



**Preliminary Ecological Appraisal &
Bat & Bird Assessment Report**

Site:


Carn Gwaval, Old Town Road, St Mary's, Isles of Scilly

Grid Reference: SV 9107 1036

24th February 2017

Prepared for Currie & Brown on behalf of the Council of the Isles of Scilly by:

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CONTENTS

1.0	INTRODUCTION	6
1.1	BACKGROUND & PURPOSE OF SURVEY	6
1.2	SITE LOCATION & DESCRIPTION	6
1.3	PROPOSED SITE PLANS.....	6
1.4	PROJECT ADMINISTRATION	6
2.0	METHODOLOGY	6
2.1	SURVEY METHODS	7
2.2	ECOLOGICAL EVALUATION	7
2.3	LIMITATIONS.....	8
2.4	DECLARATION	8
3.0	ASSESSMENT RESULTS	9
3.1	DESIGNATED SITES OF NATURE CONSERVATION IMPORTANCE	9
3.2	SITE DESCRIPTION	9
3.3	NOTABLE HABITATS	18
3.4	NOTABLE SPECIES	18
4.0	MITIGATION RECOMMENDATIONS.....	23
4.1	DESIGNATED SITES	23
4.2	HABITATS.....	23
4.3	SPECIES	23
4.4	OPPORTUNITIES FOR BIODIVERSITY ENHANCEMENTS	24
4.5	FURTHER SURVEYS	25
4.6	MONITORING	25
4.7	RESIDUAL IMPACTS	25
5.0	REFERENCES	26



APPENDICES.....27

APPENDIX 1: INDICATIVE SITE PROPOSALS	28
APPENDIX 2: LOCATION OF SITE AND DESIGNATED SITES OF NATURE CONSERVATION IMPORTANCE.....	30
APPENDIX 3: PHASE 1 HABITAT SURVEY LIST OF VASCULAR PLANT SPECIES	32
APPENDIX 4: LEGISLATION AND PLANNING POLICY	34
APPENDIX 5: ERCCIS DESK STUDY SUMMARY	41



Summary

Currie & Brown on behalf of the Council of the Isles of Scilly commissioned Plan for Ecology to undertake a Preliminary Ecological Appraisal (PEA) and a Preliminary Bat and Bird Assessment (sometimes referred to as a Bat and Barn Owl Assessment) of the site Carn Gwaval, Church Road, St Mary's Isles of Scilly (OS Grid Ref: SV 9107 1036) in January 2017. The client seeks planning permission to renovate and extend the nursery, renovate the memory café and medical room corridor and construct a new building in the existing car park. This report describes and evaluates the results of the extended Phase 1 Habitat survey, detailed invasive plant survey and Preliminary Bat and Bird Assessment.

The site, measuring c. 0.3 ha, is located off Old Town Road, St Mary's, c. 710 m west of St Mary's Airport, and c. 320 m east of St Mary's Hospital, Isles of Scilly. The site supports the following features of ecological value: scattered trees. Notable species/ species groups with potential to occur on-site include breeding birds (Section 1 WCA); bats (foraging, commuting and roosting); amphibians and hedgehog (UK BAP). The preliminary visual inspection of buildings for bats and birds found no evidence of roosting bats or nesting birds. Ecological constraints and opportunities are detailed on the accompanying 'Ecological Constraints and Opportunities Plan' (ECOP) (below). Mitigation recommendations are summarised below:

- **Designated sites:** The site falls within the Zone of Influence of two European Designated Sites (Isles of Scilly Complex Special Area of Conservation and Isles of Scilly Special Protection Area).
- **Scattered Trees (degradation):** Follow the recommendations in the arboricultural survey report. Plant native trees as part of the planting scheme, to mitigate any loss.
- **Bats:** Incorporate a sensitive lighting scheme within the vicinity of newly planted trees and shrubs. Further surveys for this species group are not recommended.
- **Nesting birds:** Schedule works for a time of year when this species group will not be present/ susceptible to harm.
- **Hedgehog:** All excavated pits associated with the proposed development must be covered overnight and all trenches must have sloping planks (no greater than 45° angle) placed in them as a means of escape so that animals will not become trapped. Any fencing must have a gap beneath measuring at least 25cm in height.
- **Invasive plants:** Montbretia, Three-cornered garlic and Rhododendron (Schedule 9 WCA) are present on-site. Development of the site must be informed with an invasive plant mitigation method statement.
- **Further survey:** On the basis of the current site plans, further ecology surveys are not recommended as part of this assessment.
- **Enhancement:** There is opportunity to enhance the value of the site for biodiversity. See the accompanying 'Ecological Constraints and Opportunities Plan' (ECOP) (below).

Subject to the successful implementation of the mitigation recommendations and biodiversity enhancements detailed in this report, **the residual impact of the proposed development is considered to be zero with some positive outcomes for biodiversity.**

Carn Gwaval, Church Road, St Mary's, Isles of Scilly - Ecological Constraints & Opportunities Plan (ECOP)

Constraint: A stone-faced, earth centred wall forms part of the west site boundary. This feature provides potential habitat for faunal species and supports the Nationally Scarce plant species, lanceolate spleenwort. The site proposals retain this habitat in its entirety and incorporate a suitable development free buffer. Prevent degradation during construction by installing a high visibility fence 3m from the base of the wall.

- Target Notes:
- 1. Three cornered garlic (*Allium triquetrum*), invasive plant species listed on Schedule 9 WCA 1981.
 - 2. Montbretia (*Crocsmia x crocosmiiflora*), invasive plant species listed on Schedule 9 WCA 1981.
 - 3. Lanceolate spleenwort (*Asplenium obovatum*), Nationally Scarce plant species.
 - 4. Rhododendron (*Rhododendron ponticum*), invasive plant species listed on Schedule 9 WCA 1981.
 - 5. Ornamental fish pond with steep brick edging.
 - 6. Stone-faced, earth centred wall of ecological value.

Constraint: The site supports scattered trees of ecological value. Follow the recommendations in the detailed arboricultural survey report.

Constraint & Opportunity: Montbretia, three-cornered garlic and rhododendron are present on-site. These species are listed on Schedule 9 WCA 1981 making it an offence to cause them to spread to the wild. Development of the site must be informed with an invasive plant mitigation method statement. Eradication / control of these species has potential to enhance the biodiversity value of the site and protect the wider area from degradation arising from the introduction of invasive plant species.

Constraint: Hedgehog may use the site on occasion. All excavated pits associated with the proposed development must be covered overnight and all trenches must have sloping planks (no greater than 45° angle) placed in them as a means of escape so that animals will not become trapped.

Constraint: Nesting birds may be present within scattered trees and introduced shrub between March and September inclusive. Time any vegetation clearance to avoid the period when birds will be nesting or precede works with a thorough search of vegetation for active bird nests.

Opportunities: There is opportunity to enhance the site for biodiversity by installing bat tubes, bird boxes and bee bricks within the fabric of the proposed new building; by enhancing the existing pond for native fauna; and by constructing log and stone piles for amphibians and invertebrates.

Legend

- Wall
- Boundary
- Scattered tree
- Target Note
- Building
- Introduced shrub
- Pond





1.0 Introduction

1.1 Background & Purpose of Survey

Currie & Brown, on behalf of the Council of the Isles of Scilly, commissioned Plan for Ecology to undertake a Preliminary Ecological Appraisal (PEA) and a Preliminary Bat and Bird Assessment (sometimes referred to as a Bat and Barn Owl Assessment) of the site Carn Gwaval, Church Road, St Mary's, Isles of Scilly (OS Grid Ref: SV 9107 1036) in January 2017. The client seeks planning permission to renovate and extend the nursery, renovate the memory café and medical room corridor and construct a new building in the existing carpark; the indicative site layout is provided at Appendix 1. A location plan showing the designated sites of nature conservation importance within a 1km radius of the site boundary is provided at Appendix 2. The Phase 1 Habitat distribution is shown on Map 1 in Section 3.2 below.

1.2 Site Location & Description

The site, measuring c. 0.3 ha, is located off Old Town Road, St Mary's, c. 710 m west of St Mary's Airport, and c. 320 m east of St Mary's Hospital, Isles of Scilly. A location plan is provided at Appendix 2. The site comprises: scattered trees, introduced shrub, amenity grassland, pond, bare ground, buildings and wall.

1.3 Proposed Site Plans

The client seeks planning permission to renovate and extend the nursery, renovate the memory café and medical room corridor and construct a new building in the existing car park; the indicative site layout is provided at Appendix 1.

1.4 Project Administration

Site Name:	Carn Gwaval, St Mary's, Isles of Scilly
OS Grid Reference:	SV 9107 1036
Client:	Council of the Isles of Scilly
Planning Authority:	Council of the Isles of Scilly
Report Reference Number:	P4E467
Site proposals:	Renovate and extend the nursery, renovate the memory café and medical room corridor and construct a new building in the existing carpark.
Survey Dates:	7 th February 2017 (extended Phase 1 Habitat survey & bat and bird assessment)
Surveyors & Relevant Licence Numbers:	Kim Jelbert BSc (Hons), MSc, MCIEEM (Bat licence no: 2015-10444-CLS-CLS; Barn owl licence no. CL29/00037; Dormouse licence no: 2016-22394-CLS-CLS) Naomi Perry BSc (Hons), MSc, GradCIEEM (Dormouse licence no: 2016-20661-CLS-CLS)

2.0 Methodology

The Preliminary Ecological Appraisal (PEA) has been carried out in accordance with the 'Guidelines for Preliminary Ecological Appraisal' produced by the Institute of Ecology and Environmental Management (IEEM, 2012) (now the Chartered Institute of Ecology and Environmental Management, CIEEM), and BS42020-2013 Biodiversity – Code of Practice for Planning &



Development, as adopted by local planning authorities (British Standard, 2013). The Preliminary Bat and Bird Assessment was carried out in accordance with the 'Bat Surveys for Professional Ecologists - Good Practice Guidelines' produced by the Bat Conservation Trust (Collins, 2016).

2.1 Survey Methods

The Preliminary Ecological Appraisal (PEA):

The PEA comprised a desk study, a site survey and a report. The desk study is a search of all ecological records and site designations held by the Environmental Records Centre for Cornwall and the Isles of Scilly (ERCCIS, to 2011) within a 1km radius of the site boundary.

The survey comprised an extended Phase 1 Habitat Survey. The site is defined as all land within the blue site boundary as shown on Map 1 at Section 3.2.

The Phase 1 Habitat Survey identifies the habitats present and their associated plant species (JNCC, 2010), and assesses the potential of the site to support protected species. The surveyor also noted the presence of notable plant species of conservation significance and invasive plant species listed on Schedule 9 of the WCA (1981).

The Preliminary Bat & Bird Assessment:

The ecologist assessed the suitability of each building, and the surrounding habitat to support bats and birds. A high-power torch was used to illuminate all accessible areas of each building with potential to support roosting bats and roosting/ nesting birds. The ecologist searched for signs of bats and birds including droppings, staining, feeding remains, bird nests, barn owl pellets and liming. Accessible crevices with potential to conceal a roosting bat were inspected using an endoscope.

2.2 Ecological Evaluation

Potential bat roosts identified during the visual inspection of the building were categorised as to their suitability in accordance with the Bat Conservation Trust's (BCT) Good Practice Guidelines (BCT, 2016) as described below:

Negligible: negligible features with potential to support roosting bats.

Low: one or more features with potential to support individual bats on an occasional basis. Unlikely to support large numbers of bats.

Moderate: one or more features with potential to support roosting bats but unlikely to be of high conservation status.

High: one or more features with potential to support large numbers of bats on a regular basis.

This report describes and evaluates the ecological interest of the site, identifies potential impacts that the works may have on wildlife, and provides recommendations to mitigate/compensate for these impacts, in accordance with the 'Guidelines for Preliminary Ecological Appraisal' (IEEM (now CIEEM), 2012). Possible enhancements are also detailed. The likely value of ecological features is determined within a geographical context in accordance with the CIEEM Guidelines for Ecological Impact Assessment (CIEEM, 2016). Value is assigned in decreasing order of importance as follows: International, UK, National (England), Regional (southwest), County (Cornwall), Parish, Local and within the Zone of Influence.



2.3 Limitations

February is an acceptable time of year to undertake vegetation surveys (Phase 1 Habitat and invasive plant surveys) though many plant species will not be in flower or visible, making detection and species identification more difficult in some instances. Fortunately, most species can be readily identified from their vegetative characteristics.

Preliminary Bat and Bird Assessments can be undertaken at any time of year. Weather conditions during the extended Phase 1 Habitat survey and Preliminary Bat and Bird Assessment were in line with seasonal norms. There are no limitations to the survey associated with weather conditions.

Ecological features can change over time, particularly if site management/ use changes. Typically, Preliminary Ecological Appraisals and Preliminary Bat and Bird Assessments are valid for one year (until February 2018). A search for Tree Preservation Orders (TPO's) or Conservation Area status does not form part of this assessment.

There was no access to the voids above the suspended ceilings of the Memory Café building and the Medical Room corridor. These buildings require some works to the interior but none to the roof or roof voids; proposed works are therefore, highly unlikely to impact bats (if present).

2.4 Declaration

"The information, evidence and advice, which we have prepared and provided is true, and has been prepared and provided in accordance with the Chartered Institute of Ecology & Environmental Management's (CIEEM) Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions."

Name(s): Naomi Perry BSc (Hons) MSc GradCIEEM; Kim Jelbert BSc (Hons) MSc MCIEEM

Signed:

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Handwritten signature of Kim Jelbert in black ink.



3.0 Assessment Results

3.1 Designated Sites of Nature Conservation Importance

The site is not within a designated site of nature conservation importance. The following designated sites of nature conservation importance were identified within a 1km radius of the site: Isles of Scilly Complex Special Area of Conservation (SAC); Lower Moors (St Mary's) biological Site of Special Scientific Interest (SSSI); Peninnis Head (St Mary's) biological and geological SSSI; and the Isles of Scilly Sites Marine Conservation Zone (MCZ). These sites are described below and their location is shown on the designated sites plan at Appendix 2.

- Isles of Scilly Complex SAC: This SAC is designated for the presence of Annex I listed habitats (Sandbanks which are slightly covered by seawater all the time; Mudflats and Sandflats not covered by seawater at low tide; and Reefs) and Annex II listed species (Shore dock (*Rumex rupestris*); and grey seal (*Halichoerus grypus*)). The nearest part of the SSSI is located c. 300m to the southeast of the site.
- Lower Moors (St Mary's) biological SSSI: This SSSI comprises a topogenous mire, exhibiting a range of wetland habitats, developed on alluvium and peat overlying the Hercynian granite bedrock. Streams and drainage ditches flow southwards towards Old Town Bay. The site supports Southern Marsh Orchid (*Dactylorhiza praetermissa*), a species rare in the Isles of Scilly. The shallow open water area in the centre of the site is particularly important for wintering snipe (*Gallinago gallinago*) and water rail (*Rallus aquaticus*). The nearest part of the SSSI is located c. 80m to the northeast of the site.
- Peninnis Head (St Mary's) biological and geological SSSI: this SSSI supports maritime heathland, maritime grassland and scrub habitats together with populations of a number of rare plant and lichen species. It is also of considerable geological importance. The nearest part of the SSSI is located c. 560m to the southwest of the site.
- Isles of Scilly Sites MCZ: This site was designated as a Marine Conservation Zone to protect important habitats including rock and sediment habitats, and species notably the spiny lobster and pink sea fan. Although treated as a single Marine Conservation Zone, the area comprises eleven individual zones around the Isles of Scilly. Rocky reefs support species such as the spiny lobster whilst seagrass beds provide important habitat for the short-snouted and spiny seahorse. The nearest part of the CWS is located c. 250m to the southeast of the site.

The site is considered to be sufficiently distant for the proposed constructional activities and subsequent operational use not to impact the designated site listed above.

3.2 Site Description

The site, measuring c. 0.3 ha, is located off Old Town Road, St Mary's, c. 710 m west of St Mary's Airport, and c. 320 m east of St Mary's Hospital, Isles of Scilly. A location plan is provided at Appendix 2. The site comprises: scattered trees, introduced shrub, amenity grassland, pond, bare ground, buildings and wall (Figures 1 - 10).

The site is set in a rural landscape of mixed arable and pastureland and in close proximity to coastal habitats.



Figure 1: View north of Memory Café and Medical corridor with Sports Hall Beyond.



Figure 2: View south of the Old Kitchen, Caretaker's Store and Nursery beyond.



Figure 3: View of the pond in the courtyard.

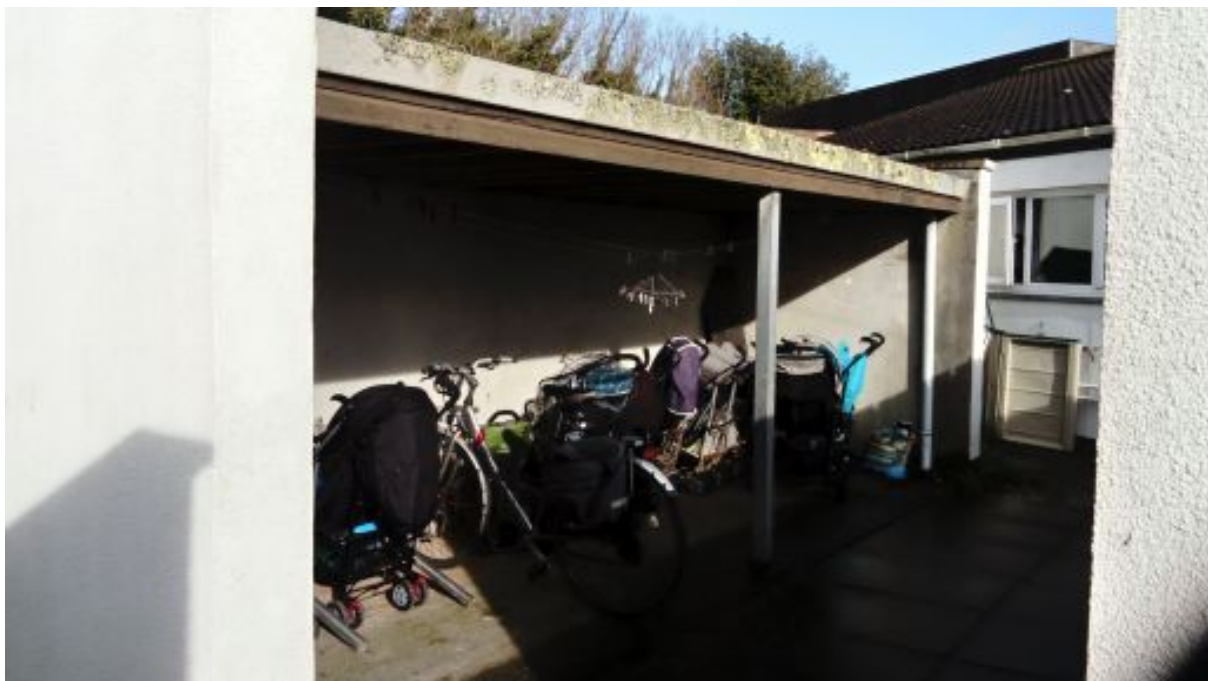


Figure 4: View of Pushchair Store located west of Nursery.



Figure 5: View southeast showing the Memory Café.



Figure 6: View east showing wooden sheds, amenity grassland and scattered trees beyond.



Figure 7: View east showing Medical Room corridor (left) and Old Kitchen (right).



Figure 8: View north showing amenity grassland and scattered trees.



Figure 9: View north showing hard standing and Nursery building.



Figure 10: View northwest over Nursery.

A total of eight Phase 1 Habitats were recorded on-site during the Phase 1 Habitat Survey: scattered trees (A3), introduced shrub (J1.4), amenity grassland (J1.2), pond (G1), buildings (J3.6), bare ground (J4), wall (J2.5) and fence (J2.5) (see Map 1 below for the Phase 1 Habitat Distribution). **Of the habitats on-site scattered trees (A3) and wall (J2.5) are considered to be of significant ecological value.** Introduced shrub (J1.4), amenity grassland (J1.2),



buildings (J3.6), bare ground (J4) and pond (G1) are considered to be of low ecological value. Habitats of low ecological value are briefly described below:

Building (J3.6)

The site supports a Nursery (Figures 9 & 10), Old Kitchen (Figures 2 & 7), Care Takers Store (Figure 2), Gym (Figure 1), Medical Room corridor (Figures 1 & 7), Memory Café (Figure 1 & 5), Shed (Figure 6) and Pushchair Store (Figure 4). The potential of buildings to support roosting bats is discussed in section 3.4 below.

Amenity grassland (J1.2)

Amenity grassland is present throughout the site. The amenity grassland is kept to a short sward height and lacks botanical and structural diversity, offering limited sheltering and foraging opportunities for faunal species (Figure 8).

Vegetation comprises abundant three-cornered garlic (Schedule 9 WCA, 1981), red fescue and vetch species; frequent ribwort plantain and white clover; occasional Lord's-and-Ladies, bramble, dandelion, common nettle and daffodil species; locally abundant creeping buttercup; and locally frequent bluebell, wood sorrel, annual meadow grass, lesser celandine and broad-leaved dock. Wavy bitter-cress, willowherb species, black medick, Lanceolate spleenwort occur rarely in this habitat.

Introduced shrub (J1.4)

Introduced shrub associated with garden habitat is present throughout the site. Vegetation comprises abundant periwinkle; frequent African lily, three-cornered garlic (Schedule 9 WCA, 1981), hebe species, bluebell, wood sorrel, vetch species and daffodil species; occasional Lords-and-Ladies, rhododendron and rosemary. Buddleja occurs rarely here.

Bare ground (J4)

Hard standing is present around each of the buildings (Figure 9). Bare ground, particularly hard standing, offers very limited ecological opportunities for biodiversity. Vegetation comprises frequent moss species and locally frequent procumbent pearlwort. Daisy, wavy bitter-cress, ivy, black medick, wood sorrel, ribwort plantain, annual meadow grass, white clover and common nettle occur rarely in bare ground habitat.

Fence (J2.4)

A wooden picket fence, devoid of vegetation, encloses one side of the existing parking area.

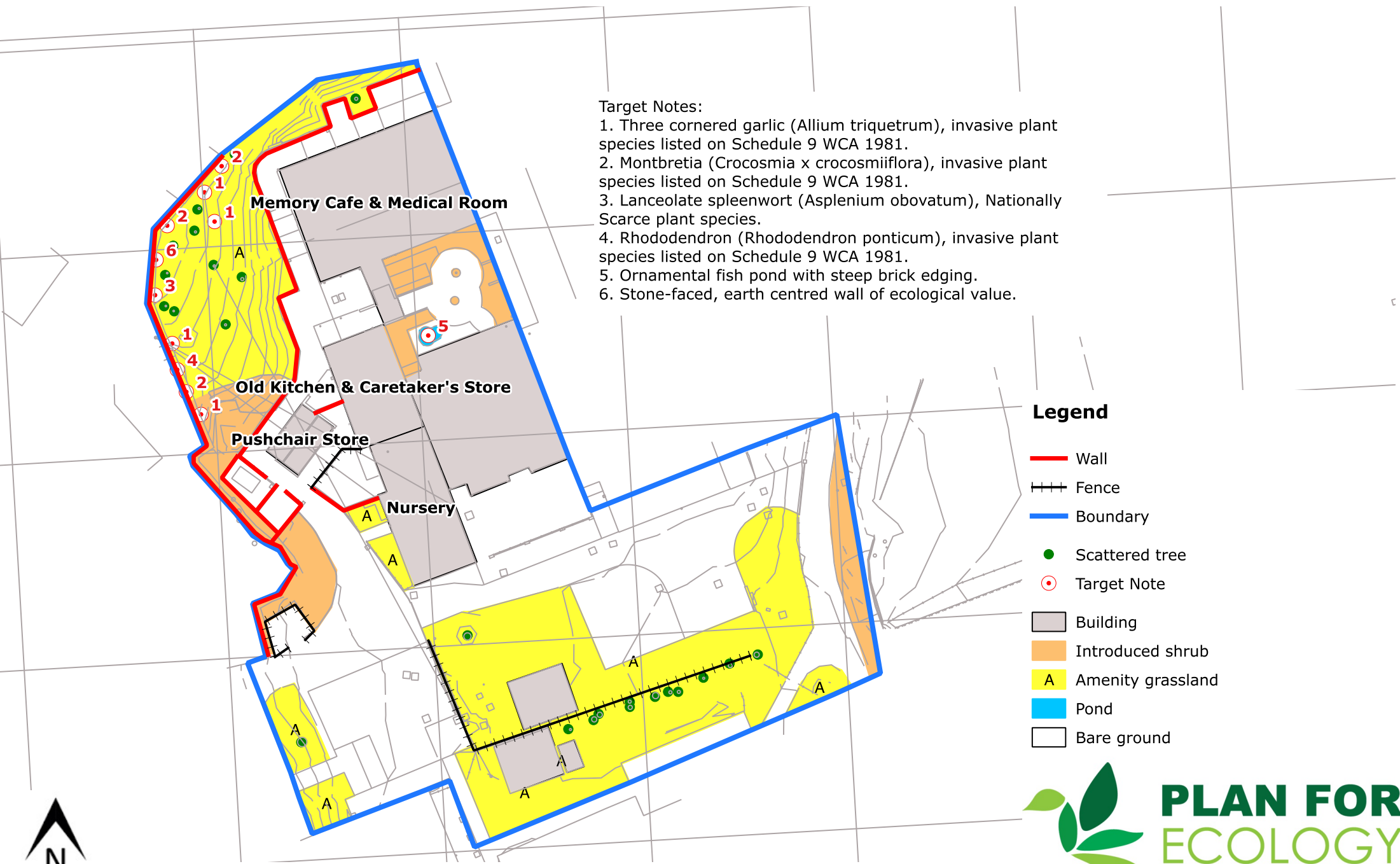
Pond (G1)

A garden pond is present on site, situated in the courtyard (Figure 3). This pond is stocked with fish, largely devoid of vegetation with a brick, lipped edge. These features reduce the biodiversity value of the pond.

Pond habitat on site is unlikely to qualify as the UK BAP priority habitat, pond.

The assemblage of vascular plant species associated with each habitat including Latin names is provided in the Table at Appendix 3.

Map 1: Carn Gwaval, Church Road, St Mary's, Isles of Scilly - Phase 1 Habitat Distribution





3.3 Notable Habitats

Scattered trees (A3):

Scattered trees are present within the site (Figure 8, see Map 1 above). Scattered trees on site are dominantly elm species with occasional wild cherry. Buddleja and holm oak occur rarely.

Scattered trees provide potential habitat for nesting birds, and commuting and foraging bat species.

Scattered trees on-site are considered to be of no greater value for biodiversity than **'within the Zone of Influence'**.

See section 4.3 for mitigation recommendations.

Wall (J2.5)

A wall is present along part of the west site boundary (target note 6; Map 1), where it separates the site from adjoining residential properties. Vegetation comprises abundant navelwort; frequent wood sorrel, foxglove, vetch species and daffodil; occasional three-cornered garlic (Schedule 9 WCA, 1981), Lords-and-Ladies, cock's foot, hedge bedstraw, bluebell, bramble and elm species; locally frequent red fescue, ivy and periwinkle. Elsewhere a number of concrete retaining walls are present. These lack vegetation and are considered to be of negligible ecological value.

This wall largely lacks trees and shrubs but does support occasional garden ornamental species along the top. The wall itself is characteristic of a Cornish hedgerow: stone-faced, earth centred bank but it lacks native vegetation. Wall habitat provides potential habitat for invertebrates and small mammals.

The wall on-site is considered to be of **no greater value for biodiversity than within the immediate vicinity of the site.**

3.4 Notable Species

Notable species and species groups with potential to use the site are described below:

Bats (Commuting & Foraging)

Two bat species (one hundred and four records) have been recorded within a 1km radius of the site boundary (ERCCIS, 2017): one hundred and three records for common pipistrelle bat (*Pipistrellus pipistrellus*) (European Protected Species, EPS; Cornwall Red Data Book, CRDB); and one record for brown long-eared bat (*Plecotus auritus*) (EPS; CRDB; UK BAP). A summary of the ERCCIS desk study is provided at Appendix 5. In the UK all bat species are European Protected Species (EPS) protected under both UK and European Legislation; for further information on legal protection see Appendix 4.

Habitats on-site with the potential to support foraging and commuting bats are limited to the scattered trees and introduced shrub habitat. Due to the small size of the site (c. 0.3 ha), the site is unlikely to be of significant importance for commuting and foraging bats. In accordance with the 'Bat Surveys for Professional Ecologists: Good Practice Guidelines' (2016) the site is assessed as being of 'low suitability' for commuting and foraging bats. No further surveys are recommended.

Off-site woodland and hedgerow habitat provide potentially important foraging and commuting routes for bat species.



The site is considered to be of no greater importance for foraging and commuting bat species than **'within the Zone of Influence'**.

See section 4.3 for mitigation recommendations.

Bats (Roosting)

The site supports a Nursery, Old Kitchen, Caretakers Store, Gym, Medical Room corridor, Memory Café, Pushchair Store and wooden sheds.

Nursey

The Nursery is constructed from rendered block, likely cavity walls, with a composite interlocking tile roof (Figures 9 & 10). There are few gaps beneath the hanging tiles. The wood fascias and lead flashings are flush, and the air vents are closed with wire.

Internally, the Nursery has two half pitch voids. Void 1 is lined with a grey non-breathable membrane, with rolled insulation between the joists and measures c. 1.6m at the apex. There are stored items present and it is not boarded out. There was no evidence of roosting bats within void 1. Void 2 is lined with black plastic and a non-breathable membrane, with thick rolled insulation between the joists. This void is not boarded out, with a lattice construction and a half pitch to the block wall, measuring 1.6m at the apex. There was no evidence of roosting bats within void 2. The Nursery was assessed as having negligible potential to support roosting bats.

Pushchair store

The pushchair store is open-sided with a flat fiberglass roof over a timber frame. Block walls 2.2m high are on three sides (Figure 4). The pushchair store was assessed as having negligible potential to support roosting bats.

Old Kitchen

The Old Kitchen is constructed of block, with likely cavity walls and composite interlocking tiles over the kitchen (Figures 2 & 7).

Internally, the Old Kitchen has a single void extending over the Caretakers Store, lined with non-breathable black plastic and a suspended tile ceiling. A large extraction/ ventilation system dominates the void above the kitchen. No evidence of bats was observed within the void above the Old Kitchen. This building was assessed as having negligible potential to support roosting bats.

Caretakers Store

A single void above the Caretakers Store connects to the Old Kitchen void (Figure 2). This is lined with a non-breathable black plastic membrane. There is no insulation between the joists and it is boarded out in places. No evidence of bats was observed within the void above the Caretakers Store. The Caretakers Store was assessed as having negligible potential to support roosting bats.

Gym

Internally the gym has a suspended ceiling beneath a shallow void, lined with non-breathable membrane, with rolled insulation between the joists (Figure 1). There is no direct access due to the suspended ceiling. This building is not directly affected by the proposals.



Medical Room corridor

The Medical Room corridor is of rendered block construction, with likely cavity walls. It has interlocking composite tiles on the roof, with hanging interlocking tiles joining the memory café/ gym (Figure 1 & 7). Internally, there was no access to the void due to the suspended ceiling. The proposed works do not directly affect the roof or roof void of the Medical Room corridor.

Memory Café

Here there is a plasterboard ceiling, with no loft hatch/ access (Figures 1 & 5). The proposed works do not directly affect the roof or roof void of the Memory Café.

Shed

The wooden garden shed with a bitumen felt roof was assessed as having negligible potential to support roosting bats (Figure 6).

The Memory Café and Medical Room corridor require some works to the interior but none to the roof or roof void. Therefore, whilst there was no access to the voids above the suspended ceilings and there are occasional gaps beneath the interlocking/hanging tiles, works are highly unlikely to impact bats (if present).

Further surveys for bats are not recommended as part of this assessment.

See section 4.3 for mitigation recommendations.

Birds

A large number of bird species have been recorded within a 1km radius of the site. A summary of the ERCCIS desk study is provided at Appendix 5. Many of these records are for seabirds that are unlikely to use habitat within the proposed development site. Of the species recorded, 17 have potential to use the site on occasion. Within the site suitable bird nesting habitat is confined to the scattered trees and introduced shrub habitat. Species of conservation significance recorded within a 1km radius of the site with potential to breed within habitat on-site are as follows: house sparrow (*Passer domesticus*), song thrush (*Turdus philomelos*), starling (*Sturnus vulgaris*), linnet (*Carduelis cannabina*) (UK BAP; RSPB Red List), dunnock (*Prunella modularis*) and bullfinch (*Pyrrhula pyrrhula*) (UK BAP priority species) (CRDB). The ERCCIS desk study also revealed records for barn owl (Schedule 1 WCA); no suitable nest or roost sites for barn are present on-site.

All birds are legally protected whilst nesting under the Wildlife & Countryside Act 1981, as amended (Appendix 4).

Whilst the site has potential to support breeding bird species of conservation significance, the site is small (c. 0.3 ha) and is therefore unlikely to be of significant conservation importance for breeding birds.

The site is considered to be of no greater value for birds than '**within the Zone of Influence**'.

Measures to mitigate impact on breeding birds are provided in Section 4.3 below.

Hedgehog

There are twelve records for hedgehog (*Erinaceus Europaeus*) (UK BAP priority species) within a 1km radius of the site boundary. Introduced shrub and amenity grassland on-site provide potentially suitable habitat for hedgehog, as do the gardens of properties located off-site. The site



is considered to be of no greater importance for hedgehog than '**within the Zone of Influence**' (if present).

Development of the site is unlikely to negatively impact hedgehog; however some precautionary measures are recommended to prevent harm to individual animals. See section 4.3 for mitigation recommendations.

Amphibians

The ERCCIS desk study revealed four records for common frog (*Rana temporaria*); and two records for common toad (*Bufo bufo*) within a 1 km radius of the site. A summary of the ERCCIS desk study is provided at Appendix 5.

The garden pond on-site is unlikely to support amphibian species due to the presence of fish, the lack of vegetation and brick, lipped edge. Furthermore, the site is small in size (c. 0.3 ha) and the large majority of the site (amenity grassland) is unsuitable.

The site is considered to be of **no greater value for amphibians than within the immediate vicinity of the site.**

Invertebrates

The ERCCIS desk study revealed one hundred and twenty two invertebrate species of conservation significance within a 1km radius of the site. Of these species, thirteen have some potential to occur within habitat on-site. Species with potential to occur on-site are highlighted in green on the ERCCIS desk study summary at Appendix 5.

Whilst the site has some potential to support notable invertebrate species, it is small in area (c. 0.3 ha) and lacks those features typically associated with the most diverse invertebrate assemblages: wetland, heathland, dune and coastal grassland.

The site is considered to be of no greater value for invertebrate species than '**within the Zone of Influence**'.

Development of the site is unlikely to impact local invertebrate populations.

Vascular Plants

A total of 47 vascular plant species were recorded on-site (see Appendix 3). This is in line with the number of species that would be expected at a site of this size and character. Amenity grassland is floristically the most diverse habitat on-site. This habitat has some limited potential to support some notable plant species that might not have been visible during the February survey.

One plant species of conservation importance, lanceolate spleenwort, was observed during the extended Phase 1 Habitat Survey. The ERCCIS desk study (summarized at Appendix 5) also revealed a record for this species:

- Lanceolate spleenwort (*Asplenium obovatum*) is Nationally Scarce. This species was observed within the wall forming the west site boundary.

NB: A summary of the ERCCIS desk study, including plant Latin names, is provided at Appendix 5.

The site is considered to be of no greater importance for vascular plant species than '**within the Zone of Influence**'.



Invasive Plants

In the UK a number of 'invasive plant species' are listed on Schedule 9 of the Wildlife and Countryside Act 1981 making it an offence to cause them to spread to the wild. The ERRICIS desk study revealed no records for Schedule 9 invasive plant species within a 1km radius of the site.

Three invasive plant species were observed during the site survey: Montbretia (*Crocasmia x crocosmiiflora*), three-corned garlic (*Allium triquetrum*) and rhododendron (*Rhododendron ferrugineum*) are present within wall, introduced shrub and amenity grassland habitat as shown on Map 1 above.

Non-Vascular Plants

A specialised survey for non-vascular plants, bryophytes and lichens, was outside the scope of this study. The desk study revealed a number of records for one lower plant species with potential to occur on-site: *Bryum donianum* (CRDB) (moss species). This species could occur within wall and bare ground habitat on-site.

The site lacks those features such as metalliferous mining waste with potential to support the most diverse assemblages of lower plant species of conservation significance. Overall the site is unlikely to be of significant conservation importance for lower plants.

The site is considered to be of no greater value for non-vascular plants than '**within the Zone of Influence**'.



4.0 Mitigation Recommendations

4.1 Designated Sites

The site is considered to be sufficiently distant for the proposed constructional activities and subsequent operational use not to impact the designated sites (Lower Moors (St Mary's) biological SSSI; Peninnis Head (St Mary's) biological and geological SSSI and Isles of Scilly Sites MCZ, Isles of Scilly Complex SAC and Isles of Scilly SPA) located within a 1km radius of the proposed development site.

4.2 Habitats

Amenity grassland (J1.2), introduced shrub (J1.4), bare ground (J4), buildings (J3.6) and pond (G1) are considered to be of negligible ecological value. There is therefore no specific requirement to mitigate loss of / disturbance to these habitats. Of the habitats on-site, scattered trees (A3) and wall (J2.5) are considered to be of significant ecological value. Impact on these features will be mitigated or compensated as follows:

- **Scattered trees (loss and degradation):** Follow the recommendations presented within the detailed arboricultural survey report (Scott-Ellis, 2017). Native trees such as English or sessile oak, hazel, holly, elder, hawthorn or rowan, to be planted post development, as part of the planting scheme, to mitigate any loss. Plan for Ecology can provide further advice on a suitable planting scheme upon request.
- **Wall:** wall habitat supports a notable plant species, lanceolate spleenwort; and provides suitable habitat for a range of faunal species. This feature also increases the structure and diversity of habitat on-site. The current site proposals retain the wall in its entirety and protect it from degradation by incorporating a 3m development free buffer post-development. Prevent degradation during construction by installing high visibility fencing 3m from the base of the wall during the construction period.

4.3 Species

Development of the site has potential to impact: bats, breeding birds and hedgehog; impact on these species/ species groups can be avoided/ mitigated by following the mitigation recommendations below.

- **Hedgehog:** All excavated pits associated with the proposed development must be covered overnight and all trenches must have sloping planks (no greater than 45° angle) placed in them as a means of escape so that animals will not become trapped.
- **Bats:** In accordance with the Bat Surveys for Professional Ecologists: Good Practice Guidelines (Collins, 2016) the site is assessed as being of low suitability for bats, and due to the small size of the site (c. 0.3 ha) further surveys for bats are not recommended. Bats are however, likely to occasionally use habitat on-site for foraging and commuting; it is therefore recommended that any new tree and shrub planting within landscaped parts of the site and boundary vegetation are not lit with artificial lighting. This can be achieved by using directional lighting to ensure that light spill remains below or near the horizontal, use of narrow spectrum bulbs that emit minimal ultra-violet light and use of embedded road lights where possible (as appropriate to the site). **NB:** The Memory Café and Medical Room corridor were not accessible internally, however the current proposals (Appendix 1) do not require works to the roof of this area. If works to the roof of these buildings become necessary then further survey for bats will be required.



- **Birds:** The site proposals retain all scattered trees on-site. If scattered trees are to be removed or cut, then carry out this work during winter when birds will not be nesting (October to February inclusive) or alternatively precede vegetation clearance with a thorough search of vegetation for nesting birds (to be undertaken by an ecologist). If an active bird nest is uncovered, then works within 5m of the nest must stop until nesting activity has ceased. Works are most likely to be delayed between April and July.
- **Lanceolate spleenwort:** Follow recommendations for wall in section 4.2 above.
- **Invasive plants:** Montbretia, three-cornered garlic and rhododendron are present on-site. These species are listed on Schedule 9 WCA 1981 making it an offence to cause them to spread to the wild. Development of the site must be informed with an invasive plant mitigation method statement.

4.4 Opportunities for Biodiversity Enhancements

The biodiversity value of the site could potentially be enhanced by successfully implementing the following recommendations:

- There is opportunity to provide additional roost sites for bats post-development by installing bat boxes/ tubes within the proposed new building. One box/ tube to be incorporated within the fabric of the new building is recommended and is required by Cornwall Council as per the pending Biodiversity Supplementary Planning Document (SPD). Suitable products for bats include 1FR & 2FR Schwegler bat tubes, and 1FF Schwegler bat box.
- There is opportunity to enhance the site for nesting birds by installing bird boxes within the new building. One box/ tube to be incorporated within the fabric of the new building is recommended and is required by Cornwall Council as per the pending Biodiversity SPD. Suitable products include 1SP Schwegler sparrow terrace, 1B Schwegler nest box, 1MR Schwegler Avianex and traditional wooden style nest boxes.
- There is opportunity to enhance the site for invertebrate species by installing a bee brick within the fabric of the proposed new residential building. In accordance with the pending Cornwall Council Biodiversity Supplementary Planning Document (SPD) a single bee brick must be incorporated into the fabric of each new building.
- Maximize the value of the site for invertebrates, amphibians, reptiles and hedgehog by providing piles of deadwood and stones in landscaped areas post-development.
- Maximize the value of the pond habitat by modifying the edge of the existing pond to provide access for faunal species. This could be achieved by installing stones in one corner of the pond to create a gently sloping access route over the existing steep, brick edge. Consider re-homing the ornamental fish to encourage invertebrate and amphibian species.
- Plant native tree and shrub species as opposed to introduced ornamental species within landscaped parts of the site post-development.
- Removal/ control of the invasive plant species, Montbretia, three-cornered garlic and rhododendron, on-site has potential to enhance the ecological value of the site, and will potentially protect semi-natural habitats in the wider area from degradation arising from the introduction of this invasive species.



4.5 Further surveys

No further surveys are recommended.

4.6 Monitoring

Ecological monitoring (excluding monitoring in relation to invasive Schedule 9 listed plants) of the site is not recommended as part of this assessment due to the small size of the site. Additional requirement for monitoring will be identified in the invasive plant mitigation method statement.

4.7 Residual Impacts

Providing that the adopted mitigation / compensation measures are successfully implemented, **the residual impact of the proposed development is considered to be zero with some positive outcomes for biodiversity.**



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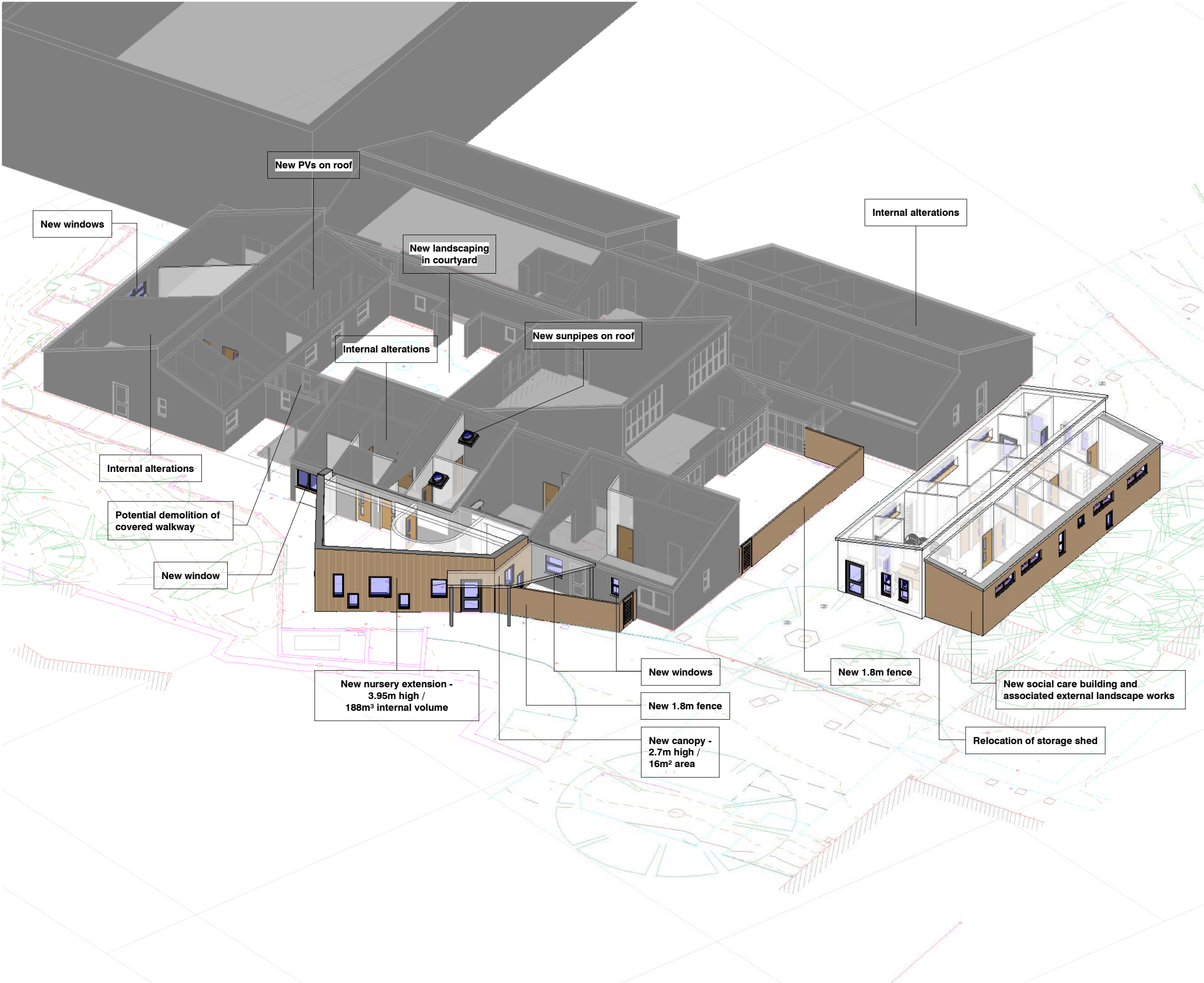
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Appendix 1: Indicative Site Proposals



S2	P03	04.01.2017	First Issue
STATUS	REV	DATE	DESCRIPTION
CLIENT			
Council of the Isles of Scilly			REVISED BY Gareth Freathy
			CHECKED BY David Knight
			ORIGINATOR NO 150457

CONSULTANT

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PROJECT

Carn Gwavel
Church Road
St Mary's
Isles of Scilly
TR21 0NA

DRAWING TITLE

Proposed Scope of Works

SUITABILITY STATUS	SCALE
S2 : SUITABLE FOR INFORMATION	@ A3

PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASSIFICATION NUMBER	REVISION
150457-STL-XX-00-DR-A-XXXX-S0007	P03



Appendix 2: Location of Site and Designated Sites of Nature Conservation Importance



The Environmental Records Centre for Cornwall and the Isles of Scilly

Plan for Ecology

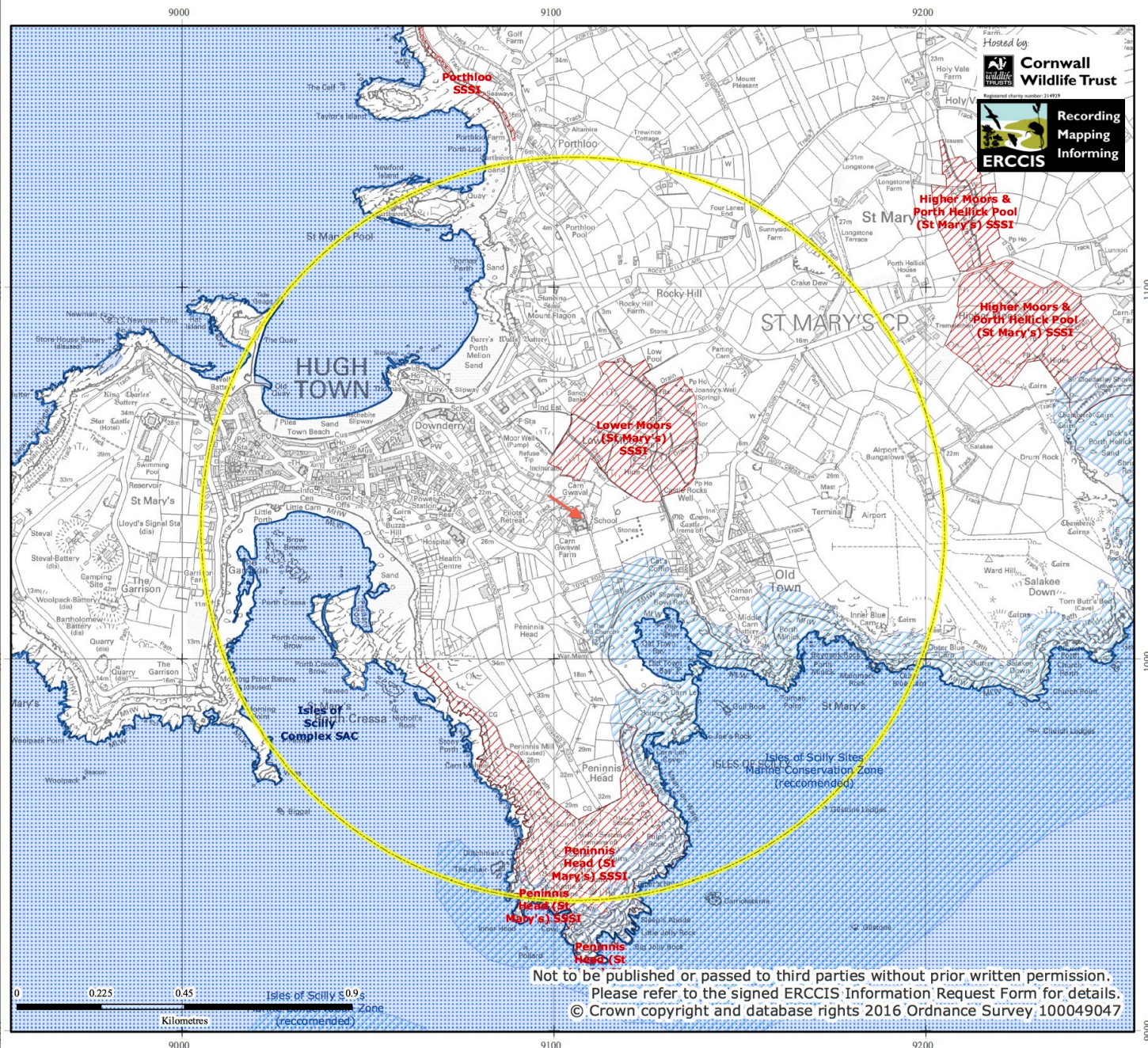
P4E467 Carn Gwaval School,
St Marys Project
SV 910 103, 1000m radius
Showing Selected Designations and
Features of Conservation Interest

Legend

- P4E467 Study area
- Ramsar Sites (Important Wetlands)
- Special Protection Areas (SPA)
- potential Special Protection Areas (pSPA)
- Special Areas of Conservation (SAC)
- candidate Special Areas of Conservation (cSAC) Marine
- proposed Special Areas of Conservation (pSAC)
- r Marine Conservation Zone
- Sites of Special Scientific Interest (SSSI)
- National Nature Reserves (NNR)
- Local Nature Reserves
- County Wildlife Sites (CWS)
- County Geology Sites (CGS)
- Roadside Audit - Biological Sites
- Roadside Audit - Earth Science Sites
- Ancient semi-natural
- Ancient replanted woodland
- Ancient cleared woodland
- Cornwall Wildlife Trust Reserves
- Woodland Trust Reserves
- RSPB Reserves
- National Trust Ownership
- Approximate location of site



Scale 1:10,000 at A3 26/1/2017
Author: Nic Harrison-White





Appendix 3: Phase 1 Habitat Survey List of Vascular Plant Species

Latin Name	Common Name	Introduced Shrub (J1.4)	Scattered trees (A3)	Bare ground (J4)	Amenity grassland (J1.2)	Wall (J2.5)
<i>Agapanthus praecox</i>	African lily	F				
<i>Allium triquetrum</i>	Three-cornered garlic	F			A	O
<i>Arum maculatum</i>	Lords-and-Ladies	O			O	O
<i>Bellis perennis</i>	Daisy			R	LF	
<i>Buddleja davidii</i>	Buddleja	R	R			
<i>Cardamine flexuosa</i>	Wavy bitter-cress			R	R	
<i>Crocsmia x crocosmiiflora</i>	Montbretia				LF	
<i>Dactylis glomerata</i>	Cock's-foot				LF	O
<i>Digitalis purpurea</i>	Foxglove					F
<i>Echium species</i>	Echium species	F				
<i>Epilobium sp.</i>	Willowherb				R	
<i>Festuca rubra</i>	Red fescue				A	LF
<i>Galium mollugo</i>	Hedge bedstraw					O
<i>Hebe sp.</i>	Hebe	F				
<i>Hedera helix</i>	Ivy			R	LF	LF
<i>Holcus lanatus</i>	Yorkshire fog				LF	
<i>Hyacinthoides non-scripta</i>	Bluebell	F			LF	O
<i>Medicago lupulina</i>	Black medick			R	R	
<i>Moss spp.</i>	Moss species			F		
<i>Ligustrum ovalifolium</i>	Garden privet	LF				
<i>Oxalis acetosella</i>	Wood-sorrel	F		R	LF	F
<i>Plantago lanceolata</i>	Ribwort plantain			R	F	
<i>Poa annua</i>	Annual meadow grass			R	LF	
<i>Prunus avium</i>	Wild Cherry		O			
<i>Ranunculus ficaria</i>	Lesser celandine				LF	
<i>Ranunculus repens</i>	Creeping buttercup				LA	
<i>Rhododendron ponticum</i>	Rhododendron	O				
<i>Rosmarinus officinalis</i>	Rosemary	O				
<i>Rubus fruticosus agg.</i>	Blackberry/bramble				O	O
<i>Rumex obtusifolius</i>	Broad-leaved dock				LF	
<i>Quercus ilex</i>	Holm oak	R	R			
<i>Smyrniolus olusatrum</i>	Alexanders				A	O
<i>Sagina procumbens</i>	Procumbent pearlwort			LF		
<i>Sonchus oleraceus</i>	Sow thistle				R	



Latin Name	Common Name	Introduced Shrub (J1.4)	Scattered trees (A3)	Bare ground (J4)	Amenity grassland (J1.2)	Wall (J2.5)
<i>Taraxacum officinale</i> <i>agg.</i>	Dandelion				O	
<i>Trifolium repens</i>	White clover	R		R	F	
<i>Ulmus spp.</i>	Elm species		D			O
<i>Umbilicus rupestris</i>	Navelwort					A
<i>Urtica dioica</i>	Common nettle			R	O	
<i>Vicia spp.</i>	Vetch species	F			A	F
<i>Narcissus spp.</i>	daffodil species	F			O	F
<i>Asplenium obovatum</i>	Lanceolate spleenwort				R	
<i>Vinca minor</i>	periwinkle	A				LF

DAFOR is a nominative scale where D = Dominant, A = Abundant, F = Frequent, O = Occasional and R = Rare. L = Locally; or combination of.



Appendix 4: Legislation and Planning Policy

Protected Habitats, Species and Designated Sites

- The Conservation of Habitats and Species Regulations (HM Government, 2010) (as amended) encompasses Special Areas of Conservation (SACs) and provides additional protection for Special Protected Areas (SPA's), RAMSAR sites and European Protected Species (EPS).
- The Countryside and Rights of Way (CROW) Act (HM Government, 2000) provides additional protection for Sites of Special Scientific Interest (SSSIs) and threatened species; under the CROW Act (2000) Local Authorities have a statutory duty to consider UK BAP priority habitats and species as part of planning applications.
- The Hedgerows Regulations (1997) protects ecologically/ historically important hedgerows.
- The Natural Environment and Rural Communities (NERC) Act (HM Government, 2006) bestows a legal duty on public authorities to conserve biodiversity.
- The Protection of Badgers Act (1992) protects badgers as specified below.
- The Wildlife and Countryside Act (HM Government 1981, as amended) encompasses the protection of wildlife (fauna and flora), SSSIs, SPAs, National Nature Reserves (NNRs) and RAMSAR sites.

Badgers: Badgers are legally protected under the Protection of Badgers Act 1992. As a result of this statutory legislation it is an offence to:

- Purposely kill, injure or take a badger;
- Intentionally or recklessly damage, destroy or obstruct access to a badger sett;
- Disturb a badger when occupying a sett.

Birds: In Britain the nests (whilst in use or being built) and eggs of wild birds are protected against taking, damage and destruction under the Wildlife and Countryside Act 1981 (as amended) (HM Government, 1981).

Some species (i.e. barn owl) are also listed on Schedule 1 of the Wildlife and Countryside Act (HM Government, 1981 as amended); it is an offence to:

- Intentionally capture, injure or kill a Schedule 1 listed species;
- Intentionally or recklessly disturb a Schedule 1 listed species whilst nesting;
- Intentionally or recklessly disturb a dependent young Schedule 1 listed species.

European Protected Species (EPS) (Bat, dormouse, otter, water vole & great crested newt): EPS are listed on Annex IV(a) of the European Communities Habitats Directive.



In Britain protection of EPS is achieved through their inclusion on Schedule 2 of the Conservation and Habitats Regulations 2010, Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) and Schedule 12 of the Countryside and Rights of Way Act 2000 (HM Government, 1981, 2000 & 2010).

As a result of this statutory legislation it is an offence to:

- Deliberately capture, injure or kill an EPS;
- Intentionally or recklessly disturb an EPS in its place of rest/ breeding site;
- Intentionally or recklessly damage, destroy or obstruct access to a EPS place of rest/ breeding site (even if the EPS is not occupying the resting / breeding place at the time);
- Possess or sell or exchange an EPS (dead or alive) or part of an EPS.

Reptiles (species found in Cornwall: adder, common lizard, slow worm and grass snake): reptiles are protected under Schedule 5 (section 9(1) and 9(5)) of the Wildlife and Countryside Act 1981 (as amended). This legislation makes it an offence to kill and/ or injure reptiles, and sell or transport for the purpose of sale.

Statutory Designated Sites

Special Areas of Conservation (SACs) and Special Protection Areas (SPAs) are of International nature conservation importance.

Sites of Special Scientific Interest (SSSIs) and National Nature Reserves (NNRs) are of National importance. Development proposals with potential to affect a SAC, SSSI or NNR require permission from Natural England.

Local Nature Reserves (LNRs) are protected from development; the Local authority is responsible for LNRs.

Non-Statutory Designations

Non-statutory sites include **County Wildlife Sites (CWS), County Geology Sites (CGS), Roadside Verge Audit Biological Sites** and **Ancient Woodlands**. CWSs and CGSs are of at least county importance for wildlife/geology in Cornwall; all are given increased protection through the planning process.

Biodiversity Action Plans (BAPs): BAPs distinguish National and County level priority habitats and species for conservation. The Local Authority has a duty to conserve UK BAP priority habitats and species under Section 74 of the CRoW Act (2000).

Red Data Books & Lists: detail the status of species in relation to threat.

Planning Context

The local planning authority has a statutory obligation to consider impacts upon protected species resulting from development. Planning permission will not be granted with outstanding ecological surveys, and if applicable an appropriate mitigation plan (except under exceptional circumstances as set out in ODPM Circular 06/2005).



National Policy: The National Planning Policy Framework (NPPF) (2012) supersedes Planning Policy Statement 9 (PPS9), though note that Government Circular 06/05 is still in use. Chapter 11 of the NPPF (2012) 'conserving and enhancing the natural environment' is detailed below:

109. The planning system should contribute to and enhance the natural and local environment by:

- protecting and enhancing valued landscapes, geological conservation interests and soils;
- recognising the wider benefits of ecosystem services;
- minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
- preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability; and
- remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

110. In preparing plans to meet development needs, the aim should be to minimise pollution and other adverse effects on the local and natural environment. Plans should allocate land with the least environmental or amenity value, where consistent with other policies in this Framework.

111. Planning policies and decisions should encourage the effective use of land by re-using land that has been previously developed (brownfield land), provided that it is not of high environmental value. Local planning authorities may continue to consider the case for setting a locally appropriate target for the use of brownfield land.

112. Local planning authorities should take into account the economic and other benefits of the best and most versatile agricultural land. Where significant development of agricultural land is demonstrated to be necessary, local planning authorities should seek to use areas of poorer quality land in preference to that of a higher quality.

113. Local planning authorities should set criteria based policies against which proposals for any development on or affecting protected wildlife or geodiversity sites or landscape areas will be judged.

Distinctions should be made between the hierarchy of international, national and locally designated sites so that protection is commensurate with their status and gives appropriate weight to their importance and the contribution that they make to wider ecological networks.

114. Local planning authorities should:

- set out a strategic approach in their Local Plans, planning positively for the creation, protection, enhancement and management of networks of biodiversity and green infrastructure; and
- maintain the character of the undeveloped coast, protecting and enhancing its distinctive landscapes, particularly in areas defined as Heritage Coast, and improve public access to and enjoyment of the coast.

115. Great weight should be given to conserving landscape and scenic beauty in National Parks, the Broads and Areas of Outstanding Natural Beauty, which have the highest status of protection in relation to landscape and scenic beauty.



The conservation of wildlife and cultural heritage are important considerations in all these areas, and should be given great weight in National Parks and the Broads.

116. Planning permission should be refused for major developments in these designated areas except in exceptional circumstances and where it can be demonstrated they are in the public interest. Consideration of such applications should include an assessment of:

- the need for the development, including in terms of any national considerations, and the impact of permitting it, or refusing it, upon the local economy;
- the cost of, and scope for, developing elsewhere outside the designated area, or meeting the need for it in some other way; and
- any detrimental effect on the environment, the landscape and recreational opportunities, and the extent to which that could be moderated.

117. To minimise impacts on biodiversity and geodiversity, planning policies should:

- plan for biodiversity at a landscape-scale across local authority boundaries;
- identify and map components of the local ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity, wildlife corridors and stepping stones that connect them and areas identified by local partnerships for habitat restoration or creation;
- promote the preservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species populations, linked to national and local targets, and identify suitable indicators for monitoring biodiversity in the plan;
- aim to prevent harm to geological conservation interests; and
- where Nature Improvement Areas are identified in Local Plans, consider specifying the types of development that may be appropriate in these Areas.

118. When determining planning applications, local planning authorities should aim to conserve and enhance biodiversity by applying the following principles:

- if significant harm 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;
- proposed development on land within or outside a Site of Special Scientific Interest likely to have an adverse effect on a Site of Special Scientific Interest (either individually or in combination with other developments) should not normally be permitted. Where an adverse effect on the site's notified special interest features is likely, an exception should only be made where the benefits of the development, at this site, clearly outweigh both the impacts that it is likely to have 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 proposals where the primary objective is to conserve or enhance biodiversity should be permitted;
- opportunities to incorporate biodiversity in and around developments should be encouraged;
- planning permission should be refused for development resulting in the loss or deterioration of irreplaceable habitats, including ancient woodland and the loss of aged or veteran trees found outside ancient woodland, unless the need for, and benefits of, the development in that location clearly outweigh the loss; and
- the following wildlife sites should be given the same protection as European sites:



- potential Special Protection Areas and possible Special Areas of Conservation;
- listed or proposed RAMSAR sites; and
- sites identified, or required, as compensatory measures for adverse effects on European sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed RAMSAR sites.

119. The presumption in favour of sustainable development (paragraph 14) does not apply where development requiring appropriate assessment under the Birds or Habitats Directives is being considered, planned or determined.

120. To prevent unacceptable risks from pollution and land instability, planning policies and decisions should ensure that new development is appropriate for its location. The effects (including cumulative effects) of pollution on health, the natural environment or general amenity, and the potential sensitivity of the area or proposed development to adverse effects from pollution, should be taken into account. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner.

121. Planning policies and decisions should also ensure that:

- the site is suitable for its new use taking account of ground conditions and land instability, including from natural hazards or former activities such as mining, pollution arising from previous uses and any proposals for mitigation including land remediation or impacts on the natural environment arising from that remediation;
- after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and Potential Special Protection Areas, possible Special Areas of Conservation and proposed Ramsar sites are sites on which Government has initiated public consultation on the scientific case for designation as a Special Protection Area, candidate Special Area of Conservation or Ramsar site;
- adequate site investigation information, prepared by a competent person, is presented.

122. In doing so, local planning authorities should focus on whether the development itself is an acceptable use of the land, and the impact of the use, rather than the control of processes or emissions themselves where these are subject to approval under pollution control regimes. Local planning authorities should assume that these regimes will operate effectively. Equally, where a planning decision has been made on a particular development, the planning issues should not be revisited through the permitting regimes operated by pollution control authorities.

123. Planning policies and decisions should aim to:

- avoid noise from giving rise to significant adverse impacts on health and quality of life as a result of new development;
- mitigate and reduce to a minimum other adverse impacts on health and quality of life arising from noise from new development, including through the use of conditions;
- recognise that development will often create some noise and existing businesses wanting to develop in continuance of their business should not have unreasonable restrictions put on them because of changes in nearby land uses since they were established; and
- identify and protect areas of tranquillity which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason.



124. Planning policies should sustain compliance with and contribute towards EU limit values or national objectives for pollutants, taking into account the presence of Air Quality Management Areas and the cumulative impacts on air quality from individual sites in local areas. Planning decisions should ensure that any new development in Air Quality Management Areas is consistent with the local air quality action plan.

125. By encouraging good design, planning policies and decisions should limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.

Local Policy: The new Local Plan was adopted on the 22nd November 2016.

The key relevant policies from the Local Plan relating to ecology and nature conservation are Policy 22 (European Protected Sites) and Policy 23 (Natural Environment).

Policy 22 is detailed below:

- For residential development and student and tourist accommodation, mitigation measures for recreational impacts on European Sites will be required where development is proposed within the identified zones of influence around those European Sites that are vulnerable to adverse recreational impacts. Residential development, student and tourist accommodation within these zones of influence will be required to provide for appropriate management, mitigation and monitoring on Site, and/ or financial contributions towards off site mitigation and management. This will need to be agreed and secured prior to approval of the development.

Policy 23 comprises a number of measures for development proposals including:

- Development should conserve, protect and where possible enhance biodiversity and geodiversity interests and soils commensurate with their status and giving appropriate weight to their importance (3).
- All development must ensure that the importance of habitats and designated sites are taken into account and consider opportunities for the creation of a local and county-wide biodiversity network of wildlife corridors which link County Wildlife Sites and other areas of biodiversity importance (3);
- The highest level of protection will be given to potential and existing Special Protection Areas, candidate and existing Special Areas of Conservation and listed or proposed RAMSAR sites (3a).
- Development proposals within or outside an SSSI or Marine Conservation Zone which would be likely to adversely affect the site (either individually or in combination with other developments) will not be permitted unless the benefits of the development, at this site, clearly outweigh both the adverse impacts on the site and any adverse impacts on the wider network of SSSI and Marine Conservation Zones (3b).
- Development likely to adversely affect locally designated sites, their features or their function as part of the ecological network, including County Wildlife Sites, Local Geological Sites and sites supporting Biodiversity Action Plan habitats and species, will only be permitted where the need and benefits of the development clearly outweigh the loss and the coherence of the local ecological network is maintained (3c).



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- Adverse impacts on European and UK protected species and Biodiversity Action Plan habitats and species must be avoided wherever possible (i) subject to the legal tests afforded to them, where applicable (ii) otherwise, unless the need for and benefits clearly outweigh the loss (3d).
 - Development must avoid the loss or deterioration of ancient woodland and veteran trees, unless the need for, or benefits of, development on that site clearly outweigh the loss (3e).
 - Development should avoid adverse impact on existing features as a first principle and enable net gains by designing in landscape and biodiversity features and enhancements, and opportunities for geological conservation alongside new development. Where adverse impacts are unavoidable they must be adequately and proportionately mitigated. If full mitigation cannot be provided, compensation will be required as a last resort (4).



WIS Report - Site: P4E467 Study area - SV 910 103, 1000m radius 26/1/2017

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Amphibian

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Bufo bufo	Common Toad	2	1961	1995	Bern:A3	WACA:5_9.5a+9.5b			BAP:2007 & NERC S.41
Rana temporaria	Common Frog	4	2010	2011	Bern:A3 & HabD:A5	WACA:5_9.5a+9.5b			

Bird

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Accipiter gentilis	Northern Goshawk	2	1993	1993	Bonn:A2 & ECCITES:A	WACA:1_1		CRDB	
Accipiter nisus	Sparrowhawk	40	1988	2006	Bonn:A2 & ECCITES:A				
Acrocephalus paludicola	Aquatic Warbler	2	1986	2003	BirdsD:A1 & Bonn:A1+A2		RLGL_01:VU		BAP:2007 & NERC S.41
Acrocephalus palustris	Marsh Warbler	7	1972	2005		WACA:1_1			BAP:2007 & NERC S.41
Actitis hypoleucos	Common Sandpiper	164	1992	2011	Bonn:A2 & CMS_AEWA			CRDB	
Aix galericulata	Mandarin Duck	2	2007	2010	Bonn:A2				
Alauda arvensis	Skylark	84	1991	2006	BirdsD:A2.2				BAP:2007 & NERC S.41
Alca torda	Razorbill	21	2003	2006	CMS_AEWA			CRDB	
Alcedo atthis	Kingfisher	125	1956	2006	Bern:A2 & BirdsD:A1	WACA:1_1			
Alectoris rufa	Red-Legged Partridge	10	2004	2006	BirdsD:A2.1				
Alle alle	Little Auk	17	1991	2007	CMS_AEWA				
Anas acuta	Pintail	11	1993	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA & ECCITES:C	WACA:1_2		CRDB	
Anas americana	American Wigeon	1	1976	1976	Bonn:A2				
Anas clypeata	Shoveller	7	1965	2003	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA & ECCITES:C			CRDB	
Anas crecca	Teal	96	1968	2012	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA & ECCITES:C			CRDB	
Anas discors	Blue-winged Teal	2	1977	1982	Bonn:A2				
Anas penelope	Wigeon	44	1992	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA & ECCITES:C			CRDB	
Anas platyrhynchos	Stanbridge White	12	1985	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA				
Anas querquedula	Garganey	79	1969	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA & ECCITES:A	WACA:1_1		CRDB	
Anas rubripes	Black Duck	17	2003	2003	Bonn:A2			CRDB	
Anas strepera	Gadwall	56	1965	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA			CRDB	
Anser albifrons subsp. albifrons	Anser albifrons subsp. albifrons	4	1966	1968					BAP:2007 & NERC S.41
Anser albifrons subsp. flavirostris	Anser albifrons subsp. flavirostris	1	1992	1992	BirdsD:A1				BAP:2007



Anser anser	Greylag Goose	3	1968	1993	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA	WACA:1_2	
Anthus campestris	Tawny Pipit	28	1983	2005	Bern:A2 & BirdsD:A1		
Anthus cervinus	Red-throated Pipit	8	1981	2005	Bern:A2		
Anthus hodgsoni	Olive-backed Pipit	4	1990	2003	Bern:A2		
Anthus petrosus	Rock Pipit	9	2003	2012	Bern:A2		
Anthus pratensis	Meadow Pipit	66	1988	2006	Bern:A2		
Anthus rubescens	Buff-bellied Pipit	3	1973	2007	Bern:A2		
Anthus spinoletta	Water Pipit	48	1983	2005	Bern:A2		CRDB
Anthus trivialis	Tree Pipit	52	1914	2006	Bern:A2		BAP:2007 & NERC S.41
Apus apus	Swift	165	1938	2011			
Apus melba	Alpine Swift	1	1991	1991	Bern:A2		
Apus pallidus	Pallid Swift	1	2009	2009	Bern:A2		
Ardea alba	Great White Egret	2	2008	2012	Bern:A2 & CMS_AEWA & ECCITES:A		
Ardea cinerea	Heron	64	1995	2015	CMS_AEWA		
Ardea purpurea	Purple Heron	8	1965	2003	Bern:A2 & BirdsD:A1 & CMS_AEWA	WACA:1_1	
Ardeola ralloides	Squacco Heron	3	1970	2007	Bern:A2 & BirdsD:A1 & CMS_AEWA		
Arenaria interpres	Turnstone	74	1993	2014	Bern:A2 & Bonn:A2 & CMS_AEWA		CRDB
Asio flammeus	Short-eared Owl	19	1965	2006	Bern:A2 & BirdsD:A1 & ECCITES:A		
Asio otus	Long-Eared Owl	31	1986	2006	Bern:A2 & ECCITES:A		CRDB
Aythya collaris	Ring-Necked Duck	13	2005	2005	Bonn:A2		
Aythya ferina	Pochard	20	1965	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA		CRDB
Aythya fuligula	Tufted Duck	25	1965	2011	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA		CRDB
Aythya marila	Scaup	3	1993	2006	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA	WACA:1_1	BAP:2007 & NERC S.41
Bartramia longicauda	Upland Sandpiper	1	1993	1993	Bonn:A2		
Bombycilla garrulus	Waxwing	14	1978	2005	Bern:A2		
Botaurus stellaris	Bittern	4	1979	2008	Bern:A2 & BirdsD:A1 & CMS_AEWA	WACA:1_1	BAP:2007 & NERC S.41
Branta bernicla	Brent Goose	5	1976	1993	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA		
Branta bernicla subsp. bernicla	Dark-Bellied Brent Goose	1	2005	2005			BAP:2007 & NERC S.41
Branta leucopsis	Barnacle Goose	2	1972	2004	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA		
Bubulcus ibis	Cattle Egret	7	2007	2009	CMS_AEWA & ECCITES:A		
Bucephala clangula	Goldeneye	2	1965	2003	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA	WACA:1_2	
Buteo buteo	Common Buzzard	39	2003	2011	Bonn:A2 & ECCITES:A		
Calandrella brachydactyla	Short-Toed Lark	12	2003	2005	Bern:A2 & BirdsD:A1		
Calcarius lapponicus	Lapland Longspur	56	1991	2006	Bern:A2	WACA:1_1	
Calidris alba	Sanderling	48	1993	2006	Bern:A2 & Bonn:A2 & CMS_AEWA		CRDB



Calidris alpina	Dunlin	137	1993	2006	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2		CRDB	
Calidris bairdii	Baird's Sandpiper	7	1977	2005	Bern:A2 & Bonn:A2			
Calidris canutus	Red Knot	13	1992	2005	BirdsD:A2.2 & Bonn:A2 & CMS AEWA Bonn:A2		CRDB	
Calidris ferruginea	Curlew Sandpiper	20	1991	2006	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2			
Calidris fuscicollis	White-rumped Sandpiper	2	1993	1993	Bern:A2 & Bonn:A2			
Calidris maritima	Purple Sandpiper	65	1932	2006	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2	WACA:1_1	CRDB	
Calidris melanotos	Pectoral Sandpiper	32	1977	2005	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2			
Calidris minuta	Little Stint	28	1991	2005	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2			
Calidris pusilla	Semipalmated Sandpiper	7	2003	2003	Bern:A2 & Bonn:A2			
Calidris temminckii	Temminck's Stint	2	2009	2011	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2	WACA:1_1		
Calonectris diomedea	Cory's Shearwater	22	1993	2006	BirdsD:A1			
Caprimulgus europaeus	Nightjar	2	2005	2005	Bern:A2 & BirdsD:A1		CRDB	BAP:2007 & NERC S.41
Carduelis cabaret	Lesser Redpoll	2	1991	1992			CRDB	BAP:2007 & NERC S.41
Carduelis cannabina	Linnet	76	1991	2006	Bern:A2			BAP:2007
Carduelis carduelis	Goldfinch	73	1991	2013	Bern:A2			
Carduelis chloris	Greenfinch	28	1991	2009	Bern:A2			
Carduelis spinus	Siskin	19	1991	2006	Bern:A2		CRDB	
Carpodacus erythrinus	Scarlet Rosefinch	21	1992	2006	Bern:A2	WACA:1_1		
Cettia cetti	Cetti's Warbler	33	1980	2005		WACA:1_1	CRDB	
Charadrius alexandrinus	Kentish Plover	1	2007	2007	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2	WACA:1_1		
Charadrius dubius	Little Ringed Plover	1	2006	2006	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2	WACA:1_1		
Charadrius hiaticula	Ringed Plover	98	1972	2009	Bern:A2 & Bonn:A2 & CMS AEWA Bonn:A2		CRDB	
Charadrius morinellus	Dotterel	34	2003	2006	BirdsD:A1 & Bonn:A2 & CMS AEWA Bonn:A2	WACA:1_1		
Chlidonias niger	Black Tern	10	1991	2006	Bern:A2 & BirdsD:A1 & CMS AEWA Bonn:A2	WACA:1_1		
Chordeiles minor	Common Nighthawk	2	1976	2008	Bern:A2			
Ciconia ciconia	White Stork	2	1971	1971	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA Bonn:A2			
Ciconia nigra	Black Stork	1	2011	2011	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA Bonn:A2			
Circus aeruginosus	Marsh Harrier	51	1949	2006	BirdsD:A1 & Bonn:A2 & ECCITES:A Bonn:A2			
Circus cyaneus	Hen Harrier	13	2003	2006	BirdsD:A1 & Bonn:A2 & ECCITES:A Bonn:A2		CRDB	NERC S.41
Circus macrourus	Pallid Harrier	3	2005	2011	BirdsD:A1 & Bonn:A2 & ECCITES:A Bonn:A2			
Circus pygargus	Montagu's Harrier	3	1993	2004	BirdsD:A1 & Bonn:A2 & ECCITES:A Bonn:A2			



Clangula hyemalis	Long-tailed Duck	5	1967	2005	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA Bern:A2	WACA:1_1		
Coccothraustes coccothraustes	Hawfinch	30	1991	2005				BAP:2007 & NERC S.41
Columba oenas	Stock Dove	15	2003	2006	BirdsD:A2.2			
Columba palumbus	Woodpigeon	17	1994	2006	BirdsD:A2.1			
Coracias garrulus	Roller	1	2006	2006	Bern:A2 & BirdsD:A1 & Bonn:A2			
Corvus corone	Carion Crow	4	2005	2005	BirdsD:A2.2			
Corvus frugilegus	Rook	18	1992	2006	BirdsD:A2.2			
Corvus monedula	Jackdaw	10	1992	2006	BirdsD:A2.2			
Coturnix coturnix	Quail	23	1985	2006	BirdsD:A2.2	WACA:1_1	CRDB	
Crex crex	Corncrake	5	1967	2004	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA	WACA:1_1		BAP:2007 & NERC S.41
Cuculus canorus	Cuckoo	113	1954	2011				BAP:2007 & NERC S.41
Cursorius cursor	Cream-coloured Courser	4	2004	2004	Bern:A2 & BirdsD:A1			
Cyanistes caeruleus	Blue Tit	1	1991	1991	Bern:A2			
Cygnus columbianus	Bewick's Swan	1	2004	2004	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA	WACA:1_1		BAP:2007
Cygnus olor	Mute Swan	15	1993	2006	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA			
Delichon urbicum	House Martin	38	2004	2004	Bern:A2			
Dendrocopos major	Great Spotted Woodpecker	14	2006	2006	Bern:A2			
Egretta garzetta	Little Egret	112	2003	2012	Bern:A2 & BirdsD:A1 & CMS_AEWA & ECCITES:A		CRDB	
Emberiza aureola	Yellow-breasted Bunting	2	1993	2009	Bern:A2			
Emberiza calandra	Corn Bunting	2	1984	1992			CRDB	BAP:2007
Emberiza citrinella	Yellowhammer	8	1993	2005	Bern:A2			BAP:2007 & NERC S.41
Emberiza hortulana	Ortolan Bunting	18	1991	2005	BirdsD:A1			
Emberiza pusilla	Little Bunting	9	1991	2005	Bern:A2			
Emberiza rustica	Rustic Bunting	2	1993	2003	Bern:A2			
Emberiza schoeniclus	Reed Bunting	64	1991	2006	Bern:A2			BAP:2007 & NERC S.41
Eremophila alpestris	Shorelark	2	1984	2003	Bern:A2	WACA:1_1		
Erithacus rubecula	Robin	22	1991	2016	Bern:A2			
Falco columbarius	Merlin	67	1952	2007	Bern:A2 & BirdsD:A1 & Bonn:A2 & ECCITES:A	WACA:1_1		
Falco naumanni	Lesser Kestrel	2	2002	2002	Bern:A2 & BirdsD:A1 & Bonn:A1+A2 & ECCITES:A			
Falco peregrinus	Peregrine Falcon	82	1993	2011	Bern:A2 & BirdsD:A1 & Bonn:A2 & ECCITES:A	WACA:1_1	CRDB	
Falco rusticolus	Gyr Falcon	1	2008	2008	Bern:A2 & BirdsD:A1 & Bonn:A2 & ECCITES:A	WACA:1_1		
Falco subbuteo	Hobby	72	1987	2006	Bern:A2 & Bonn:A2 & ECCITES:A	WACA:1_1	CRDB	
Falco tinnunculus	Kestrel	74	1985	2006	Bern:A2 & Bonn:A2 & ECCITES:A			
Ficedula hypoleuca	Pied Flycatcher	101	1986	2006	Bern:A2		CRDB	



Ficedula parva	Red-breasted Flycatcher	32	1951	2006	BirdsD:A1			
Fratercula arctica	Puffin	10	1992	2005	CMS_AEWA		CRDB	
Fringilla montifringilla	Brambling	25	1991	2006		WACA:1_1		
Fulica atra	Coot	26	1985	2009	BirdsD:A2.1 & CMS AEWA			
Fulmarus glacialis	Northern Fulmar	15	1991	2006				
Gallinago gallinago	Snipe	168	1991	2011	BirdsD:A2.1 & Bonn:A2 & CMS AEWA		CRDB	
Gallinula chloropus	Moorhen	38	1985	2013	BirdsD:A2.2 & Bonn:A2 & CMS AEWA			
Gavia arctica	Black-Throated Diver	11	1968	2006	Bern:A2 & BirdsD:A1 & CMS AEWA		CRDB	BAP:2007
Gavia immer	Great Northern Diver	17	1932	2006	Bern:A2 & BirdsD:A1 & CMS AEWA		CRDB	
Gavia stellata	Red-throated Diver	8	1968	2005	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA		CRDB	
Haematopus ostralegus	Oystercatcher	16	1993	2011	BirdsD:A2.2 & CMS AEWA		CRDB	
Himantopus himantopus	Black-winged Stilt	3	2005	2005	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA	WACA:1_1		
Hirundo rustica	Swallow	212	1947	2014	Bern:A2			
Hydrobates pelagicus	Storm-petrel	11	1991	2006	Bern:A2 & BirdsD:A1		CRDB	
Ixobrychus minutus	Little Bittern	3	1970	2009	Bern:A2 & BirdsD:A1 & CMS AEWA	WACA:1_1		
Jynx torquilla	Wryneck	138	1987	2006	Bern:A2	WACA:1_1		BAP:2007
Lanius collurio	Red-backed Shrike	22	1989	2006	Bern:A2 & BirdsD:A1	WACA:1_1		BAP:2007
Lanius excubitor	Great Grey Shrike	2	2003	2009	Bern:A2			
Lanius senator	Woodchat Shrike	26	1983	2011	Bern:A2			
Larus argentatus	Herring Gull	28	1991	2014	BirdsD:A2.2 & CMS AEWA			BAP:2007
Larus canus	Mew Gull	94	1991	2006	BirdsD:A2.2 & CMS AEWA			
Larus fuscus	Lesser Black-Backed Gull	45	1992	2012	BirdsD:A2.2 & CMS AEWA			
Larus glaucooides	Iceland Gull	8	1990	2007	CMS AEWA			
Larus hyperboreus	Glaucous Gull	6	1992	2005	CMS_AEWA			
Larus marinus	Great Black-backed Gull	13	1994	2006	BirdsD:A2.2 & CMS AEWA			
Larus melanocephalus	Mediterranean Gull	217	2003	2007	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	
Larus michahellis	Yellow-legged Gull	3	2004	2004				
Larus minutus	Little Gull	21	1992	2006	Bern:A2 & BirdsD:A1 & CMS AEWA	WACA:1_1		
Larus ridibundus	Black-Headed Gull	74	2003	2006	BirdsD:A2.2 & CMS AEWA		CRDB	
Larus sabini	Sabine's Gull	4	1991	2003	Bern:A2 & CMS AEWA			
Limnodromus scolopaceus	Long-billed Dowitcher	3	1975	1985	Bonn:A2			
Limosa lapponica	Bar-Tailed Godwit	44	2003	2006	BirdsD:A1 & BirdsD:A2.2 & Bonn:A2 & CMS AEWA		CRDB	
Limosa limosa	Black-tailed Godwit	31	1991	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	BAP:2007
Locustella luscinioides	Savi's Warbler	27	2003	2003		WACA:1_1		BAP:2007 & NERC S.41
Locustella naevia	Grasshopper Warbler	61	1984	2006				BAP:2007 & NERC S.41



<i>Loxia curvirostra</i>	Crossbill	31	1991	2005	Bern:A2		CRDB	
<i>Lullula arborea</i>	Woodlark	4	1987	1993	BirdsD:A1	WACA:1_1	CRDB	BAP:2007 & NERC S.41
<i>Luscinia megarhynchos</i>	Nightingale	1	2003	2003	Bern:A2			
<i>Luscinia svecica</i>	Bluethroat	14	1986	2004	Bern:A2 & BirdsD:A1	WACA:1_1		
<i>Lymnocyptes minimus</i>	Jack Snipe	125	1991	2006	BirdsD:A2.1 & Bonn:A2 & CMS AEWA			
<i>Melanitta fusca</i>	Velvet Scoter	2	1965	1965	BirdsD:A2.2 & Bonn:A2 & CMS AEWA	WACA:1_1		
<i>Melanitta nigra</i>	Common Scoter	19	1968	2005	BirdsD:A2.2 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	BAP:2007 & NERC S.41
<i>Melanitta perspicillata</i>	Surf Scoter	7	1865	2004	Bonn:A2			
<i>Melanocorypha calandra</i>	Calandra Lark	1	1985	1985	Bern:A2 & BirdsD:A1			
<i>Mergus merganser</i>	Goosander	7	2003	2004	BirdsD:A2.2 & Bonn:A2 & CMS AEWA		CRDB	
<i>Mergus serrator</i>	Red-Breasted Merganser	8	1970	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA			
<i>Merops apiaster</i>	European Bee-eater	3	2003	2011	Bern:A2 & Bonn:A2	WACA:1_1		
<i>Milvus migrans</i>	Black Kite	1	2003	2003	BirdsD:A1 & Bonn:A2 & ECCITES:A CMS AEWA			
<i>Morus bassanus</i>	Northern Gannet	4	1979	1988				
<i>Motacilla cinerea</i>	Grey Wagtail	55	1903	2006	Bern:A2			
<i>Motacilla citreola</i>	Citrine Wagtail	3	1986	2004	Bern:A2			
<i>Motacilla flava</i>	Yellow Wagtail	31	1973	2004	Bern:A2			BAP:2007
<i>Motacilla flava subsp. flavissima</i>	Yellow Wagtail	28	2005	2006				BAP:2007 & NERC S.41
<i>Muscicapa striata</i>	Spotted Flycatcher	72	1985	2006	Bern:A2 & Bonn:A2			BAP:2007 & NERC S.41
<i>Netta rufina</i>	Red-crested Pochard	1	2002	2002	BirdsD:A2.2 & Bonn:A2 & CMS AEWA			
<i>Numenius arquata</i>	Curlew	20	2003	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA		CRDB	BAP:2007 & NERC S.41
<i>Numenius phaeopus</i>	Whimbrel	130	1991	2008	BirdsD:A2.2 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	
<i>Nycticorax nycticorax</i>	Night Heron	14	1970	2005	Bern:A2 & BirdsD:A1 & CMS AEWA			
<i>Oceanodroma leucorhoa</i>	Leach's Petrel	1	2004	2004	Bern:A2 & BirdsD:A1	WACA:1_1		
<i>Oenanthe isabellina</i>	Isabelline Wheatear	1	1990	1990	Bern:A2			
<i>Oenanthe oenanthe</i>	Wheatear	252	1960	2014	Bern:A2			
<i>Oenanthe pleschanka</i>	Pied Wheatear	3	2001	2003	Bern:A2			
<i>Oriolus oriolus</i>	Golden Oriole	40	1960	2011	Bern:A2	WACA:1_1		
<i>Otus scops</i>	Scops Owl	1	1976	1976	Bern:A2 & ECCITES:A			
<i>Pandion haliaetus</i>	Osprey	5	1975	2004	BirdsD:A1 & Bonn:A2 & ECCITES:A	WACA:1_1		
<i>Panurus biarmicus</i>	Bearded Tit	1	1850	1850	Bern:A2	WACA:1_1		
<i>Parus major</i>	Great Tit	16	1938	2009	Bern:A2			
<i>Passer domesticus</i>	House Sparrow	49	1991	2014				BAP:2007 & NERC S.41
<i>Periparus ater</i>	Coal Tit	4	1979	1992	Bern:A2			
<i>Pernis apivorus</i>	Honey Buzzard	4	2003	2005	BirdsD:A1 & Bonn:A2 & ECCITES:A	WACA:1_1		
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow	2	1983	2000	Bern:A2			
<i>Phalacrocorax aristotelis</i>	Shag	11	1960	2014	Bern:A2			



Phalacrocorax carbo	Cormorant	15	2003	2005	CMS_AEWA			
Phalaropus fulicarius	Grey Phalarope	14	1991	2005	Bern:A2 & Bonn:A2 & CMS_AEWA BirdsD:A2.1			
Phasianus colchicus	Pheasant	2	1993	2004				
Philomachus pugnax	Ruff	26	1991	2006	BirdsD:A1 & BirdsD:A2.2 & Bonn:A2 & CMS_AEWA Bern:A2	WACA:1_1		
Phoenicurus ochruros	Black Redstart	207	1980	2007	Bern:A2	WACA:1_1		
Phoenicurus phoenicurus	Redstart	44	1980	2006	Bern:A2			
Phylloscopus sibilatrix	Wood Warbler	24	1989	2006			CRDB	BAP:2007 & NERC S.41
Phylloscopus trochilus	Willow Warbler	80	1985	2006				
Pica pica	Magpie	1	2003	2003	BirdsD:A2.2			
Platalea leucorodia	Spoonbill	10	1966	2006	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA & FCCTES-A Bern:A2	WACA:1_1	CRDB	
Plectrophenax nivalis	Snow Bunting	46	1991	2012		WACA:1_1		
Pluvialis apricaria	Golden Plover	120	1991	2006	BirdsD:A1 & BirdsD:A2.2 & Bonn:A2 & CMS_AEWA Bonn:A2		CRDB	
Pluvialis dominica	American Golden Plover	5	1975	2003				
Pluvialis squatarola	Grey Plover	6	1993	2004	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA Bern:A2		CRDB	
Podiceps auritus	Slavonian Grebe	2	1991	2003	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA Bern:A2 & CMS_AEWA	WACA:1_1	CRDB	
Podiceps nigricollis	Black-necked Grebe	1	1968	1968		WACA:1_1	CRDB	
Podilymbus podiceps	Pied-billed Grebe	1	1999	1999			CRDB	
Porzana parva	Little Crane	2	2003	2003	Bern:A2 & BirdsD:A1 & CMS_AEWA Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS_AEWA Bern:A2	WACA:1_1		
Porzana porzana	Spotted Crane	17	1975	2005				
Prunella modularis	Hedge-sparrow	9	1983	2009				BAP:2007
Puffinus assimilis	Little Shearwater	1	2004	2004	BirdsD:A1			
Puffinus griseus	Sooty Shearwater	20	1975	2006				
Puffinus mauretanicus	Balearic Shearwater	22	2004	2007			RLGL_01:CR	BAP:2007 & NERC S.41
Puffinus puffinus	Manx Shearwater	32	2003	2006	Bern:A2		CRDB	
Pyrrhula pyrrhula	Bullfinch	3	2003	2006				BAP:2007
Rallus aquaticus	Water Rail	90	1991	2011	BirdsD:A2.2 & CMS_AEWA Bern:A2		CRDB	
Regulus regulus	Goldcrest	12	2004	2006				
Riparia riparia	Sand Martin	168	1958	2011	Bern:A2		CRDB	
Rissa tridactyla	Kittiwake	38	1990	2006	CMS_AEWA		CRDB	
Saxicola rubetra	Whinchat	78	1992	2006	Bern:A2		CRDB	
Saxicola torquata	Stonechat	9	1994	2013	Bern:A2			
Scolopax rusticola	Woodcock	45	1992	2006	BirdsD:A2.1 & Bonn:A2 & CMS_AEWA Bern:A2			
Serinus serinus	Serin	28	1993	2005		WACA:1_1		
Somateria mollissima	Eider	1	2005	2005	BirdsD:A2.2 & Bonn:A2 & CMS_AEWA			
Stercorarius parasiticus	Arctic Skua	38	1979	2006				BAP:2007
Stercorarius skua	Great Skua	31	2003	2006	CMS_AEWA			



<i>Sterna dougallii</i>	Sooty Tern	1	1981	1981	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	BAP:2007 & NERC S.41
<i>Sterna hirundo</i>	Common Tern	14	1992	2006	Bern:A2 & BirdsD:A1 & CMS AEWA		CRDB	
<i>Sterna paradisaea</i>	Arctic Tern	24	1979	2006	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA			
<i>Sterna sandvicensis</i>	Sandwich Tern	88	1979	2008	Bern:A2 & BirdsD:A1 & CMS AEWA		CRDB	
<i>Streptopelia decaocto</i>	Eurasian Collared Dove	33	1991	2009	BirdsD:A2.2			
<i>Streptopelia turtur</i>	Turtle Dove	75	1988	2006	BirdsD:A2.2 & ECCITES:A			BAP:2007 & NERC S.41
<i>Strix aluco</i>	Tawny Owl	1	1993	1993	Bern:A2 & ECCITES:A			
<i>Sturnus roseus</i>	Rosy Starling	1	1978	1978	Bern:A2			
<i>Sturnus vulgaris</i>	Starling	34	1984	2012	BirdsD:A2.2			BAP:2007
<i>Sylvia communis</i>	Whitethroat	79	1965	2006				
<i>Sylvia curruca</i>	Lesser Whitethroat	34	1973	2006			CRDB	
<i>Sylvia nisoria</i>	Barred Warbler	27	1974	2005	BirdsD:A1			
<i>Sylvia undata</i>	Dartford Warbler	2	2003	2003	BirdsD:A1	WACA:1_1	CRDB	
<i>Tachybaptus ruficollis</i>	Little Grebe	14	1967	2006	CMS AEWA		CRDB	
<i>Tadorna tadorna</i>	Shelduck	20	2003	2006	Bern:A2 & Bonn:A2 & CMS AEWA		CRDB	
<i>Tarsiger cyanurus</i>	Red-flanked Bluetail	1	2008	2008	Bern:A2			
<i>Tringa erythropus</i>	Spotted Redshank	11	1987	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA		CRDB	
<i>Tringa flavipes</i>	Lesser Yellowlegs	21	1992	2004	Bonn:A2			
<i>Tringa glareola</i>	Wood Sandpiper	34	1974	2006	Bern:A2 & BirdsD:A1 & Bonn:A2 & CMS AEWA	WACA:1_1		
<i>Tringa nebularia</i>	Greenshank	286	1980	2011	BirdsD:A2.2 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	
<i>Tringa ochropus</i>	Green Sandpiper	205	1974	2011	Bern:A2 & Bonn:A2 & CMS AEWA	WACA:1_1	CRDB	
<i>Tringa solitaria</i>	Solitary Sandpiper	6	1882	2003	Bonn:A2			
<i>Tringa stagnatilis</i>	Marsh Sandpiper	1	2009	2009	Bern:A2 & Bonn:A2 & CMS AEWA			
<i>Tringa totanus</i>	Redshank	84	1993	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA		CRDB	
<i>Troglodytes troglodytes</i>	Wren	17	1988	2016	Bern:A2			
<i>Tryngites subruficollis</i>	Buff-breasted Sandpiper	64	1962	2004	Bonn:A2			
<i>Turdus iliacus</i>	Redwing	36	1985	2006	BirdsD:A2.2	WACA:1_1		
<i>Turdus merula</i>	Common Blackbird	33	1980	2016	BirdsD:A2.2			
<i>Turdus philomelos</i>	Song Thrush	19	1983	2013	BirdsD:A2.2			BAP:2007
<i>Turdus pilaris</i>	Fieldfare	36	1984	2006	BirdsD:A2.2	WACA:1_1		
<i>Turdus torquatus</i>	Ring Ouzel	48	1903	2006	Bern:A2			BAP:2007 & NERC S.41
<i>Turdus viscivorus</i>	Mistle Thrush	28	1960	2006	BirdsD:A2.2			
<i>Tyto alba</i>	Barn Owl	2	2005	2005	Bern:A2 & ECCITES:A	WACA:1_1	CRDB	
<i>Upupa epops</i>	Hoopoe	35	1957	2006	Bern:A2	WACA:1_1		
<i>Uria aalge</i>	Guillemot	18	1985	2006	CMS AEWA		CRDB	
<i>Vanellus gregarius</i>	Sociable Plover	1	2008	2008	CMS AEWA			



Vanellus vanellus	Lapwing	47	1979	2006	BirdsD:A2.2 & Bonn:A2 & CMS AEWA			CRDB	BAP:2007 & NERC S.41
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Cordata

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Branchiostoma lanceolatum	Lancelet	1	1969	1969				CRDB	

Fish

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Anguilla anguilla	European Eel	8	1850	2012			RLGL_01:CR	CRDB	BAP:2007 & NERC S.41
Balistes capriscus	Grey Trigger-fish	2	2001	2001				CRDB	
Cetorhinus maximus	Basking Shark	9	1999	2010	Bern:A2	WACA:5_9.1k+9.1t+9.4a+9.4b+9.5a+9.5b+9.4A*+9.4	RLGL_94:VU	CRDB	BAP:2007 & NERC S.41
Coryphoblennius galerita	Montagu's Blenny	1	2010	2010				CRDB	
Gobius cobitis	Giant Goby	2	1952	1952		WACA:5_9.1k+9.1t+9.4a+9.4b+9.5a+9.5b+9.4c		CRDB	
Mauroliscus muelleri	Sheppy Argentine	16	2008	2009				CRDB	
Mola mola	Sun-fish	13	1997	2016				CRDB	
Pleuronectes platessa	Plaice	4	1983	2010					BAP:2007 & NERC S.41
Pomatoschistus microps	Common Goby	1	1985	1985	Bern:A3				
Pomatoschistus minutus	Sand goby	2	1985	1985	Bern:A3				
Scorpaena scrofa	Scorpion-fish	1	1983	1983				CRDB	

Fungi

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Ceraceomyces sublaevis	Ceraceomyces sublaevis	2	1965	1965				CRDB	
Coprinus patouillardii	Coprinus patouillardii	2	1965	1965				CRDB	
Peniophora nuda	Peniophora nuda	2	1965	1965				CRDB	
Rhymbocarpus cruciatus	Rhymbocarpus cruciatus	2	1979	1979				CRDB	
Uromyces ambiguus	Uromyces ambiguus	1	2002	2002				CRDB	
Uromyces beticola	Uromyces beticola	2	1965	1965				CRDB	

Invertebrate

Scientific_Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Acanthoxyla geisovii	Prickly Stick-insect	23	1995	2012				CRDB	
Acheta domesticus	House Cricket	12	1994	2009				CRDB	
Acronicta rumicis	Knotgrass	5	2004	2011					BAP:2007 & NERC S.41
Aeshna mixta	Scarce Hawker	24	1995	2012			RLGB_01:LC	CRDB	
Agabus (Gaurodytes) conspersus	Agabus (Gaurodytes) conspersus	1	1925	1925			Notable:B		
Aiptasia mutabilis	Trumpet anemone	1	2010	2010			Marine:NS	CRDB	
Alcyonium glomeratum	Red dead men's fingers	4	1964	2010				CRDB	
Amphipyra tragopoginis	Mouse Moth	1	2011	2011					BAP:2007 & NERC S.41
Anax parthenope	Lesser Emperor	4	2005	2006				CRDB	
Ancylosis oblitella	Saltmarsh Knot-horn	4	2006	2011			Notable		
Andrena thoracica	Andrena thoracica	85	1995	2003				CRDB	
Anthopleura ballii	Red Speckled Anemone	11	1866	2009				CRDB	
Anthopleura thallia	Glaucus pimplet	1	2010	2010			Marine:NS	CRDB	
Apamea remissa	Dusky Brocade	1	2011	2011					BAP:2007 & NERC S.41
Aplysia depilans	Aplysia depilans	2	2008	2011				CRDB	



Aplysia fasciata	Aplysia fasciata	1	2007	2007			CRDB	
Arctia caja	Garden Tiger	5	1993	2011				BAP:2007 & NERC S.41
Axinella damicornis	Sponge	1	2010	2010		Marine:NS	CRDB	
Axinella dissimilis	Axinella dissimilis	2	2010	2010			CRDB	
Blepharita adusta	Dark Brocade	1	1961	1961				BAP:2007 & NERC S.41
Bombus jonellus	Heath Bumble Bee	4	1995	1995			CRDB	
Bombus muscorum	Bombus muscorum	1	1925	1925			CRDB	
Bugula calathus	Bugula calathus	1	1966	1966			CRDB	
Caradrina morpheus	Mottled Rustic	4	2004	2011				BAP:2007 & NERC S.41
Cassida nobilis	Cassida nobilis	1	1987	1987		Notable:B		
Caulerpiella alata	Caulerpiella alata	2	1997	1997			CRDB	
Cercyon (Cercyon) sternalis		2	2015	2015		Notable:B		
Ceriodaphnia dubia	Ceriodaphnia dubia	1	1987	1987			CRDB	
Ceropales maculata	Ceropales maculata	1	1999	1999			CRDB	
Cestopagurus timidus	Cestopagurus timidus	1	1965	1965			CRDB	
Chauvetia brunnea	Chauvetia brunnea	1	1999	1999			CRDB	
Chromaspirina parapontica	Chromaspirina parapontica	2	1966	1966			CRDB	
Chrysis fulgida	Ruby-tailed Wasp	1	2011	2011		RLGB_P94:EN		BAP:2007 & NERC S.41
Conocephalus discolor	Long-winged Cone-head	31	1990	2011			CRDB	
Conocephalus dorsalis	Short-winged Cone-head	3	1996	2016			CRDB	
Cryptopleurum crenatum	Cryptopleurum crenatum	2	1900	1965		Notable		
Cupido minimus	Small Blue	1	2014	2014	WACA:5_9.5a+9.5b	RLGB_01:NT		BAP:2007 & NERC S.41
Cylisticus convexus	Cylisticus convexus	1	1985	1985			CRDB	
Danaus plexippus	Monarch	52	1981	2014	Bonn:A2			
Dasytes virens	Dasytes virens	1	2006	2006		Notable:B		
Desmacidon fruticosum	Sponge	1	2010	2010		Marine:NR	CRDB	
Diarsia rubi	Small Square-spot	6	2004	2011				BAP:2007 & NERC S.41
Diazona violacea	Football Ascidian	3	1966	2010			CRDB	
Dichomeris alacella	Lichen Sober	1	1984	1984		Notable		
Dolicharthria punctalis	Long-legged China-mark	1	2011	2011		Notable:B		
Ectobius panzeri	Lesser Cockroach	3	1991	2007			CRDB	
Enallagma cyathigerum	Common Blue Damselfly	1	2004	2004		RLGB_01:LC		
Enoploides brunettii	Enoploides brunettii	1	1967	1967			CRDB	
Enoplolaimus litoralis	Enoplolaimus litoralis	1	1966	1966			CRDB	
Enoplus paralittoralis	Enoplus paralittoralis	1	1971	1971			CRDB	
Epistrophe euchroma	Epistrophe euchroma	2	1992	1992		RLGB_P94:R		
Ethmia bipunctella	Bordered Ermel	4	2003	2006		RLGB_P94:VU		
Euchone southerni	Euchone southerni	1	1955	1955			CRDB	
Eudonia delunella	Pied Grey	1	2011	2011		Notable:B		
Eugnorisma glareosa	Autumnal Rustic	1	2010	2010				BAP:2007 & NERC S.41
Eumerus ornatus	Eumerus ornatus	1	1996	1996		Notable		
Eunicella verrucosa	Sea fan	3	1980	2010	WACA:5_9.1k+9.1t+9.5a+9.5b	Marine:NS & RLGL_94:VU	CRDB	BAP:2007 & NERC S.41
Eurysyllis tuberculata	Eurysyllis tuberculata	2	1966	1966			CRDB	
Evergestis extimalis	Marbled Yellow Pearl	3	2004	2005		Notable:B		



Forficula lesnei	Lesne's Earwig	2	1993	1996		CRDB	
Glycera tridactyla	Glycera tridactyla	1	1997	1997		CRDB	
Gryllotalpa gryllotalpa	Mole Cricket	1	1930	1930	WACA:5_9.1k+9.1t+9.4a+9.4b+9.5a+9.5b+9.4c	RLGB_P94:EN	CRDB BAP:2007 & NERC S.41
Haliclystus auricula	Stalked Jellyfish	6	1903	2010		CRDB	BAP:2007 & NERC S.41
Homaxinella subdola	Homaxinella subdola	1	2010	2010		CRDB	
Hoplodrina blanda	Rustic	4	2004	2011			BAP:2007 & NERC S.41
Hydaticus transversalis	Hydaticus transversalis	1	1967	1967		RLGB_P94:R	CRDB
Hydraecia micacea	Rosy Rustic	9	2002	2014			BAP:2007 & NERC S.41
Hypena obsitalis	Bloxworth Snout	5	2011	2014			CRDB
Idaea degeneraria	Portland Ribbon Wave	1	2004	2004		RLGB_P94:R	CRDB
Idaea ochrata	Bright Wave	1	2006	2006		RLGB_P94:R	
Ischnura elegans	Blue-Tailed Damselfly	16	1976	2009		RLGB_01:LC	
Janthina janthina	Violet Snail	1	2004	2004			CRDB
Janthina pallida	Janthina pallida	1	1999	1999			CRDB
Labia minor	Lesser Earwig	2	1904	2010			CRDB
Lasiommata megera	Wall Butterfly	1	2006	2006		RLGB_01:NT	BAP:2007 & NERC S.41
Lasius mixtus	Lasius mixtus	1	1993	1993			CRDB
Lasius psammophilus	Lasius psammophilus	4	1996	2001			CRDB
Leptomysis mediterranea	Leptomysis mediterranea	3	1967	1978			CRDB
Liparus coronatus	Liparus coronatus	1	1962	1962		Notable:B	
Loxostege sticticalis	Diamond-spot Sable	5	2004	2006		RLGB_P94:EX	
Lucernariopsis campanulata	Lucernariopsis campanulata	4	1969	2009			CRDB BAP:2007 & NERC S.41
Luidia sarsi	Luidia sarsi	1	2010	2010			CRDB
Lumbrineris coccinea	Lumbrineris coccinea	1	1966	1966			CRDB
Lygephila cracca	Scarce Black-neck	1	2013	2013		RLGB_P94:R	CRDB
Malacosoma neustria	Lackey	1	2009	2009			BAP:2007 & NERC S.41
Mecyna asinalis	Coastal Pearl	8	1995	2014		Notable:B	
Melanchra pisi	Broom Moth	1	1995	1995			BAP:2007 & NERC S.41
Melitta leporina	Melitta leporina	1	1970	1970			CRDB
Meloe proscarabaeus	Oil Beetle	6	2007	2011			BAP:2007 & NERC S.41
Mesoligia literosa	Rosy Minor	1	2013	2013			BAP:2007 & NERC S.41
Micromaldane ornithochaeta	Micromaldane ornithochaeta	3	1955	1966			CRDB
Miktoniscus patiencei	Miktoniscus patiencei	2	1987	1987			CRDB
Molgula oculata	Sea squirt	1	1972	1972		Marine:NS	CRDB
Myriochele heeri	Myriochele heeri	1	1966	1966			CRDB
Myrmecina graminicola	Grass Ant	1	2005	2005			CRDB
Mythimna comma	Shoulder-striped Wainscot	2	2011	2011			BAP:2007 & NERC S.41
Neosasia geniculata	Neosasia geniculata	2	1997	1998		Notable	
Nothogeophilus turki	Nothogeophilus turki	2	1948	1985			CRDB BAP:2007 & NERC S.41
Nothris congressariella	Cornish Groundling	1	2009	2009		RLGB_P94:R	CRDB
Nymphalis polychloros	Large Tortoiseshell	3	2011	2012			CRDB
Ochthebius (Asiobates) bicolon	Ochthebius (Asiobates) bicolon	2	1931	1931		Notable:B	
Ochthebius (Homalochthebius) lejolisii		1	2015	2015		Notable:B	



Oegoconia caradjai	Straw Obscure	2	2006	2011	Notable:B		
Oinophila v-flava	Yellow V Moth	4	1986	1995		CRDB	
Orthetrum cancellatum	Black-tailed Skimmer	6	2003	2006	RLGB_01:LC	CRDB	
Ostrea edulis	Native oyster	1	2016	2016		CRDB	BAP:2007 & NERC S.41
Oxytelus piceus	Oxytelus piceus	2	1900	1967	RLGB_P94:Ins	CRDB	
Pagurus forbesii	Pagurus forbesii	1	1909	1909		CRDB	
Palinurus elephas	Spiny Lobster	1	1964	1964		CRDB	BAP:2007 & NERC S.41
Paludinella littorina	Lagoon Snail	5	1999	2012		CRDB	
Paradoneis lyra	Paradoneis lyra	1	1966	1966		CRDB	
Paraonis fulgens	Paraonis fulgens	2	1966	1966		CRDB	
Parazoanthus axinellae	Yellow Cluster Anemone	3	2010	2010		CRDB	
Pareurystomina scilloniensis	Pareurystomina scilloniensis	1	1966	1966		CRDB	
Pechipogo strigilata	Common Fan-foot	4	2011	2011			BAP:2007 & NERC S.41
Pediasia contaminella	Waste Grass-veneer	7	2006	2014	Notable:B		
Pelagia noctiluca	Mauve Stinger	1	2010	2010		CRDB	
Pelurga comitata	Dark Spinach	2	2003	2011			BAP:2007 & NERC S.41
Physalia physalis	Portuguese man-of-war	7	1999	2009		CRDB	
Piesma quadratum subsp. spargulariae	Piesma quadratum subsp. spargulariae	2	1965	1987	RLGB_P94:R		
Planes minutus	Planes minutus	1	2016	2016		CRDB	
Platycheirus immarginatus	Platycheirus immarginatus	1	1993	1993	Notable	CRDB	
Ponentina subvirescens	Ponentina subvirescens	4	1916	2003		CRDB	
Porcellio dilatatus	Porcellio dilatatus	1	1987	1987		CRDB	
Porcellio spinicornis	Porcellio spinicornis	1	1984	1984		CRDB	
Prostheceraeus vittatus	Candy stripe flatworm	4	1957	2010		CRDB	
Protapion dissimile	Protapion dissimile	1	1967	1967	Notable:B		
Pyrrhosoma nymphula	Large Red Damselfly	1	2005	2005	RLGB_01:LC		
Rhizodra lutosa	Large Wainscot	40	2005	2014			BAP:2007 & NERC S.41
Sabella discifera	Sabella discifera	1	2010	2010		CRDB	
Sabellaria spinulosa	Ross Worm	3	1955	1966		CRDB	
Sagartiogeton laceratus	Fountain Anenome	1	2010	2010		CRDB	
Scopula marginepunctata	Mullein Wave	3	1993	2011			BAP:2007 & NERC S.41
Sidnym elegans	Sidnym elegans	4	1966	2010		CRDB	
Sitochroa palealis	Sulphur Pearl	5	1989	2006	Notable		
Sphecodes crassus	Sphecodes crassus	3	2001	2001	Notable:B	CRDB	
Spilosoma lubricipeda	White Ermine	6	1993	2014			BAP:2007 & NERC S.41
Spilosoma luteum	Buff Ermine	5	2011	2014			BAP:2007 & NERC S.41
Spirinia schneideri	Spirinia schneideri	2	1966	1966		CRDB	
Sunius bicolor	Sunius bicolor	1	1900	1900	RLGB_P94:Ins	CRDB	
Sympetrum fonscolombii	Red-veined Darter	6	2006	2011	RLGB_01:LC		
Sympetrum striolatum	Dragonfly Common Darter	49	1975	2011	RLGB_01:LC		
Timandra comae	Blood-Vein	2	2010	2011			BAP:2007 & NERC S.41
Trachea atriplicis	Orache Moth	2	2004	2012	RLGB_P94:EX		
Trichoniscoides saeroeensis	Trichoniscoides saeroeensis	1	1987	1987		CRDB	
Trypanosyllis coeliaca	Trypanosyllis coeliaca	1	1966	1966		CRDB	



Trypanosyllis zebra	Trypanosyllis zebra	1	1966	1966			CRDB	
Turbicellepora magnicostata	Orange peel bryozoan	3	1962	2009		Marine:NR		
Typosyllis variegata	Typosyllis variegata	2	1955	1955			CRDB	
Velella velella	By-the-wind-sailor	5	2001	2007			CRDB	
Watersipora complanata	Bryozoan	1	1971	1971		Marine:NR	CRDB	
Xanthandrus comtus	Xanthandrus comtus	18	1984	1996		Notable	CRDB	
Xanthia icteritia	Sallow	1	2006	2006				BAP:2007 & NERC S.41
Xanthorhoe ferrugata	Dark-barred Twin-spot Carpet	4	2011	2011				BAP:2007 & NERC S.41
Xestoleberis labiata	Xestoleberis labiata	1	1966	1966			CRDB	

Mammal

Scientific Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Balaenoptera acutorostrata	Minke Whale	5	2005	2009	Bern:A2+A3 & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Balaenoptera physalus	Fin Whale	1	2012	2012	Bern:A2+A3 & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*	RLGL_01:EN	CRDB	BAP:2007 & NERC S.41
Cetacea	Whales & Dolphins	4	1994	2008	ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*			
Crociodura suaveolens	Lesser White-toothed Shrew	14	1914	2012	Bern:A3			CRDB	
Delphinus delphis	Common Dolphin	56	1968	2011	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Erinaceus europaeus	West European Hedgehog	12	1990	2012	Bern:A3			CRDB	BAP:2007 & NERC S.41
Globicephala melas	Pilot Whale	7	1975	2014	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Grampus griseus	Risso's Dolphin	6	2000	2006	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Halichoerus grypus	Grey Seal	22	2001	2013	Bern:A3 & Bonn:A2 & HabD:A2*+A5	HabR:Sch3 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Lagenorhynchus albirostris	White-Beaked Dolphin	1	1972	1972	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Orcinus orca	Orca (Killer Whale)	2	2004	2004	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Phoca vitulina	Harbour Seal	1	2014	2014	Bern:A3 & Bonn:A2 & HabD:A2*+A5	HabR:Sch3 & WACA:5_9.5a+9.5b+9.4A*			BAP:2007 & NERC S.41
Phocoena phocoena	Harbour porpoise	52	1973	2010	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HabD:A2*+A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*		CRDB	BAP:2007 & NERC S.41
Pipistrellus pipistrellus	Pipistrelle Bat	103	1984	2014	Bern:A2+A3 & Bonn:A2 & CMS_BATS & HabD:A4	HabR:Sch2 & WACA:5_9.4b+9.5a+9.5b+9.4c		CRDB	
Plecotus auritus	Brown Long-eared Bat	1	1904	1904	Bern:A2 & Bonn:A2 & CMS_BATS & HabD:A4	HabR:Sch2 & WACA:5_9.4b+9.5a+9.5b+9.4c		CRDB	BAP:2007 & NERC S.41



Stenella coeruleoalba	Striped Dolphin	5	1984	2007	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HahD:A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*	CRDB	BAP:2007
Tursiops truncatus	Bottle-Nosed Dolphin	3	1989	2008	Bern:A2 & Bonn:A2 & CMS_ASCO & ECCITES:A & HahD:A2*+A4	HabR:Sch2 & WACA:5_9.5a+9.5b+9.4A*	CRDB	BAP:2007 & NERC S.41

Non-vascular plant

Scientific Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Acarospora impressula	Acarospora impressula	1	1997	1997			RLGB_01:LC		
Acrocordia gemmata	Acrocordia gemmata	1	2001	2001			RLGB_01:LC		
Anaptychia runcinata	Anaptychia runcinata	8	1983	2002			RLGB_01:LC		
Aspicilia calcarea	Aspicilia calcarea	1	1997	1997			RLGB_01:LC		
Aspicilia epiglypta	Aspicilia epiglypta	1	2002	2002			Status:NS & RLGB_01:LC		
Aspicilia leproscens	Aspicilia leproscens	1	2002	2002			RLGB_01:LC		
Bacidia incompta	a lichen	3	2002	2002			RLGB_01:VU	CRDB	BAP:2007 & NERC S.41
Bacidia laurocerasi	Bacidia laurocerasi	2	2002	2002			RLGB_01:LC		
Bacidia phacodes	Bacidia phacodes	1	2002	2002			RLGB_01:LC		
Bacidia rubella	Bacidia rubella	7	1997	2002			RLGB_01:LC		
Bacidia scopulicola	Bacidia scopulicola	4	2001	2002			RLGB_01:LC		
Bacidia viridifarinsa	Bacidia viridifarinsa	1	2002	2002			RLGB_01:LC		
Bifurcaria bifurcata	Bifurcaria bifurcata	13	1967	2010				CRDB	
Bornetia secundiflora	Red seaweed	1	1967	1967			Marine:NR	CRDB	
Bryum archangelicum	Archangelic Thread-moss	6	1950	1968			Status:NR & RLGB_01:LC		
Bryum donianum	Don's Thread-moss	8	1950	2003				CRDB	
Bryum dunense	Dune Thread-moss	7	1977	2003				CRDB	
Bryum tenuisetum	Yellow-tuber Thread-moss	4	1962	1996			Status:NS	CRDB	
Bryum torquescens	Twisting Thread-moss	3	1950	1977			Status:NS	CRDB	
Buellia aethalea	Buellia aethalea	1	1997	1997			RLGB_01:LC		
Buellia subdisciformis	Buellia subdisciformis	8	1997	2002			RLGB_01:LC		
Callithamnion tetricum	Callithamnion tetricum	2	1967	1967				CRDB	
Caloplaca britannica	Caloplaca britannica	1	2002	2002			Status:NR & RLGB_01:DD	CRDB	
Caloplaca ceracea	Caloplaca ceracea	1	1997	1997			RLGB_01:LC		
Caloplaca cerina var. chloroleuca	Caloplaca cerina var. chloroleuca	1	2002	2002			Status:NS & RLGB_01:LC		
Caloplaca citrina	Caloplaca citrina	2	2001	2002			RLGB_01:LC		
Caloplaca crenularia	Caloplaca crenularia	3	1997	2002			RLGB_01:LC		
Caloplaca dalmatica	Caloplaca dalmatica	1	1997	1997			RLGB_01:LC		
Caloplaca flavescens	Caloplaca flavescens	1	1997	1997			RLGB_01:LC		
Caloplaca flavocitrina	Caloplaca flavocitrina	2	1997	1997			RLGB_01:LC		
Caloplaca littorea	Caloplaca littorea	2	2001	2002			Status:NS & RLGB_01:LC	CRDB	
Caloplaca marina	Orange Sea Lichen	11	1983	2009			RLGB_01:LC		
Caloplaca maritima	Caloplaca maritima	1	1997	1997			Status:NS & RLGB_01:LC		
Caloplaca microthallina	Caloplaca microthallina	2	2001	2002			RLGB_01:LC		



Caloplaca thallincola	Caloplaca thallincola	6	1983	2002	RLGB_01:LC	
Caloplaca verruculifera	Orange Sea Star	2	2001	2002	RLGB_01:LC	
Campylopus pyriformis	Dwarf Swan-neck Moss	13	1950	2003		CRDB
Candelariella reflexa	Candelariella reflexa	1	1997	1997	RLGB_01:LC	
Carpomitra costata	Brown seaweed	1	2010	2010	Marine:NS	CRDB
Catillaria chalybeia var. chalybeia	Catillaria chalybeia var. chalybeia	1	1997	1997	RLGB_01:LC	
Catillaria lenticularis	Catillaria lenticularis	1	1997	1997	RLGB_01:LC	
Cephalozia catenulata	Chain Pincerwort	1	1950	1950	Status:NS	
Cephaloziella stellulifera	Heath Threadwort	2	1950	1984	Status:NS	
Champia parvula	Champia parvula	1	1967	1967		CRDB
Chenia leptophylla	Vectis-moss	4	1993	2003	Status:NR	
Chilionema ocellatum	Chilionema ocellatum	2	1967	1967		CRDB
Chondracanthus acicularis	Chondracanthus acicularis	4	1983	1983		CRDB
Chondracanthus teedei	Chondracanthus teedei	2	1967	1967		CRDB
Chrysothrix chrysophthalma	Chrysothrix chrysophthalma	1	1997	1997	Status:NR & RLGB_01:NT	
Cladonia firma	Cladonia firma	6	2001	2002	Status:NS & RLGB_01:LC	
Cladonia foliacea	Cladonia foliacea	3	2001	2001	RLGB_01:LC	
Cladonia humilis	Cladonia humilis	1	1997	1997	RLGB_01:LC	
Cladonia portentosa	Reindeer Moss	2	2001	2001	HabD:A5 RLGB_01:LC	
Cladonia pyxidata	Cladonia pyxidata	4	1997	2002	RLGB_01:LC	
Cladonia ramulosa	Cladonia ramulosa	2	2001	2001	RLGB_01:LC	
Cladonia rangiformis	Cladonia rangiformis	5	2001	2002	RLGB_01:LC	
Cliostomum griffithii	Cliostomum griffithii	2	1997	2002	RLGB_01:LC	
Codium vermilara	Codium vermilara	10	1967	1983		CRDB
Collema tenax var. ceranoides	Collema tenax var. ceranoides	1	2002	2002	RLGB_01:LC	
Cystoseira baccata	Cystoseira baccata	1	1983	1983		CRDB
Cystoseira nodicaulis	Cystoseira nodicaulis	2	1983	1983		CRDB
Dasya hutchinsiae	Dasya hutchinsiae	4	1967	1967		CRDB
Dicranella crispa	Curl-leaved Forklet-moss	1	1830	1830	Status:NS	CRDB
Didymodon umbrosus	Shady Beard-moss	5	1993	2003	Status:NS	
Dimerella lutea	Dimerella lutea	2	2002	2002	RLGB_01:LC	
Diploicia canescens	Diploicia canescens	6	1997	2002	RLGB_01:LC	
Diploschistes caesioplumbeus	Diploschistes caesioplumbeus	2	2002	2002	Status:NS & RLGB_01:LC	
Diploptoma alboatrum	Diploptoma alboatrum	1	1997	1997	RLGB_01:LC	
Dirina massiliensis forma sorediata	Dirina massiliensis forma sorediata	2	2001	2002	RLGB_01:LC	
Drachiella spectabilis	Drachiella spectabilis	1	1983	1983		CRDB
Enterographa crassa	Enterographa crassa	1	1997	1997	RLGB_01:LC	
Ephemerum sessile	Sessile Earth-moss	4	1993	2003	Status:NS	CRDB
Feldmannia simplex	Feldmannia simplex	3	1967	1967		CRDB
Fissidens limbatus	Herzog's Pocket-moss	11	1950	2003	Status:NS	
Flavoparmelia caperata	Parmelia caperata	8	1997	2002	RLGB_01:LC	
Flavoparmelia soredians	Flavoparmelia soredians	1	2001	2001	RLGB_01:LC	



Fossombronia incurva	Weedy Frillwort	2	1993	2003	Status:NS		
Fossombronia maritima	Sea Frillwort	14	1950	2003	Status:NS & RLGB 01:NT	CRDB	
Gigartina pistillata	Red seaweed	3	1967	1967	Marine:NS	CRDB	
Gyalecta jenensis var. macrospora	Gyalecta jenensis var. macrospora	2	2002	2002		CRDB	
Gyalecta truncigena	Gyalecta truncigena	2	2001	2002	RLGB_01:LC		
Gymnogongrus crenulatus	Gymnogongrus crenulatus	9	1967	1992		CRDB	
Haematomma ochroleucum var. porphyrium	Haematomma ochroleucum var. porphyrium	4	1997	2002	RLGB_01:LC		
Heterodermia japonica	Coralloid Rosette-Lichen	1	2001	2001	WACA:8	Status:NS & RLGB 01:NT	CRDB
Heterodermia leucomela	Ciliate Strap-Lichen	5	1994	2002	WACA:8	Status:NR & RLGB 01:EN	CRDB
Holmsella pachyderma	Holmsella pachyderma	1	1967	1967		CRDB	BAP:2007 & NERC S.41
Hyperphyscia adglutinata	Hyperphyscia adglutinata	1	1997	1997		RLGB_01:LC	
Hypogymnia physodes	Dark Crottle	3	2001	2002		RLGB_01:LC	
Hypotrachyna revoluta	Parmelia revoluta	1	1997	1997		RLGB_01:LC	
Laminaria ochroleuca	Laminaria ochroleuca	13	1967	1986		CRDB	
Lecania aipospila	Lecania aipospila	1	2001	2001	Status:NS & RLGB 01:LC		
Lecanora actophila	Lecanora actophila	1	2001	2001	RLGB_01:LC		
Lecanora albescens	Lecanora albescens	1	1997	1997	RLGB_01:LC		
Lecanora campestris subsp. campestris	Lecanora campestris subsp. campestris	1	1997	1997	RLGB_01:LC		
Lecanora chlorotera	Lecanora chlorotera	1	2001	2001	RLGB_01:LC		
Lecanora confusa	Lecanora confusa	2	1997	2001	RLGB_01:LC		
Lecanora ecorticata	Lecanora ecorticata	1	2002	2002	Status:NS & RLGB 01:LC		
Lecanora gangaleoides	Lecanora gangaleoides	4	1997	2002	RLGB_01:LC		
Lecanora helicopis	Lecanora helicopis	1	2002	2002	RLGB_01:LC		
Lecanora polytropia	Lecanora polytropia	3	2001	2002	RLGB_01:LC		
Lecanora praepostera	Lecanora praepostera	7	2001	2002	Status:NS & RLGB 01:LC		
Lecanora rupicola var. rupicola	Lecanora rupicola var. rupicola	1	1997	1997	RLGB_01:LC		
Lecanora sulphurea	Lecanora sulphurea	2	2001	2001	RLGB_01:LC		
Lecanora zosterae	Lecanora zosterae	2	2001	2001	Status:NS & RLGB 01:LC		
Lecidea fuscoatra	Lecidea fuscoatra	1	2002	2002	RLGB_01:LC		
Lecidella asema	Lecidella asema	7	2001	2002	RLGB_01:LC		
Lecidella elaeochroma forma soralifera	Lecidella elaeochroma forma soralifera	1	2002	2002	RLGB_01:LC		
Lecidella scabra	Lecidella scabra	1	1997	1997	RLGB_01:LC		
Lecidella stigmatia	Lecidella stigmatia	1	1997	1997	RLGB_01:LC		
Leptogium britannicum	Leptogium britannicum	2	2001	2002	Status:NS & RLGB 01:LC		
Leptogium gelatinosum	Leptogium gelatinosum	1	2002	2002	RLGB_01:LC		
Leptogium teretiusculum	Leptogium teretiusculum	1	2002	2002	RLGB_01:LC		
Leucobryum glaucum	Large White-moss	4	1960	1968	HabD:A5		
Lichenomphalia umbellifera	Heath Navel	2	1965	1965	RLGB_01:LC		
Lichina confinis	Lichina confinis	7	1983	2001	RLGB_01:LC		
Lichina pygmaea	Lichina pygmaea	14	1983	2015	RLGB_01:LC		
Lophocolea semiteres	Southern Crestwort	24	1950	2003		CRDB	



Melanelia fuliginosa subsp. fuliginosa	Parmelia glabratula subsp. fuliginosa	6	1997	2002	RLGB_01:LC	
Melanelia fuliginosa subsp. glabratula	Parmelia glabratula subsp. glabratula	2	1997	2001	RLGB_01:LC	
Melanelia subaurifera	Melanelia subaurifera	1	2001	2001	RLGB_01:LC	
Menegazzia terebrata	Menegazzia terebrata	2	2002	2002	RLGB_01:LC	
Micarea denigrata	Micarea denigrata	1	1997	1997	RLGB_01:LC	
Micarea prasina	Micarea prasina	2	2001	2002	Status:NS & RLGB_01:LC	
Moelleropsis nebulosa	Moelleropsis nebulosa	3	2001	2002	Status:NS & RLGB_01:LC	
Myriactula rivulariae	Myriactula rivulariae	1	1967	1967		CRDB
Neofuscelia pulla	Neofuscelia pulla	5	2001	2002	RLGB_01:LC	
Neofuscelia verruculifera	Neofuscelia verruculifera	2	2001	2001	RLGB_01:LC	
Nephroma laevigatum	Nephroma laevigatum	1	2002	2002	RLGB_01:LC	
Nephroma parile	Nephroma parile	2	2002	2002	RLGB_01:LC	
Normandina pulchella	Normandina pulchella	1	2002	2002	RLGB_01:LC	
Ochrolechia androgyna	Ochrolechia androgyna	4	2001	2002	RLGB_01:LC	
Ochrolechia parella	Parella	10	1983	2002	RLGB_01:LC	
Opegrapha atra	Opegrapha atra	3	1997	2002	RLGB_01:LC	
Opegrapha calcarea	Opegrapha calcarea	1	1997	1997	RLGB_01:LC	
Opegrapha cesareensis	Opegrapha cesareensis	1	2002	2002	RLGB_01:LC	
Opegrapha corticola	Opegrapha corticola	3	2002	2002	Status:NS & RLGB_01:LC	
Opegrapha varia	Opegrapha varia	2	2001	2002	RLGB_01:LC	
Opegrapha vermicellifera	Opegrapha vermicellifera	3	2002	2002	RLGB_01:LC	
Opegrapha vulgata	Opegrapha vulgata	4	1997	2002	RLGB_01:LC	
Parmelia sulcata	Netted Shield Lichen	6	1997	2002	RLGB_01:LC	
Parmotrema crinitum	Parmotrema crinitum	3	2002	2002	RLGB_01:LC	
Parmotrema reticulatum	Parmotrema reticulatum	2	2001	2002	RLGB_01:LC	
Peltigera hymenina	Peltigera hymenina	4	2001	2002	RLGB_01:LC	
Peltigera membranacea	Peltigera membranacea	4	2002	2002	RLGB_01:LC	
Peltigera rufescens	Peltigera rufescens	1	2001	2001	RLGB_01:LC	
Pertusaria albescens var. corallina	Pertusaria albescens var. corallina	1	1997	1997	RLGB_01:LC	
Pertusaria excludens	Pertusaria excludens	6	2001	2002	Status:NS & RLGB_01:LC	
Pertusaria flavicans	Pertusaria flavicans	1	2002	2002	RLGB_01:LC	
Pertusaria monogona	Pertusaria monogona	9	2001	2002	Status:NS & RLGB_01:LC	
Pertusaria pluripuncta	Pertusaria pluripuncta	8	2001	2002	Status:NR & RLGB_01:NT	CRDB
Pertusaria pseudocorallina	Pertusaria pseudocorallina	8	1997	2002	RLGB_01:LC	
Peterjamesia circumscripta	Peterjamesia circumscripta	7	2001	2002	RLGB_01:LC	
Peyssonnelia atropurpurea	Peyssonnelia atropurpurea	3	1983	1983		CRDB
Phycocelis foecunda	Phycocelis foecunda	1	1967	1967		CRDB
Placynthiella icmalea	Placynthiella icmalea	1	1997	1997	RLGB_01:LC	
Plagiothecium denticulatum var. denticulatum	Plagiothecium denticulatum var. denticulatum	4	1950	1984		CRDB



Polysporina simplex	Polysporina simplex	1	1997	1997	RLGB_01:LC		
Porina aenea	Porina aenea	1	2002	2002	RLGB_01:LC		
Porpidia cinereoatra	Porpidia cinereoatra	1	2001	2001	RLGB_01:LC		
Porpidia platycarpoides	Porpidia platycarpoides	1	1997	1997	RLGB_01:LC		
Pseudocyphellaria aurata	Lichen	1	2012	2012	Status:NR & RLGB_01:CR	CRDB	BAP:2007 & NERC S.41
Pterosiphonia complanata	Pterosiphonia complanata	3	1967	1967		CRDB	
Pyrenula macrospora	Pyrenula macrospora	6	1997	2002	RLGB_01:LC		
Pyrrhospora quernea	Pyrrhospora quernea	1	1997	1997	RLGB_01:LC		
Ramalina canariensis	Ramalina canariensis	2	1997	2001	RLGB_01:LC		
Ramalina cuspidata	Ramalina cuspidata	6	2001	2002	RLGB_01:LC		
Ramalina farinacea	Ramalina farinacea	4	1997	2002	RLGB_01:LC		
Ramalina fastigiata	Ramalina fastigiata	2	2001	2002	RLGB_01:LC		
Ramalina lacera	Ramalina lacera	2	2001	2001	RLGB_01:LC		
Ramalina portuensis	Ramalina portuensis	4	2002	2002	Status:NS & RLGB_01:LC		
Ramalina siliquosa	Sea Ivory	9	1983	2002	RLGB_01:LC		
Ramalina subfarinacea	Ramalina subfarinacea	5	2001	2002	RLGB_01:LC		
Rhizocarpon richardii	Rhizocarpon richardii	6	1997	2002	RLGB_01:LC		
Riccia crozalsii	Ciliate Crystalwort	12	1950	2003	Status:NS		
Riccia crystallina	Blue Crystalwort	48	1950	2004	Status:NR	CRDB	
Rinodina atrocinerea	Rinodina atrocinerea	1	2001	2001	RLGB_01:LC		
Rinodina beccariana	Rinodina beccariana	4	2001	2002	Status:NS & RLGB_01:LC		
Rinodina gennarii	Rinodina gennarii	1	1997	1997	RLGB_01:LC		
Rinodina luridescens	Rinodina luridescens	9	2001	2002	RLGB_01:LC		
Roccella fuciformis	Roccella fuciformis	5	2001	2002	Status:NS & RLGB_01:NT	CRDB	
Roccella phycopsis	Roccella phycopsis	7	2001	2002	Status:NS & RLGB_01:NT	CRDB	
Schizymenia dubyi	Schizymenia dubyi	3	1967	1967		CRDB	
Sematophyllum substrumulosum	Bark Signal-moss	2	1993	2003	Status:NR & RLGB_01:NT	CRDB	
Solenopsora vulturiensis	Solenopsora vulturiensis	4	2001	2002	RLGB_01:LC		
Sphaerocarpos michelii	Micheli's Balloonwort	16	1950	2005	Status:NS		
Sphaerocarpos texanus	Texas Balloonwort	16	1950	2005	Status:NS & RLGB_01:VU	CRDB	BAP:2007 & NERC S.41
Sphaerococcus coronopifolius	Sphaerococcus coronopifolius	9	1967	1983		CRDB	
Sphaerophorus globosus	Sphaerophorus globosus	7	2001	2002	RLGB_01:LC		
Sticta limbata	Sticta limbata	2	2002	2002	RLGB_01:LC		
Strigula taylorii	Strigula taylorii	1	2002	2002	Status:NS & RLGB_01:LC		
Synchesia myrticola	Synchesia myrticola	4	2001	2002	Status:NR & RLGB_01:NT	CRDB	
Telaranea murphyae	Murphy's Threadwort	7	1993	2003	Status:NR & RLGB_01:VU	CRDB	
Teloschistes flavicans	Teloschistes flavicans	5	1994	2002	Status:NS & RLGB_01:VU	CRDB	BAP:2007 & NERC S.41
Toninia aromatica	Toninia aromatica	2	1997	2002	RLGB_01:LC		
Tortula atrovirens	Rib-leaf Moss	3	1950	1968	Status:NS	CRDB	
Tortula solmsii	Solms' Screw-moss	4	1950	1984	Status:NR & RLGB_01:VU	CRDB	
Tortula viridifolia	Bristly Pottia	25	1907	2003		CRDB	
Tortula wilsonii	Wilson's Pottia	2	1908	1908	Status:NS & RLGB_01:EN	CRDB	BAP:2007 & NERC S.41



Trapeliopsis granulosa	Trapeliopsis granulosa	1	2001	2001		RLGB_01:LC			
Usnea flammea	Usnea flammea	3	2001	2002		RLGB_01:LC			
Verrucaria glaucina	Verrucaria glaucina	1	1997	1997		RLGB_01:LC			
Verrucaria hochstetteri	Verrucaria hochstetteri	1	1997	1997		RLGB_01:LC			
Verrucaria maura	Verrucaria maura	19	1983	2009		RLGB_01:LC			
Verrucaria mucosa	Verrucaria mucosa	11	1983	2002		RLGB_01:LC			
Verrucaria nigrescens	Verrucaria nigrescens	1	1997	1997		RLGB_01:LC			
Wadeana dendrographa	Wadeana dendrographa	2	2002	2002		Status:NS & RLGB_01:NT	CRDB		BAP:2007 & NERC S.41
Weissia controversa var. densifolia	Weissia controversa var. densifolia	10	1950	2003			CRDB		
Xanthoparmelia conspersa	Xanthoparmelia conspersa	2	2001	2002		RLGB_01:LC			
Xanthoria ectaneoides	Xanthoria ectaneoides	6	2001	2002		RLGB_01:LC			
Xanthoria parietina	Xanthoria parietina	16	1983	2002		RLGB_01:LC			

Reptile

Scientific Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Caretta caretta	Loggerhead Turtle	2	1936	1988	Bern:A2 & Bonn:A1+A2 & HabD:A2+A4	HabR:Sch2 & WACA:5_9.4b+9.5a+9.5b+9.4c		CRDB	BAP:2007 & NERC S.41
Dermochelys coriacea	Leathery turtle	6	1991	2005	Bern:A2 & Bonn:A1+A2 & HabD:A4	HabR:Sch2 & WACA:5_9.4b+9.5a+9.5b+9.4c		CRDB	BAP:2007 & NERC S.41
Lepidochelys kempi	Kemp's ridley	2	1999	1999				CRDB	

Vascular plant

Scientific Name	Vernacular name	No.	First Year	Last Year	Legislative International	Legislative National	Status International	Status Local	Status National
Acer campestre	Field Maple	3	2002	2003			RLGB_01:LC		
Achillea millefolium	Yarrow	172	1905	2013			RLGB_01:LC		
Aconitum napellus	Monk's-hood	1	2008	2008				CRDB	
Adiantum capillus-veneris	Maidenhair Fern	15	1905	2012			Status:NS & RLGB_01:LC	CRDB	
Aegopodium podagraria	Ground-elder	9	1905	2008			RLGB_01:LC		
Aethusa cynapium	Fool's Parsley	3	1864	1905			RLGB_01:LC		
Agrimonia eupatoria	Agrimony	2	1975	1977			RLGB_01:LC		
Agrostis canina	Velvet Bent	15	1864	2011			RLGB_01:LC		
Agrostis capillaris	Common Bent	73	1905	2011			RLGB_01:LC		
Agrostis gigantea	Black Bent	11	1975	2003			RLGB_01:LC		
Agrostis stolonifera	Creeping Bent	131	1905	2014			RLGB_01:LC		
Agrostis vinealis	Brown Bent	6	2009	2011			RLGB_01:LC		
Aira caryophylla	Silver Hair-Grass	101	1905	2014			RLGB_01:LC		
Aira praecox	Early Hair-grass	45	1905	2011			RLGB_01:LC		
Ajuga reptans	Bugle	2	1940	1999			RLGB_01:LC		
Allium ampeloprasum	Leek	19	1905	2012			Status:NS & RLGB_01:LC		
Allium ampeloprasum var. ampeloprasum	Wild Leek	1	2003	2003				CRDB	
Allium ampeloprasum var. babingtonii	Leek	18	1936	2004				CRDB	
Allium vineale	Wild Onion	2	2004	2004			RLGB_01:LC		
Alnus glutinosa	Alder	1	2006	2006			RLGB_01:LC		
Alopecurus geniculatus	Marsh Foxtail	13	1936	2012			RLGB_01:LC		
Alopecurus pratensis	Meadow Foxtail	6	1988	2003			RLGB_01:LC		
Ammophila arenaria	Marram	65	1984	2015			RLGB_01:LC		
Anagallis arvensis	Scarlet Pimpernel	113	1905	2015			RLGB_01:LC		



Anagallis arvensis subsp. arvensis	Scarlet Pimpernel	92	1905	2015	RLGB_01:LC	
Anagallis minima	Chaffweed	2	1862	1905	RLGB_01:NT	CRDB
Anagallis tenella	Bog Pimpernel	16	1905	2011	RLGB_01:LC	
Anchusa arvensis	Bugloss	29	1905	2015	RLGB_01:LC	
Angelica sylvestris	Wild Angelica	20	1905	2013	RLGB_01:LC	
Anisantha sterilis	Barren Brome	38	1984	2008	RLGB_01:LC	
Anthemis arvensis	Corn Chamomile	3	1905	1984	RLGB_01:EN	CRDB
Anthoxanthum odoratum	Sweet Vernal-grass	103	1905	2011	RLGB_01:LC	
Anthriscus caucalis	Bur Chervil	1	1909	1909	RLGB_01:LC	
Anthriscus sylvestris	Cow Parsley	55	1905	2013	RLGB_01:LC	
Aphanes arvensis	Parsley-piert	20	1905	2013	RLGB_01:LC	
Aphanes australis	Slender Parsley-piert	28	1984	2013	RLGB_01:LC	
Apium graveolens	Wild Celery	1	1905	1905	RLGB_01:LC	
Apium inundatum	Lesser Marshwort	7	2008	2015	RLGB_01:LC	
Apium nodiflorum	Fool's-water-cress	64	1905	2015	RLGB_01:LC	
Aquilegia vulgaris	Columbine	3	1959	2003	RLGB_01:LC	
Arabidopsis thaliana	Thale Cress	12	1905	2014	RLGB_01:LC	
Arctium minus	Lesser Burdock	39	1984	2009	RLGB_01:LC	
Armeria maritima	Thrift	109	1905	2015	RLGB_01:LC	
Armoracia rusticana	Horse-radish	3	1999	2005	RLGB_01:LC	
Arrhenatherum elatius	False Oat-grass	97	1864	2015	RLGB_01:LC	
Artemisia absinthium	Wormwood	6	1864	1988	RLGB_01:LC	
Artemisia vulgaris	Mugwort	56	1936	2015	RLGB_01:LC	
Arum italicum subsp. neglectum	Arum	126	1905	2014	Status:NS & RLGB_01:NT	CRDB
Arum maculatum	Lords-And-Ladies	3	2009	2011	RLGB_01:LC	
Asplenium adiantum-nigrum	Black Spleenwort	118	1850	2014	RLGB_01:LC	
Asplenium marinum	Sea Spleenwort	118	1905	2015	RLGB_01:LC	
Asplenium obovatum	Laneolate Spleenwort	47	1905	2014	Status:NS & RLGB_01:NT	
Asplenium obovatum subsp. lanceolatum	Asplenium obovatum subsp. lanceolatum	50	1936	2013		CRDB
Asplenium ruta-muraria	Wall-Rue	5	1905	2008	RLGB_01:LC	
Asplenium trichomanes subsp. quadrivalens	Spleenwort	8	1905	2012	RLGB_01:LC	
Athyrium filix-femina	Lady-fern	79	1850	2014	RLGB_01:LC	
Atriplex glabriuscula	Babington's Orache	22	1905	2011	RLGB_01:LC	
Atriplex laciniata	Grass-leaved Orache	34	1852	2015	RLGB_01:LC	
Atriplex patula	Common Orache	16	1988	2011	RLGB_01:LC	
Atriplex prostrata	Spear-Leaved Orache	41	1988	2015	RLGB_01:LC	
Avena fatua	Wild-oat	6	1975	2004	RLGB_01:LC	
Baldellia ranunculoides	Lesser Water-plantain	7	1905	2000	RLGB_01:NT	CRDB
Ballota nigra	Black Horehound	1	2015	2015	RLGB_01:LC	
Barbarea vulgaris	Winter-cress	1	2010	2010	RLGB_01:LC	
Bellis perennis	Daisy	167	1905	2015	RLGB_01:LC	
Berula erecta	Lesser Water-parsnip	4	1936	1998	RLGB_01:LC	
Beta vulgaris subsp. maritima	Sea Beet	159	1927	2015	RLGB_01:LC	
Betula pendula	Silver Birch	1	2009	2009	RLGB_01:LC	
Betula pubescens	Downy Birch	1	2004	2004	RLGB_01:LC	



<i>Blechnum spicant</i>	Hard-Fern	1	1852	1852	RLGB_01:LC
<i>Bolboschoenus maritimus</i>	Sea Club-rush	7	1925	2003	RLGB_01:LC
<i>Brachypodium sylvaticum</i>	False-brome	14	1987	2004	RLGB_01:LC
<i>Brassica nigra</i>	Black Mustard	7	1964	2004	RLGB_01:LC
<i>Brassica rapa</i>	Turnip	3	1905	2003	RLGB_01:LC
<i>Briza minor</i>	Lesser Quaking-grass	132	1905	2015	Status:NS & RLGB_01:LC
<i>Bromus hordeaceus</i>	Soft-brome	52	1905	2012	RLGB_01:LC
<i>Bromus hordeaceus</i> subsp. <i>feronii</i>	Least Soft-brome	1	1984	1984	Status:NS & RLGB_01:LC
<i>Bromus hordeaceus</i> subsp. <i>hordeaceus</i>	Soft-Brome	15	1905	2004	RLGB_01:LC
<i>Bromus hordeaceus</i> subsp. <i>thominei</i>	Sand Soft-brome	1	1960	1960	Status:NS & RLGB_01:LC
<i>Bromus racemosus</i>	Smooth Brome	2	1954	1954	RLGB_01:LC
<i>Buxus sempervirens</i>	Box	2	1995	1995	Status:NR & RLGB_01:DD
<i>Cakile maritima</i>	Sea Rocket	66	1936	2015	RLGB_01:LC
<i>Calamagrostis epigejos</i>	Wood Small-reed	4	1988	1988	RLGB_01:LC
<i>Callitriche obtusangula</i>	Blunt-fruited Water-starwort	9	1936	2003	RLGB_01:LC
<i>Callitriche stagnalis</i>	Common Water-Starwort	13	1864	2003	RLGB_01:LC
<i>Calluna vulgaris</i>	Heather	48	1905	2013	RLGB_01:LC
<i>Caltha palustris</i>	Marsh-marigold	2	2004	2004	RLGB_01:LC
<i>Calystegia sepium</i>	Hedge Bindweed	42	1984	2014	RLGB_01:LC
<i>Calystegia sepium</i> subsp. <i>roseata</i>	Bindweed	67	1864	2015	Status:NS & RLGB_01:LC
<i>Calystegia sepium</i> subsp. <i>sepium</i>	Great Bindweed	32	1984	2011	RLGB_01:LC
<i>Calystegia soldanella</i>	Sea Bindweed	44	1984	2013	RLGB_01:LC
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	90	1905	2015	RLGB_01:LC
<i>Cardamine flexuosa</i>	Wavy Bitter-Cress	7	1905	2012	RLGB_01:LC
<i>Cardamine hirsuta</i>	Hairy Bitter-cress	33	1905	2015	RLGB_01:LC
<i>Cardamine pratensis</i>	Lady's Smock	29	1971	2014	RLGB_01:LC
<i>Carex arenaria</i>	Sand Sedge	57	1905	2012	RLGB_01:LC
<i>Carex binervis</i>	Green-ribbed Sedge	7	1952	1987	RLGB_01:LC
<i>Carex echinata</i>	Star Sedge	3	1905	1936	RLGB_01:LC
<i>Carex elata</i>	Tufted-sedge	1	1905	1905	RLGB_01:LC
<i>Carex laevigata</i>	Smooth-stalked Sedge	4	1864	1936	RLGB_01:LC
<i>Carex nigra</i>	Common Sedge	4	1905	1984	RLGB_01:LC
<i>Carex otrubae</i>	True Fox-sedge	15	1936	2004	RLGB_01:LC
<i>Carex pallescens</i>	Pale Sedge	1	1974	1974	RLGB_01:LC
<i>Carex panicea</i>	Carnation Sedge	2	1905	1923	RLGB_01:LC
<i>Carex paniculata</i>	Greater Tussock-Sedge	15	1907	2013	RLGB_01:LC
<i>Carex pendula</i>	Pendulous Sedge	29	1905	2015	RLGB_01:LC
<i>Carex pilulifera</i>	Pill Sedge	1	1879	1879	RLGB_01:LC
<i>Carex riparia</i>	Greater Pond-sedge	6	1862	1988	RLGB_01:LC
<i>Carex sylvatica</i>	Wood-sedge	1	2007	2007	RLGB_01:LC
<i>Carex viridula</i> subsp. <i>oedocarpa</i>	Common Yellow-sedge	11	1876	2011	RLGB_01:LC
<i>Carlina vulgaris</i>	Carlina Thistle	2	1905	1988	RLGB_01:LC
<i>Catapodium maritimum</i>	Sea Fern-grass	70	1879	2014	RLGB_01:LC
<i>Catapodium rigidum</i>	Fern-grasses	41	1905	2013	RLGB_01:LC
<i>Centaurea nigra</i>	Common Knapweed	28	1936	2015	RLGB_01:LC



Centaurea erythraea	Common Centaury	47	1984	2013	RLGB_01:LC		
Cerastium diffusum	Sea Mouse-ear	12	1987	2005	RLGB_01:LC		
Cerastium fontanum	Common Mouse-ear	23	1987	2015	RLGB_01:LC		
Cerastium glomeratum	Sticky Mouse-Ear	95	1905	2014	RLGB_01:LC		
Cerastium semidecandrum	Little Mouse-ear	1	2008	2008	RLGB_01:LC		
Ceterach officinarum	Rustyback	2	1905	1992	RLGB_01:LC		
Chamaemelum nobile	Chamomile	42	1905	2012	RLGB_01:VU	CRDB	BAP:2007 & NERC S 41
Chenopodium album	Fat-hen	98	1984	2015	RLGB_01:LC		
Chenopodium hybridum	Maple-leaved Goosefoot	2	2005	2005	RLGB_01:LC		
Chenopodium murale	Nettle-leaved Goosefoot	15	1984	2011	RLGB_01:VU	CRDB	
Chenopodium polyspermum	Many-seeded Goosefoot	2	1905	1995	RLGB_01:LC		
Chenopodium rubrum	Red Goosefoot	20	1953	2012	RLGB_01:LC		
Chrysanthemum segetum	Corn Marigold	231	1905	2015		CRDB	
Cichorium intybus	Chicory	3	1905	2014	RLGB_01:LC		
Circaea lutetiana	Enchanter's-Nightshade	6	1905	2015	RLGB_01:LC		
Cirsium arvense	Creeping Thistle	64	1905	2015	RLGB_01:LC		
Cirsium palustre	Marsh Thistle	2	1936	1984	RLGB_01:LC		
Cirsium vulgare	Spear Thistle	93	1905	2015	RLGB_01:LC		
Cochlearia danica	Danish Scurvygrass	76	1905	2013	RLGB_01:LC		
Cochlearia officinalis	Common Scurvygrass	57	1905	2015	RLGB_01:LC		
Conium maculatum	Hemlock	5	1988	1995	RLGB_01:LC		
Convolvulus arvensis	Field Bindweed	63	1905	2013	RLGB_01:LC		
Coronopus squamatus	Swine-cress	42	1905	2010	RLGB_01:LC		
Corylus avellana	Hazel	4	2006	2011	RLGB_01:LC		
Crambe maritima	Sea-kale	81	1905	2015	RLGB_01:LC	CRDB	
Crataegus monogyna	Hawthorn	73	1905	2014	RLGB_01:LC		
Crepis capillaris	Smooth Hawk's-Beard	64	1905	2014	RLGB_01:LC		
Crithmum maritimum	Rock Samphire	147	1905	2015	RLGB_01:LC		
Cynodon dactylon	Bermuda-Grass	1	2002	2002	Status:NR	CRDB	
Cynoglossum officinale	Hound's-Tongue	4	1987	1987	RLGB_01:NT	CRDB	
Cynosurus cristatus	Crested Dog's-Tail	46	1984	2013	RLGB_01:LC		
Cytisus scoparius	Broom	52	1905	2014	RLGB_01:LC		
Cytisus scoparius subsp. scoparius	Broom	38	1936	2013	RLGB_01:LC		
Dactylis glomerata	Cock's-foot	171	1905	2015	RLGB_01:LC		
Dactylorhiza praetermissa	Southern Marsh-Orchid	23	1905	2015	RLGB_01:LC		
Danthonia decumbens	Heath-grass	34	1936	2011	RLGB_01:LC		
Daphne laureola	Spurge-Laurel	2	1905	1954	RLGB_01:LC		
Daucus carota	Wild Carrot	126	1905	2015	RLGB_01:LC		
Daucus carota subsp. carota	Wild Carrot	51	1905	2015	RLGB_01:LC		
Daucus carota subsp. gummiifer	Sea Carrot	23	1995	2011	Status:NS & RLGB_01:LC		
Digitalis purpurea	Foxglove	90	1905	2013	RLGB_01:LC		
Diplotaxis tenuifolia	Perennial Wall-rocket	2	1997	2015	RLGB_01:LC		
Dipsacus fullonum	Wild Teasel	9	1905	2015	RLGB_01:LC		
Dryopteris aemula	Hay-Scented Buckler-Fern	3	1893	1905	RLGB_01:LC		
Dryopteris affinis	Scaly Male-fern	2	1905	2012	RLGB_01:LC		



Dryopteris carthusiana	Narrow Buckler-fern	3	1850	1972	RLGB_01:LC		
Dryopteris dilatata	Broad Buckler-Fern	52	1905	2013	RLGB_01:LC		
Dryopteris filix-mas	Male-fern	48	1850	2014	RLGB_01:LC		
Echium plantagineum	Purple Viper's-bugloss	4	1993	2000		CRDB	
Echium vulgare	Viper's-bugloss	2	1994	1994	RLGB_01:LC		
Eleocharis multicaulis	Many-stalked Spike-rush	10	1905	2003	RLGB_01:LC		
Eleocharis palustris	Common Spike-Rush	12	1905	2004	RLGB_01:LC		
Eleocharis uniglumis	Slender Spike-rush	6	1876	2000	RLGB_01:LC		
Elytrigia atherica	Sea Couch	14	1987	2011	RLGB_01:LC		
Elytrigia juncea	Sand Couch	5	1988	2004	RLGB_01:LC		
Elytrigia repens	Common Couch	26	1988	2005	RLGB_01:LC		
Epilobium hirsutum	Great Willowherb	29	1905	2015	RLGB_01:LC		
Epilobium lanceolatum	Spear-leaved Willowherb	2	2005	2015	RLGB_01:LC		
Epilobium montanum	Broad-Leaved Willowherb	12	1905	2015	RLGB_01:LC		
Epilobium obscurum	Short-fruited Willowherb	16	1862	2014	RLGB_01:LC		
Epilobium palustre	Marsh Willowherb	5	1905	2015	RLGB_01:LC		
Epilobium parviflorum	Hoary Willowherb	6	2003	2015	RLGB_01:LC		
Epilobium tetragonum	Square-Stalked Willowherb	42	1984	2014	RLGB_01:LC		
Equisetum arvense	Field Horsetail	3	1905	1959	RLGB_01:LC		
Erica cinerea	Bell-Heather	55	1905	2013	RLGB_01:LC		
Eriophorum angustifolium	Common Cottongrass	6	1864	1955	RLGB_01:LC		
Erodium cicutarium	Common Stork's-Bill	39	1978	2015	RLGB_01:LC		
Erodium lebelii	Sticky Stork's-Bill	9	1972	2012	Status:NS & RLGB_01:LC		
Erodium maritimum	Sea Stork's-bill	60	1905	2014	RLGB_01:LC		
Erodium moschatum	Musk Stork's-Bill	144	1905	2014	RLGB_01:LC	CRDB	
Erysimum cheiri	Wallflower	2	2003	2010	RLGB_01:LC		
Eupatorium cannabinum	Hemp-agrimony	2	2002	2008	RLGB_01:LC		
Euphorbia helioscopia	Sun Spurge	19	1905	2012	RLGB_01:LC		
Euphorbia paralias	Sea Spurge	45	1905	2012	RLGB_01:LC		
Euphorbia peplis	Purple Spurge	2	1905	1923	ECCITES:B RLGB_01:EX		
Euphorbia peplus	Petty Spurge	93	1905	2015	RLGB_01:LC		
Euphorbia portlandica	Portland Spurge	28	1982	2015	RLGB_01:LC	CRDB	
Euphrasia anglica	Small-flowered Sticky Eyebright	2	1936	1944	RLGB_01:EN	CRDB	BAP:2007 & NERC S.41
Euphrasia confusa	Eyebright	2	1939	1940	RLGB_01:DD		
Euphrasia micrantha	Eyebright	1	1939	1939	RLGB_01:DD		
Euphrasia officinalis agg.	Eyebright	4	1988	2011	RLGB_01:LC		
Euphrasia tetraquetra	Eyebright	4	1936	2002	RLGB_01:DD		
Fallopia convolvulus	Black-bindweed	18	1905	2005	RLGB_01:LC		
Festuca ovina	Sheep's-fescue	7	1987	2015	RLGB_01:LC		
Festuca ovina agg.	Sheep's Fescue agg.	7	1987	2000	RLGB_01:LC		
Festuca rubra agg.	Red Fescue	108	1905	2015	RLGB_01:LC		
Festuca rubra subsp. commutata	Chewing's Fescue	1	1943	1943	RLGB_01:LC		
Festuca rubra subsp. juncea	Red Fescue	6	1995	2014	RLGB_01:LC		
Festuca rubra subsp. litoralis	Red Fescue	1	2004	2004	RLGB_01:LC		
Filago vulgaris	Common Cudweed	72	1952	2014	RLGB_01:NT	CRDB	



<i>Foeniculum vulgare</i>	Fennel	190	1905	2015	RLGB_01:LC		
<i>Fraxinus excelsior</i>	Ash	7	1905	2013	RLGB_01:LC		
<i>Fumaria bastardi</i>	Tall Ramping-Fumitory	123	1905	2015	RLGB_01:LC		
<i>Fumaria capreolata</i>	White Ramping-Fumitory	88	1905	2015	RLGB_01:LC		
<i>Fumaria capreolata</i> subsp. <i>babinatonii</i>	Ramping Fumitory	81	1936	2014	RLGB_01:LC		
<i>Fumaria muralis</i>	Common Ramping-Fumitory	10	1987	2012	RLGB_01:LC		
<i>Fumaria muralis</i> subsp. <i>boraei</i>	Few-Flowered Fumitory	146	1905	2015	RLGB_01:LC		
<i>Fumaria occidentalis</i>	Western Ramping-fumitory	206	1905	2015	Status:NS & RLGB_01:LC	CRDB	
<i>Fumaria officinalis</i>	Common Fumitory	2	1905	1988	RLGB_01:LC		
<i>Fumaria officinalis</i> subsp. <i>officinalis</i>	Common Fumitory	3	1963	1988	RLGB_01:LC		
<i>Fumaria purpurea</i>	Purple Ramping-fumitory	27	1905	1993	Status:NS & RLGB_01:LC	CRDB	BAP:2007 & NERC S.41
<i>Galium aparine</i>	Cleavers	148	1905	2013	RLGB_01:LC		
<i>Galium mollugo</i>	Hedge Bedstraw	2	1988	1988	RLGB_01:LC		
<i>Galium palustre</i>	Marsh-bedstraw	41	1905	2014	RLGB_01:LC		
<i>Galium palustre</i> subsp. <i>elongatum</i>	Great Marsh-bedstraw	5	1905	2002	RLGB_01:LC		
<i>Galium palustre</i> subsp. <i>palustre</i>	Common Marsh-bedstraw	12	1987	2011	RLGB_01:LC		
<i>Galium saxatile</i>	Heath Bedstraw	7	1984	2013	RLGB_01:LC		
<i>Galium verum</i>	Lady's Bedstraw	30	1905	2010	RLGB_01:LC		
<i>Gastridium ventricosum</i>	Nit-Grass	4	1905	1922	Status:NS & RLGB_01:LC	CRDB	
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	90	1905	2014	RLGB_01:LC		
<i>Geranium lucidum</i>	Shining Crane's-bill	10	1905	1995	RLGB_01:LC		
<i>Geranium molle</i>	Dovesfoot Crane's-bill	127	1905	2015	RLGB_01:LC		
<i>Geranium pusillum</i>	Small-Flowered Crane's-Bill	2	1936	2013	RLGB_01:LC		
<i>Geranium robertianum</i>	Herb-Robert	24	1905	2012	RLGB_01:LC		
<i>Glaucium flavum</i>	Yellow Horned-poppy	29	1905	2012	RLGB_01:LC		
<i>Glaux maritima</i>	Sea-Milkwort	16	1864	2003	RLGB_01:LC		
<i>Glechoma hederacea</i>	Ground-Ivy	12	1987	2003	RLGB_01:LC		
<i>Glyceria declinata</i>	Small Sweet-grass	10	1936	2015	RLGB_01:LC		
<i>Glyceria fluitans</i>	Floating Sweet-grass	16	1864	2003	RLGB_01:LC		
<i>Glyceria maxima</i>	Reed Sweet-grass	2	1988	1988	RLGB_01:LC		
<i>Gnaphalium luteoalbum</i>	Jersey Cudweed	3	2013	2013	WACA:8		
<i>Gnaphalium sylvaticum</i>	Heath Cudweed	3	1997	2000	RLGB_01:EN	CRDB	
<i>Gnaphalium uliginosum</i>	Marsh Cudweed	102	1984	2015	RLGB_01:LC		
<i>Hedera helix</i>	Ivy	43	1905	2014	RLGB_01:LC		
<i>Hedera helix</i> subsp. <i>helix</i>	Common Ivy	25	1995	2014	RLGB_01:LC		
<i>Heracleum sphondylium</i>	Hogweed	151	1905	2015	RLGB_01:LC		
<i>Hieracium aggregatum</i>	Hawkweed	2	1992	1993	Status:NR & RLGB_01:DD		
<i>Hieracium umbellatum</i> subsp. <i>bichlorophyllum</i>	Hawkweed	3	1992	1993	RLGB_01:LC		
<i>Holcus lanatus</i>	Yorkshire-fog	166	1905	2014	RLGB_01:LC		
<i>Holcus mollis</i>	Creeping Soft-grass	9	1988	2004	RLGB_01:LC		
<i>Honckenya peploides</i>	Sea Sandwort	93	1957	2015	RLGB_01:LC		
<i>Hordeum marinum</i>	Sea Barley	1	2003	2003	Status:NS & RLGB_01:VU		BAP:2007 & NERC S.41
<i>Hordeum murinum</i>	Wall Barley	4	1879	2003	RLGB_01:LC		



<i>Hordeum secalinum</i>	Meadow Barley	1	1876	1876		RLGB_01:LC	
<i>Humulus lupulus</i>	Hop	9	1936	2007		RLGB_01:LC	
<i>Hyacinthoides non-scripta</i>	Hyacinth	33	1905	2013	WACA:8	RLGB_01:LC	
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	51	1963	2014		RLGB_01:LC	
<i>Hyoscyamus niger</i>	Henbane	4	1864	1963		RLGB_01:VU	CRDB
<i>Hypericum androsaemum</i>	Tutsan	4	2003	2012		RLGB_01:LC	
<i>Hypericum elodes</i>	Marsh St. John's-Wort	3	1994	2011		RLGB_01:LC	
<i>Hypericum humifusum</i>	Trailing St. John's-Wort	32	1905	2015		RLGB_01:LC	
<i>Hypericum perforatum</i>	Perforate St. John's-Wort	1	2000	2000		RLGB_01:LC	
<i>Hypericum pulchrum</i>	Slender St. John's-Wort	6	1984	1997		RLGB_01:LC	
<i>Hypochaeris radicata</i>	Common Catsear	203	1905	2014		RLGB_01:LC	
<i>Ilex aquifolium</i>	Holly	18	1984	2014		RLGB_01:LC	
<i>Inula helenium</i>	Elecampane	3	1830	1905		RLGB_01:LC	
<i>Iris foetidissima</i>	Stinking Iris	100	1890	2015		RLGB_01:LC	
<i>Iris pseudacorus</i>	Yellow Iris	100	1905	2014		RLGB_01:LC	
<i>Isolepis cernua</i>	Slender Club-rush	9	1936	2009		RLGB_01:LC	
<i>Isolepis setacea</i>	Bristle Club-Rush	7	1936	2009		RLGB_01:LC	
<i>Jasione montana</i>	Sheep's-Bit	137	1905	2015		RLGB_01:LC	
<i>Juncus acutiflorus</i>	Sharp-flowered Rush	11	1905	2014		RLGB_01:LC	
<i>Juncus articulatus</i>	Jointed Rush	19	1905	2011		RLGB_01:LC	
<i>Juncus bufonius</i>	Toad Rush	75	1984	2015		RLGB_01:LC	
<i>Juncus bufonius</i> agg.	Toad Rush agg.	27	1905	2002		RLGB_01:LC	
<i>Juncus bulbosus</i>	Bulbous Rush	7	1879	1988		RLGB_01:LC	
<i>Juncus capitatus</i>	Dwarf Rush	2	1890	1971		Status:NR & RLGB_01:VU RLGB_01:LC	CRDB
<i>Juncus effusus</i>	Soft-rush	86	1905	2015		RLGB_01:LC	
<i>Juncus gerardii</i>	Salt-marsh-rush	2	1862	1862		RLGB_01:LC	
<i>Juncus inflexus</i>	Hard-rush	4	1988	1988		RLGB_01:LC	
<i>Juncus maritimus</i>	Sea Rush	70	1864	2014		RLGB_01:LC	
<i>Kickxia elatine</i>	Sharp-leaved Fluellen	51	1978	2014		RLGB_01:LC	
<i>Lactuca serriola</i>	Prickly Lettuce	2	2004	2004		RLGB_01:LC	
<i>Lamium hybridum</i>	Cut-leaved Dead-nettle	12	1988	2011		RLGB_01:LC	
<i>Lamium purpureum</i>	Red Dead-Nettle	10	1905	2010		RLGB_01:LC	
<i>Lapsana communis</i>	Nipplewort	31	1984	2015		RLGB_01:LC	
<i>Lathyrus japonicus</i>	Sea Pea	3	2014	2016		Status:NS & RLGB_01:LC	
<i>Lathyrus japonicus</i> subsp. <i>maritimus</i>	Sea Pea	12	2007	2015			CRDB
<i>Lathyrus pratensis</i>	Meadow Vetchling	23	1984	2014		RLGB_01:LC	
<i>Lavatera arborea</i>	Tree-mallow	169	1905	2015		RLGB_01:LC	
<i>Lavatera cretica</i>	Smaller Tree-Mallow	252	1873	2014		Status:NR	CRDB
<i>Lemna minor</i>	Common Duckweed	52	1905	2011		RLGB_01:LC	
<i>Leontodon autumnalis</i>	Autumnal Hawkbit	22	1953	2014		RLGB_01:LC	
<i>Leontodon saxatilis</i>	Lesser Hawkbit	30	1987	2014		RLGB_01:LC	
<i>Lepidium heterophyllum</i>	Smith's Pepperwort	2	1998	2001		RLGB_01:LC	
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	32	1936	2014		RLGB_01:LC	
<i>Ligustrum vulgare</i>	Wild Privet	13	1987	2004		RLGB_01:LC	
<i>Linaria vulgaris</i>	Common Toadflax	3	1992	1993		RLGB_01:LC	



<i>Linum bienne</i>	Pale Flax	2	1864	1936	RLGB_01:LC		
<i>Linum catharticum</i>	Fairy Flax	1	1905	1905	RLGB_01:LC		
<i>Lolium perenne</i>	Perennial Rye-grass	104	1984	2015	RLGB_01:LC		
<i>Lonicera periclymenum</i>	Honeysuckle	126	1905	2014	RLGB_01:LC		
<i>Lotus angustissimus</i>	Slender Bird's-Foot-Trefoil	1	2009	2009	Status:NS & RLGB_01:NT RLGB_01:LC	CRDB	
<i>Lotus corniculatus</i>	Common Bird's-Foot-Trefoil	159	1905	2013	RLGB_01:LC		
<i>Lotus pedunculatus</i>	Large Bird's-Foot-Trefoil	126	1905	2014	RLGB_01:LC		
<i>Lotus subbiflorus</i>	Hairy Bird's-Foot-Trefoil	87	1984	2015	Status:NS & RLGB_01:LC RLGB_01:LC	CRDB	
<i>Luzula campestris</i>	Field Wood-rush	24	1905	2010	RLGB_01:LC		
<i>Luzula multiflora</i>	Heath Wood-Rush	2	1975	1998	RLGB_01:LC		
<i>Lychnis flos-cuculi</i>	Ragged-robin	27	1862	2012	RLGB_01:LC		
<i>Lychnis viscaria</i>	Sticky Catchfly	1	2012	2012	Status:NS & RLGB_01:NT RLGB_01:LC		
<i>Lycopus europaeus</i>	Gypsywort	7	1864	1995	RLGB_01:LC		
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	7	1905	2002	RLGB_01:LC		
<i>Lythrum salicaria</i>	Purple-Loosestrife	26	1936	2014	RLGB_01:LC		
<i>Malus sylvestris</i>	Crab Apple	3	1984	2009	RLGB_01:LC		
<i>Malva moschata</i>	Musk-Mallow	3	1988	1988	RLGB_01:LC		
<i>Malva neglecta</i>	Dwarf Mallow	29	1984	2012	RLGB_01:LC		
<i>Malva sylvestris</i>	Common Mallow	138	1905	2015	RLGB_01:LC		
<i>Matricaria recutita</i>	Scented Mayweed	32	1905	2009	RLGB_01:LC		
<i>Matthiola incana</i>	Hoary Stock	21	1940	2012		CRDB	
<i>Matthiola sinuata</i>	Sea Stock	1	1978	1978	Status:NR & RLGB_01:VU RLGB_01:LC		BAP:2007 & NERC S.41
<i>Medicago arabica</i>	Spotted Medick	126	1905	2012	RLGB_01:LC		
<i>Medicago lupulina</i>	Black Medick	75	1975	2015	RLGB_01:LC		
<i>Medicago polymorpha</i>	Toothed Medick	102	1905	2016	Status:NS & RLGB_01:LC RLGB_01:LC	CRDB	
<i>Mentha aquatica</i>	Water Mint	28	1864	2014	RLGB_01:LC		
<i>Mentha spicata</i>	Spearmint	11	1936	2015	RLGB_01:LC		
<i>Mentha suaveolens</i>	Round-Leaved Mint	6	1993	2009	Status:NS & RLGB_01:DD RLGB_01:LC		
<i>Mercurialis annua</i>	Annual Mercury	182	1864	2014	RLGB_01:LC		
<i>Mercurialis perennis</i>	Dog's Mercury	1	2002	2002	RLGB_01:LC		
<i>Misopates orontium</i>	Weasel's-Snout	12	1988	1995	RLGB_01:VU	CRDB	
<i>Molinia caerulea</i>	Purple Moor-Grass	8	1936	2011	RLGB_01:LC		
<i>Montia fontana</i>	Blinks	17	1905	2013	RLGB_01:LC		
<i>Montia fontana</i> subsp. <i>chondrosperma</i>	Blinks	1	1862	1862	RLGB_01:LC		
<i>Myosotis arvensis</i>	Field Forget-Me-Not	12	1936	2004	RLGB_01:LC		
<i>Myosotis discolor</i>	Changing Forget-Me-Not	33	1905	2014	RLGB_01:LC		
<i>Myosotis laxa</i>	Tufted Forget-Me-Not	1	2007	2007	RLGB_01:LC		
<i>Myosotis secunda</i>	Creeping Forget-Me-Not	13	1879	2014	RLGB_01:LC		
<i>Narcissus pseudonarcissus</i> subsp. <i>pseudonarcissus</i>	Wild Daffodil	3	1987	2010	RLGB_01:LC		
<i>Oenanthe crocata</i>	Hemlock Water-Dropwort	96	1864	2013	RLGB_01:LC		
<i>Oenanthe fistulosa</i>	Tubular Water-Dropwort	28	1864	2015	RLGB_01:VU	CRDB	BAP:2007 & NERC S.41
<i>Ononis repens</i>	Common Restharrow	4	1984	2004	RLGB_01:LC		
<i>Ornithopus perpusillus</i>	Bird's-foot	28	1905	2004	RLGB_01:LC		



Ornithopus pinnatus	Orange bird's-foot	3	1877	2011	Status:NR & RLGB_01:LC RLGB_01:LC	CRDB
Osmunda regalis	Royal Fern	74	1850	2014		
Papaver argemone	Prickly Poppy	1	1984	1984	RLGB_01:VU	CRDB
Papaver dubium	Long-Headed Poppy	35	1905	2012	RLGB_01:LC	
Papaver dubium subsp. dubium	Long-Headed Poppy	9	1987	2008	RLGB_01:LC	
Papaver rhoeas	Common Poppy	36	1936	2015	RLGB_01:LC	
Papaver somniferum	Opium Poppy	22	1936	2014	RLGB_01:LC	
Parentucellia viscosa	Yellow Bartsia	77	1936	2015	RLGB_01:LC	
Parietaria judaica	Pellitory-of-the-wall	168	1905	2015	RLGB_01:LC	
Pastinaca sativa	Wild Parsnip	2	1905	1990	RLGB_01:LC	
Pedicularis palustris	Marsh Lousewort	1	1890	1890	RLGB_01:LC	
Pedicularis sylvatica	Lousewort	13	1988	2013	RLGB_01:LC	
Persicaria hydropiper	Water-Pepper	2	2000	2013	RLGB_01:LC	
Persicaria lapathifolia	Pale Persicaria	7	1864	2012	RLGB_01:LC	
Persicaria maculosa	Redshank	29	1984	2014	RLGB_01:LC	
Petasites hybridus	Butterbur	9	1988	2002	RLGB_01:LC	
Petroselinum crispum	Garden Parsley	14	1909	2012	RLGB_01:LC	
Phalaris arundinacea	Reed Canary-Grass	5	1905	2004	RLGB_01:LC	
Phleum bertolonii	Smaller Cat's-tail	4	1991	2002	RLGB_01:LC	
Phleum pratense	Timothy	2	1975	1975	RLGB_01:LC	
Phragmites australis	Common Reed	104	1905	2014	RLGB_01:LC	
Phyllitis scolopendrium	Hart's-Tongue	88	1850	2014	RLGB_01:LC	
Picris echioides	Bristly Ox-tongue	112	1905	2015	RLGB_01:LC	
Pimpinella saxifraga	Burnet-saxifrage	4	1905	1952	RLGB_01:LC	
Pinus sylvestris	Scots Pine	1	1850	1850	Status:NS & RLGB_01:LC RLGB_01:LC	
Plantago coronopus	Buck's-Horn Plantain	188	1905	2015		
Plantago lanceolata	Ribwort Plantain	223	1905	2015	RLGB_01:LC	
Plantago major	Greater Plantain	105	1905	2015	RLGB_01:LC	
Plantago major subsp. intermedia	Greater Plantain	8	1993	2012	RLGB_01:LC	
Plantago major subsp. major	Greater Plantain	3	1994	1996	RLGB_01:LC	
Plantago maritima	Sea Plantain	4	1905	2012	RLGB_01:LC	
Poa annua	Annual Meadow- Grass	145	1905	2015	RLGB_01:LC	
Poa humilis	Spreading Meadow- Grass	17	1936	2003	RLGB_01:LC	
Poa infirma	Early Meadow- Grass	28	1905	2010	Status:NS & RLGB_01:LC RLGB_01:LC	CRDB
Poa pratensis	Smooth Meadow- Grass	40	1905	2009		
Poa trivialis	Rough Meadow- grass	71	1905	2011	RLGB_01:LC	
Polycarpon tetraphyllum	Four-Leaved All- Seed	245	1905	2015	Status:NR & RLGB_01:LC RLGB_01:LC	CRDB
Polygala serpyllifolia	Heath Milkwort	13	1905	2012	RLGB_01:LC	
Polygala vulgaris	Common Milkwort	8	1984	2012	RLGB_01:LC	
Polygonum arenastrum	Equal-leaved Knotgrass	13	1995	2015	RLGB_01:LC	
Polygonum aviculare	Knotgrass	30	1940	2004	RLGB_01:LC	
Polygonum aviculare agg.	Knotgrass agg.	10	1905	2005	RLGB_01:LC	
Polygonum maritimum	Sea Knotgrass	2	1852	1852	WACA:8 Status:NR & RLGB_01:VU RLGB_01:LC	CRDB
Polypodium interjectum	Intermediate Polypody	49	1905	2010		



<i>Polypodium vulgare</i>	Polypody	56	1905	2015	RLGB_01:LC		
<i>Polypogon monspeliensis</i>	Annual Beard-grass	2	1982	1982	Status:NS & RLGB_01:LC		
<i>Polystichum setiferum</i>	Soft-shield Fern	19	1905	2012	RLGB_01:LC		
<i>Potamogeton natans</i>	Broad-leaved Pondweed	1	1940	1940	RLGB_01:LC		
<i>Potamogeton pectinatus</i>	Pond weed	9	1876	2011	RLGB_01:LC		
<i>Potamogeton polygonifolius</i>	Bog Pondweed	17	1905	2011	RLGB_01:LC		
<i>Potamogeton pusillus</i>	Small Pondweed	1	1884	1884	RLGB_01:LC		
<i>Potentilla anglica</i>	Trailing Tormentil	1	1936	1936	RLGB_01:LC		
<i>Potentilla anserina</i>	Silverweed	66	1905	2014	RLGB_01:LC		
<i>Potentilla erecta</i>	Tormentil	53	1905	2013	RLGB_01:LC		
<i>Potentilla reptans</i>	Creeping Cinquefoil	70	1905	2015	RLGB_01:LC		
<i>Primula vulgaris</i>	Primrose	39	1905	2013	RLGB_01:LC		
<i>Prunella vulgaris</i>	Selfheal	57	1984	2013	RLGB_01:LC		
<i>Prunus avium</i>	Wild Cherry	2	2011	2011	RLGB_01:LC		
<i>Prunus domestica</i> subsp. <i>insititia</i>	Damson	1	1998	1998	RLGB_01:LC		
<i>Prunus spinosa</i>	Blackthorn	2	1984	1997	RLGB_01:LC		
<i>Pteridium aquilinum</i>	Bracken / Fern	212	1905	2015	RLGB_01:LC		
<i>Puccinellia maritima</i>	Common Saltmarsh- grass	2	1879	1879	RLGB_01:LC		
<i>Pulicaria dysenterica</i>	Common Fleabane	5	1967	2014	RLGB_01:LC		
<i>Pyrus communis</i>	Pear	1	2009	2009	RLGB_01:LC		
<i>Quercus petraea</i>	Sessile Oak	4	2002	2015	RLGB_01:LC		
<i>Quercus robur</i>	Pedunculate Oak	39	1905	2015	RLGB_01:LC		
<i>Radiola linoides</i>	Allseed	24	1988	2011	RLGB_01:NT	CRDB	
<i>Ranunculus acris</i>	Meadow Buttercup	16	1988	2008	RLGB_01:LC		
<i>Ranunculus baudotii</i>	Brackish Water- crowfoot	5	1876	2015	RLGB_01:LC		
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	41	1905	2014	RLGB_01:LC		
<i>Ranunculus ficaria</i>	Lesser Celandine	45	1905	2012	RLGB_01:LC		
<i>Ranunculus ficaria</i> subsp. <i>ficaria</i>	Lesser Celandine	2	2008	2008	RLGB_01:LC		
<i>Ranunculus flammula</i>	Lesser Spearwort	65	1905	2015	RLGB_01:LC		
<i>Ranunculus flammula</i> subsp. <i>flammula</i>	Lesser Spearwort	52	1905	2013	RLGB_01:LC		
<i>Ranunculus hederaceus</i>	Ivy-Leaved Crowfoot	24	1905	1996	RLGB_01:LC		
<i>Ranunculus lingua</i>	Greater Spearwort	2	1988	1988	RLGB_01:LC		
<i>Ranunculus parviflorus</i>	Small-flowered Buttercup	31	1862	2014	RLGB_01:LC		
<i>Ranunculus repens</i>	Creeping Buttercup	117	1905	2014	RLGB_01:LC		
<i>Ranunculus sardous</i>	Hairy Buttercup	5	1862	2007	RLGB_01:LC		
<i>Ranunculus sceleratus</i>	Celery-Leaved Buttercup	1	2009	2009	RLGB_01:LC		
<i>Ranunculus tripartitus</i>	Three-lobed Water- crowfoot	1	1879	1879	Status:NS & RLGB_01:EN	CRDB	BAP:2007 & NERC S.41
<i>Raphanus raphanistrum</i> subsp. <i>maritimus</i>	Sea Radish	117	1905	2015	RLGB_01:LC		
<i>Raphanus raphanistrum</i> subsp. <i>raphanistrum</i>	Wild Radish	49	1905	2009	RLGB_01:LC		
<i>Reseda lutea</i>	Wild Mignonette	1	1862	1862	RLGB_01:LC		
<i>Reseda luteola</i>	Weld	3	2015	2015	RLGB_01:LC		
<i>Rorippa nasturtium- aquaticum</i>	Water-cress	26	1905	2011	RLGB_01:LC		
<i>Rorippa nasturtium- aquaticum</i> agg.	Water Cress	2	2013	2014	RLGB_01:LC		
<i>Rorippa palustris</i>	Marsh Yellow-Cress	2	2011	2011	RLGB_01:LC		



Rorippa sylvestris	Creeping Yellow-Cress	1	2010	2010				RLGB_01:LC		
Rosa canina	Dog-rose	2	1864	2010				RLGB_01:LC		
Rosa micrantha	Small-flowered Sweet-briar	2	1972	1974				RLGB_01:LC		
Rubia perigrina	Wild Madder	37	1987	2012				RLGB_01:LC		
Rubus caesius	Dewberry	2	1905	1996				RLGB_01:LC		
Rubus fruticosus agg.	Bramble	184	1905	2015				RLGB_01:LC		
Rumex acetosa	Common Sorrel	174	1905	2016				RLGB_01:LC		
Rumex acetosella	Sheep's Sorrel agg.	47	1984	2014				RLGB_01:LC		
Rumex acetosella subsp. acetosella	Sheep's Sorrel	5	1905	1988				RLGB_01:LC		
Rumex conglomeratus	Clustered Dock	26	1984	2011				RLGB_01:LC		
Rumex crispus	Curled Dock	120	1905	2014				RLGB_01:LC		
Rumex crispus subsp. littoreus	Curled Dock	11	1995	2009				RLGB_01:LC		
Rumex hydrolapathum	Water Dock	2	1877	2008				RLGB_01:LC		
Rumex obtusifolius	Broad-leaved Dock	135	1905	2014				RLGB_01:LC		
Rumex pulcher	Fiddle Dock	34	1905	2009				RLGB_01:LC		
Rumex rupestris	Shore Dock	1	1873	1873	Bern:A1 & HabD:A2*+A4	HabR:Sch4 & WACA:8	Status:NS & RLGB_01:EN RLGB_01:LC	CRDB	BAP:2007 & NERC S.41	
Ruppia maritima	Spiral Tasselweed	5	1876	1988				RLGB_01:LC		
Ruscus aculeatus	Butcher's-Broom	9	1905	1998	HabD:A5		RLGB_01:LC			
Sagina apetala	Fringed Pearlwort	13	1852	2013			RLGB_01:LC			
Sagina apetala subsp. apetala	Annual Pearlwort	3	1991	2007			RLGB_01:LC			
Sagina apetala subsp. erecta	Fringed Pearlwort	2	1905	2003			RLGB_01:LC			
Sagina maritima	Sea Pearlwort	25	1984	2008			RLGB_01:LC			
Sagina procumbens	Sea Pearlwort	54	1905	2007			RLGB_01:LC			
Salicornia europaea	Common Glasswort	3	2010	2012			RLGB_01:LC			
Salix caprea	Goat Willow	7	1984	2011			RLGB_01:LC			
Salix cinerea subsp. oleifolia	Willow	74	1905	2013			RLGB_01:LC			
Salix fragilis	Crack-willow	17	1905	2011			RLGB_01:LC			
Salix purpurea	Purple Willow	1	1995	1995			RLGB_01:LC			
Salix triandra	Almond Willow	3	1970	2003			RLGB_01:LC			
Salix viminalis	Osier	13	1939	2009			RLGB_01:LC			
Salsola kali subsp. kali	Salsola kali subsp. kali	3	1936	1983			RLGB_01:VU	CRDB	BAP:2007 & NERC S.41	
Salvia verbenaca	Wild Clary	4	1864	1967			RLGB_01:LC			
Sambucus nigra	Elder	27	1988	2013			RLGB_01:LC			
Samolus valerandi	Brookweed	6	1905	2003			RLGB_01:LC			
Scandix pecten-veneris	Shepherd's-needle	7	1905	1996			RLGB_01:CR	CRDB	BAP:2007 & NERC S.41	
Scilla verna	Spring Squill	10	1988	2012			RLGB_01:LC			
Scrophularia auriculata	Water Figwort	15	1905	2013			RLGB_01:LC			
Scrophularia nodosa	Common Figwort	3	2010	2015			RLGB_01:LC			
Scrophularia scorodonia	Balm-leaved Figwort	62	1905	2013			Status:NS & RLGB_01:LC RLGB_01:LC	CRDB		
Sedum acre	Biting Stonecrop	20	1864	2009			RLGB_01:LC			
Sedum album	White Stonecrop	25	1984	2011			RLGB_01:LC			
Sedum anglicum	English Stonecrop	94	1905	2013			RLGB_01:LC			
Senecio jacobaea	Common Ragwort	30	1905	2004			RLGB_01:LC			
Senecio sylvaticus	Heath Groundsel	42	1905	2005			RLGB_01:LC			
Senecio vulgaris	Groundsel	139	1905	2016			RLGB_01:LC			
Sherardia arvensis	Field Madder	51	1905	2014			RLGB_01:LC			



<i>Sibthorpia europaea</i>	Cornish Moneywort	6	1864	1988	Status: NS & RLGB_01: LC RLGB_01: LC	CRDB	
<i>Silene dioica</i>	Red Campion	173	1905	2014			
<i>Silene gallica</i>	Small-flowered Catchfly	208	1905	2015	Status: NS & RLGB_01: EN RLGB_01: LC		BAP:2007 & NERC S.41
<i>Silene uniflora</i>	Sea Campion	52	1905	2014			
<i>Sinapis arvensis</i>	Charlock	29	1905	2007	RLGB_01: LC		
<i>Sisymbrium officinale</i>	Hedge Mustard	113	1905	2014	RLGB_01: LC		
<i>Smyrniolus olusatrum</i>	Alexanders	171	1905	2016	RLGB_01: LC		
<i>Solanum dulcamara</i>	Bittersweet	46	1905	2014	RLGB_01: LC		
<i>Solidago virgaurea</i>	Goldenrod	9	1936	1988	RLGB_01: LC		
<i>Sonchus arvensis</i>	Perennial Sow- thistle	32	1967	2013	RLGB_01: LC		
<i>Sonchus asper</i>	Prickly Sow-thistle	82	1905	2016	RLGB_01: LC		
<i>Sonchus oleraceus</i>	Smooth Sow-Thistle	184	1905	2016	RLGB_01: LC		
<i>Sorbus aucuparia</i>	Rowan	12	2003	2011	RLGB_01: LC		
<i>Sparganium erectum</i>	Branched Bur-reed	12	1876	1988	RLGB_01: LC		
<i>Spergula arvensis</i>	Corn Spurrey	134	1905	2015	RLGB_01: VU	CRDB	
<i>Spergularia bocconeii</i>	Greek Sea-spurrey	6	1905	2004		CRDB	
<i>Spergularia marina</i>	Lesser Sea-Spurrey	12	1862	2011	RLGB_01: LC		
<i>Spergularia rubra</i>	Sand Spurrey	28	1905	2013	RLGB_01: LC		
<i>Spergularia rupicola</i>	Rock Sea-Spurrey	159	1905	2015	RLGB_01: LC		
<i>Spiranthes spiralis</i>	Autumn Lady's- tresses	37	1905	2012	RLGB_01: NT	CRDB	
<i>Stachys arvensis</i>	Field Woundwort	99	1905	2015	RLGB_01: NT	CRDB	
<i>Stachys sylvatica</i>	Hedge Woundwort	3	1993	1993	RLGB_01: LC		
<i>Stellaria graminea</i>	Lesser Stitchwort	5	1905	1987	RLGB_01: LC		
<i>Stellaria holostea</i>	Greater Stitchwort	1	2005	2005	RLGB_01: LC		
<i>Stellaria media</i>	Common Chickweed	62	1905	2012	RLGB_01: LC		
<i>Stellaria neglecta</i>	Greater Chickweed	5	1905	2011	RLGB_01: LC		
<i>Symphytum officinale</i>	Common Comfrey	3	1909	1975	RLGB_01: LC		
<i>Tanacetum parthenium</i>	Feverfew	19	1987	2004	RLGB_01: LC		
<i>Tanacetum vulgare</i>	Tansy	1	2015	2015	RLGB_01: LC		
<i>Taraxacum</i>	Dandelion Agg.	63	1905	2015	RLGB_01: LC		
<i>Teucrium scorodonia</i>	Wood Sage	24	1987	2012	RLGB_01: LC		
<i>Thalictrum minus</i>	Lesser Meadow- Rue	1	1956	1956	RLGB_01: LC		
<i>Thlaspi arvense</i>	Field Penny-Cress	20	1994	2010	RLGB_01: LC		
<i>Thymus polytrichus</i>	Wild Thyme	8	1905	2001	RLGB_01: LC		
<i>Torilis japonica</i>	Upright Hedge- Parsley	2	1909	2006	RLGB_01: LC		
<i>Torilis nodosa</i>	Knotted Hedge- parsley	1	1936	1936	RLGB_01: LC		
<i>Trifolium arvense</i>	Hare's-Foot Clover	87	1905	2015	RLGB_01: LC		
<i>Trifolium campestre</i>	Hop Trefoil	21	1988	2013	RLGB_01: LC		
<i>Trifolium dubium</i>	Lesser Yellow Trefoil	124	1905	2015	RLGB_01: LC		
<i>Trifolium glomeratum</i>	Clustered Clover	6	2004	2011	Status: NS & RLGB_01: LC RLGB_01: LC	CRDB	
<i>Trifolium medium</i>	Zigzag Clover	3	2003	2003	RLGB_01: LC		
<i>Trifolium micranthum</i>	Slender Trefoil	24	1976	2005	RLGB_01: LC		
<i>Trifolium occidentale</i>	Western Clover	84	1905	2013	Status: NS & RLGB_01: LC RLGB_01: LC	CRDB	
<i>Trifolium ornithopodioides</i>	Bird's-foot Clover	20	1905	2008			
<i>Trifolium pratense</i>	Red Clover	43	1905	2015	RLGB_01: LC		



Trifolium repens	White Clover	178	1905	2015	RLGB_01:LC	
Trifolium scabrum	Rough Clover	16	1905	2008	RLGB_01:LC	
Trifolium striatum	Knotted Clover	17	1987	2011	RLGB_01:LC	
Trifolium subterraneum	Subterranean Clover	55	1905	2015	RLGB_01:LC	
Trifolium suffocatum	Suffocated Clover	24	1988	2008	Status:NS & RLGB_01:LC	CRDB
Triglochin palustre	Marsh Arrowgrass	4	1862	1940	RLGB_01:LC	
Tripleurospermum inodorum	Scentless Mayweed	11	1988	2015	RLGB_01:LC	
Tripleurospermum maritimum	Sea Mayweed	63	1983	2015	RLGB_01:LC	
Tussilago farfara	Colts-foot	9	2000	2009	RLGB_01:LC	
Typha latifolia	Bulrush	9	1905	1988	RLGB_01:LC	
Ulex europaeus	Gorse	123	1822	2015	RLGB_01:LC	
Ulex gallii	Western Gorse	40	1987	2013	RLGB_01:LC	
Ulmus glabra	Wych Elm	1	2000	2000	RLGB_01:LC	
Ulmus procera	English Elm	15	1905	2007	RLGB_01:LC	
Umbilicus rupestris	Wall Pennywort	140	1905	2016	RLGB_01:LC	
Urtica dioica	Nettle	145	1905	2016	RLGB_01:LC	
Urtica urens	Small Nettle	74	1905	2014	RLGB_01:LC	
Valeriana dioica	Marsh Valerian	2	2000	2000	RLGB_01:LC	
Valeriana officinalis	Common Valerian	3	2003	2004	RLGB_01:LC	
Valerianella carinata	Keeled-fruited Cornsalad	3	1952	1978	RLGB_01:LC	
Valerianella locusta	Common Cornsalad	29	1905	2013	RLGB_01:LC	
Verbascum nigrum	Dark Mullein	1	2015	2015	RLGB_01:LC	
Verbascum thapsus	Great Mullein	35	1984	2013	RLGB_01:LC	
Verbena officinalis	Vervain	18	1940	2012	RLGB_01:LC	
Veronica agrestis	Green Field-speedwell	32	1905	2014	RLGB_01:LC	
Veronica arvensis	Wall Speedwell	31	1905	2013	RLGB_01:LC	
Veronica chamaedrys	Germander	54	1905	2013	RLGB_01:LC	
Veronica hederifolia	Speedwell Ivy-Leaved	13	1984	2009	RLGB_01:LC	
Veronica officinalis	Speedwell agg. Heath Speedwell	9	1905	2002	RLGB_01:LC	
Veronica serpyllifolia	Thyme-Leaved Speedwell	19	1987	2013	RLGB_01:LC	
Veronica serpyllifolia subsp. serpyllifolia	Thyme-Leaved Speedwell	1	2012	2012	RLGB_01:LC	
Vicia bithynica	Bythinian Vetch	5	1905	1985	Status:NS & RLGB_01:VU	CRDB
Vicia cracca	Tufted Vetch	24	1984	2015	RLGB_01:LC	
Vicia hirsuta	Hairy Tare	88	1976	2013	RLGB_01:LC	
Vicia sativa	Common Vetch	8	1997	2013	RLGB_01:LC	
Vicia sativa subsp. nigra	Narrow-leaved Vetch	68	1905	2014	RLGB_01:LC	
Vicia sativa subsp. sativa	Cultivated Vetch	11	1905	2004	RLGB_01:LC	
Vicia sativa subsp. segetalis	Vetch	30	1987	2013	RLGB_01:LC	
Vicia sepium	Bush Vetch	9	1997	2014	RLGB_01:LC	
Vicia tetrasperma	Smooth Tare	51	1976	2015	RLGB_01:LC	
Viola arvensis	Field Pansy	12	1994	2015	RLGB_01:LC	
Viola canina	Heath Dog-Violet	8	1905	1995	RLGB_01:NT	
Viola canina subsp. canina	Heath Dog-Violet	8	1936	1988	RLGB_01:NT	CRDB
Viola odorata	Sweet Violet	64	1905	2016	RLGB_01:LC	
Viola reichenbachiana	Early Dog-Violet	17	1905	1997	RLGB_01:LC	



Viola riviniana	Common Dog-violet	68	1905	2014	RLGB_01:LC	
Viola tricolor	Wild Pansy	2	1996	1996	RLGB_01:NT	CRDB
Viola tricolor subsp. tricolor	Pansy	2	1905	1973	RLGB_01:NT	
Vulpia bromoides	Squirrel-Tail Fescue	79	1905	2014	RLGB_01:LC	
Vulpia myuros	Rat's-Tail Fescue	7	1905	2004	RLGB_01:LC	
Wahlenbergia hederacea	Ivy-Leaved Bellflower	4	1864	1963	RLGB_01:NT	CRDB
Zostera marina	Zostera marina	23	1905	2010	Bern:A1 RLGB_01:NT	CRDB



Appendix 5: ERCCIS Desk Study Summary