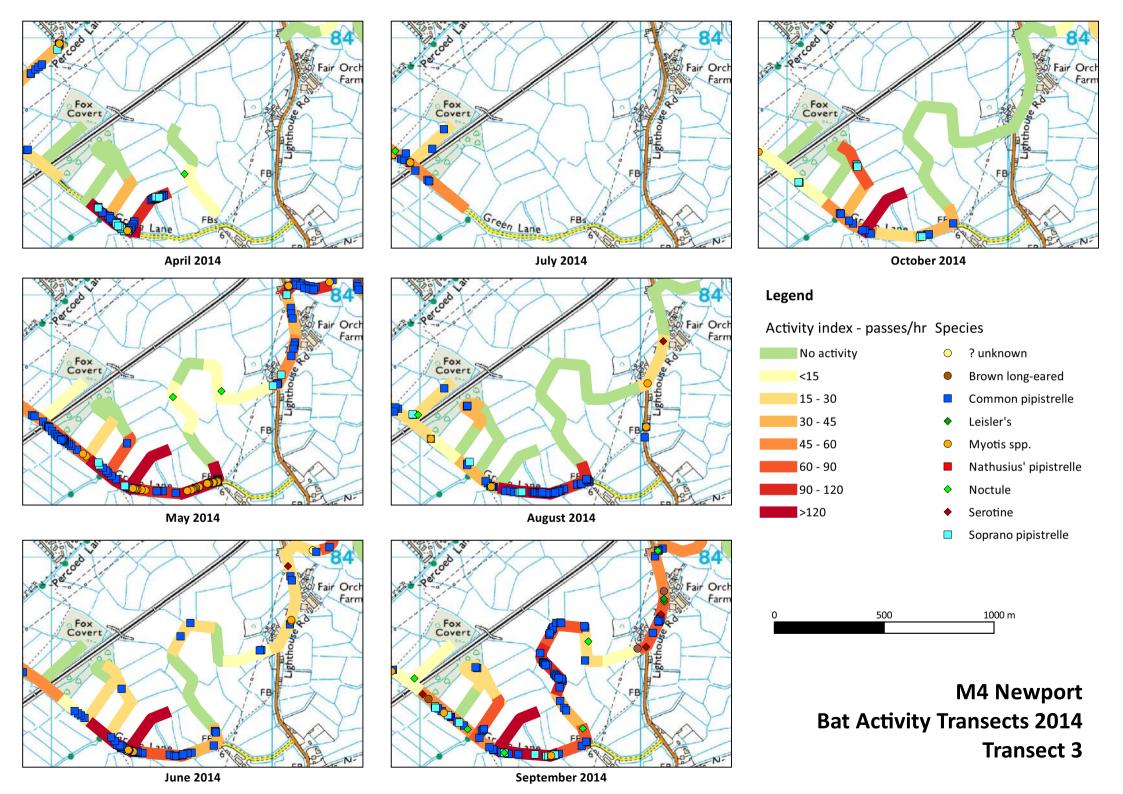


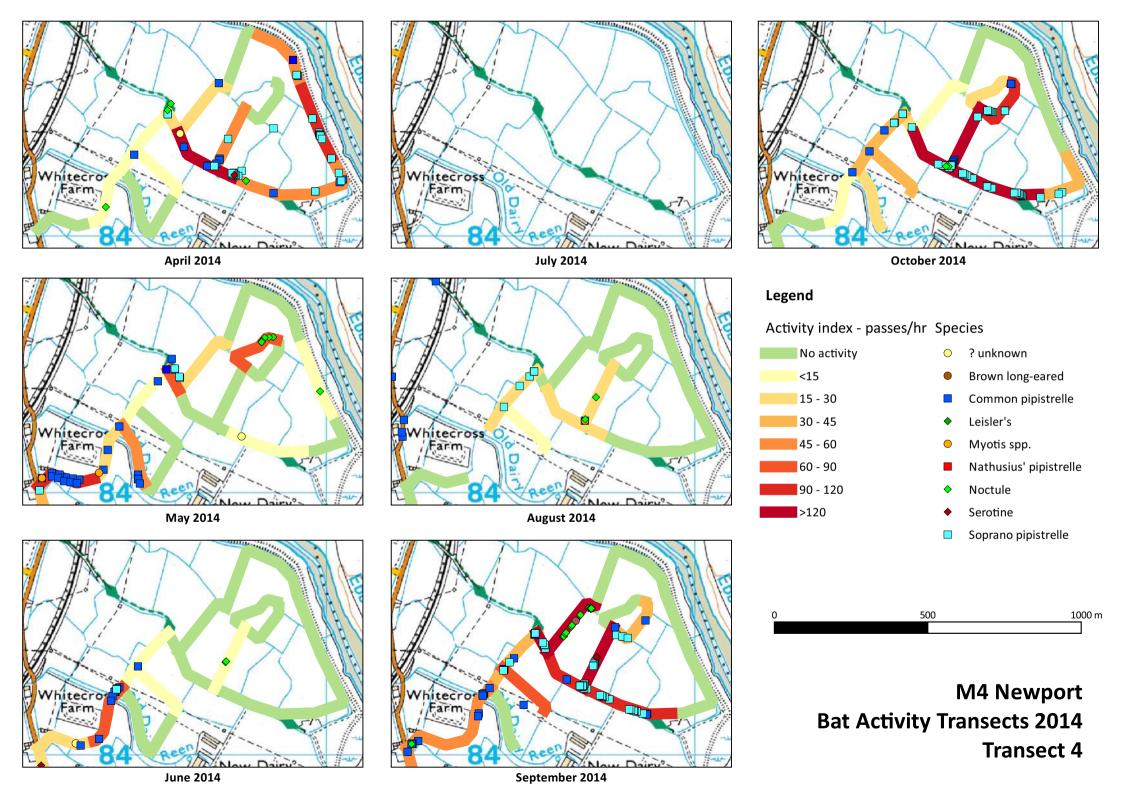


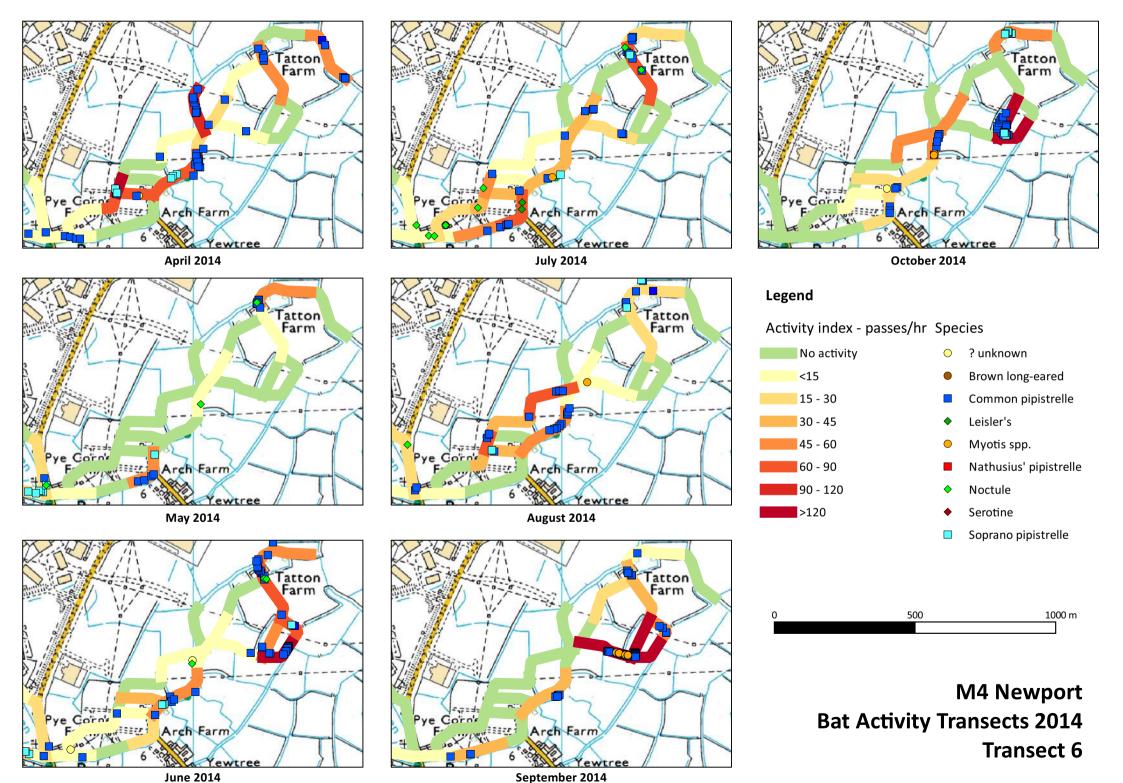
September 2014

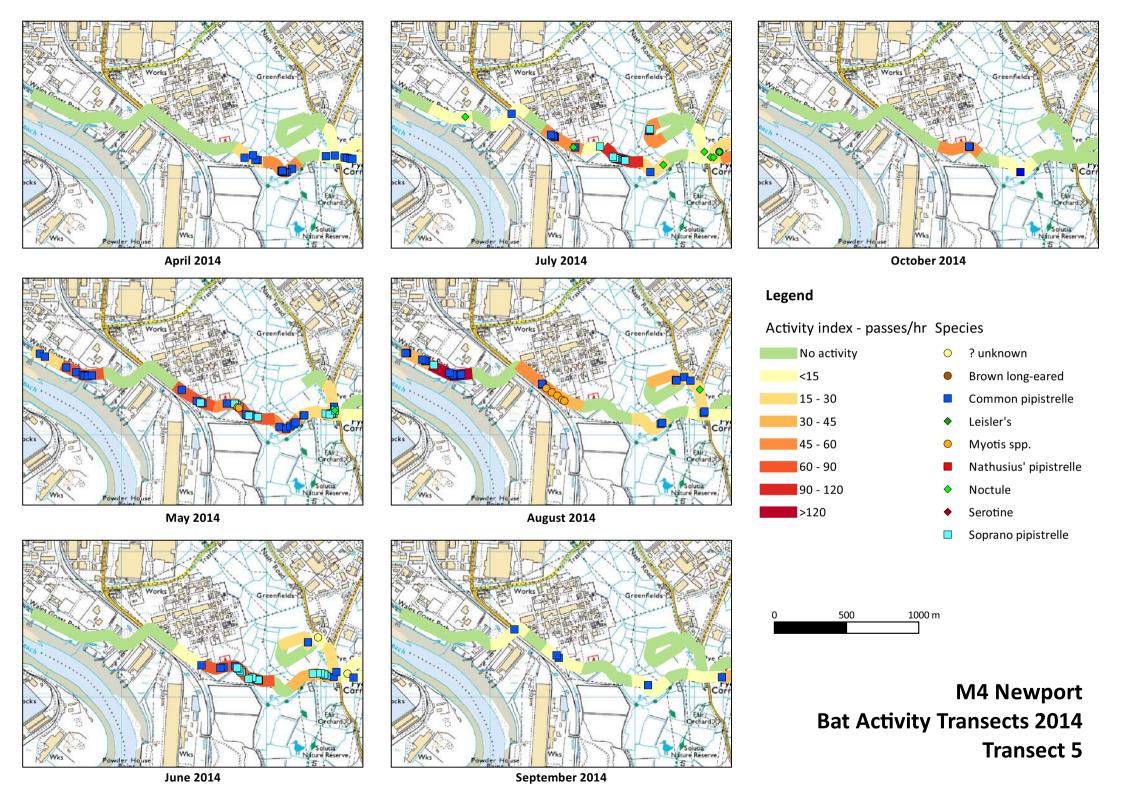
June 2014

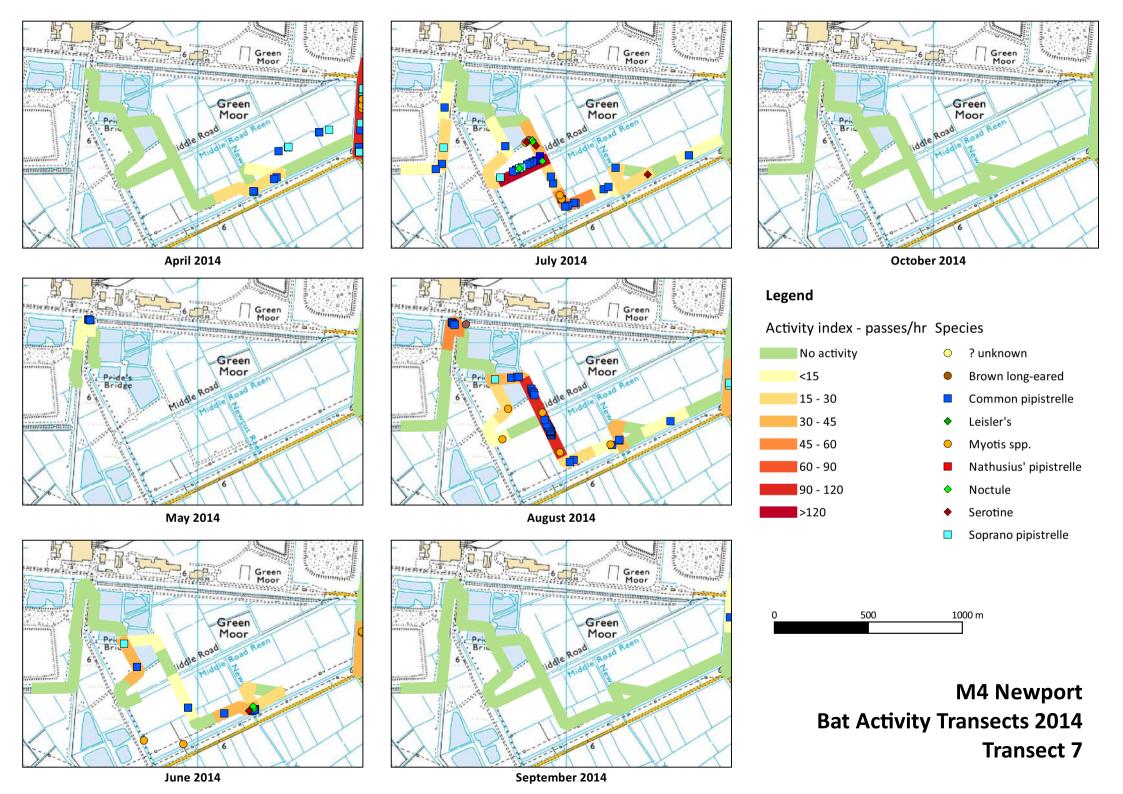
**Transect 2** 

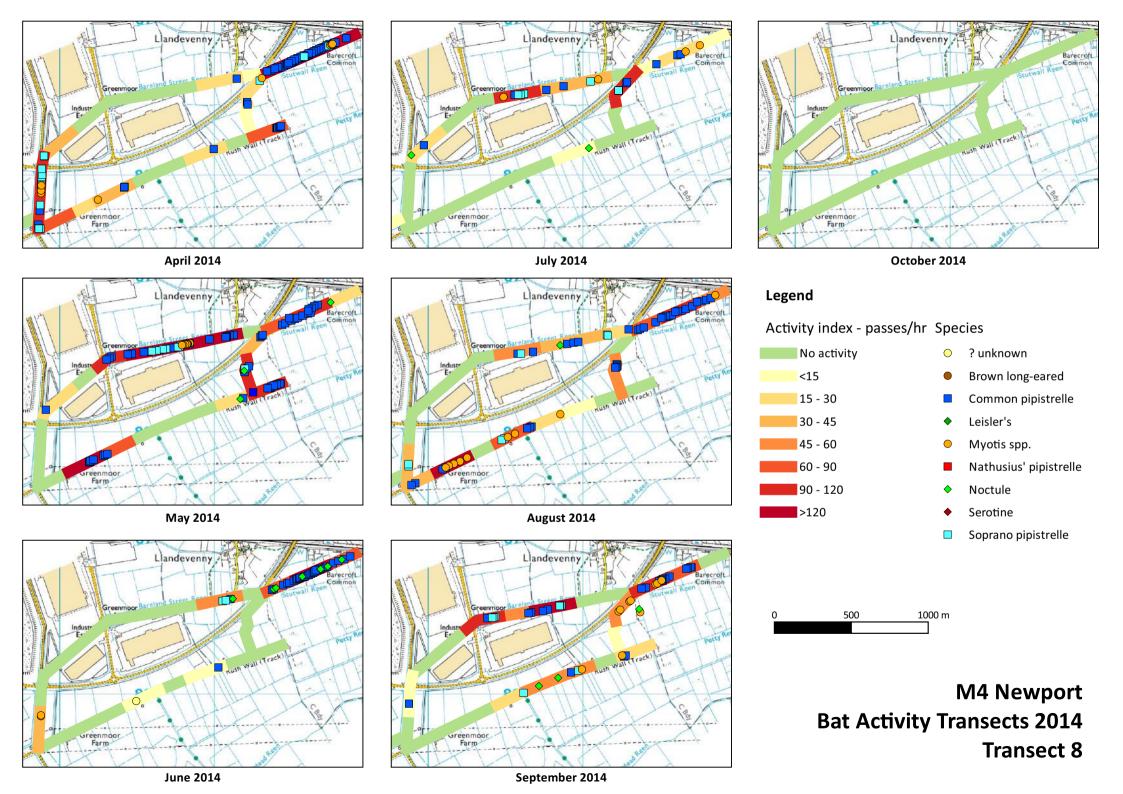


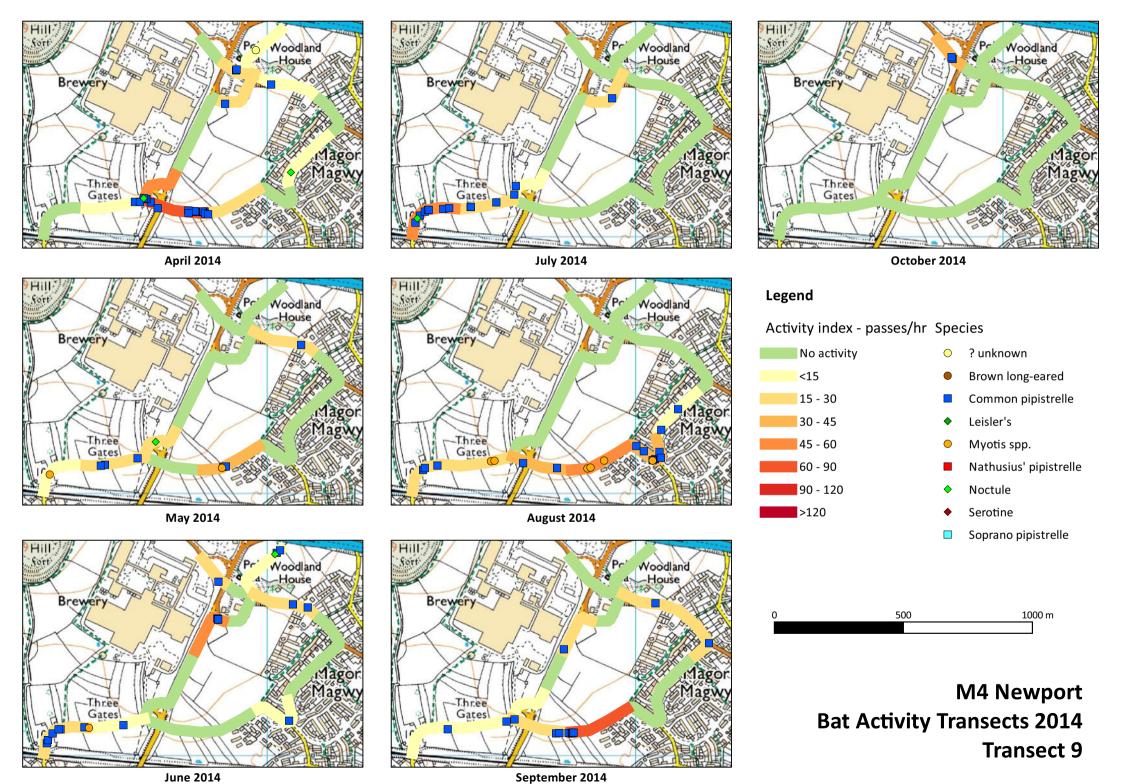


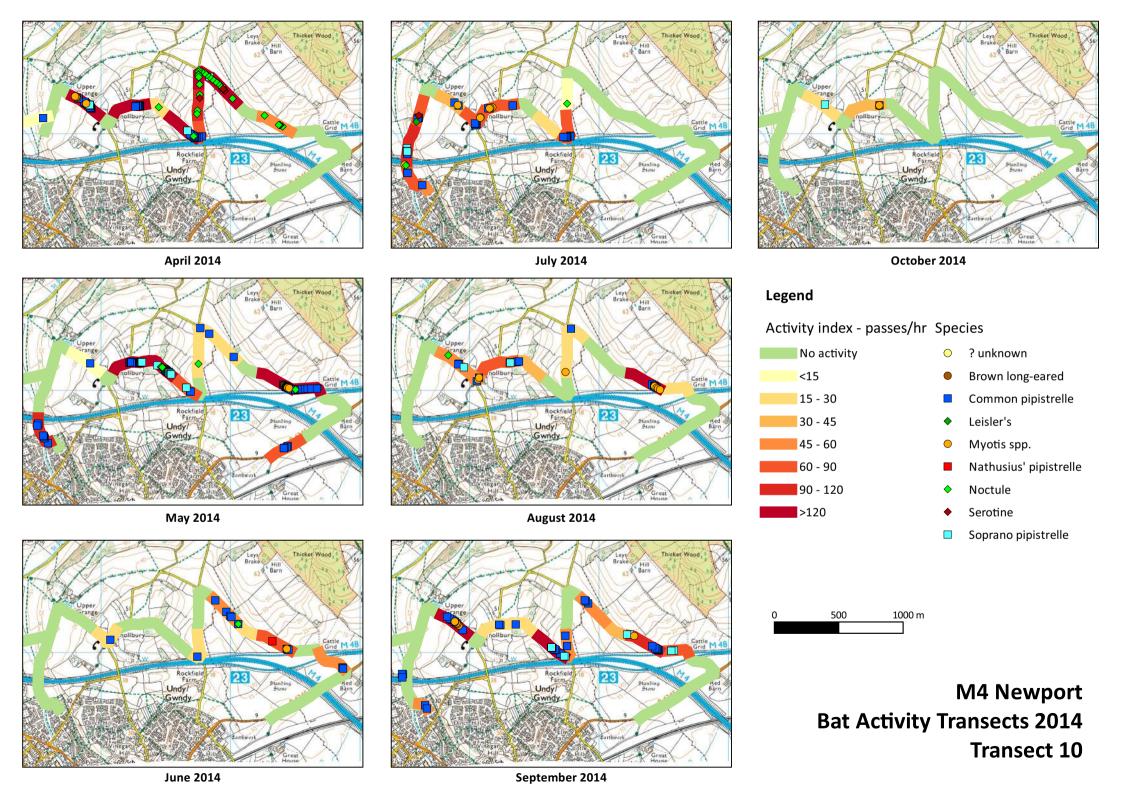








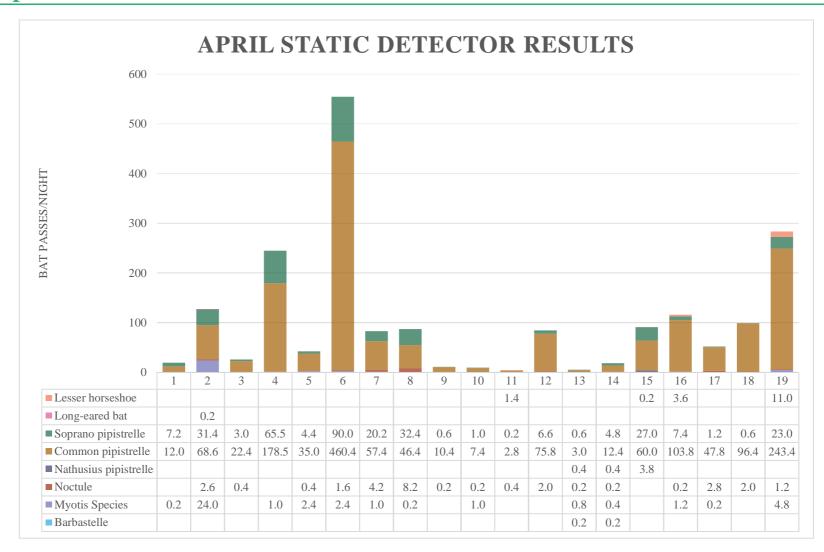




# **Appendix D**

Graphs of Bat Activity Indexes

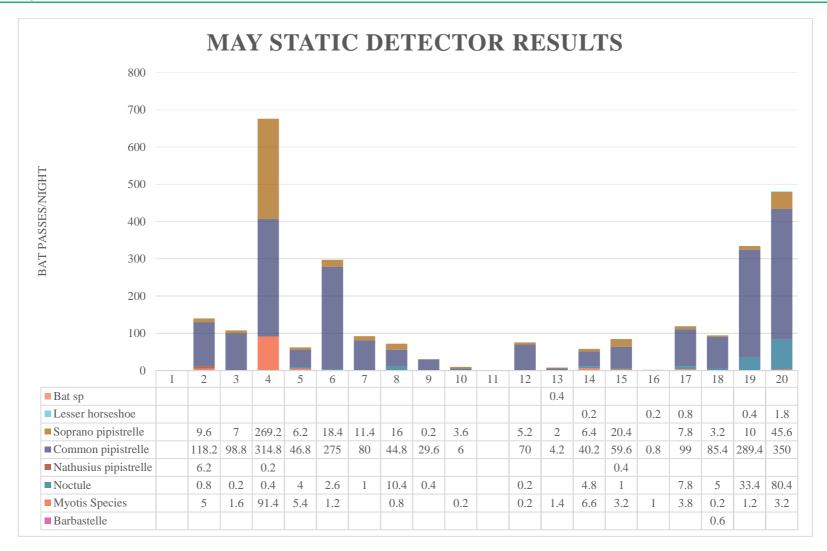
#### D1 April



Welsh Government

#### M4 Corridor Around Newport Bat Survey Report 2014

#### D2 May

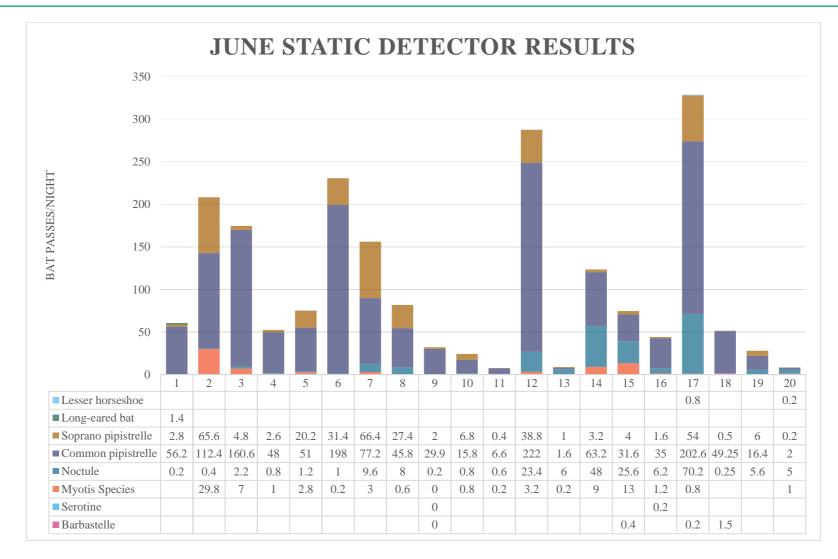


Welsh Government

M4 Corridor Around Newport

Bat Survey Report 2014

#### D3 June

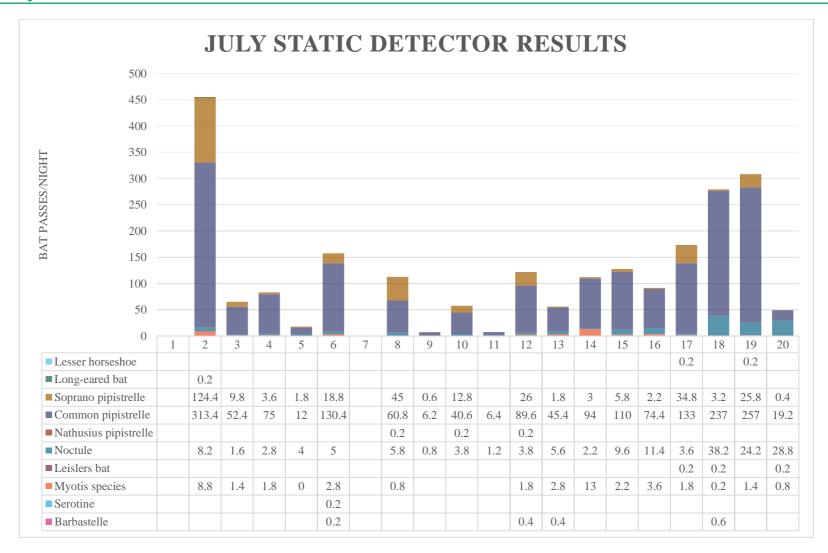


Welsh Government

M4 Corridor Around Newport

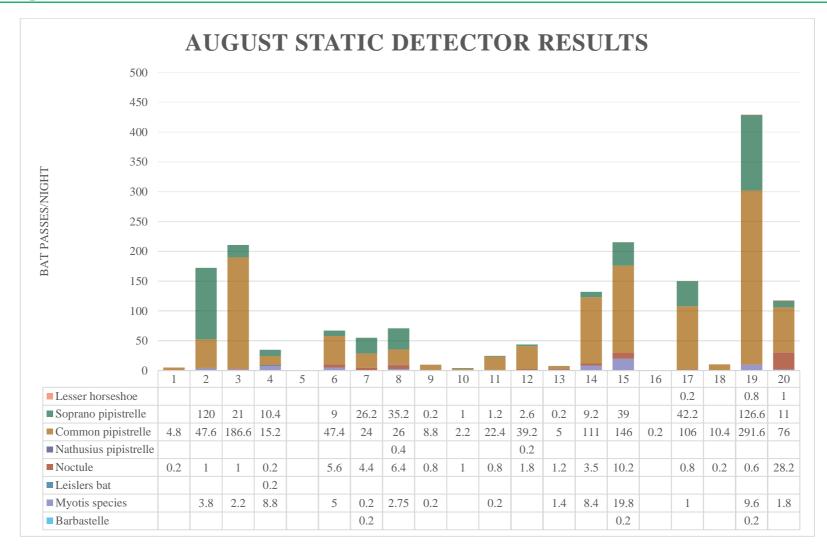
Bat Survey Report 2014

#### D4 July



Welsh Government

#### D5 August

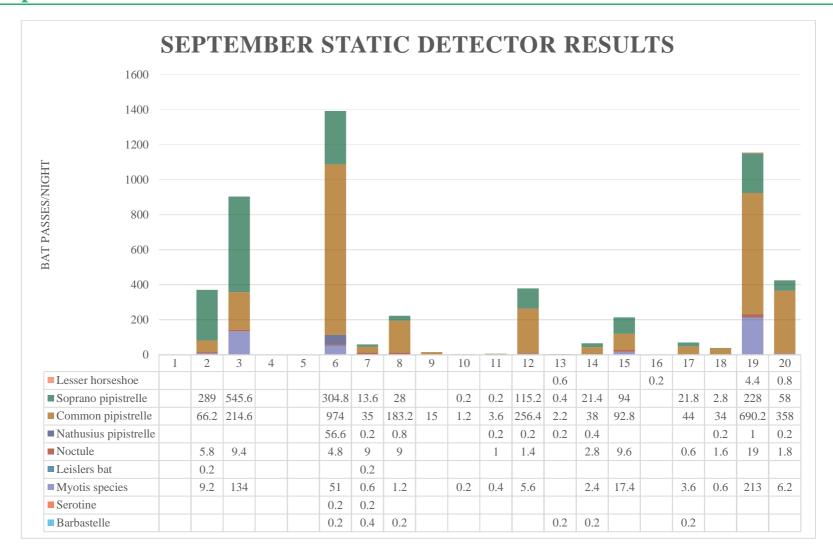


M4 Corridor Around Newport Bat Survey Report 2014 Welsh Government

M4 Corridor Around Newport

Bat Survey Report 2014

#### D6 September



Welsh Government

M4 Corridor Around Newport

Bat Survey Report 2014

#### D7 October

