

Latchetts Mead, Chobham

ECOLOGICAL APPRAISAL

784-B028538 Revision 1



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EXECUTIVE SUMMARY

Contents	Summary		
Site Location	A deciduous woodland parcel adjacent to SANG Chobham Meadows in Chobham, Woking. Ordnance Survey National Grid Reference SU 97882 62051.		
Proposals	An approximately 1 hectare extension to the adjacent Chobham Meadows SANG. Some limbs to be removed on tree 'T2'.		
Existing Site Information	WYG (now part of Tetra Tech) was commissioned by William Lacey Group on the 20th December 2017 to undertake an ecological survey and assessment of the site's potential suitability for SANG use. The site met all the requirements and all but one of the 'desirable' features against Natural England SANG guidelines.		
Scope of this Survey(s)	An Ecological appraisal, to include a desk study and an extended Phase 1 habitat survey. This report provides an assessment of the potential ecological receptors on site, any potential constraints and recommendations for further surveys, avoidance, mitigation or enhancement measures that are needed.		
Results	There were 15 designated sites within 2 km of the site, the closest of which was Chobham Meadows SANG SINC, located immediately south of the site. Semi-natural broadleaf deciduous woodland was present within the site. The site has suitability / potential to support roosting bats, foraging and commuting bats, reptiles, badger, breeding birds, otter, hazel dormouse and invertebrates. The site had negligible suitability /potential to support great crested newt and water vole.		
Recommendations	 Three bat emergence / return-to-roost surveys of T2; The removal of all invasive species from site; Screening of the western boundary by planting native species; Mitigation for public disturbance by introducing dog waste bins, regular litter picking and interpretation boards; and Installation of bat and bird boxes and leaving log piles/deadwood. 		



GLOSSARY

BCT Bat Conservation Trust

BoCC Bird(s) of Conservation Concern

BSI British Standard Institute
BTO British Trust for Ornithology

CIEEM Chartered Institute of Ecology & Environmental Management

CRoW Act Countryside and Rights of Way Act 2000

DEFRA Department for the Environment, Food and Rural Affairs

EPS European Protected Species

EPSL European Protected Species Licence

GCN Great Crested Newt

Habitats Regulations Conservation of Habitats and Species Regulations 2017 (as amended)

HAP Habitat Action Plan

Hedgerow Regulations The Hedgerow Regulations 1997
HPI Habitat(s) of Principal Importance
HRA Habitats Regulations Assessment
JNCC Joint Nature Conservation Committee

LBAP Local Biodiversity Action Plan

LNR Local Nature Reserve
LPA Local Planning Authority
LWS Local Wildlife Site
MCIEEM Member of CIEEM

Natura 2000 site A European site designated for its nature conservation value

NE Natural England

NERC Act Natural Environment and Rural Communities Act 2006

NNR National Nature Reserve

NPPF National Planning Policy Framework
PEA Preliminary Ecological Appraisal
SAC Special Area of Conservation

SANG Suitable Natural Alternative Greenspace

SAP Species Action Plan

SBIC Surrey Biodiversity Information Centre
SINC Site of Important Nature Conservation

SNCO Statutory Nature Conservation Organisations

SPA Special Protection Area

SPI Species of Principal Importance
SSSI Site(s) of Special Scientific Interest

W&CA Wildlife & Countryside Act 1981 (as amended)



1.0 INTRODUCTION

1.1 BACKGROUND

Tetra Tech was commissioned by the William Lacey Group on 18th May 2021 to undertake an Ecological Appraisal of the site known as Latchetts Mead, in Chobham, Surry.

This report has been prepared by Assistant Ecologist Hannah Goodenough BSc and the conditions pertinent to it are provided in Appendix A.

1.2 SITE LOCATION

The 'site' is located at Latchetts Mead in Chobham, Surrey, GU24 8PH and is centred at Ordnance Survey National Grid Reference SU 97882 62051 – see Figure 1. It comprises of approximately 1 hectare of deciduous woodland, to the east of Chobham village centre. The site is bounded by Mill Bourne Brook and grassland fields to the south (SANG Chobham Meadows), residential housing and gardens to the west and north, and grassland fields with tree lines and hedgerows to the east.

1.3 DEVELOPMENT PROPOSALS

Previous proposals for the site were for residential development comprising of 15-20 units. It has now been proposed that the site acts as an approximately 1 hectare extension to the adjacent Chobham Meadows SANG. This would mitigate for adverse effects from recreational pressure on the Thames Basin Heath Special Protection Area (SPA) from new residential housing within Surrey Heath Borough Council.

Some limbs from tree 'T2' are being proposed for removal due to it being unsafe.

1.4 EXISTING SITE INFORMATION

WYG (now part of Tetra Tech) was commissioned by William Lacey Group on 20th December 2017 to undertake an ecological survey and assessment of the site's potential suitability for Sustainable Alternative Natural Green Space (SANG) use (WYG, 2018). An assessment of the site against the Natural England SANG guidelines showed that the site met all of the 'must/should have' requirements, and all but one of the 'desirable' features. As such, consultation with Natural England and the Local Planning Authority (LPA) was recommended to commence to discuss the next stage / steps for the site.

To support a future planning application for the site the following recommendations were made:

- Invasive species removal / mitigation (by avoidance);
- Tree survey;
- Walkover survey for bluebell, other ancient woodland indicator species and invasive plant species;
- Barn owl check;
- Bat inspection and dormouse survey should any trees / shrubs require removal;
- · Pre-commencement badger check; and
- Specific timings and methodologies to be required for birds, reptiles and amphibians.

1.5 PURPOSE OF THE REPORT

The purpose of this report is to complete:



- A desk study to obtain existing information on statutory and non-statutory sites of nature conservation interest and relevant records of protected/notable species within the site and its zone of influence;
- An extended Phase 1 habitat survey, involving a walkover of the site to record habitat types
 and dominant vegetation, including any invasive species, and a reconnaissance survey for
 evidence of protected fauna or habitats capable of supporting such species;
- An assessment of the potential ecological receptors present on site, identify any constraints
 they pose to future development and (if possible) any recommendations for any further
 surveys, avoidance, mitigation or enhancement measures that are needed (as appropriate).

Note that scientific names are provided at the first mention of each species and common names (where appropriate) are then used throughout the rest of the report for ease of reading.

A summary of the key legislation is also provided in Appendix B.



2.0 METHODOLOGY

2.1 DESK STUDY

2.1.1 Local Ecological Records Centre

Information was requested from the Surrey Biodiversity Information Centre (SBIC) for information on any nature conservation designations and protected or notable species records within 2 km of the site.

The data search covered:

- Statutory designated sites for nature conservation, namely Special Areas of Conservation (SACs), SPAs, Ramsar sites, Sites of Special Scientific Interest (SSSIs), National Nature Reserves (NNRs) and Local Nature Reserves (LNRs);
- Non-statutory designated sites for nature conservation, namely Local Wildlife Sites (LWS) and Sites of Nature Conservation Interest (SINCs);
- Legally protected species, such as great crested newts *Triturus cristatus*, badger *Meles meles* and bats;
- Notable habitats and species, such as those listed as Habitats or Species of Principal Importance (HPIs or SPIs); and,
- Priority habitats or species within the Surrey Local Biodiversity Action Plan (LBAP).

The data search did not cover:

- Tree Preservation Orders (TPOs); or
- Conservation Areas designated for their special architectural and historic interest.

2.1.2 Online Resources

A search for relevant information was also made on the following websites:

- MAGIC www.magic.gov.uk DEFRA's interactive, web-based database for statutory designations and information on any European Protected Species Mitigation Licence (EPSML) applications that have been granted in the local area.
- NBN Atlas https://nbnatlas.org/ for records of protected and notable species.

Note that the use of some NBN Atlas data is limited (e.g. commercial use of data provided under a CC BY-NC licence is not possible) therefore we may not be able to report full details of those records in such cases.

2.2 FIELD SURVEYS

The following methodologies have been used to identify the ecological receptors present on or near the site, which are relevant to the proposed development.

2.2.1 Habitats

An extended Phase 1 habitat survey was undertaken on the site on 2nd June 2021 by Tetra Tech Project Ecologist Harriet Baber and Tetra Tech Assistant Ecologist Hannah Goodenough. The weather conditions were warm with no cloud and a light breeze.

The vegetation and broad habitat types within the site were noted during the survey in accordance with the categories specified for a Phase 1 Vegetation and Habitat Survey (JNCC, 2010). Dominant plant species were recorded for each habitat present using nomenclature according to Stace (2019). The site was also appraised for its suitability to support notable flora, with regard to the *Guidelines for Preliminary Ecological Appraisal* (CIEEM, 2017).



2.2.2 Protected & Notable Species

The site was inspected for evidence of, and its potential to support, protected or notable species, especially those listed under the Schedule 2 of the Habitat Regulations, Schedule 5 of the W&CA, the CRoW Act, those given extra protection under the NERC Act, and species included in the Surrey LBAP.

Great Crested Newt

The site was appraised for its suitability to support great crested newts *Triturus cristatus*. The assessment was based on Guidance outlined in the *Herpetofauna Workers' Manual* (Gent & Gibson, 2003) and the *Great Crested Newt Conservation Handbook* (Langton, Becket & Foster, 2001).

Bats

Roosting Bats –Trees

Any suitable trees on site were assessed from the ground for their suitability to support breeding, resting and hibernating bats using survey methods based on the Bat Conservation Trust's *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (Collins, 2016) – hereafter referred to as the 'BCT Guidelines'. The categories used to classify the bat roost suitability of any features found, are explained in Table 1 below.

Table 1: Categories of Bat Roost Suitability (BCT Guidelines)

Suitability	Typical Roosting Features
Negligible	Negligible habitat feature on site likely to be used by roosting bats.
Low	A tree of sufficient size and age to contain potential roost features but with none seen from the ground or features seen with only very limited roosting potential.
Moderate	A tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments in this table are made irrespective of species conservation status, which is established after presence is confirmed).
High	A tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis & potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.

Foraging/commuting Bats

The BCT Guidelines use the criteria in Table 2 below to categorise the potential value of habitats and features for use by foraging and commuting bats and these have been used to characterise the value of this site.

Table 2: Categories of Habitat Suitability (BCT Guidelines)

Suitability	Typical Foraging & Commuting Features
Negligible	Negligible habitat features on site likely to be used by commuting or foraging bats.
Low	Habitat that could be used by small numbers of commuting bats such as a gappy hedgerow or unvegetated stream, but isolated, i.e. not very well connected to the surrounding landscape by other habitat. Suitable, but isolated habitat that could be used by small numbers of foraging bats such as a lone tree (not in a parkland situation) or a patch of scrub.
Moderate	Continuous habitat connected to the wider landscape that could be used by bats for commuting such as lines of trees and scrub or linked back gardens.



Suitability	Typical Foraging & Commuting Features
	Habitat that is connected to the wider landscape that could be used by bats for foraging such as trees, scrub, grassland or water.
High	Continuous high-quality habitat that is well connected to the wider landscape that is likely to be used regularly by commuting bats such as river valleys, streams, hedgerows, lines of trees and woodland edge.
	High-quality habitat that is well connected to the wider landscape that is likely to be used regularly by foraging bats such as broadleaved woodland, tree-lined watercourses and grazed parkland.
	Site is close to and connected to known roosts.

Reptiles

The site was appraised for its suitability to support reptiles. The assessment was based on guidance outlined in the Herpetofauna Workers' Manual (Gent & Gibson, 2003).

Badger

The site was surveyed for evidence of badger setts or other badger activity such as paths, latrines or signs of foraging. Methodologies used and any setts recorded were classified according to published criteria (Harris, Cresswell & Jefferies, 1989).

Hazel Dormouse

The site was surveyed for its suitability to support hazel dormice. The assessment was based on guidance outlined in Bright, Morris and Mitchell-Jones (2006).

Other Species

The site was also appraised for its suitability to support other protected or notable fauna including mammals, amphibians, birds and invertebrates with regard to the Guidelines for Preliminary Ecological Appraisal (CIEEM, 2017) and *BS42020:2013 Biodiversity – Code of Practice for Planning and Development* (BSI, 2013). Evidence of any current or historical presence of such species was recorded.

Invasive Species

The site was searched for evidence of invasive plant species, such as Japanese *knotweed Reynoutria japonica* (formerly *Fallopia japonica*), Indian (Himalayan) balsam *Impatiens glandulifera*, giant hogweed *Heracleum mantegazzianum*, wall cotoneaster *Cotoneaster horizontalis* and rhododendron *Rhododendron ponticum* × *Rhododendron maximum*. A full list of all invasive plant species is provided in Appendix B.

2.3 LIMITATIONS

The optimal period to undertake an extended Phase 1 habitat survey is April-September. The survey was completed in June which is in the optimal survey window. As such this is not considered to be a limitation to the accurate assessment of the habitats as the dominant species of the respective vegetation types were visible and identifiable.

To determine presence or likely absence of protected species usually requires multiple visits at suitable times of the year. As a result, this survey focuses on assessing the potential of the site to support species of note, which are considered to be of principal importance for the conservation of biodiversity with reference to those given protection under UK or European wildlife legislation. This report cannot therefore be considered a comprehensive assessment of the ecological interest of the site. However, it does provide an assessment of the ecological interest present on the day the site was visited and highlights areas where further survey work may be recommended.



The details of this report will remain valid for a period of 18 months from the date of the survey (December 2022), after which the validity of this assessment should be reviewed to determine whether further updates are necessary. Note that the recommendations within this report should be reviewed (and reassessed if necessary) should there be any changes to the red line boundary or development proposals which this report was based on.



3.0 BASELINE CONDITIONS

3.1 DESIGNATED SITES

The following designated sites of ecological importance have been identified within 2 km of the site as displayed in Table 3 and shown on Figure 2.

Table 3: Designated Sites Within 2 km

Designation	Site Name	Distance & Direction	Summary of features
NNR SSSI SPA SAC	Chobham Common	1 km north	The largest NNR in the south-east of England (655.7 hectares) with a large area of lowland heath. It is part of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright and Chobham SAC. It is home to over 100 bird species, 300 species of wildflower, 25 mammal species and 33 species of butterfly.
SSSI SPA	Horsell Common	1.9 km south east	152 hectares of SSSI and part of the Thames Basin Heaths SPA. The Common has a rich mosaic of heathland habitats and is important for supporting breeding populations of nightjar Caprimulgus europaeus, woodlark Lullula arborea and Dartford warbler Sylvia undata.
SANG SINC	Chobham Meadows South of the Mill Bourne	0 km south (adjacent to site)	A herb rich meadow which are a rare resource within Surrey many having been lost to agricultural improvement and development. It was created to limit human disturbance on the SPA's mentioned above.
SINC	Little Heath	0.6 km north	Heathland, acid grassland and broadleaved secondary woodland, and a colony of silver-studded blue <i>Plebejus argus</i> .
SINC	Broadford Meadows by The Bourne	0.8 km south west	Contains food plain grazing marsh habitat with a diversity of plant species. 21 species typical of grassland of conservation interest in Surrey have been recorded on the site. Also contains a band of wetland woodland.
SINC	Burrow Hill Green	1 km north west	Small common with acid grassland, heath, scrub, belt of woodland and pond. Selected, for acid grassland and small area of heath including species uncommon in the County – yellow-rattle <i>Rhinanthus minor</i> .
SINC	Millbrook Meadows	1.3 km south west	Habitats include semi-improved grassland, semi-natural woodland and damp semi-improved grassland (declining habitat in Surrey)
SINC	Bourne Fields & Young Stroat Meadows	1.7 km south east	Selected for semi-improved, species rich wet meadow and possibly old water-meadow, with interesting species-rich ditch flora and bankside vegetation.



Designation	Site Name	Distance & Direction	Summary of features
SINC	Chobham Place Woodland	1.8 km north west	Ancient replanted woodland. Main interest of site is the old sweet chestnut trees <i>Castanea sativa</i> , many of which are starting to die, hollow out and self-pollard.
SINC	Chobham Place Grassland	1.8 km north west	An unimproved grassland with several uncommon species. Lowland neutral grasslands are included within the Surrey BAP.
SINC	Wet meadows at Roselands Nursery	1.8 km south west	The site is selected for unimproved wet grassland. 21 species typical of grassland of conservation interest in Surrey have been recorded on the site. The woodland on site supports 8 Ancient Woodland Indicator Species
SINC	Horsell Common Field	1.8 km south east	Rough damp grassland with a rich flora. The site supports a good orchid population and the Forester moth <i>Adscita statices</i> .
SINC	Lovelands Farm Meadows	1.8 km south west	Contains species rich rush dominated pasture. 12 species typical of grassland of conservation interest in Surrey have been recorded on the site.
SINC	Hay Meadow by the Bourne	2 km south west	Wet meadow with species-rich flora noted for southern marsh-orchid <i>Dactylorhiza</i> praetermissa.

3.2 HPI AND ANCIENT WOODLAND

The desk study identified the following Habitats of Principal Importance (HPIs) and ancient woodland within 2 km of the site:

- 287 parcels of lowland deciduous woodlands, the nearest is located 0.4 km west;
- 88 parcels of lowland heathland, the nearest is located 1 km south east;
- 29 parcels of lowland fens, the nearest is located 1.1 km north;
- 15 parcels of traditional orchard, the nearest is located 0.6 km south;
- 11 parcels of woodland and parkland, the nearest is located 0.7 km north;
- 1 parcel of ancient woodland located 0.3 km south.

3.3 HABITATS

The following habitats have been identified through our assessment, with detailed Target Notes (TN) included in Appendix C as appropriate, and shown on Figure 3:

3.3.1 Semi-natural broadleaved deciduous woodland

The entire site comprises of semi-natural broadleaved deciduous woodland which is mature in age and mostly comprises of pedunculate oak *Quercus robur*, ash *Fraxinus excelsior* and wild cherry *Prunus avium* (TN1). The understorey layer contained hawthorn *Crataegus monogyna*, hazel *Corylus avellana*, holly *Ilex aquifolium* and bramble *Rubus fructicosus* agg. Ground flora in abundance included tufted hair grass *Deschampsia cespitosa*, ivy *Hedera helix*, dog's mercury *Mercuriais perennis* and ground elder *Aegopodium podagraria*. English bluebells *Hyacinthoides non-scripta* were found on site. Dog's mercury and English bluebell are ancient woodland indicator species.



The woodland on site is mapped as deciduous woodland within MAGIC and qualifies as a Habitat of Principal Importance under the NERC Act, 2006.

3.3.2 Dry ditch

Figure 4 shows the location of waterbodies on site and in the surrounding area. A ditch runs along the northern boundary of the site and cuts into the site at the north-east corner (Figure 4). The section within the site was dry upon inspection but it has been noted in a previous assessment by WYG to be wet in February 2018. At the edges of the ditch, species tolerant of wet conditions were observed, such as tufted hair grass *Deschampsia cespitosa* and pendulous sedge *Carex pendula*.

As the ditch traverses outside of the site boundary to the north-east, it was seen to be filled with water that was slow flowing (TN2). Indian (Himalayan) balsam was abundant along the banks of the ditch (TN3) and is listed as an invasive species under Schedule 9 of the W&CA (Appendix B).

3.4 PROTECTED & NOTABLE SPECIES

3.4.1 Great Crested Newt

The desk study returned 4 records of GCN within 2 km of the site, with the most recent record being reported in 2017. A search on MAGIC returned one GCN EPSML granted within 2 km of the site. This was for the damage and destruction of a GCN resting place granted in 2017, 0.5 km south of the site.

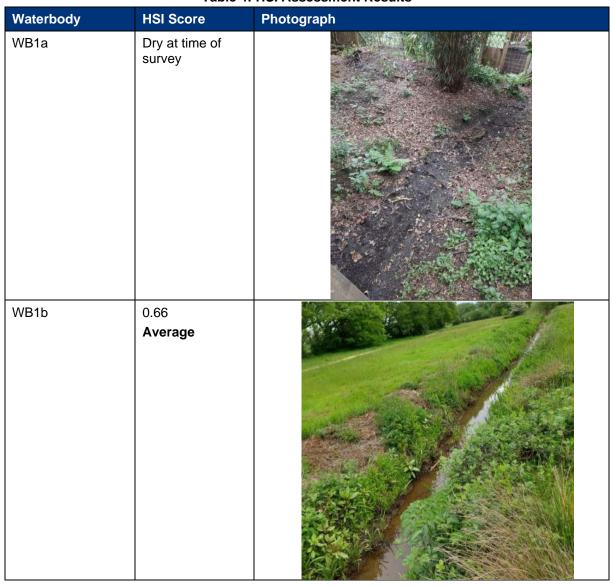
There are no habitats on site suitable to support breeding GCN due to the ditch being dry, and usually having low water levels when wet. However, opportunities were available for GCN (if present locally) to disperse, rest and hibernate within the woodland habitat. Possible refugia was noted with a pile of bricks (TN4). The nearest pond is located 450m south-east from the site and is separated by the Mill Bourne Brook – which has a fast flow in some places, making it unlikely for GCN to traverse through. As such, it is considered unlikely that GCN potentially using this pond would utilise the terrestrial habitats on site.

Habitat Suitability Index (HSI) Assessment

To assess the potential for the surrounding landscape to support GCN, waterbodies within 500m were assessed using HSI (Table 4; Figure 4) (Oldham *et al*, 2000). This included the ditch which traverses the site in the north-east corner. Table 4 below shows the results of the HSI assessment and photographs.



Table 4: HSI Assessment Results



Detailed results of the HSI for W1b are provided in Table 5.

Table 5: Detailed HSI Assessment Results for W1b

Criterion	WB1b
Map location	A
Surface area (shape)	Irregular
Surface area (m²)	370
Desiccation rate	Frequently
Water quality	Moderate
Shade (% 1m from bank)	10
Waterfowl	Absent
Fish population	Absent



Pond density (ponds within 1 km)	3
Terrestrial habitat	Good
Macrophyte cover (%)	5%
Notes	Yellow flag iris <i>Iris pseudacorus</i> and Indian Balsam
HSI Score:	0.66
Pond Suitability:	Average

Deciduous woodland on site and the semi-improved grassland on adjacent land to the south and east provide suitable terrestrial habitat for GCN. The results of the HSI suggest that one waterbody within 500 m of the site provides aquatic habitat suitable for GCN. It is therefore possible that the site and its boundaries could be used by foraging, dispersing, resting and hibernating GCN.

3.4.2 Bats

The desk study returned 31 records for bats within 2 km of the site. These records were for common pipistrelle *Pipistrellus pipistrellus*, soprano pipistrelle *Pipistrellus pygmaeus*, noctule *Nyctalus* noctula, serotine *Eptesicus serotinus* and brown long-eared bat *Plecotus auritus*. All species were last recorded in 2019. A search of MAGIC returned 6 EPSMLs granted for bats within 2 km of the site, summarised in Table 6.

Table 6: EPSLs Granted within 2 km

Species	Reason for Licence	Distance & Direction	Year Granted
Common pipistrelle	Destruction of a resting place	0.7 km north west	2014
Common pipistrelle	Destruction of a resting place	0.7 km north west	2013
Common pipistrelle and brown long-eared bat.	Destruction of resting place	1.3 km north west	2012
Common pipistrelle and brown long-eared bat.	Destruction of a breeding and resting place	1.8 km east	2013
Common pipistrelle and brown long-eared bat.	Destruction of a resting place	1.5 km west	2017
Common pipistrelle, soprano pipistrelle and brown long-eared bat.	Destruction of a breeding and resting place	0.5 km south	2010

The woodland and surrounding semi-improved grassland have a high potential to support roosting, foraging and commuting bats. Two trees were recorded to have a moderate bat roost suitability (T1 and T3) while T2 has high suitability, see Table 7. The woodland, wet ditches and surrounding grassland (being well connected) are likely to provide high value foraging and commuting habitat for bats.



Table 7: Trees noted as suitable for bats on site

Tree	Suitability	Rationale and summary	Photograph
T1	Moderate suitability	Pedunculate Oak with a horizontal hazard beam. Potential to support small numbers of less common bat species.	
T2	High suitability	Multiple cavities contain evidence of nesting (sticks present) -likely to be jackdaw Corvus monedula (unsuitable for owls). Multiple woodpecker feeding holes. Potential cavities, access through splits in cambium. Recommend climbing and using an endoscope to inspect further.	



ТЗ	Moderate suitability	Woodpecker hole and lots of dead limbs higher up the tree (obscured view but trunk of a suitable size to support a good number of bats).	
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Overall, the site was assessed to have a high potential to support roosting, foraging and commuting bats.

3.4.3 Reptiles

The desk study returned 38 records for adder *Vipera berus*, 82 records for common lizard *Zootoca vivipara*, 18 records for grass snake *Natrix helvetica* and 94 records for slow worm *Anguis fragilis* within 2 km of the site.

No reptiles were identified during the survey. The woodland within the site has potential to provide foraging, resting and hibernating habitat for reptiles, especially for slow worm. The edges of the woodland and the roots of trees may provide basking opportunities for reptiles. The wet ditch network within the surrounding area may support grass snake (which are associated with wet habitats). Overall, the site is considered to have **moderate** potential to support reptiles.

3.4.4 Badger

The desk study returned no records for badgers within 2 km. No evidence of badger was found on site or within 50m of the site boundary, however the woodland habitat within the site could be a habitat of primary importance to local badgers for foraging/shelter. The semi-improved grassland directly adjacent to the south and east of the site is considered to be of secondary importance to badgers. As such, the site has been assessed as being **suitable** for badger foraging and sett building.

3.4.5 Hazel Dormouse

The desk study returned no records of hazel dormouse *Muscardinus avellanarius* within 2 km of the site. The woodland on site provides suitable habitat for dormouse due to a small amount of hazel coppice present (a favoured food source of dormouse), as well as oaks and bramble. Furthermore, the site is well connected to the surrounding area by hedgerows with mature trees. The site is assessed as having a **moderate** potential to support dormouse.

3.4.6 Otter & Water Vole

The desk study returned no records of water vole *Arvicola amphibious* or otter *Lutra lutra* within 2 km of the site.



Otters are considered highly unlikely to be present within the site, as the site is flat and lacks mature trees adjacent to the Mill Bourne Brook. Otters may pass through the Mill Bourne Brook along the southern boundary occasionally and they may also make use of woodland and grassland habitat within 100m of the Mill Bourne Brook occasionally. Water voles are extinct in Surrey therefore the potential for the site to support them is negligible (the habitats are sub optimal as well).

The site is assessed as having a **low** potential to support otter and **negligible** potential to support water vole.

3.4.7 Birds

The desk study returned records for 13 notable bird species within 2 km of the site. There were 7 Birds of Conservation Concern (BoCC) red list species, including house sparrow *Passer domesticus*, song thrush *Turdus philomelos*, cuckoo *Cuculus canorus* and starling *Sturnus vulgaris*; 5 BoCC amber list species, including tawny owl *Strix aluco* and Mallard *Anas platyrhynchos*; and 1 NERC species, woodlark *Lullula arborea*.

The woodland on site provides high value foraging habitat and is suitable to support a range of nesting bird species, such as blue tit *Cyanistes caeruleus* and blackbird *Turdus merula*. The site is also well connected to the surrounding area by hedgerows with mature trees. For this reason, the site has been assessed as having **high potential** to provide nesting and foraging opportunities for a variety of bird species.

3.4.8 Invertebrates

The desk study returned 773 records for notable invertebrate species within 2 km of the site, including 40 NERC species, such as broom moth *Ceramica pisi* and white admiral *Limenitis Camilla*; and 2 W&CA species, silver-studded blue *Plebejus argus* and stag beetle *Lucanus cervus*. The most recent records were in 2019 for brilliant emerald *Somatochlora metallica*, grayling *Hipparchia Semele*, orange-horned nomad Bee *Nomada fulvicornis*, silver-studded blue and stag beetle.

The woodland habitat on site is likely to provide breeding and feeding opportunities for a range of invertebrates, with dead wood within the site with potential to support species such as stag beetle.

3.4.9 Notable Plants

The woodland supports the native English bluebell. Bluebell is a protected species listed under Schedule 8 of the W&CA.

3.4.10 Invasive species

Variegated yellow archangel *Lamiastrum galeobdolon argentatum* and rhododendron *Rhododendron ponticum* were recorded on site during the 2018 SANG Assessment (WYG, 2018). Indian (Himalayan) balsam was recorded within the site, the woodland edge (TN5) and along the wet ditch east of the site (TN3). This species is listed on Schedule 9 of the Wildlife and Countryside Act 1981 (as amended) (W&CA) which makes it an offence 'plant or otherwise cause to grow in the wild".

3.5 IMPORTANCE OF ECOLOGICAL FEATURES

In line with the CIEEM PEA Guidelines, and based on the above baseline information, the importance of each ecological feature recorded within the study area is given in Table 8 below. The categories used are those which are defined in Section 4 of the CIEEM EcIA Guidelines (2018 v1.1):



Table 8: Importance of Ecological Features

Feature	Importance	Rationale
Thursley, Ash, Pirbright	International	Internationally significant heathland habitat and
and Chobham SAC (Chobham Common)	International	supports populations of sand lizard Lacerta agilis and smooth snake Coronella austriaca.
Thursley, Hankley and Frensham Commons SPA	International	Internationally significant populations of heathland breeding birds.
(Chobham Common, Horsell Common)		
Thursley, Hankley and Frensham Commons SSSI	National	Nationally important heathland containing nationally important breeding populations of nightjar Caprimulqus europaeus and Dartford warbler Sylvia
(Chobham Common, Horsell Common)		undatall.
Chobham Common	National	Nationally important heathland and bird, reptile and
NNR		invertebrate populations. It is home to over 100 bird species, 300 species of wildflower, 25 mammal species and 33 species of butterfly.
Chobham Meadows	County	Created to limit human disturbance on the SPA
SANG		mentioned above.
SINC		
Semi-natural broadleaved deciduous woodland	Local	An HPI which may support species such as bats and breeding birds.
Great crested newts	Unknown	Suitable habitat for breeding GCN in the wider area. GCN in their terrestrial stage can be supported by the woodland habitat on site. Further surveys would be needed to clarify their presence.
Reptiles	Unknown	Small numbers of reptiles could be present on site.
Roosting bats	Unknown	Potential roost features on three trees found within the site. Further surveys would be needed to clarify presence of bats.
Commuting and foraging bats	Local	Site is likely to be used by a number of bat species for foraging/commuting.
Badger	Unknown	Suitable habitat for badgers – site could support a small population.
Hazel dormouse	Unknown	Suitable habitat is present on site (coppiced hazel and bramble) Further surveys would be needed to clarify their presence.
Otter	Local	Highly unlikely to use the site but may move through the Mill Bourne Brook south of the site occasionally.



Feature	Importance	Rationale
Birds	Local	Suitable amounts of nesting and foraging habitat for notable and common bird species present.
Common and rare invertebrates	Negligible	Small numbers of common invertebrates and potentially small numbers of notable invertebrates
Invasive non-natives	Negligible	One schedule 9 species present in the wider SANG area and within the site.

Either: International (incl. European) / National / Regional / County / Local / Negligible **Or:** Unknown (i.e. further surveys/information needed)

The potential for the proposals to have adverse or beneficial impacts on these features, along with the need for any mitigation or enhancement measures are discussed in detail below.



4.0 RELEVANT PLANNING POLICY & LEGISLATION

4.1 REVISED NATIONAL PLANNING POLICY FRAMEWORK

A revised NPPF was issued on 19th February 2019 (Ministry of Housing Communities and Local Government, 2019) and currently supplements government Circular *06/2005*, *Biodiversity and Geological Conservation: Statutory Obligations and their Impact within the Planning System* (Office of the Deputy Prime Minister, 2005).

Circular 06/2005 states that the presence of protected species is a material consideration in the planning process. Paragraph 170 of the NPPF also states that:

'Planning policies and decisions should contribute to and enhance the natural environment by:

- a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan)
- b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland
- c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate
- d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures
- e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and
- f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

The conservation and enhancement of wildlife is also specifically reference re: development within the National Parks or the Broads.

Paragraph 175 then goes on to confirm that:

When determining planning applications, local planning authorities should apply the following principles:

- a) if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;
- b) development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;



- development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; and
- d) development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to incorporate biodiversity improvements in and around developments should be encouraged, especially where this can secure measurable net gains for biodiversity.

Regarding EclA's and HRA's – any sites identified, or required, as compensatory measures for adverse effects on any Natura 2000/habitats site should also be given the same level as protection as the pSPA's and cSAC's themselves. In addition, when an application is being determined, Paragraph 177 clarifies that:

"The presumption in favour of sustainable development does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site."

Paragraph 180 is also relevant as;

Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:...

c) limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.

4.2 BIODIVERSITY 2020: A STRATEGY FOR ENGLAND'S WILDLIFE & ECOSYSTEM SERVICES

Biodiversity 2020 (DEFRA, 2011) replaces the previous UK Biodiversity Action Plan and sets national targets to be achieved. The intent of Biodiversity 2020, however, is much broader than the protection and enhancement of less common species, and is meant to embrace the wider countryside as a whole.

The priority species and habitats considered under Biodiversity 2020 are the SPI & HPI detailed under the NERC Act.

4.3 LOCAL BIODIVERSITY ACTION PLAN

LBAPs identify habitat and species conservation priorities at a local level (typically County by County) and are usually drawn up by a consortium of local Government organisations and conservation charities. Although they are no-longer managed at a national level many are still reviewed and updated at a local level.

The Surrey Nature Partnership (2015) website now hosts the information on the former Surrey Biodiversity Action Plan online and in the form of the Biodiversity & Planning in Surrey document, which lists the Priority Species and Habitats in the county.

Surrey priority species/habitats are listed in Tables 9 & 10.

Table 9: SAPs

Species Action Plans	
All Surrey occurring bats	All UK reptiles



Species Action Plans	
Great crested newt	Starling Sturnus vulgaris
Turtle dove Streptopelia turtur	Song thrush Turdus philomelos

Table 10: HAPs

Habitat Action Plans	
Lowland mixed deciduous woodland	Rivers

It should be noted that the existence of an SAP does not always infer an elevated level importance for those features. These plans may be designed to encourage an increase in these habitats/species, rather than to protect a county-scarce feature (for example).

4.4 LOCAL PLAN

The site falls within Surrey Heath Borough Council who adopted their local plan (The Surrey Heath Local Plan 2000) in December 2000. The policies relevant to the site and ecology fall within Section 3: Conservation and Enhancement. Of most relevance is:

Policy G22: Protection of species

Development and other land use changes having an adverse effect on species and habitats protected by appropriate legislation will not be permitted. Where development is permitted which may have an adverse effect on these species, the Borough Council will, through the use of conditions or planning agreements, require the developer to:

- a) Facilitate the survival of individuals of the species; and
- b) Reduce disturbance to a minimum; or
- c) Where it is not possible to retain the species on their current site, to provide adequate alternative habitats

Policy G23: Green corridors

The Borough Council will seek to ensure that any development in the vicinity of green corridors, as shown on the Proposals Map, preserves their landscape character. The Borough Council will encourage, where necessary, the enhancement of the character of the area through landscape design.

Policy G24: Retention of trees

The Borough Council will seek to retain any trees which make a significant contribution to the environment of a site, street or other area. Where retention of trees is not possible, the tree(s) should be replaced with good quality stock of an appropriate species

4.5 LEGISLATION

Full details of the UK legislation and offences which are relevant to the ecological receptors identified are included in Appendix B. However, based on the findings of our assessment, it is considered that the proposals will need to consider the following legal provisions:

- Disturbance or killing of an EPS
- Disturbance of nesting wild birds
- Disturbance of nesting Schedule 1 bird species or their dependant young
- Cause or permit the spread of an invasive species into the wild



5.0 DISCUSSION

5.1 DESIGNATED SITES

It is highly unlikely that the proposed plans will adversely impact upon the designated sites within 2 km of the site. The proposals will enhance the biodiversity of the current Chobham Meadows SANG which the site will become part of. This will aid in reducing pressure on the Thames Basin Heaths SPA which is an internationally important heathland site that supports rare breeding birds such as the Dartford warbler and nightjar. SANGs encourage recreational use outside of the SPA.

5.2 HABITATS

The deciduous woodland qualifies as an HPI habitat under the NERC Act, 2006. The current footpath in the woodland may be made wider to accommodate for more human activity, and human disturbance may increase. This could have a negative impact on the woodland due to increased noise, litter and potentially an increase in dog presence which will disturb wildlife. The woodland area can be enhanced to compensate this by installing dog bins, ensuring there are regular litter picking and installing interpretation boards to educate the public on the local wildlife.

5.2.1 Invasive species

It is advised that the invasive non-native species across the adjacent existing SANG site and within the site are removed to prevent their spread into the wild, as this would be an offence under the W&CA. An invasive species removal plan should be created in order to achieve this with cutting and hand pulling being the most effective method of controlling Indian balsam. Variegated yellow archangel *Lamiastrum galeobdolon argentatum* and rhododendron *Rhododendron ponticum* were recorded on site during the 2018 SANG Assessment (WYG, 2018). These are also invasive species and should be removed accordingly if seen.

5.3 PROTECTED & NOTABLE SPECIES

Only species likely to be affected by the proposals are discussed below.

5.3.1 Roosting bats

T2 has been identified as having high suitability for bats. As T2 will be impacted by delimbing proposals, emergence and return-to-roost surveys should be carried out following the BCT guidelines to confirm presence or likely absence of roosting bats. Three separate survey visits should take place which will be comprised of two dusk emergence and one dawn return-to-roost survey from May to September, inclusive. No works to this tree should take place without further surveys being undertaken.

5.4 ENHANCEMENTS

In line with NPPF and the Surrey Heath Local Plan, the site should be enhanced for biodiversity.

These could include:

- Installation of bat and bird boxes on retained trees.
- Add screening by planting native scrubby woodland species to give privacy to private gardens along the western site boundary (holly *Ilex aquifolium*, hawthorn *Crataegus* monogyna, blackthorn *Prunus spinosa*, dog rose *Rosa canina* and guelder rose *Viburnum* opulus.)
- Leave deadwood or log piles to increase biodiversity of invertebrates.



6.0 SUMMARY

The development is unlikely to have any significant negative effects upon designated sites identified during the desk study. The semi-natural broadleaved deciduous woodland may be affected by increased human disturbance if the site becomes part of the neighbouring SANG. Mitigation is proposed by installing dog waste bins, having regular litter picking and installing interpretation boards. The site has suitability / potential to support the following protected species:

- Roosting bats
- Foraging and commuting bats
- Reptiles
- Otter
- Badger
- Breeding birds; and
- Invertebrates

The site has negligible suitability / potential for all other protected species.

Further surveys include three bat emergence/return-to-roost surveys for T2 to determine the presence of a roost. No work can be done on the tree until surveys have been completed. All invasive species should be removed from site.

The site should be enhanced for biodiversity, enhancements could include screening by planting native species along the western boundary, the inclusion of bat and bird boxes and by leaving log piles and deadwood for invertebrate species.



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Please note that the legislation which is relevant to this report is not included in the list above, but details are included in Appendix B below.



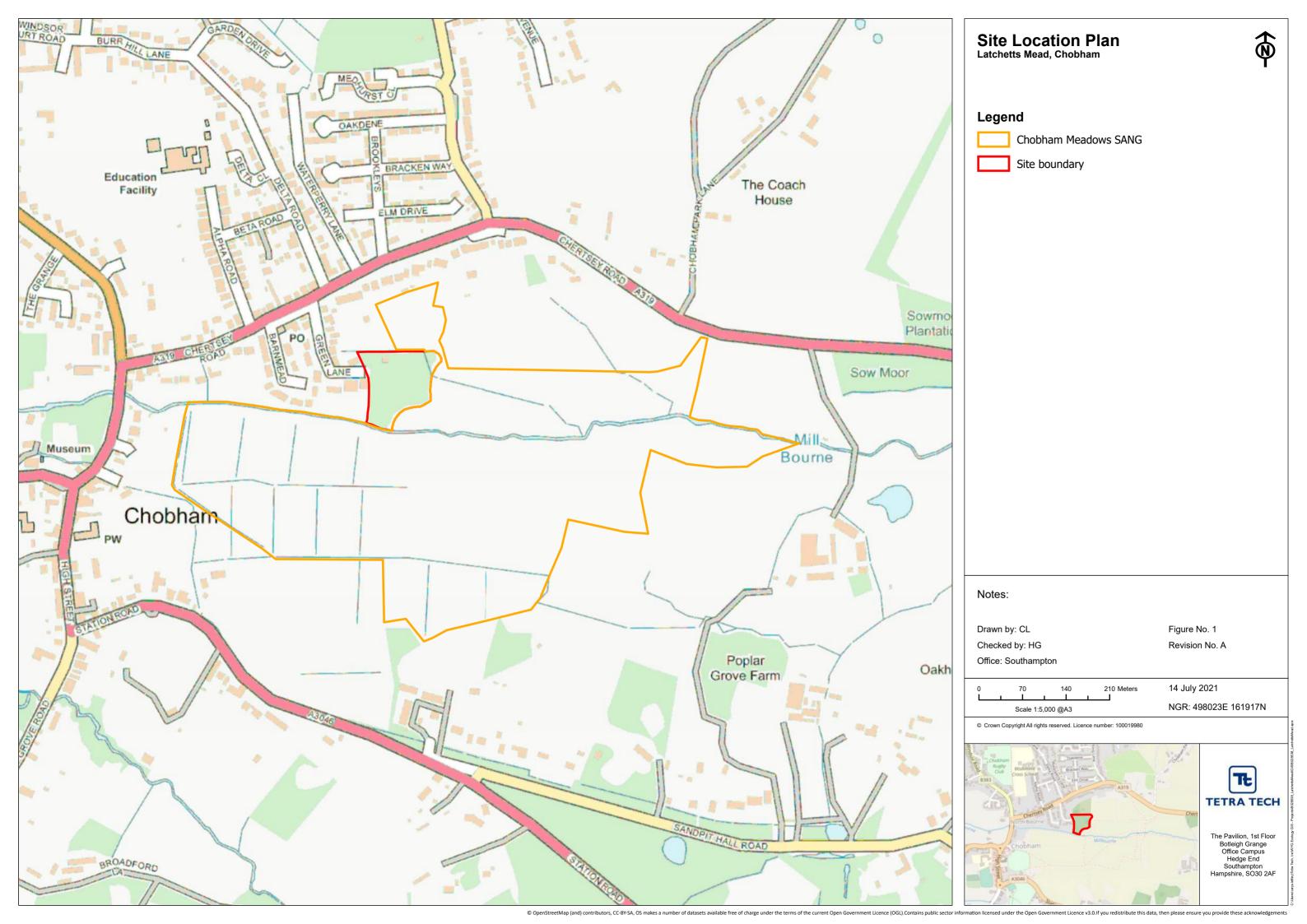
FIGURES

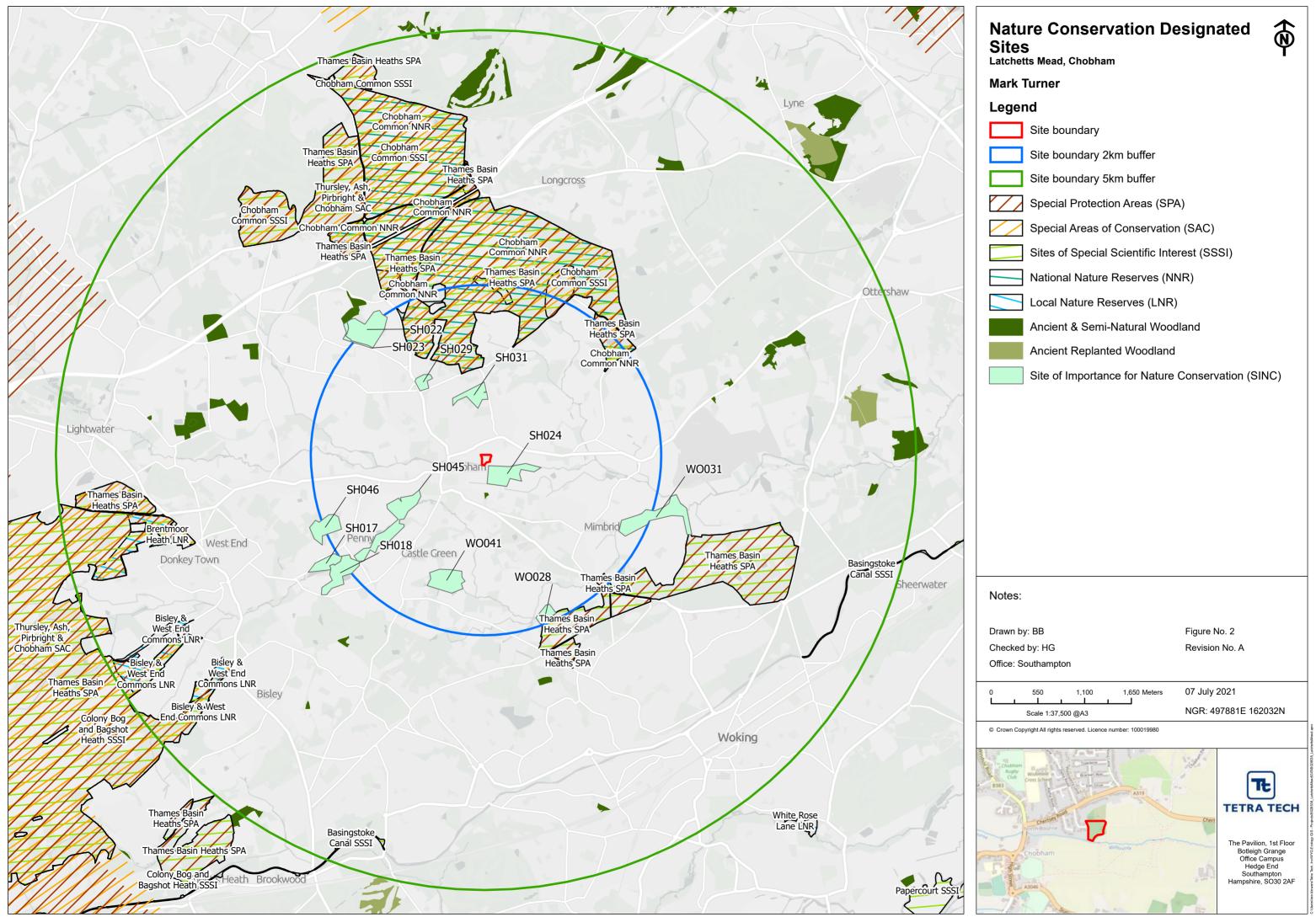
Figure 1 – Site Location Plan

Figure 2 – Nature Conservation Designated Sites

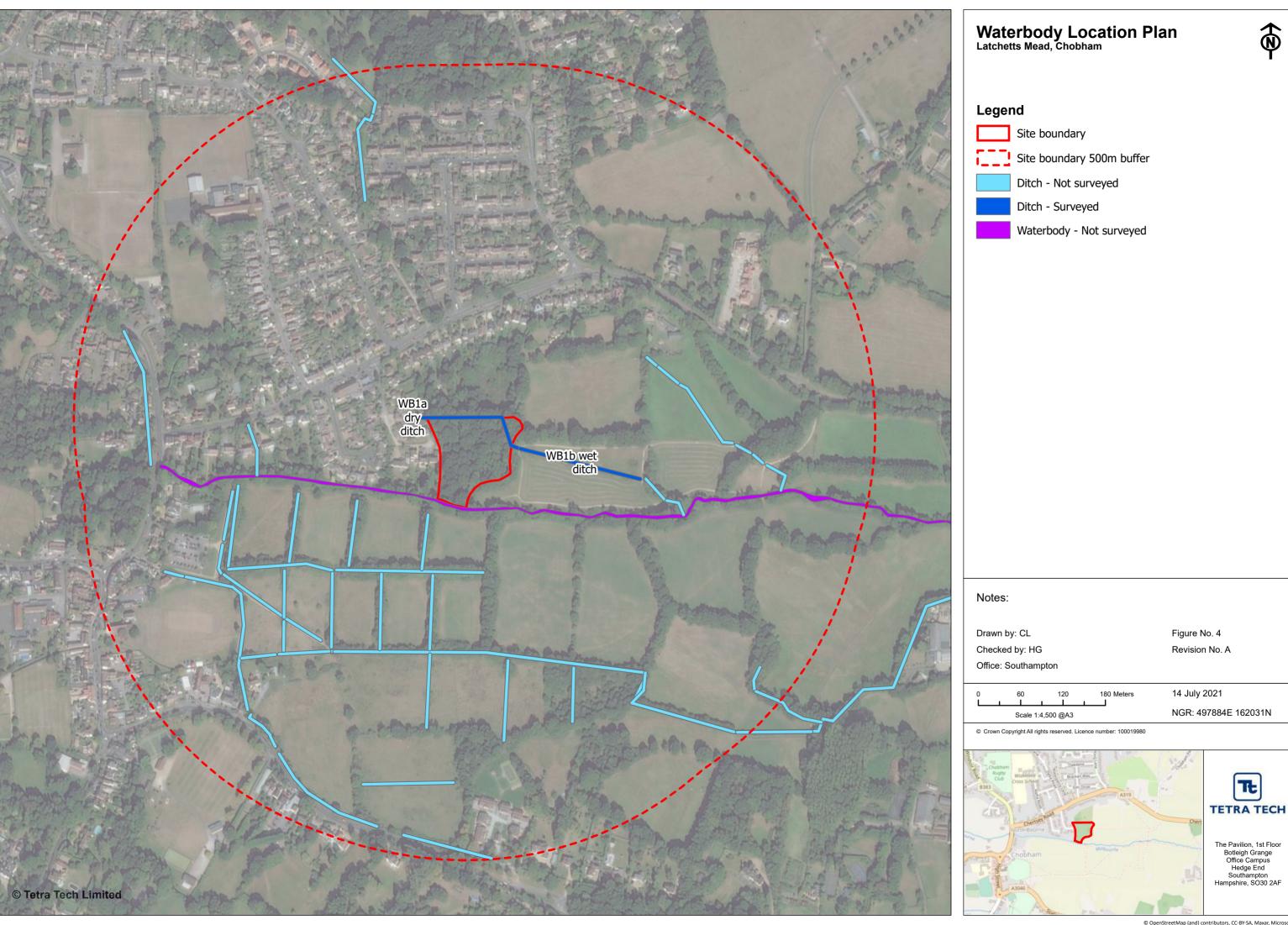
Figure 3 – Phase 1 Habitat Plan

Figure 4 – Waterbody Locations











APPENDIX A - REPORT CONDITIONS

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The report refers, within the limitations stated, to the environment of the site in the context of the surrounding area at the time of the inspections'. Environmental conditions can vary and no warranty is given as to the possibility of changes in the environment of the site and surrounding area at differing times. No investigative method can eliminate the possibility of obtaining partially imprecise, incomplete or not fully representative information. Any monitoring or survey work undertaken as part of the commission will have been subject to limitations, including for example timescale, seasonal and weather-related conditions. Actual environmental conditions are typically more complex and variable than the investigative, predictive and modelling approaches indicate in practice, and the output of such approaches cannot be relied upon as a comprehensive or accurate indicator of future conditions. The "shelf life" of the Report will be determined by a number of factors including; its original purpose, the Client's instructions, passage of time, advances in technology and techniques, changes in legislation etc. and therefore may require future re-assessment.

The whole of the report must be read as other sections of the report may contain information which puts into context the findings in any executive summary.

The performance of environmental protection measures and of buildings and other structures in relation to acoustics, vibration, noise mitigation and other environmental issues is influenced to a large extent by the degree to which the relevant environmental considerations are incorporated into the final design and specifications and the quality of workmanship and compliance with the specifications on site during construction. Tetra Tech accept no liability for issues with performance arising from such factors.



APPENDIX B - KEY LEGISLATION

Bern Convention

The Convention on the Conservation of European Wildlife and Natural Habitats (the Bern Convention) was adopted in Bern, Switzerland in 1979, and was ratified in 1982. Its aims are to protect wild plants and animals and their habitats listed in Appendices 1 and 2 of the Convention, and regulate the exploitation of species listed in Appendix 3. The regulation imposes legal obligations on participating countries to protect over 500 plant species and more than 1000 animals.

To meet its obligations imposed by the Convention, the European Community adopted the *EC Birds Directive* (1979) and the *EC Habitats Directive* (1992 – see below). Since the Lisbon Treaty, in force since 1st December 2009, European legislation has been adopted by the European Union.

Bonn Convention

The Convention on the Conservation of Migratory Species of Wild Animals or 'Bonn Convention' was adopted in Bonn, Germany in 1979 and came into force in 1985. Participating states agree to work together to preserve migratory species and their habitats by providing strict protection to species listed in Appendix I of the Convention. It also establishes agreements for the conservation and management of migratory species listed in Appendix II.

In the UK, the requirements of the convention are implemented via the Wildlife & Countryside Act 1981 (as amended), Wildlife (Northern Ireland) Order 1985 (as amended), Nature Conservation and Amenity Lands (Northern Ireland) Order 1985 and the Countryside and Rights of Way Act 2000 (CRoW).

Habitats Directive

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora, or the 'Habitats Directive', is a European Union directive adopted in 1992 in response to the Bern Convention. Its aims are to protect approximately 220 habitats and 1,000 species listed in its several Annexes.

In the UK, the Habitats Directive is transposed into national law via the Conservation of Habitats and Species Regulations 2017 (as amended) in England and Wales, and via the Conservation (Natural Habitats, etc.) Regulations (Northern Ireland) 1995 (as amended) in Northern Ireland.

Birds Directive

The EC Directive on the Conservation of Wild Birds (791409/EEC) or 'Birds Directive' was introduced to achieve favourable conservation status of all wild bird species across their distribution range. In this context, the most important provision is the identification and classification of Special Protection Areas (SPAs) for rare or vulnerable species listed in Annex 1 of the Directive, as well as for all regularly occurring migratory species, paying particular attention to the protection of wetlands of international importance.

Conservation of Habitats and Species Regulations 2017 (as amended)

Regulations place a duty on the Secretary of State to propose a list of sites which are important for either habitats or species (listed in Annexes I or II of the Habitats Directive respectively) to the European Commission. These sites, if ratified by Ministers, are then designated as Special Protection Areas (SPAs) within six years. Public bodies must also help preserve, maintain and reestablish habitats for wild birds.

The 2018 amendments mainly related to the impact of the *People Over Wind* decision and some implications arising for neighbourhood plan development and a range of other planning tools including Local Development Orders and Permission in Principle – see here for full details:

https://www.legislation.gov.uk/uksi/2018/1307/note/made

The Regulations make it an offence to deliberately capture, kill, disturb or trade in the animals listed in Schedule 2, or pick, uproot, destroy, or trade in the plants listed in Schedule 5 - see below:



Schedule 2 – European Protected Species of Animals	Schedule 5 – European Protected Species of Plants
Horseshoe bats Rhinolophidae - all species	Shore dock Rumex rupestris
Common bats Vespertilionidae - all species	Killarney fern Trichomanes speciosum
Large Blue Butterfly Maculinea arion	Early gentian Gentianella anglica
Wild cat Felis sylvestris	Lady's-slipper Cypripedium calceolus
Dolphins, porpoises and whales Cetacea – all sp.	Creeping marsh-wort Apium repens
Dormouse Muscardinus avellanarius	Slender naiad Najas flexilis
Pool frog Rana lessonae	Fen orchid Liparis loeselii
Sand lizard Lacerta agilis	Floating-leaved water plantain Luronium natans
Fisher's estuarine moth Gortyna borelii lunata	Yellow marsh saxifrage Saxifraga hirculus
Great crested newt Triturus cristatus	
Otter Lutra lutra	
Lesser whirlpool ram's-horn snail <i>Anisus</i>	
Smooth snake Coronella austriaca	
Sturgeon Acipenser sturio	
Natterjack toad <i>Epidalea calamita</i>	
Marine turtles Caretta caretta, Chelonia mydas,	
Lepidochelys kempii, Eretmochelys imbricata,	
Dermochelys coriacea	
Dominounoi y o domace a	

Wildlife & Countryside Act 1981 (as amended)

This is the principal mechanism for the legislative protection of wildlife in the UK. This legislation is the chief means by which the 'Bern Convention' and the Birds Directive are implemented in the UK. Since it was first introduced, the Act has been amended several times.

The Act makes it an offence to (with exception to species listed in Schedule 2) intentionally:

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

Or to intentionally do the following to a wild bird listed in Schedule 1:

- disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or
- · disturbs dependent young of such a bird.

In addition, the Act makes it an offence (subject to exceptions) to:

- intentionally or recklessly kill, injure or take any wild animal listed on Schedule 5;
- interfere with places used for shelter or protection, or intentionally disturbing animals occupying such places; and
- The Act also prohibits certain methods of killing, injuring, or taking wild animals.

Finally, the Act also makes it an offence (subject to exceptions) to: intentionally pick, uproot or destroy any wild plant listed in Schedule 8, or any seed or spore attached to any such wild plant; unless an authorised person, intentionally uproot any wild plant not included in Schedule 8; or sell, offer or expose for sale, or possess (for the purposes of trade), any live or dead wild plant included in Schedule 8, or any part of, or anything derived from, such a plant.

Following all amendments to the Act, Schedule 5 'Animals which are Protected' contains a total of 154 species of animal, including several mammals, reptiles, amphibians, fish and invertebrates. Schedule 8 'Plants which are Protected' of the Act, contains 185 species, including higher plants, bryophytes and fungi and lichens. A comprehensive and up-to-date list of these species can be obtained from the JNCC website.

Part 14 of the Act makes unlawful to plant or otherwise cause to grow in the wild any plant which is listed in Part II of Schedule 9.

It is recommended that plant material of these species is disposed of as bio-hazardous waste, and these plants should not be used in planting schemes.



	hich are protected by spec	riai portaitioo	
Avocet	Recurvirostra avosetta	Osprey	Pandion haliaetus
Bee-eater	Merops apiaster	Owl, Barn	Tyto alba
Bittern	Botaurus stellaris	Owl, Snowy	Nyctea scandiaca
Bittern, Little	Ixobrychus minutus	Peregrine	Falco peregrinus
Bluethroat	Luscinia svecica	Petrel, Leach's	Oceanodroma leucorhoa
Brambling	Fringilla montifringilla	Phalarope, Red-necked	Phalaropus lobatus
Bunting, Cirl	Emberiza cirlus	Plover, Kentish	Charadrius alexandrinus
Bunting, Lapland	Calcarius Iapponicus	Plover, Little Ringed	Charadrius dubius
Bunting, Snow	Plectrophenax nivalis	Quail, Common	Coturnix coturnix
Buzzard, Honey	Pernis apivorus	Redstart, Black	Phoenicurus ochruros
Capercaillie	Tetrao urogallus	Redwing	Turdus iliacus
Chough	Pyrrhocorax pyrrhocorax	Rosefinch, Scarlet	Carpodacus erythrinus
Corncrake	Crex crex	Ruff	Philomachus pugnax
Crake, Spotted	Porzana porzana	Sandpiper, Green	Tringa ochropus
Crossbills (all species)	Loxia	Sandpiper, Purple	Calidris maritima
Curlew, Stone	Burhinus oedicnemus	Sandpiper, Wood	Tringa glareola
Divers (all species)	Gavia	Scaup	Aythya marila
Divers (all species) Dotterel	Gavia Charadrius morinellus	Scaup Scoter, Common	Melanitta nigra
Duck, Long-tailed	Clangula hyemalis	Scoter, Velvet	Melanitta fusca
Eagle, Golden	Aquila chrysaetos Haliaetus albicilla	Serin	Serinus serinus
Eagle, White-tailed		Shorelark	Eremophila alpestris
Falcon, Gyr	Falco rusticolus	Shrike, Red-backed	Lanius collurio
Fieldfare	Turdus pilaris	Spoonbill	Platalea leucorodia
Firecrest	Regulus ignicapillus	Stilt, Black-winged	Himantopus himantopus
Garganey	Anas querquedula	Stint, Temminck's	Calidris temminckii
Godwit, Black-tailed	Limosa limosa	Swan, Bewick's	Cygnus bewickii
Goshawk	Accipiter gentilis	Swan, Whooper	Cygnus cygnus
Grebe, Black-necked	Podiceps nigricollis	Tern, Black	Chlidonias niger
Grebe, Slavonian	Podiceps auritus	Tern, Little	Sterna albifrons
Greenshank	Tringa nebularia	Tern, Roseate	Sterna dougallii
Gull, Little	Larus minutus	Tit, Bearded	Panurus biarmicus
Gull, Mediterranean	Larus melanocephalus	Tit, Crested	Parus cristatus
Harriers (all species)	Circus	Tree-creeper, Short-toed	Certhia brachydactyla
Heron, Purple	Ardea purpurea	Warbler, Cetti's	Cettia cetti
Hobby	Falco subbuteo	Warbler, Dartford	Sylvia undata
Hoopoe	Upupa epops	Warbler, Marsh	Acrocephalus palustris
Kingfisher	Alcedo atthis	Warbler, Savi's	Locustella luscinioides
Kite, Red	Milvus milvus	Whimbrel	Numenius phaeopus
Merlin	Falco columbarius	Woodlark	Lullula arborea
Oriole, Golden	Oriolus oriolus	Wryneck	Jynx torquilla
	Species Listed in Schedule		
Horseshoe Bats (all	Rhinolophidae	Newt – Great Crested	Triturus cristatus
•	Kriirioiopriidae	Newt – Great Crested	Titurus Cristatus
species)	Vespertilionidae	Snake – Smooth	Coronella austriaca
Typical Bats (all	vesperillionlidae	Shake - Shiooth	Coronella austriaca
Species)	Turning truncatus (turns:-1	Tood Nottorical	Enidolog oslamita
Dolphin – Bottle-nosed	Tursiops truncatus (tursio)	Toad, Natterjack	Epidalea calamita
Dolphin – Common	Delphinus delphis	Turtles – All Species	Cheloniidae &
Dormougo Hezel	Museerdinus evellenerius	Poolsing Charle	Dermochelyidae
Dormouse – Hazel	Muscardinus avellanarius	Basking Shark	Cetorhinus maximus
Pine Marten	Martes martes	Burbot	Lota lota
Porpoise – Harbour	Phocaena phocaena	Goby – Giant	Gobius cobitis
Otter – Eurasian	Lutra lutra	Goby – Couch's	Gobius couchii
Squirrel – Red	Sciurus vulgaris	Seahorse – Short-	Hippocampus
		snouted ¹	hippocampus
Walrus	Odobenus rosmarus	Seahorse – Spiny	Hippocampus guttulatus
Water Vole	Arvicola amphibius	Sturgeon	Acipenser sturio
Whales – All Species	Cetacea	Vendace	Coregonus albula

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¹ Both sea horse species are protected in England only.



Lizard – Sand Lacerta agilis Animal (Vertebrate) Species Protected under Section 9 (1) part: Killing and Injuring & Sect 9 (5) Sale Adder Vipera berus Slow-worm Anguis fragilis Lizard – Viviparous Zootoca vivipara Snake – Grass Natrix helvetica (natr Animals (Vertebrate) Species Protected under Section 9 (5) Sale only Frog – common Rana temporaria Newt – Smooth Lissotriton vulgaris Newt – Palmate Lissotriton helvetica Toad – Common Bufo bufo Animals (Vertebrate) Species Protected under Section 9 (1) (4)a): Killing, Injuring & Takin and Damage / Destruction of place of shelter / protection only Allis Shad Alosa alosa Shark – Angel Squatina squatina Twaite Shad Alosa fallax Butterflies & Moths – Full Protection under Schedule 5² at all times High brown fritillary Argynnis adippe Fisher's Estuarine Moth Gortyna borelii Large Blue Macullinea arion Barberry Carpet Pareulype berberata Heath Fritillary Mellica athalea Black-veined Moth Siona lineata Marsh Fritillary Eurodryas aurinia Sussex Emerald Thalera fimbrialis Swallowtail Papilio machaon britannicus Essex Emerald Theidia smaragdaris Large Copper Lycaena dispar Fiery Clearwing Bembecia chrysidifor Reddish-buff Moth Acosmetia caliginosa New-Forest Burnet Zygaena viciae Butterflies – Protected under Section 9 (5) Sale Only Purple Emperor Apatura iris Adonis Blue Lysandra bellargus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Lysandra bellargus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Lysandra coridon Mentaria iris Adonis Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argus Aricia artaxerxes Chalkhill Blue Plebejus argus Northern Brown Argu	1-14	Falls and readile	\A/I- '4 - £' - I-	0
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Newt - Palmate Lissotriton helvetica Toad - Common Bufo bufo	imals (Vertebrate)	Species Protected under S	Section 9 (5) Sale only	
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	olet Click-beetle	Limoniscus violaceus	Freshwater Pearl Mussel	Margaritifera
				margaritifera
Bembridge Beetle Parcymus aeneus Glutinous Snail Myxas glutinosa	mbridge Beetle	Parcymus aeneus	Glutinous Snail	
New Forest Cicada Cicadetta montana Lagoon Snail Paludinella littorina	w Forest Cicada	Cicadetta montana		
Wart-Biter Decticus verrucivorus Lagoon Sea Slug Tenellia adspersa	art-Biter	Decticus verrucivorus		Tenellia adspersa
Mole-Cricket Gryllotalpa gryllotalpa Northern Hatchet-shell Thyasira gouldi	le-Cricket	Gryllotalpa gryllotalpa		Thyasira gouldi
Field-Cricket Gryllus campestris Tentacled Lagoon-worm Alkmaria romijni	ld-Cricket	Gryllus campestris	Tentacled Lagoon-worm	
Norfolk Hawker Aeshna isosceles Lagoon Sand-worm Armandia cirrhosa	rfolk Hawker		Lagoon Sand-worm	Armandia cirrhosa
Dragonfly				
Southern Damselfly Coenagrion mercuriale Medicinal Leech Hirudo medicinalis	uthern Damselfly	Coenagrion mercuriale	Medicinal Leech	
Fen Raft Spider Dolomedes fimbriatus Marine Hydroid Clavopsella navis	n Raft Spider	Dolomedes fimbriatus	Marine Hydroid	Clavopsella navis
Ladybird Spider Eresus niger (cinaberinus) Ivell's Sea Anemone Edwardsia ivelli		Eresus niger (cinaberinus)	Ivell's Sea Anemone	Edwardsia ivelli
				Nematosella vectensis
Lagoon Sand Shrimp Gammarus insensibilis Atlantic Stream (White- Austropotamobius				
clawed) Crayfish pallipes	· .			
Other Invertebrates Protected under Section 9 (1) Possession & 9 (2) (5) Sale only	her Invertebrates F	rotected under Section 9 (
Stag Beetle Lucanus cervus Roman Snail ³ Helix pomatia				

 $^{^2}$ Viper's Bugloss Moth *Hadena irregularis* was removed from Schedule 5 in 1996 as it is believed to be extinct.

³ England only



Fan Mussel	Atrina fragilis	Pink Sea-fan	Eunicella verrucosa
Other Invertebrates F	Protected under Section 9	(4) (a) Damage / Destruc	ction of Place of
Shelter / Protection only			
Mire Pill Beetle	Curimopsis nigrita		
Vascular Plant Speciname in brackets)	es - Full Protection under	Schedule 8 at all times	(previous Scientific
Adder's-tongue Least	Ophioglossum lusitanicum	Lily - Snowdon	Gagea serotina (Lloydia serotina)
Alison- Small	Alyssum alyssoides	Marsh-mallow – Rough	Malva setigera (Althaea hirsuta)
Broomrape – Bedstraw	Orobanche caryophyllacea	Milk-parsley – Cambridge	Selinum carvifolia
Broomrape – Oxtongue	Orobanche picridis	Mudwort – Welsh	Limosella aquatica
Broomrape - Thistle	Orobanche reticulata4	Naiad – Holly-leaved	Najas marina
Cabbage – Lundy	Coincya wrightii (Rhynchosinapis wrightii)	Orache – Stalked	Atriplex pedunculata (Halimione pedunculata)
Calamint – Wood	Clinopodium menthifolium (Calamintha sylvatica)	Orchid – Early Spider	Ophrys sphegodes
Catchfly – Alpine	Silene suecica (Lychnis alpina)	Orchid – Ghost	Epipogium aphyllum
Centaury – Slender	Centaurium tenuiflorum	Orchid – Lapland Marsh	Dactylorhiza lapponica
Cinquefoil – Rock	Potentilla rupestris	Orchid – Late Spider	Ophrys fuciflora
Clary – Meadow	Salvia pratensis	Orchid – Lizard	Himantoglossum hircinum
Club-rush – Triangular	Schoenoplectus triqueter (Scirpus triqueter)	Orchid – Military	Orchis militaris
Colt's-foot – Purple	Homogyne alpina	Orchid – Monkey	Orchis simia
Cotoneaster – Wild	Cotoneaster cambricus (C. integerrimus)	Pear – Plymouth	Pyrus cordata
Cotton-grass – Slender	Eriophorum gracile	Pennycress – Perfoliate	Microthlaspi perfoliatum (Thlaspi perfoliatum)
Cow-wheat – Field	Melampyrum arvense	Pennyroyal	Mentha pulegium
Crocus – Sand	Romulus columnae	Pigmyweed	Crassula aquatica
Cudweed – Broad- leaved	Filago pyramidata	Pine - Ground	Ajuga chamaepitys
Cudweed – Jersey	Gnaphalium luteoalbum	Pink – Cheddar	Dianthus gratianopolitanus
Cudweed – Red-tipped	Filago lutescens	Pink – Childing	Petrorhagia nanteuilii
Cut-grass	Leersia oryzoides	Ragwort – Fen	Jacobaea paludosa (Senecio paludosa)
Deptford Pink	Dianthus armeria	Ramping-fumitory – Martin's	Fumaria reuteri (F. martinii)
Diapensia	Diapensia lapponica	Rampion – Spiked	Phyteuma spicata
Eryngo – Field	Eryngium campestre	Restharrow – Small	Ononis reclinata
Fern – Dickie's-bladder	Cystopteris dickieana	Rock-cress – Alpine	Arabis alpina
Fleabane – Alpine	Erigeron borealis	Rock-cress – Bristol	Arabis scabra
Fleabane – Small	Pulicaria vulgaris	Sandwort – Norwegian	Arenaria norvegica ⁵
Galingale – Brown	Cyperus fuscus	Sandwort – Teesdale	Minuartia stricta
Gentian - Alpine Gentian - Dune	Gentiana nivalis Gentianella amarella subsp. occidentalis (Gentianella uliginosa)	Saxifrage – Drooping Saxifrage – Tufted	Saxifraga cernua Saxifraga cespitosa
Gentian – Fringed	Gentianopsis ciliata (Gentianella ciliata)	Solomon's-seal – Whorled	Polygonatum verticillatum
Gentian - Spring	Gentiana verna	Sow-thistle – Alpine	Cicerbita alpina
Germander – Cut- leaved	Teucrium botrys	Spearwort – Adder's- tongue	Ranunculus ophioglossifolius
Germander – Water	Teucrium scordium	Speedwell – Fingered	Veronica triphyllos

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 $^{^4}$ The Weeds Act 1959 does not apply to thistles $\it Cirsium$ & $\it Carduus$ species supporting this broomrape.

⁵ All subspecies occurring in the UK



Gladiolus – Wild	Gladiolus illyricus	Speedwell – Spiked	Veronica spicata ⁶
Goosefoot – Stinking	Chenopodium vulvaria	Spike-rush – Dwarf	Eleocharis parvula
Grass-poly	Lythrum hyssopifolia	South-stack Fleawort	Tephroseris integrifolia ssp. maritima
Hare's-ear – Sickle- leaved	Bupleurum falcatum	Star-of-Bethlehem – Early	Gagea bohemica
Hare's-ear – Small	Bupleurum baldense	Starfruit	Damasonium alisma
Hawk's-beard – Stinking	Crepis foetida	Strapwort	Corrigiola littoralis
Hawkweed – Northroe	Hieracium northroense	Violet – Fen	Viola persicifolia
Hawkweed – Shetland	Hieracium zetlandicum	Viper's-grass	Scorzonera humilis
Hawkweed – Weak- leaved	Hieracium attenuatifolium	Water-plantain – Ribbon- leaved	Alisma gramineum
Heath – Blue	Phyllodoce caerulea	Wood-sedge – Starved	Carex depauperata
Helleborine – Red	Cephalanthera rubra	Woodsia – Alpine	Woodsia alpina
Horsetail – Branched	Equisetum ramosissimum	Woodsia – Oblong	Woodsia ilvensis
Hound's-tongue – Green	Cynoglossum germanicum	Wormwood – Field	Artemisia campestris
Knawel – Perennial	Scleranthus perennis ⁷	Woundwort - Downy	Stachys germanica
Knot-grass – Sea	Polygonum maritimum	Woundwort – Limestone	Stachys alpina
Leek – Round-headed	Allium sphaerocephalon	Yellow-rattle – Greater	Rhinanthus angustifolius
Lettuce – Least	Lactuca saligna		
Vascular Plant Speci	ies - Partial Protection und	ler Section 13 (2) Protec	tion from commercial
exploitation and sale		,	
Bluebell	Hyacinthoides non-scripta		
Bryophytes - Full Pr	otection under Schedule 8	at all times	
Anamodon – Long- leaved	Anomodon langifolius	Flamingo Moss	Desmatodon cernuus
Blackwort	Southbya nigrella	Frostwort	Gymnomitrion apiculatum
Crystalwort – Lizard	Riccia bifurca	Glaucous Beard Moss	Barbula glauca
Earwort – Marsh	Jamesoniella undulifolia	Green Shield Moss	Buxbaumia viridis
Feathermoss – Polar	Hygrohypnum polare	Hair Silk Moss	Plagiothecium piliferum
Flapwort – Norfolk	Leiocolea rutheana	Knothole Moss	Zygodon forsteri
Grimmia – Blunt- leaved	Grimmia unicolor	Large Yellow Feather Moss	Scorpidium turgescens
Petalwort	Petalophyllum ralfsii	Millimetre Moss	Micromitrium tenerum
Lindenberg's Leafy- Liverwort	Adelanthus lindenbergianus	Multi-fruited River Moss	Cryphaea lamyana
Feather-moss Slender Green	Drepanocladus vernicosus	Nowell's Limestone Moss	Zygodon gracilis
Alpine Copper-Moss	Mielichoferia meilicoferia	Rigid Apple Moss	Bartramia stricta
Baltic Bog-Moss	Sphagnum balticum	Round-leaved feather Moss	Rhynchostegium rotundifolium
Blue Dew-Moss	Saelania glaucescens	Schleicher's Thread Moss	Bryum schleicheri
Blunt-leaved bristle- Moss	Orthotrichum obtusifolium	Triangular Pygmy Moss	Acaulon triquetrum
Bright-Green Cave- Moss	Cyclodictyon laetevirens	Turpswort	Geocalyx graveolens
Cordate Beard Moss	Barbula cordata	Vaucher's Feather Moss	Hypnum vaucheri
Cornish Path Moss	Ditrichum cornubicum	Western Rustwort	Marsupella profunda
Derbyshire Feather Moss	Thamnobryum angustifolium		
Stoneworts – Full Protection under Schedule 8 at all times			
Bearded Stonewort	Chara canescens	Foxtail Stonewort	Lamprothamnium
Dograda Otoriowort	Chara canococho	. Oxidii Otoriowort	papullosum

⁶ Both subspecies: *spicata* & *hybrida*

⁷ Includes both subspecies: *perennis* & *prostratus*



Tree Catapyrenium Catapyrenium psoromoides Catillaria Catillaria laurei Convoluted Cladonia Cladonia convoluta Upright Mountain Cladonia Stricta Catolechia wahlenbergii Tam Lecanora Coper Lecidea Lecidea inops Catillaria laurei Coper Lecidea Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Elm Gyalecta Umi Tam Lecanora Coper Lecidea Lecidea inops Ciliate Strap Lichen Nephroma arcticum Ciliate Strap Lichen Heterodermia leucomelos Coralloid Rosette Lichen Ear-lobed Dog Lichen Peltigera lepidophora Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Alexanders, Perfoliate Smyrnium perfoliatum Kelp, Japanese Laminaria japonica Knotweed, Hybrid Reynoutria (Fallopia, 3en) as the sing paponica x sachalines Knotweed, Hybrid Reynoutria (Fallopia, 3en) as the sing paponica x sachalines Royal Royal Sargentatum Knotweed, Hybrid Reynoutria (Fallopia, 3en) as the sing paponica x sachalines Royalonica x sachalines	Lichens - Full Protec	tion under Schedule 8 at a	II times	
Tree Catapyrenium Catapyrenium psoromoides Lichen Laurer's Catillaria Catillaria laurei River Jelly Lichen Convoluted Cladonia Cladonia convoluta Upright Mountain Catolenia stricta Catolenia stricta Catolenia stricta Catolenia wahlenbergii Catolenia wahlenbergii Elm Gyalecta Gyalecta ulmi Carona archariana Capper Lecidea Lecanora Lecanora archariana Capper Lecidea Lecidea inops Capper Lecidea Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Coralloid Rosette Lichen Lichen Feltigera lepidophora Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Archangel, Variegated Lamiastrum galeobdolon Rustony Alpine Reynoutria (Fallopia Sachalinensis Archangel, Variegated Lamiastrum galeobdolon Sulpan Knotweed, Japanese Laminaria japonica Archangel, Variegated Lamiastrum galeobdolon Reynoutria (Fallopia japonica vasachaline Knotweed, Japanese Laminaria japonica Reynoutria (Fallopia japonica vasachaline Reynoutria (Fallopia japonica Reynoutria (Fallopia japonica Reynoutria (Fallopia japonica Reynoutria (Fallopia japonica Cotoneaster, Mall Cotoneaster integrifolius Lotoneaster, Cotoneaster integrifolius Cotoneaster, Cotoneaster microphyllus Cotoneaster, Cotoneaster microphyllus Cotoneaster, Cotoneaster microphyllus Cotoneaster, Cotoneaster microphyllus Cotoneaster, Sagitaria latifolia		Enterographa elaborata	Forked Hair Lichen	Bryoria furcellata
Lichen Convoluted Cladonia Catillaria laurei Convoluted Cladonia Cladonia convoluta Starry Breck Lichen Buellia asterella Upright Mountain Cladonia stricta Caledonia Pannaria Catillaria laurei Cadonia Cladonia Coblin Lights Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Cindonia Cladonia Coblin Lights Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Coli Stain Parmentaria Parmentaria chilens Tarn Lecanora Lecanora archariana Copper Lecidea Lecidea lonps Ragged Pseudo- Cyphellaria Iacerata Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Psora rubiformis Ciliate Strap Lichen Heterodermia leucomelos Coralloid Rosette Lichen Lichen Ear-lobed Dog Lichen Peltigera lepidophora Sulphur Tresses Alectoria ochroleuca Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Oak Polypore Buglossosporus puh Hedgehog Fungus Hericium erinaceum Algae, Red Grateloupia luxurians Archangel, Variegated Lamiastrum galeobdolon Sulphur Tresse Reynoutria (Fallopia Sachallinensis Archangel, Variegated Lamiastrum galeobdolon Sulphur Montrola Reynoutria (Fallopia Japonica x sachaline Reynoutria (Fallopia Japonica x sachalinensis Archangel, Variegated Lamiastrum galeobdolon Subsp. argentatum Knotweed, Hybrid Reynoutria (Fallopia Japonica x sachalinensis Archangel, Variegated Lamiastrum galeobdolon Subsp. argentatum Knotweed, Japanese Reynoutria (Fallopia Japonica x sachalinensis Archangel, Variegated Cotoneaster, Wall Cotoneaster integrifolius Balsam, Himalayan Impatiens glandulifera Leek, Few-flowered Allium paradoxum Cotoneaster, Cotoneaster integrifolius Parrot's Feather Myriophyllum aquati Himalayan Cotoneaster, Cotoneaster simonsii Parrot's Feather Myriophyllum aquati	Snow Caloplaca	Caloplaca nivalis	Golden Hair Lichen	Teloschistes flavicans
Convoluted Cladonia Cladonia convoluta Upright Mountain Cladonia stricta Caledonia Pannaria Pannaria ignobilis Cadonia Goblin Lights Catolechia wahlenbergii Royalecta Gyalecta Ulmi Cili Stain Parmentaria Caledonia Pannaria Parmelia minarum Cili Stain Parmelia Parmelia minarum Cili Stain Parmentaria Parmelia minarum Cili Stain Parmentaria Parmelia minarum Cili Stain Parmentaria Parmelia minarum Pannaria ignobilis Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Cili Stain Parmentaria Parmentaria chillens Physcia tribacioides Copper Lecidea Lecidea inops Ragged Pseudo- cyphellaria lacerata Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Calicium conynellum Ciliate Strap Lichen Heterodermia leucomelos Rock Nail Calicium conynellum Coralloid Rosette Lichen Heterodermia propagulifera Lichen Caralloid Rosette Lichen Peltigera lepidophora Sulphur Tresses Alectoria ochroleuca Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Qak Polypore Buglossosporus puln Hedgehog Fungus Hericium erinaceum Sandy Stilt Ball Battaria phalloides Invasive plant species listed in Schedule 9 Alexanders, Perfoliate Algae, Red Grateloupia luxurians Knotweed, Giant Reynoutria (Fallopia sachalinensis Archangel, Variegated Lamiastrum galeobdolon Subsp. argentatum Azalea, Yellow Rhododendron luteum Knotweed, Japanese Reynoutria (Fallopia japonica Reynoutria (Fallopia japonica Balsam, Himalayan Impatiens glandulifera Leek, Few-flowered Allium paradoxum Cotoneaster, Wall Cotoneaster horizontalis Lettuce, water Pistia stratiotes Cotoneaster, Cotoneaster integrifolius Pennywort, Floating Hydrocotyle ranunculoides Cotoneaster, Sagitaria latifolia	Tree Catapyrenium	Catapyrenium psoromoides		Caloplaca luteoalba
Upright Mountain Cladonia Stricta Cladonia Pannaria Cladonia Coblin Lights Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Elm Gyalecta Gyalecta ulmi Oil Stain Parmentaria Parmentaria chilensi Tarn Lecanora Lecanora archariana Southem Grey Physcia Physcia tribacioides Copper Lecidea Lecidea inops Ragged Pseudo- cyphellaria lacerata Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Ragged Pseudo- cyphellaria lacerata Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Ragged Pseudo- cyphellaria lacerata Arctic Kidney Lichen Reterodermia leucomelos Rock Nail Calicium corynellum Coralloid Rosette Heterodermia propagulifera Lichen Ear-lobed Dog Lichen Peltigera lepidophora Sulphur Tresses Alectoria ochroleuca Lichens – Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi – Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Dak Polypore Buglossosporus puh Hedgehog Fungus Hericium erinaceum Sandy Stilt Ball Battaria phalloides Invasive plant species listed in Schedule 9 Alexanders, Perfoliate Smyrnium perfoliatum Kelp, Japanese Laminaria japonica Algae, Red Grateloupia luxurians Knotweed, Giant Reynoutria (Fallopia) sachalinensis Archangel, Variegated Lamiastrum galeobdolon Subsp. argentatum Rhododendron luteum Knotweed, Japanese Reynoutria (Fallopia) japonica Balsam, Himalayan Impatiens glandulifera Leek, Few-flowered Allium paradoxum Cotoneaster, Wall Cotoneaster horizontalis Lettuce, water Pistia stratiotes Crocosmia x crocosmiillora Cotoneaster, Cotoneaster simonsii Parrot's Feather Myriophyllum aquati Himalayan Cotoneaster, Cotoneaster bullatus Pennywort, Floating Hydrocotyle ranunculoides Cotoneaster, Small- Cotoneaster microphyllus Potato, Duck	Laurer's Catillaria	Catillaria laurei	River Jelly Lichen	Collema dichotomum
Ciadonia Goblin Lights Catolechia wahlenbergii New Forest Parmelia Parmelia minarum Elm Gyalecta Gyalecta ulmi Oil Stain Parmentaria Parmentaria chilens, Tarn Lecanora Lecanora archariana Southern Grey Physcia Physcia tribacioides Copper Lecidea Lecidea inops Ragged Pseudo- cyphellaria lacerata Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Psora rubiformis Ciliate Strap Lichen Heterodermia leucomelos Rock Nail Calicium corynellum Coralloid Rosette Heterodermia leucomelos Rock Nail Calicium corynellum Coralloid Rosette Heterodermia propagulifera Lichen Ear-lobed Dog Lichen Peltigera lepidophora Sulphur Tresses Alectoria ochroleuca Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Oak Polypore Buglossosporus puh Hedgehog Fungus Hericium erinaceum Sandy Stilt Ball Battaria phalloides Invasive plant species listed in Schedule 9 Alexanders, Perfoliate Smyrnium perfoliatum Kelp, Japanese Laminaria japonica Algae, Red Grateloupia luxurians Knotweed, Giant Reynoutria (Fallopia sachalinensis Archangel, Variegated Lamiastrum galeobdolon Yellow Subsp. argentatum Knotweed, Hybrid Reynoutria (Fallopia japonica x sachalinensis Archangel, Variegated Lamiastrum galeobdolon Knotweed, Japanese Reynoutria (Fallopia japonica x sachalinensis Acchoneaster, Wall Cotoneaster horizontalis Lettuce, water Pistia stratiotes Cotoneaster, Entire- Cotoneaster integrifolius Montbretia Crocosmia x crocosmiiflora Cotoneaster, Cotoneaster simonsii Parrot's Feather Myriophyllum aquatificane Cotoneaster, Cotoneaster bullatus Pennywort, Floating Hydrocotyle ranunculoides Cotoneaster, Small- Cotoneaster, Small- Cotoneaster microphyllus Potato, Duck Sagittaria latifolia	Convoluted Cladonia	Cladonia convoluta		
Elm Gyalecta		Cladonia stricta	Caledonia Pannaria	Pannaria ignobilis
Tarn Lecanora		Catolechia wahlenbergii	New Forest Parmelia	Parmelia minarum
Copper Lecidea	•			Parmentaria chilensis
Arctic Kidney Lichen Nephroma arcticum Rusty Alpine Psora Psora rubiformis Ciliate Strap Lichen Heterodermia leucomelos Rock Nail Calicium corynellum Scrpentine Selanopsora Selanopsora liparina Lichen Bar-lobed Dog Lichen Peltigera lepidophora Sulphur Tresses Alectoria ochroleuca Lichens - Partial Protection under Section 13 (2) Commercial Exploitation and Sale Only Tree Lungwort Lobaria pulmonaria Fungi - Full Protection under Schedule 8 at all times Royal Bolete Boletus regius Oak Polypore Buglossosporus pulh Hedgehog Fungus Hericium erinaceum Sandy Stilt Ball Battaria phalloides Invasive plant species listed in Schedule 9 Alexanders, Perfoliate Smyrnium perfoliatum Kelp, Japanese Laminaria japonica Algae, Red Grateloupia luxurians Knotweed, Giant Reynoutria (Fallopia sachalinensis) Archangel, Variegated Lamiastrum galeobdolon Knotweed, Hybrid Reynoutria (Fallopia japonica x sachaline Azalea, Yellow Rhododendron luteum Knotweed, Japanese Reynoutria (Fallopia japonica Balsam, Himalayan Impatiens glandulifera Leek, Few-flowered Allium paradoxum Cotoneaster, Wall Cotoneaster horizontalis Lettuce, water Pistia stratiotes Cotoneaster, Cotoneaster simonsii Parrot's Feather Myriophyllum aquatii Himalayan Cotoneaster bullatus Pennywort, Floating Hydrocotyle ranunculoides Cotoneaster, Small- Cotoneaster microphyllus Potato, Duck Sagittaria latifolia				
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Lichens – Partial Protection under Section 13 (2) Commercial Exploitation and Sale OnlyTree LungwortLobaria pulmonariaFungi – Full Protection under Schedule 8 at all timesRoyal BoleteBoletus regiusOak PolyporeBuglossosporus pulmonariaHedgehog FungusHericium erinaceumSandy Stilt BallBattaria phalloidesInvasive plant species listed in Schedule 9Alexanders, PerfoliateSmyrnium perfoliatumKelp, JapaneseLaminaria japonicaAlgae, RedGrateloupia luxuriansKnotweed, GiantReynoutria (Fallopia sachalinensisArchangel, VariegatedLamiastrum galeobdolonKnotweed, HybridReynoutria (Fallopia japonica x sachalineYellowsubsp. argentatumKnotweed, JapaneseReynoutria (Fallopia japonicaAzalea, YellowRhododendron luteumKnotweed, JapaneseReynoutria (Fallopia japonicaBalsam, HimalayanImpatiens glanduliferaLeek, Few-floweredAllium paradoxumCotoneaster, WallCotoneaster horizontalisLettuce, waterPistia stratiotesCotoneaster, Entire- leavedCotoneaster integrifoliusMontbretiaCrocosmia x crocosmiifloraCotoneaster, HimalayanCotoneaster simonsiiParrot's FeatherMyriophyllum aquatiCotoneaster, HollyberryCotoneaster microphyllusPotato, DuckSagittaria latifolia		Heterodermia propagulifera	Serpentine Selanopsora	Selanopsora liparina
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Himalayan Cotoneaster, Cotoneaster bullatus Hollyberry Cotoneaster, Small- Cotoneaster microphyllus Pennywort, Floating Hydrocotyle ranunculoides Sagittaria latifolia		Cotoneaster simonsii	Parrot's Feather	
Hollyberry ranunculoides Cotoneaster, Small- Cotoneaster microphyllus Potato, Duck Sagittaria latifolia	Himalayan			
Cotoneaster, Small- Cotoneaster microphyllus Potato, Duck Sagittaria latifolia	· ·	Cotoneaster bullatus	Pennywort, Floating	,
		Cotoneaster microphyllus	Potato, Duck	Sagittaria latifolia
Creeper, False Virginia Parthenocissus inserta Primrose, Floating Water Ludwigia peploides		Parthanocissus insorta	Drimrose Floating Mater	Ludwigia penlaidas
, , , ,			_	
1 1			1	Ludwigia grandiflora
Dewplant, Purple Disphyma crassifolium Primrose, Water Ludwigia uruguayensis			· ·	9 9 1
and hybrid <i>R. pontic</i>	False-acacia	Robinia pseudoacacia	Rhododendron	Rhododendron ponticum and hybrid R. ponticum x
R. maximum Fanwort/Carolina Cabomba caroliniana Rhubarb, Giant Gunnera tinctoria		Cabomba caroliniana	Rhubarb, Giant	
Water-Shield				
Fern, Water Azolla filiculoides Rose, Japanese Rosa rugosa	Fern, Water	Azolla filiculoides	Rose, Japanese	
Fig, Hottentot Carpobrotus edulis Salvinia, Giant Salvinia molesta	Fig, Hottentot	Carpobrotus edulis	Salvinia, Giant	Salvinia molesta
Garlic, Three-cornered Allium triquetrum Seafingers, Green Codium fragile	Garlic, Three-cornered	Allium triquetrum	Seafingers, Green	Codium fragile
Hogweed, Giant Heracleum mantegazzianum Seaweed, Californian Pikea californica Red	Hogweed, Giant	Heracleum mantegazzianum	Seaweed, Californian	



Hyacinth, Water	Eichhornia crassipes	Seaweed, Hooked Asparagus	Asparagopsis armata
Kelp, Giant species	Macrocystis angustifolia, M. integrifolia, M. laevis, M. pyrifera	Seaweed, Japanese	Sargassum muticum
Seaweeds, Laver	Porphyra spp except except native species, P. amethystea, P. leucosticte, P. linearis, P. miniate, P. purpurea, P. umbilicalis	Wakame	Undaria pinnatifida
Shallon	Gaultheria shallon	Waterweed, Curly	Lagarosiphon major
Stonecrop, Australian Swamp/New Zealand Pygmyweed	Crassula helmsii	Waterweeds	All species of the genus Elodea

Protection of Badgers Act 1992

The main legislation protecting badgers in England and Wales is the Protection of Badgers Act 1992 (the 1992 Act). Under the 1992 Act it is an offence to: wilfully kill, injure, take or attempt to kill, injure or take a badger; dig for a badger; interfere with a badger sett by, damaging a sett or any part thereof, destroying a sett, obstructing access to a sett, causing a dog to enter a sett or disturbing a badger while occupying a sett.

The 1992 Act defines a badger sett as: "any structure or place which displays signs indicating current use by a badger"

Natural Environment and Rural Communities Act 2006

Section 41 (S41) of this Act requires the Secretary of State to publish a list (in consultation with Natural England) of Habitats and Species which are of Principal Importance for the conservation of biodiversity in England. The S41 list is used to guide decision-makers such as public bodies including local and regional authorities, in implementing their duty under Section 40 of the Natural Environment and Rural Communities (NERC) Act 2006, to have regard to the conservation of biodiversity in England, when carrying out their normal (e.g. planning) functions. The S41 list includes 65 Habitats of Principal Importance and 1,150 Species of Principal Importance.

Hedgerow Regulations 1997

The Hedgerow Regulations were made under Section 97 of the Environment Act 1995 and came into force in 1997. They introduced new arrangements for local planning authorities in England and Wales to protect important hedgerows in the countryside, by controlling their removal through a system of notification. Important hedgerows are defined by complex assessment criteria, which draw on biodiversity features, historical context and the landscape value of the hedgerow.

Birds of Conservation Concern

This is a review of the status of all birds occurring regularly in the United Kingdom. It is regularly updated and is prepared by leading bird conservation organisations, including the British Trust for Ornithology (BTO), Joint Nature Conservation Committee (JNCC) and The Royal Society for the Protection of Birds (RSPB).

The latest report was produced in 2015 (Eaton *et al*, 2015) and identified 67 red list species, 96 amber species, and 81 green species. The criteria are complex, but generally:

- Red list species are those that have shown a decline of the breeding population, nonbreeding population or breeding range of more than 50% in the last 25 years.
- Amber list species are those that have shown a decline of the breeding population, non-breeding population or breeding range of between 25% and 50% in the last 25 years.

 Species that have a UK breeding population of less than 300 or a non-breeding population of less than 900 individuals are also included, together with those whose 50% of the population is localised in 10 sites or fewer and those whose 20% of the European population is found in the UK.



• Green list species are all regularly occurring species that do not qualify under any of the red or amber criteria are green listed

Global IUCN Red List

The International Union for Conservation of Nature (IUCN) Threatened Species was devised to provide a list of those species that are most at risk of becoming extinct globally. It provides taxonomic, conservation status and distribution information about threatened taxa around the globe.

The system catalogues threatened species into groups of varying levels of threat, which are: Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CE), Endangered (EN), Vulnerable (VU), Near Threatened (NT), Least Concern (LC), Data Deficient (DD), Not Evaluated (NE). Criteria for designation into each of the categories is complex, and consider several principles.

Local Biodiversity Action Plan (LBAP)

Local Biodiversity Action Plans (LBAP) identify habitat and species conservation priorities at a local level (typically at the County level), and are usually drawn up by a consortium of local Government organisations and conservation charities.

Some LBAP's may also include Habitat Action Plans (HAP) and/or Species Action Plans (SAP), which are used to guide and inform the local decision making process.

Wild Mammals (Protection) Act 1996

This Act offers protects a form of protection to all wild species of mammals, irrespective of other legislation, and focussed on animal welfare, rather than conservation.

Unless covered by one of the exceptions, a person is guilty of an offence if he mutilates, kicks, beats, nails or otherwise impales, stabs, burns, stones, crushes, drowns, drags or asphyxiates any wild mammal with intent to inflict unnecessary suffering.

It's application is typically restricted to preventing deliberate harm to wildlife (in general) during construction works etc.



APPENDIX C – TARGET NOTES

Plant species frequencies were recorded using the DAFOR scale (D= dominant, A= abundant, F= frequent, O= occasional, R= rare) as estimated by eye.

Target Note	Description	Photograph(s)
	Broad-leaved deciduous woodland Mature woodland with understorey and ground flora. Species include: • Ash Fraxinus excelsior A • Beech Fagus sylvatica O • Bracken Pteridium aquilinum O • Bramble Rubus fructicosus agg. F • Bugle Ajuga reptans O	
	 Cleavers Galium aparine F Common hemp-nettle Galeopsis tetrahit R Common nettle Urtica dioica O Creeping buttercup Ranunculus repens O Cypress tree (non-native) 	
	Cupressaceae R Dog's Mercury Mercuriais perennis A Elder Sambucus nigra O English Elm Ulmus procera O Garlic mustard Alliaria petiolata R Greater Stitchwort Stellaria holostea O Green alkanet Pentaglottis Sempervirens R	
	 Ground Elder Aegopodium podagraria F Ground Ivy Glechoma hederacea F Hawthorn Crataegus monogyna F Hazel Corylus avellana O Hedge woundwort Stachys sylvatica O Herb Robert Geranium robertianum O Holly Ilex aquifolium O Ivy Hedera helix F 	
	 Ivy-leaved speedwell Veronica hederifolia R Lesser celandine Ranunculus ficaria O Lords and ladies Arum maculatum O Native bluebell Hyacinthoides non-scripta O Pedunculate Oak Quercus robur D Pignut Conopodium majus O 	
	 Red campion Silene dioica O Rough meadow grass Poa trivialis F Sycamore Acer pseudoplatanus O Tufted hair grass Deschampsia cespitosa D Wild cherry Prunus avium F Wild privet Ligustrum vulgare R 	



Wood avens Geum urbanum O	
Ditch that traverses through the site. -WB1a on site is dry (shown in 1st photograph) -WB1b adjacent to the site is wet and slow flowing (shown in 2nd photograph)	



3 Indian (Himalayan) balsam *Impatiens* glandualifera -Schedule 9 invasive species -Found along the banks of WB1b 4 Pile of bricks on site -potential GCN refugia



5	Indian (Himalayan) balsam Impatiens glandualifera -Schedule 9 invasive species -Found on site and along the woodland boundary.	
6	Remnants of low lying brick structure on site	