

# Southend-on-Sea

## Local Biodiversity Action Plan Annual Report for 2010

*Prepared by the Parks Technical Section of  
Southend-on-Sea Borough Council*



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## SECTION 1 Southend's Local Biodiversity Action Plan Introduction

Southend-on-Sea Borough Council's Local **Biodiversity Action Plan (BAP)** has been produced as a result of an international agreement, called the Convention of Biological Diversity, which the UK Government signed at the 'Earth Summit' held at Rio de Janeiro in 1992.

The UK Government has prepared national plans for over 400 species and 40 habitats, but recognised that for national plans to be successful they need to be adopted by those local communities that live side by side with the biodiversity.

Local Authorities have been encouraged to prepare 'Local' Biodiversity Action Plans in partnership with local communities. These plans identify species and habitats unique to, or important to those communities. All Local Authorities have a '**Duty to Biodiversity**' which is detailed in Section 40 of the Natural Environmental and Rural Communities Act (NERC) 2006.

Southend's Local Biodiversity Action Plan was launched on 11<sup>th</sup> July 2003 after considerable effort from the former Leisure, Culture and Amenity Services Department and its partners, who consisted of local and regional wildlife and environmental groups and organisations.

The Local Biodiversity Action Plan consists of individual action plans for 18 Southend habitats (plus one habitat statement) and 14 species. During 2003 copies of the Action Plan were distributed to local partners. The Local Biodiversity Action Plan is also on Southend-on-Sea Borough Council's web site, where it can be viewed at:

[http://www.southend.gov.uk/downloads/download/408/nature\\_conservation\\_and\\_biodiversity](http://www.southend.gov.uk/downloads/download/408/nature_conservation_and_biodiversity)

The Local Biodiversity Action Plan is an on-going process that consists of a number of key objectives. Under each of the objectives is a series of targets, many of which are open-ended and can be considered as 'on-going'.

Southend-on-Sea Borough Council can only deliver all of the objectives within the Action Plan in partnership. Everyone can get involved to help to meet biodiversity objectives and ensure our wildlife and important green spaces are conserved for future generations.

- The first section of this Annual Report highlights the BAP 'Actions' of Southend-on-Sea Borough Council and its partners during 2010.
- The second section of this report is a record of BAP data collected in 2010.

The support and enthusiasm of partners is very and important, and a special Thank You goes to everybody that has contributed during the year.

Previous Annual Reports (2003 – 2010) can also be found on Southend Council's web site.

[http://www.southend.gov.uk/downloads/download/408/nature\\_conservation\\_and\\_biodiversity](http://www.southend.gov.uk/downloads/download/408/nature_conservation_and_biodiversity)

*Louise Morris*  
*Southend Environmental Projects Manager*

### **What is Biodiversity?**

*Biological diversity, or biodiversity as it is commonly known, is the collective term given to the huge variety of life that exists today. Not only does it include all species of plants and animals, but also their genetic variation and the complex ecosystems in which they live. It is not just rare or threatened species either: it encompasses the entire natural world including the plants and animals familiar to us in places where we live or work.*

## SECTION 2. Biodiversity Action Plan Key Points

The action plan is divided into 3 sections:

- **Section 3** lists the actions that have been met for Southend's 18 Habitat Action Plans and 14 Species Action Plans during 2010. You can use the contents page to quickly look at the action plans that are of most interest to you.
- **Section 4** is a record of all wildlife data that has been collected for Southend's BAP species and BAP habitats during 2010.
- **Section 5** is a short summary that compares the total number of *Actions* that have been met for each Action Plan during 2010.

2010 has been another fantastic year for biodiversity conservation work in Southend with new and continued projects being carried out by our Conservation Partners and Southend-on-Sea Borough Council.

Those Action Plans that have received the most actions during 2010 include:-

- Brackish Lagoon
- Intertidal mudflat and sandflats
- Saltmarsh
- Hedgerows
- Natural Grassland
- Traditional Orchard
- Woodland
- Allotments
- Gardens in Urban Areas
- Public parks and Amenity Open Spaces
- Heath Fratillary

Those Action Plans that did not receive any recorded actions during 2010 include:-

- Ancient and Veteran Trees
- Arable Land and Field Margins
- Dark Bellied Brent Goose
- Garden Birds
- Skylark
- Shrill Carder Bee
- Stag Beetle
- Bats
- Cetaceans
- Water Vole
- Great Crested Newt
- Reptiles
- Black Poplar

Groups who are considering wildlife conservation projects or activities during 2011 could be encouraged to consider those species and habitats above, which had fewer actions this year, in the project is appropriate.

Please continue the fantastic work, and ensure all on-going *Actions* are acknowledged in next year's 2011 report.

## SECTION 3. Meeting the Local Biodiversity Action Plan in 2010

The following list identifies those objectives met during 2010.

### 3.1 HABITAT ACTION PLAN - AQUATIC

#### Brackish Lagoons

Objective 8.1 Protection of this habitat

Objective 8.2 Raise Awareness

| Name / Department                                  | Brief Description of Activity  | Location        | Date of activity                       | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|--|-----------------|--|----------------------------|----------------------------|------------------------|-----------|
| Mark Bridges Two Tree Island Warden and Volunteers | Erection of electric fence to protect nesting Avocets                      | Two Tree Island | 14/02/2010                             |                            | 7                          |                        | 8.1       |
| Essex Wildlife Trust and Volunteers                | Annual Avocet Egg Watch (to protect eggs that were stolen in 2005 & 2005). | Two Tree Island | 19/04/2010 to 05/06/2010               |                            | 70                         |                        | 8.1, 8.2, |
| Mark Bridges Two Tree Island Warden and Volunteers | Avocets & More event   | Two Tree Island | 06/06/2010                             | 10                         | 47                         |                        | 8.2       |
| Mark Bridges Two Tree Island Warden and Volunteers | Autumn Waders Event  | Two Tree Island | 21/11/2010                             | 3                          | 44                         |                        | 8.2       |
| Mark Bridges Two Tree Island Warden and Volunteers | Guided walks   | Two Tree Island | 23/05/2010<br>25/06/2010<br>09/10/2010 | 15                         | 26                         |                        | 8.2       |

## Intertidal Mudflat and Sandflat Communities

Objective 8.1 Protect and maintain this habitat in Southend on Sea

Objective 8.2 Monitor this habitat

Objective 8.3 Raise Awareness

| Name / Department     | Brief Description of Activity | Location        | Date of activity         | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|-----------------------|-------------------------------|-----------------|--------------------------|----------------------------|----------------------------|------------------------|-----------|
| South East Essex RSPB | Field Walk                    | Two Tree Island | 07/03/2010<br>19/09/2010 |                            |                            |                        | 8.3       |

## Ponds and Lakes

Objective 8.1 Protection of existing quality and extent of this habitat

Objective 8.2 Improvement of this habitat in Southend-on-Sea

Objective 8.3 The increase of this habitat in Southend-on-Sea

Objective 8.4 Monitoring of the existing extent of this habitat

Objective 8.5 Raise Awareness

| Name / Department                       | Brief Description of Activity                       | Location      | Date of activity | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|---|---|---------------|------------------|----------------------------|----------------------------|------------------------|-----------|
| Southend-on-Sea Borough Council Culture | Lake bank restoration including habitat improvement | Priory Park   | 2010             |                            |                            | 10,000                 | 8.2       |
| Southend-on-Sea Borough Council Culture | Lake bank restoration including habitat improvement | Shoebury Park | 2010             |                            |                            | 10,000                 | 8.2       |

## Reedbed and Marsh

Objective 8.1 Protect and maintain all existing reedbeds

Objective 8.2 Increase the extent of reedbed habitat, when and if appropriate

Objective 8.3 Raise awareness

| Name / Department                                  | Brief Description of Activity            | Location        | Date of activity                       | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|--|-----------------|--|----------------------------|----------------------------|------------------------|-----------|
| Mark Bridges Two Tree Island Warden and Volunteers | Reed clearance and planting in new areas | Two Tree Island | 26/05/2010<br>14/11/2010<br>12/12/2010 |                            | 14                         | 1000                   | 8.1, 8.2  |



## Rivers, Streams and Drainage Ditches

Objective 8.1 Protection of the current extent and quality of this habitat

Objective 8.2 Increase the current extent and quality of this habitat

Objective 8.3 Identify and monitor notable examples of this habitat

Objective 8.4 Raise awareness

| Name / Department                      | Brief Description of Activity  | Location       | Date of activity | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|--|----------------|------------------|----------------------------|----------------------------|------------------------|-----------|
| Essex Wildlife Trust<br>Darren Tilsley | Checked the ditch at Willingale Way following Environment Agency clearance to ensure habitat was left for water voles. | Willingale Way | 2010             |                            |                            |                        | 8.1       |

## Saltmarsh

Objective 8.1 Protection of the extent and quality of this habitat

Objective 8.2 Monitoring and surveying of this habitat

Objective 8.3 Increase the extent and quality of this habitat

Objective 8.4 Raise Awareness

| Name / Department                                  | Brief Description of Activity           | Location        | Date of activity                                     | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|---|-----------------|--|----------------------------|----------------------------|------------------------|-----------|
| Mark Bridges Two Tree Island Warden and Volunteers | Making and placing faggots in saltmarsh | Two Tree Island | 11.04/2010<br>13/06/2010<br>30/06/2010<br>04/07/2010 |                            | 25                         | 5000                   | 8.1, 8.3  |
| Mark Bridges Two Tree Island Warden and Volunteers | Little egret roost watch                | Two Tree Island | 13/08/2010   | 4                          | 43                         |                        | 8.2       |

## Seagrass Beds

Objective 8.1 Protection of the existing extent of this habitat

Objective 8.2 Monitoring of the extent, quality and distribution of this habitat

Objective 8.3 Raise Awareness

No recorded actions during 2010

## **3.2 HABITAT ACTION PLANS - TERRESTRIAL**

### **Ancient and Veteran Trees**

Objective 8.1 Survey and identify the current stock of veteran trees

Objective 8.2 Protect important examples of veteran trees

Objective 8.3 Raise awareness

No recorded actions during 2010

### **Arable Land and Field Margins**

Objective 8.1 Protection of this habitat

Objective 8.2 Raise awareness

No recorded actions during 2010

### **Hedgerows**

Objective 8.1 Halt the further loss of ancient or species-rich hedgerows in Southend-on-Sea

Objective 8.2 Identification of ancient or species-rich hedgerows in Southend-on-Sea

Objective 8.3 Encourage the increase of this habitat in Southend-on-Sea

Objective 8.4 Raise awareness

| <b>Name / Department</b>                    | <b>Brief Description of Activity</b> | <b>Location</b> | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|---|--------------------------------------|-----------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Southend-on-Sea Borough Council Arb section | Hedgerow planting in Blenheim Park   | Blenheim Park   | on going                |                                   |                                   |                               | 8.1, 8.4         |
| Southend-on-Sea Borough Council Arb section | Hedgerow planting in Shoebury Park   | Shoebury Park   | on going                |                                   |                                   |                               | 8.1, 8.3         |



## Natural Grassland

Objective 8.1 Maintain the current level of unimproved grassland

Objective 8.2 Identification of sites with important examples of unimproved grassland

Objective 8.3 Prevent future degradation of existing unimproved grassland

Objective 8.4 Encourage the creation of areas of unimproved grassland

Objective 8.5 Raise Awareness

| Name / Department                                  | Brief Description of Activity                    | Location                             | Date of activity   | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|--|--------------------------------------|--|----------------------------|----------------------------|------------------------|-----------|
| Roger Payne, Southend Museum                       | Insect survey                                    | Shoebury Old Ranges and Gunners Park | 10/04/2010<br>01/05/2010<br>16/05/2010   |                            | 1                          |                        | 8.2       |
| Mark Bridges Two Tree Island Warden and Volunteers | Cutting and clearing meadows to help wildflowers | Two Tree Island                      | 17/01/2010<br>04/08/2010<br>12/09/2010<br>16/09/2010<br>10/10/2010<br>12/12/2010 |                            | 10                         | 4000                   | 8.1, 8.4  |
| Roger Payne, Southend Museum                       | Insect survey                                    | Two Tree Island                      | 13/06/2010<br>03/07/2010   |                            | 1                          |                        | 8.2       |

## Traditional Orchard

Objective 8.1 Protect the existing extent of this habitat and prevent further losses

Objective 8.2 Increase the extent of traditional orchards in Southend-on-Sea

Objective 8.3 Raise Awareness

| Name / Department              | Brief Description of Activity  | Location            | Date of activity | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--------------------------------|--|---------------------|------------------|----------------------------|----------------------------|------------------------|-----------|
| Ron Bates, St Laurence Orchard | Events with Avro Day Centre for environmental and food related projects. | St Laurence Orchard | 2010             |                            |                            |                        | 8.3       |
| Ron Bates, St Laurence Orchard | Ravensbourne FC fruit gathering in Autumn                                | St Laurence Orchard | 2010             |                            |                            |                        | 8.3       |
| Ron Bates, St Laurence Orchard | Work with Growing Together to manage the site and help with harvesting   | St Laurence Orchard | 2010             |                            |                            |                        | 8.3       |
| Ron Bates, St Laurence Orchard | Milton Community Partnership pick at the orchard                         | St Laurence Orchard | 2010             |                            |                            |                        | 8.3       |
| Ron Bates, St Laurence Orchard | Apple Day  | St Laurence Orchard | 2010             |                            |                            |                        | 8.3       |

## Woodland

Objective 8.1 Maintain and protect the current extent and quality of this habitat

Objective 8.2 Increase the amount of this habitat within Southend Borough Council

Objective 8.3 Monitor the status of this habitat

Objective 8.4 Raise awareness

| Name / Department                                    | Brief Description of Activity         | Location   | Date of activity            | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|--|---------------------------------------|--|-----------------------------|----------------------------|----------------------------|------------------------|-----------|
| Roger Payne, Southend Museum                         | Insect survey                         | Belfairs Nature Reserve and Dodd's Grove                       | 27/06/2010<br>11/07/2010    |                            | 10                         |                        | 8.3       |
| Butterfly Conservation Cambridgeshire & Essex branch | Butterfly survey                      | Belfairs Nature Reserve, Dodd's Grove and Hadleigh Great Woods | 09/04/2010 to<br>24/07/2010 |                            | 14                         |                        | 8.3       |
| Vera Tring SENHS                                     | Coppicing work to encourage cow wheat | Dodds Grove  | 31/01/2010                  |                            | 10                         | 100                    | 8.1       |
| Southend Dormouse Group                              | Mammal and Dormouse survey            | Hadleigh Great Wood  | 17/04/2010 to<br>20/11/2010 |                            | 2                          |                        | 8.3       |

### **3.3 HABITAT ACTION PLANS - URBAN**

#### **Allotments**

Objective 8.1 Protection of this habitat

Objective 8.2 Enhancement of wildlife value of sites

Objective 8.3 Increase the number of allotment holders

Objective 8.4 Raise awareness

| <b>Name / Department</b>                | <b>Brief Description of Activity</b>               | <b>Location</b>                   | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|---|--|-----------------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Roger Payne, Southend Museum            | Bug-hunting walks as part of open day              | Manchester Drive Allotments       | 05/09/2010              | 15                                | 10+                               |                               | 8.4              |
| Southend-on-Sea Borough Council Culture | Reptile survey prior to allotment clearance        | Norwich Avenue and Eastern Avenue | 2010                    |                                   |                                   | 1500                          | 8.2              |
| Southend-on-Sea Borough Council Culture | Bramble clearance to increase number of allotments | Norwich Avenue and Eastern Avenue | 2010                    |                                   |                                   | 1500                          | 8.3              |

#### **Churchyards and Cemeteries**

Objective 8.1 Identification and protection of the most important examples of this habitat.

Objective 8.2 Encourage the increase of wildlife within this habitat

Objective 8.3 Raise awareness

| <b>Name / Department</b>     | <b>Brief Description of Activity</b> | <b>Location</b>          | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|------------------------------|--------------------------------------|--------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Roger Payne, Southend Museum | Wildlife survey                      | North Road Burial Ground | 17/04/2010              |                                   | 1                                 |                               | 8.1              |

## Gardens in Urban Areas

Objective 8.1 To increase the diversity and abundance of wildlife in gardens in Southend-on-Sea  
Objective 8.2 Raise awareness

| Name / Department                       | Brief Description of Activity  | Location                       | Date of activity | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|---|--------------------------------|--------------------------------|------------------|----------------------------|----------------------------|------------------------|-----------|
| EWT - Essex Ecology Services            | Badger survey                  | Belfairs Media Arts School     | 26/11/2010       |                            |                            |                        | 8.1       |
| Southend-on-Sea Borough Council Culture | New habitat for newt and frogs | Dunster Avenue Wildlife Garden | 2010             |                            | 20                         | 1800                   | 8.1       |

## Public Parks and Amenity Open Spaces

Objective 8.1 Improve the range of biodiversity found in parks and open spaces.  
Objective 8.2 Protect key species found in parks and open spaces  
Objective 8.3 Raise awareness

| Name / Department                                     | Brief Description of Activity   | Location   | Date of activity         | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|---|---|--|--------------------------|----------------------------|----------------------------|------------------------|-----------|
| Butterfly Conservation Cambridges hire & Essex branch | Butterfly survey  | Belfairs Nature Reserve, Dodd's Grove and Hadleigh Great Woods | 09/04/2010 to 24/07/2010 |                            | 14                         |                        | 8.3       |
| EWT People & Wildlife Team                            | Training day for teachers - Raising the Awareness of Outdoor Learning inc' Forest Schools | Blenheim Primary   | 22/02/2010               |                            | 50                         | School grounds         | 8.3       |
| EWT - Essex Ecology Services                          | Ecological assessment   | Cliff Gardens  | 21/04/2010               |                            |                            |                        | 8.2       |
| EWT People & Wildlife Team                            | Training day for teachers - Raising the Awareness of Outdoor Learning inc' Forest Schools | East wood Primary  | 24/05/2010               |                            | 30                         | School grounds         | 8.3       |
| EWT People & Wildlife Team                            | Training day for teachers - Raising the Awareness of Outdoor Learning inc' Forest Schools | Hinguar  | 31/03/2010               |                            | 36                         | 4800                   | 8.3       |

|   |   |                       |                          |      |      |                |          |
|---|---|-----------------------|--------------------------|------|------|----------------|----------|
| Roger Payne, Southend Museum                | Leigh Fishing Festival  | Old Leigh Town        | 25/07/2010               | 100+ | 100+ |                | 8.3      |
| Roger Payne, Southend Museum                | Pond-dipping for families, raising awareness of aquatic biodiversity part of an event entitled A Bug's life at the Central Museum | Priory Park           | 18/05/2010<br>17/06/2010 | 20+  | 30   |                | 8.3      |
| South East Essex Natural History Society    | Butterfly survey  | Priory Park           | 28/07/2010               |      | 1    |                | 8.2      |
| EWT People & Wildlife Team                  | Training day for teachers - Raising the Awareness of Outdoor Learning inc' Forest Schools   | Richmond Primary      | 04/01/2010               |      | 22   | 4800           | 8.3      |
| EWT People & Wildlife Team                  | Supporting the setting up and delivery of Forest Schools in school grounds  | Shoebury High         | 10/02/2010               | 15   | 2    | 4800           | 8.3      |
| Southend-on-Sea Borough Council Arb section | Poplar planting   | Southchurch Park East |                          |      |      |                | 8.1, 8.2 |
| EWT - Essex Ecology Services                | Badger survey   | Thorpe Hall Golf Club | 26/07/2010               |      |      |                | 8.2      |
| EWT People & Wildlife Team                  | Training day for teachers - Raising the Awareness of Outdoor Learning inc' Forest Schools   | Thorpedene Infants    | 30/04/2010               |      | 20   | School grounds | 8.3      |

## Roadsides and Verges

Objective 8.1 Identification and protection of notable species-rich verges

Objective 8.2 Encourage the diversification and enhancement of the wildlife value of species-rich verges

Objective 8.3 Raise awareness

| Name / Department                           | Brief Description of Activity                   | Location              | Date of activity | Number of Young Volunteers | Number of Adult Volunteers | Estimate Area Affected | Objective |
|---|---|-----------------------|------------------|----------------------------|----------------------------|------------------------|-----------|
| Southend-on-Sea Borough Council Arb section | Retaining deadwood and stumps, and ivy on trees | Southend Borough wide | on going         |                            |                            |                        | 8.2       |

### **3.4 SPECIES ACTION PLAN - BIRDS**

#### **Dark-bellied Brent Goose**

Objective 8.1 Protection and increase the number of this species

Objective 8.2 Raise awareness

No recorded actions during 2010

#### **Garden Birds**

Objective 8.1 Maintain and increase current population levels of these species

Objective 8.2 Recording of these species

Objective 8.3 Raise awareness

No recorded actions during 2010

#### **Skylark**

Objective 8.1 Protect and maintain the current population of this species

Objective 8.2 Identification and monitoring of important breeding sites in Southend-on-Sea.

Objective 8.3 Increase the numbers of the species in Southend-on-Sea

Objective 8.4 Raise awareness

No recorded actions during 2010

### **3.5 SPECIES ACTION PLAN – INVERTEBRATES**

#### **Heath Fritillary Butterfly**

Objective 8.1 Maintain a viable population of Heath Fritillary butterfly in Belfairs Nature Reserve

Objective 8.2 Monitor the populations of the Heath Fritillary butterfly in Belfairs Nature Reserve

Objective 8.3 Expand the current populations of the Heath Fritillary in Essex

Objective 8.4 Raise awareness

| <b>Name / Department</b>                                  | <b>Brief Description of Activity</b>                    | <b>Location</b> | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|---|---|-----------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Vera Tring<br>SENHS                                       | Coppicing work to aid Heath Fritillary                  | Dodds Grove     | 18/04/2010              |                                   | 1                                 | 100                           | 8.1              |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken & Bramble cutting & hunt for larva (none found) | Dodds Grove     | 16/04/2010              |                                   | 1                                 |                               | 8.1, 8.2         |
| Don Down & Betty Matson                                   | Bracken pulling & Hunt for larva (none found)           | Dodds Grove     | 14/05/2010              |                                   | 2                                 |                               | 8.1, 8.2         |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken pulling & hunt for larva (none found)           | Dodds Grove     | 28/05/2010              |                                   | 1                                 |                               | 8.1, 8.2         |
| Don Down & Green Grid Task Force                          | Bracken pulling   | Dodds Grove     | 03/06/2010              |                                   | 10                                |                               | 8.1              |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken pulling   | Dodds Grove     | 16/06/2010              |                                   | 1                                 |                               | 8.1              |
| Don Down  | Bracken pulling & Butterfly count                       | Dodds Grove     | 26/06/2010              |                                   | 1                                 |                               | 8.1, 8.2         |
| South Essex<br>Natural<br>History<br>Society              | Walk & Butterfly count                                  | Dodds Grove     | 27/06/2010              |                                   | 9                                 |                               | 8.2, 8.4         |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken pulling & Butterfly count                       | Dodds Grove     | 28/06/2010              |                                   | 1                                 |                               | 8.1, 8.2         |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken pulling & Butterfly count                       | Dodds Grove     | 02/07/2010              |                                   | 1                                 |                               | 8.1, 8.2         |
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Bracken pulling & Butterfly count                       | Dodds Grove     | 05/07/2010              |                                   | 1                                 |                               | 8.1, 8.2         |



|   |  |                |            |  |  |   |     |
|---|--|----------------|------------|--|--|---|-----|
| Don Down,<br>South Essex<br>Natural<br>History<br>Society | Work to help<br>Heath Fritillary<br>conservation | Dodds<br>Grove | 08/07/2010 |  |  | 1 | 8.1 |
|---|--|----------------|------------|--|--|---|-----|

### **Shrill Carder Bee**

Objective 8.1 Maintain and protect the current range of the Shrill Carder Bee

Objective 8.2 Monitor the existing populations and identify new populations of this species

Objective 8.3 Raise awareness

No recorded actions during 2010

### **Stag Beetle**

Objective 8.1 Maintain the current population level of this species

Objective 8.2 Survey and monitoring of this species

Objective 8.3 Increase the current population status of this species

Objective 8.4 Raise awareness

No recorded actions during 2010

### **3.6 SPECIES ACTION PLAN – MAMMALS**

#### **Bats**

Objective 8.1 Identify the current distribution and status of bat populations in Southend-on-Sea

Objective 8.2 Maintain current population levels

Objective 8.3 Encourage the increase of bat species from the population level

Objective 8.4 Raise awareness

No recorded actions during 2010

#### **Cetaceans (whales, porpoises and dolphins)**

Objective 8.1 Maintain current populations of these species

Objective 8.2 Recording these species

Objective 8.3 Raise awareness

No recorded action during 2010

#### **Dormouse**

Objective 8.1 Identify current distribution of dormouse population

Objective 8.2 Halt the further decline of the dormouse population

Objective 8.3 Encourage the increase of dormouse numbers through the habitat creation and appropriate management

Objective 8.4 Raise awareness

| <b>Name / Department</b> | <b>Brief Description of Activity</b>      | <b>Location</b>     | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|--------------------------|---|---------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Southend Dormouse Group  | Monitored next box populations each month | Hadleigh Great Wood | April - Nov 2010        |                                   | 2                                 |                               | 8.1              |

#### **Water Vole**

Objective 8.1 Identify and protect the populations of this species

Objective 8.2 Increase the population and range of this species

Objective 8.3 Monitor the status of this species

Objective 8.4 Raise awareness

No recorded actions in 2010

### **3.7 SPECIES ACTION PLAN – OTHER VERTEBRATES**

#### **Great Crested Newt**

Objective 8.1 Identify the current distribution of the great crested newt population

Objective 8.2 Monitoring the population of the great crested newt

Objective 8.3 Halt further declines in the population of great crested newt

Objective 8.4 Encourage the expansion of the great crested newt from its current range

No recorded action during 20010

#### **Reptiles**

Objective 8.1 Maintain the current extent of these species

Objective 8.2 Identify and monitor the current distribution of reptile species

Objective 8.3 Encourage the increase of reptile species from the current population level

Objective 8.4 Raise awareness

No recorded action during 2010

### **3.8 SPECIES ACTION PLAN – PLANTS AND TREES**

#### **Black Poplar**

Objective 8.1 Protection of the existing population of black poplar trees in Southend-on-Sea

Objective 8.2 Encourage an increase in the number of Black Poplar trees in the local region

Objective 8.3 Raise awareness

No recorded action during 2010

#### **Deptford Pink**

Objective 8.1 Maintain existing population levels of this species.

Objective 8.2 Encourage the increase of the Deptford Pink on Belton Hills Local Nature Reserve

Objective 8.3 Raise awareness

| <b>Name / Department</b> | <b>Brief Description of Activity</b> | <b>Location</b>     | <b>Date of activity</b> | <b>Number of Young Volunteers</b> | <b>Number of Adult Volunteers</b> | <b>Estimate Area Affected</b> | <b>Objective</b> |
|--------------------------|--------------------------------------|---------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------|
| Don Down & Betty Matson  | Planting Deptford Pink Seeds         | Belton Hills slopes | 08/10/2010              |                                   | 2                                 | none                          | 8.2              |

## SECTION 4 Biodiversity Action Plan Species Records 2010

This section is a record of Biodiversity Action Plan Species, or species found in a Southend Biodiversity Action Plan habitat, which have been sighted during 2010.

### 4.1 HABITAT ACTION PLAN - AQUATIC

#### Brackish Lagoon

No data recorded during 2010

#### Intertidal Mudflats and Sandflats

| Record # | Common name   | Scientific name               | Quantity | Name who witnessed species | Name who verified species | Date       | Location        | Grid ref  | Comment |
|----------|---------------|-------------------------------|----------|----------------------------|---------------------------|------------|-----------------|-----------|---------|
| IMSC 61  | Wigeon        | <i>Anas penelope</i>          |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 62  | Mallard       | <i>Anas platyrhynchos</i>     |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 63  | Teal          | <i>Anas crecca</i>            |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 64  | Grey Heron    | <i>Ardea cinerea</i>          |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 65  | Little Egret  | <i>Egretta garzetta</i>       |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 66  | Cormorant     | <i>Phalacrocorax carbo</i>    |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 67  | Marsh Harrier | <i>Circus aeruginosus</i>     |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 68  | Moorhen       | <i>Gallinula chloropus</i>    |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 69  | Oystercatcher | <i>Haematopus ostralegus</i>  |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 70  | Pied Avocet   | <i>Recurvirostra avosetta</i> |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 71  | Lapwing       | <i>Vanellus vanellus</i>      |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |
| IMSC 72  | Golden Plover | <i>Pluvialis apricaria</i>    |          | SE Essex RSPB              |                           | 19/09/2010 | Two Tree Island | TQ818 848 |         |

|                |                          |                               |  |               |  |            |                 |           |  |
|----------------|--------------------------|-------------------------------|--|---------------|--|------------|-----------------|-----------|--|
| <b>IMSC 73</b> | Grey Plover              | <i>Pluvialis squatarola</i>   |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 74</b> | Ringed Plover            | <i>Charadrius hiaticula</i>   |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 75</b> | Black-tailed Godwit      | <i>Limosa limosa</i>          |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 76</b> | Bar-tailed Godwit        | <i>Limosa lapponica</i>       |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 77</b> | Curlew                   | <i>Numenius arquata</i>       |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 78</b> | Common Redshank          | <i>Tringa totanus</i>         |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 79</b> | Greenshank               | <i>Tringa nebularia</i>       |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 80</b> | Turnstone                | <i>Arenaria interpres</i>     |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 81</b> | Dunlin                   | <i>Calidris alpina</i>        |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 82</b> | Common Gull              | <i>Larus canus</i>            |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 83</b> | Great Black-backed Gull  | <i>Larus marinus</i>          |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 84</b> | Lesser Black-backed Gull | <i>Larus fuscus</i>           |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 85</b> | Common Black-headed Gull | <i>Larus ridibundus</i>       |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 86</b> | Common Tern              | <i>Sterna hirundo</i>         |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 87</b> | Sandwich Tern            | <i>Sterna sandvicensis</i>    |  | SE Essex RSPB |  | 19/09/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 88</b> | Dark-bellied Brent Goose | <i>Branta bernicla</i>        |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 89</b> | Shelduck                 | <i>Tadorna tadorna</i>        |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 90</b> | Wigeon                   | <i>Anas penelope</i>          |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 91</b> | Mallard                  | <i>Anas platyrhynchos</i>     |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 92</b> | Teal                     | <i>Anas crecca</i>            |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 93</b> | Little Grebe             | <i>Tachybaptus ruficollis</i> |  | SE Essex RSPB |  | 07/03/2010 | Two Tree        | TQ818 848 |  |

|                 |                          |                               |  |               |  |            |                 |           |  |
|-----------------|--------------------------|-------------------------------|--|---------------|--|------------|-----------------|-----------|--|
|                 |                          |                               |  |               |  |            | Island          |           |  |
| <b>IMSC 94</b>  | Grey Heron               | <i>Ardea cinerea</i>          |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 95</b>  | Cormorant                | <i>Phalacrocorax carbo</i>    |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 96</b>  | Water Rail               | <i>Rallus aquaticus</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 97</b>  | Moorhen                  | <i>Gallinula chloropus</i>    |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 98</b>  | Coot                     | <i>Fulica atra</i>            |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 99</b>  | Oystercatcher            | <i>Haematopus ostralegus</i>  |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 100</b> | Pied Avocet              | <i>Recurvirostra avosetta</i> |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 101</b> | Lapwing                  | <i>Vanellus vanellus</i>      |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 102</b> | Grey Plover              | <i>Pluvialis squatarola</i>   |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 103</b> | Black-tailed Godwit      | <i>Limosa limosa</i>          |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 104</b> | Curlew                   | <i>Numenius arquata</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 105</b> | Redshank                 | <i>Tringa totanus</i>         |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 106</b> | Turnstone                | <i>Arenaria interpres</i>     |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 107</b> | Knot                     | <i>Calidris canuta</i>        |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 108</b> | Dunlin                   | <i>Calidris alpina</i>        |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 109</b> | Great Black-backed Gull  | <i>Larus marinus</i>          |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 110</b> | Herring Gull             | <i>Larus argentatus</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 111</b> | Lesser Black-backed Gull | <i>Larus fuscus</i>           |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |
| <b>IMSC 112</b> | Black-headed Gull        | <i>Larus ridibundus</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818 848 |  |



## Ponds and Lakes

No data recorded during 2010

## Reedbeds and Marsh

No data recorded during 2010

## Rivers, Streams and Drainage Ditches

No data recorded during 2010

## Saltmarsh

| Record # | Common name | Scientific name               | Quantity | Name who witnessed species | Name who verified species | Date       | Location        | Grid ref  | Comment                   |
|----------|-------------|-------------------------------|----------|----------------------------|---------------------------|------------|-----------------|-----------|---------------------------|
| SM159    | Avocet      | <i>Recurvirostra avosetta</i> | 79       | M Bridges                  | M Bridges                 | 28/03/2010 | Two Tree Island | TQ8188 48 |                           |
| SM160    | Avocet      | <i>Recurvirostra avosetta</i> | 90       | M Bridges                  | M Bridges                 | 27/05/2010 | Two Tree Island | TQ8188 48 | 40 breeding pairs in 2010 |

## Seagrass beds

No data recorded during 2010

## 4.2 HABITAT ACTION PLANS – TERRESTRIAL

### Ancient and Veteran Trees

No data recorded during 2010

### Arable Land and Field Margins

No data recorded during 2010

### Hedgerows

No data recorded during 2010

### Natural Grasslands

| Record # | Common name          | Scientific name             | Quantity | Name who witnessed species | Name who verified species | Date | Location              | Grid ref | Comment |
|----------|----------------------|-----------------------------|----------|----------------------------|---------------------------|------|-----------------------|----------|---------|
| NG179    | Cat's-ear            | <i>Hypochaeris radicata</i> | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG180    | Perennial Rye-grass  | <i>Lolium perenne</i>       | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG181    | Common Mallow        | <i>Malva sylvestris</i>     | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG182    | Pineapple weed       | <i>Matricaria discoidea</i> | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG183    | Spotted Medick       | <i>Medicago arabica</i>     | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG184    | Upright Chickweed    | <i>Moenchia erecta</i>      | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG185    | Parsley-piert        | <i>Aphanes arvensis</i>     | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG186    | Buck's-horn Plantain | <i>Plantago coronopus</i>   | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |
| NG187    | Ribwort Plantain     | <i>Plantago lanceolata</i>  | 1        | Barbara Williams           | Barbara Williams          | 2010 | Shoebury Common South |          |         |

|              |                          |                                      |   |                  |                  |      |                       |  |                   |
|--------------|--------------------------|--------------------------------------|---|------------------|------------------|------|-----------------------|--|-------------------|
| <b>NG188</b> | Bulbous Meadow-grass     | <i>Poa bulbosa</i>                   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  | Nationally Scarce |
| <b>NG189</b> | Sheep's Sorrel           | <i>Rumex acetosella</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG190</b> | Clustered Dock           | <i>Rumex conglomeratus</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG191</b> | Groundsel                | <i>Senecio vulgaris</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG192</b> | Hedge Mustard            | <i>Sisymbrium officinale</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG193</b> | Dandelion                | <i>Taraxacum agg.</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG194</b> | Lesser Trefoil           | <i>Trifolium dubium</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG195</b> | White Clover             | <i>Trifolium repens</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG196</b> | Rough Clover             | <i>Trifolium scabrum</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG197</b> | Wall Speedwell           | <i>Veronica arvensis</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG198</b> | Daisy                    | <i>Bellis perennis</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG199</b> | Sea Beet                 | <i>Beta vulgaris subsp. maritima</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG200</b> | Soft-brome               | <i>Bromus hordeaceus</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG201</b> | Shepherd's-purse         | <i>Capsella bursa-pastoris</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG202</b> | Hoary Cress              | <i>Lepidium draba</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG203</b> | Sticky Mouse-ear         | <i>Cerastium glomeratum</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG204</b> | Smooth Hawk's-beard      | <i>Crepis capillaris</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG205</b> | Yarrow                   | <i>Achillea millefolium</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG206</b> | Common Stork's-bill      | <i>Erodium cicutarium</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |
| <b>NG207</b> | Dove's-foot Crane's-bill | <i>Geranium molle</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South |  |                   |

|              |                              |                               |   |                  |                  |      |                                     |  |  |
|--------------|------------------------------|-------------------------------|---|------------------|------------------|------|-------------------------------------|--|--|
| <b>NG208</b> | Wall Barley                  | <i>Hordeum murinum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Common South               |  |  |
| <b>NG209</b> | Great Lettuce                | <i>Lactuca virosa</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG210</b> | Broad-leaved Everlasting-pea | <i>Lathyrus latifolius</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG211</b> | Fairy Flax                   | <i>Linum catharticum</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG212</b> | Common Mallow                | <i>Malva sylvestris</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG213</b> | Black Medick                 | <i>Medicago lupulina</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG214</b> | Wild Celery                  | <i>Apium graveolens</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG215</b> | Parsley Water-dropwort       | <i>Oenanthe lachenalii</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG216</b> | Common Restharrow            | <i>Ononis repens</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG217</b> | Buck's-horn Plantain         | <i>Plantago coronopus</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG218</b> | Selfheal                     | <i>Prunella vulgaris</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG219</b> | Blackthorn                   | <i>Prunus spinosa</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG220</b> | Pedunculate Oak              | <i>Quercus robur</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG221</b> | Small-flowered Buttercup     | <i>Ranunculus parviflorus</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG222</b> | Bastard Cabbage              | <i>Rapistrum rugosum</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG223</b> | False Oat-Grass              | <i>Arrhenatherum elatius</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |

|              |                    |                            |   |                  |                  |      |                                     |  |  |
|--------------|--------------------|----------------------------|---|------------------|------------------|------|-------------------------------------|--|--|
| <b>NG224</b> | Sea Pearlwort      | <i>Sagina maritima</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG225</b> | Wild Clary         | <i>Salvia verbenaca</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG226</b> | Smooth Sow-thistle | <i>Sonchus oleraceus</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG227</b> | Lesser Trefoil     | <i>Trifolium dubium</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG228</b> | White Clover       | <i>Trifolium repens</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG229</b> | Great Mullein      | <i>Verbascum thapsus</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG230</b> | Agrimony           | <i>Agrimonia eupatoria</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG231</b> | Daisy              | <i>Bellis perennis</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG232</b> | Black Mustard      | <i>Brassica nigra</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG233</b> | Hedge Bindweed     | <i>Calystegia sepium</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG234</b> | Sea Couch          | <i>Elytrigia atherica</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG235</b> | Common Couch       | <i>Elytrigia repens</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG236</b> | Musk Thistle       | <i>Carduus nutans</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG237</b> | Seaside Daisy      | <i>Erigeron glaucus</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG238</b> | Common Knapweed    | <i>Centaurea nigra</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG239</b> | Common Mouse-ear   | <i>Cerastium fontanum</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |

|              |                             |                                |   |                  |                  |      |                                     |  |  |
|--------------|-----------------------------|--------------------------------|---|------------------|------------------|------|-------------------------------------|--|--|
|              |                             |                                |   |                  |                  |      | Reserve                             |  |  |
| <b>NG240</b> | Rosebay Willowherb          | <i>Chamerion angustifolium</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG241</b> | Creeping Thistle            | <i>Cirsium arvense</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG242</b> | Common Centaury             | <i>Centaurea erythraea</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG243</b> | Spanish Bluebell            | <i>Hyacinthoides hispanica</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG244</b> | Yarrow                      | <i>Achillea millefolium</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG245</b> | Red-hot-poker               | <i>Kniphofia uvaria</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG246</b> | Wild Onion                  | <i>Allium vineale</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG247</b> | Dove's-foot Crane's-bill    | <i>Geranium molle</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG248</b> | Small-flowered Crane's-bill | <i>Geranium pusillum</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG249</b> | Sea-milkwort                | <i>Glaux maritima</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG250</b> | Marram                      | <i>Ammophila arenaria</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG251</b> | Mouse-ear-hawkweed          | <i>Pilosella officinarum</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG252</b> | Scarlet Pimpernel           | <i>Anagallis arvensis</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoebury Old Rangers Nature Reserve |  |  |
| <b>NG253</b> | Red Dead-nettle             | <i>Lamium purpureum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station     |  |  |
| <b>NG254</b> | Common Bird's-foot-trefoil  | <i>Lotus corniculatus</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station     |  |  |

|              |                        |                               |   |                  |                  |      |                                 |  |  |
|--------------|------------------------|-------------------------------|---|------------------|------------------|------|---------------------------------|--|--|
| <b>NG255</b> | Bur Chervil            | <i>Anthriscus caucalis</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG256</b> | Dwarf Mallow           | <i>Malva neglecta</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG257</b> | Common Mallow          | <i>Malva sylvestris</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG258</b> | Spotted Medick         | <i>Medicago arabica</i>       | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG259</b> | White Campion          | <i>Silene latifolia</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG260</b> | Upright Chickweed      | <i>Moenchia erecta</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG261</b> | Field Forget-me-not    | <i>Myosotis arvensis</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG262</b> | Early Forget-me-not    | <i>Myosotis ramosissima</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG263</b> | Changing Forget-me-not | <i>Myosotis discolor</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG264</b> | Opium Poppy            | <i>Papaver somniferum</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG265</b> | Bristly Oxtongue       | <i>Picris echioides</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG266</b> | Buck's-horn Plantain   | <i>Plantago coronopus</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG267</b> | Ribwort Plantain       | <i>Plantago lanceolata</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG268</b> | Creeping Cinquefoil    | <i>Potentilla reptans</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG269</b> | Thyme-leaved Sandwort  | <i>Arenaria serpyllifolia</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG270</b> | Creeping Buttercup     | <i>Ranunculus repens</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG271</b> | Weld                   | <i>Reseda luteola</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG272</b> | Sweet-briar            | <i>Rosa rubiginosa</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG273</b> | Bramble                | <i>Rubus fruticosus agg.</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |



|              |                     |                                      |   |                  |                  |      |                                 |  |  |
|--------------|---------------------|--------------------------------------|---|------------------|------------------|------|---------------------------------|--|--|
| <b>NG274</b> | Sheep's Sorrel      | <i>Rumex acetosella</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG275</b> | Curled Dock         | <i>Rumex crispus</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG276</b> | Meadow Saxifrage    | <i>Saxifraga granulata</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG277</b> | Biting Stonecrop    | <i>Sedum acre</i>                    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG278</b> | Field Madder        | <i>Sherardia arvensis</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG279</b> | Alexanders          | <i>Smyrniolum olusatrum</i>          | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG280</b> | Prickly Sow-thistle | <i>Sonchus asper</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG281</b> | Smooth Sow-thistle  | <i>Sonchus oleraceus</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG282</b> | Lesser Sea-spurrey  | <i>Spergularia marina</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG283</b> | Common Chickweed    | <i>Stellaria media</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG284</b> | Dandelion           | <i>Taraxacum agg.</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG285</b> | Hop Trefoil         | <i>Trifolium campestre</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG286</b> | Rough Clover        | <i>Trifolium scabrum</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG287</b> | Daisy               | <i>Bellis perennis</i>               | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG288</b> | Sea Beet            | <i>Beta vulgaris subsp. maritima</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG289</b> | Black Mustard       | <i>Brassica nigra</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG290</b> | Field Maple         | <i>Acer campestre</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG291</b> | Sea Couch           | <i>Elytrigia atherica</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |

|              |                             |                               |   |                  |                  |      |                                 |  |  |
|--------------|-----------------------------|-------------------------------|---|------------------|------------------|------|---------------------------------|--|--|
| <b>NG292</b> | Hoary Cress                 | <i>Lepidium draba</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG293</b> | Musk Thistle                | <i>Carduus nutans</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG294</b> | Slender Thistle             | <i>Carduus tenuiflorus</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG295</b> | Sand Sedge                  | <i>Carex arenaria</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG296</b> | Common Whitlowgrass         | <i>Erophila verna</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG297</b> | Sticky Mouse-ear            | <i>Cerastium glomeratum</i>   | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG298</b> | Creeping Thistle            | <i>Cirsium arvense</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG299</b> | Cock's-foot                 | <i>Dactylis glomerata</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG300</b> | Yarrow                      | <i>Achillea millefolium</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG301</b> | Common Stork's-bill         | <i>Erodium cicutarium</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG302</b> | Sea-holly                   | <i>Eryngium maritimum</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG303</b> | Lady's Bedstraw             | <i>Galium verum</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG304</b> | Dove's-foot Crane's-bill    | <i>Geranium molle</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG305</b> | Small-flowered Crane's-bill | <i>Geranium pusillum</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG306</b> | Round-leaved Crane's-bill   | <i>Geranium rotundifolium</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG307</b> | Yellow Horned-poppy         | <i>Glaucium flavum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG308</b> | Ground-ivy                  | <i>Glechoma hederacea</i>     | 2 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |
| <b>NG309</b> | Mouse-ear-hawkweed          | <i>Pilosella officinarum</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Shoeburyness Coastguard Station |  |  |

|              |                   |                              |   |                  |                  |            |                                 |           |  |
|--------------|-------------------|------------------------------|---|------------------|------------------|------------|---------------------------------|-----------|--|
| <b>NG310</b> | Scarlet Pimpernel | <i>Anagallis arvensis</i>    | 1 | Barbara Williams | Barbara Williams | 2010       | Shoeburyness Coastguard Station |           |  |
| <b>NG311</b> | Common Pheasant   | <i>Phasianus colchicus</i>   |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG312</b> | Kestrel           | <i>Falco tinnunculus</i>     |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG313</b> | Sparrowhawk       | <i>Accipiter nisus</i>       |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG314</b> | Woodpigeon        | <i>Columba palumbus</i>      |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG315</b> | Collared Dove     | <i>Streptopelia decaocto</i> |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG316</b> | Green Woodpecker  | <i>Picus viridis</i>         |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG317</b> | Magpie            | <i>Pica pica</i>             |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG318</b> | Carrion Crow      | <i>Corvus corone</i>         |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG319</b> | Blue Tit          | <i>Cyanistes caeruleus</i>   |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG320</b> | Swallow           | <i>Hirundo rustica</i>       |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG321</b> | House Martin      | <i>Delichon urbica</i>       |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG322</b> | Skylark           | <i>Alauda arvensis</i>       |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG323</b> | Starling          | <i>Sturnus vulgaris</i>      |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG324</b> | Blackbird         | <i>Turdus merula</i>         |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG325</b> | Robin             | <i>Erithacus rubecula</i>    |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG326</b> | Meadow Pipit      | <i>Anthus pratensis</i>      |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG327</b> | Goldfinch         | <i>Carduelis carduelis</i>   |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG328</b> | Linnet            | <i>Carduelis cannabina</i>   |   | SE Essex RSPB    |                  | 19/09/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG329</b> | Common Pheasant   | <i>Phasianus colchicus</i>   |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG330</b> | Kestrel           | <i>Falco tinnunculus</i>     |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG331</b> | Woodpigeon        | <i>Columba palumbus</i>      |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG332</b> | Collared Dove     | <i>Streptopelia decaocto</i> |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG333</b> | Magpie            | <i>Pica pica</i>             |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |
| <b>NG334</b> | Carrion Crow      | <i>Corvus corone</i>         |   | SE Essex RSPB    |                  | 07/03/2010 | Two Tree Island                 | TQ81 8848 |  |

|       |               |                                |  |               |  |            |                 |          |  |
|-------|---------------|--------------------------------|--|---------------|--|------------|-----------------|----------|--|
| NG335 | Great Tit     | <i>Parus major</i>             |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG336 | Blue Tit      | <i>Cyanistes caeruleus</i>     |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG337 | Skylark       | <i>Alauda arvensis</i>         |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG338 | Wren          | <i>Troglodytes troglodytes</i> |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG339 | Starling      | <i>Sturnus vulgaris</i>        |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG340 | Blackbird     | <i>Turdus merula</i>           |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG341 | Robin         | <i>Erithacus rubecula</i>      |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG342 | House Sparrow | <i>Passer domesticus</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG343 | Dunnock       | <i>Prunella modularis</i>      |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG344 | Chaffinch     | <i>Fringilla coelebs</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG345 | Greenfinch    | <i>Carduelis chloris</i>       |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG346 | Goldfinch     | <i>Carduelis carduelis</i>     |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |
| NG347 | Reed Bunting  | <i>Emberiza schoeniclus</i>    |  | SE Essex RSPB |  | 07/03/2010 | Two Tree Island | TQ818848 |  |

## Traditional Orchard

| Record # | Common name         | Scientific name            | Quantity | Name who witnessed species | Name who verified species | Date | Location            | Grid ref | Comment |
|----------|---------------------|----------------------------|----------|----------------------------|---------------------------|------|---------------------|----------|---------|
| TO1      | Meadow Cranesbill   | <i>Geranium pratense</i>   |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |
| TO2      | Hedgerow Cranesbill | <i>Geranium Pyrenaicum</i> |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |
| TO3      | Red Clover          | <i>Trifolium pratense</i>  |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |
| TO4      | White Clover        | <i>Trifolium repens</i>    |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |
| TO5      | Spotted Medick      | <i>Medicago arabica</i>    |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |
| TO6      | Common Vetch        | <i>Vicia sativa</i>        |          | Ron Bates                  | Ron Bates                 | 2010 | St Lawrence Orchard |          |         |

|             |                    |                             |  |           |           |      |                     |  |  |
|-------------|--------------------|-----------------------------|--|-----------|-----------|------|---------------------|--|--|
| <b>TO7</b>  | Meadow buttercup   | <i>Ranunculus acris</i>     |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO8</b>  | Red campion        | <i>Silene dioica</i>        |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO9</b>  | Greater stitchwort | <i>Stellaria holostea</i>   |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO10</b> | White dead nettle  | <i>Lamium album</i>         |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO11</b> | Dock               | <i>Rumex obtusifolius</i>   |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO12</b> | Hedge bedstraw     | <i>Galium album</i>         |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO13</b> | Hedge woundwort    | <i>Stachys sylvatica</i>    |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO14</b> | Great mullein      | <i>Verbascum thapsus</i>    |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO15</b> | Field speedwell    | <i>Veronica persica</i>     |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO16</b> | Great plantain     | <i>Plantago major</i>       |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO17</b> | Yarrow             | <i>Achillea millefolium</i> |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO18</b> | Ox-eye daisy       | <i>Leucanthemum vulgare</i> |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO19</b> | Meadow thistle     | <i>Cirsium dissectum</i>    |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO20</b> | Greater knapweed   | <i>Centaurea scabiosa</i>   |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO21</b> | Sow thistle        | <i>Sonchus spp.</i>         |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO22</b> | Dandelion          | <i>Taraxacum officinale</i> |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO23</b> | Milkweed           | <i>Asclepias syriaca</i>    |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO24</b> | Celandine          | <i>Ranunculus spp</i>       |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO25</b> | Snowdrop           | <i>Galanthus nivalis</i>    |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO26</b> | Daffodil           | <i>Narcissus spp.</i>       |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO27</b> | Weasel             | <i>Mustela nivalis</i>      |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |

|             |             |                          |  |           |           |      |                     |  |  |
|-------------|-------------|--------------------------|--|-----------|-----------|------|---------------------|--|--|
| <b>TO28</b> | Fox         | <i>Vulpes vulpes</i>     |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO29</b> | Field vole  | <i>Microtus agrestis</i> |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO30</b> | Badger      | <i>Meles meles</i>       |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO31</b> | Grasshopper | <i>Chorthippus spp</i>   |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO32</b> | Cricket     | <i>Gryllus spp.</i>      |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO33</b> | Blackbird   | <i>Turdus merula</i>     |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO34</b> | Dove        | <i>Streptopelia spp</i>  |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO35</b> | Crow        | <i>Corvus corone</i>     |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO36</b> | Whitethroat | <i>Sylvia communis</i>   |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |
| <b>TO37</b> | Adder       | <i>Vipera berus</i>      |  | Ron Bates | Ron Bates | 2010 | St Lawrence Orchard |  |  |

## Woodlands

| Record #   | Common name         | Scientific name          | Quantity | Name who witnessed species | Name who verified species | Date       | Location                 | Grid ref  | Comment |
|------------|---------------------|--------------------------|----------|----------------------------|---------------------------|------------|--------------------------|-----------|---------|
| <b>W82</b> | Brimstone           | <i>Gonepteryx rhamni</i> | 4        | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W83</b> | Green Vained. White | <i>Pieris napi</i>       | 2        | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W84</b> | Whites              | <i>Pieris spp.</i>       | 2        | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W85</b> | Peacock             | <i>Inachis io</i>        | 16       | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W86</b> | Comma               | <i>Polygonia c-album</i> | 3        | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W87</b> | Speckled Wood       | <i>Pararge aegeria</i>   | 1        | Graham Bailey              | Graham Bailey             | 24/04/2010 | Belfairs NR: Dodds Grove | TQ817 878 |         |
| <b>W88</b> | Heath Fritillary    | <i>Mellicta athalia</i>  | 4        | Steve Arlow                | Steve Arlow               | 03/06/2010 | Belfairs NR: Dodds Grove | TQ817 880 |         |

|             |                  |                              |     |             |             |            |                             |              |  |
|-------------|------------------|------------------------------|-----|-------------|-------------|------------|-----------------------------|--------------|--|
| <b>W89</b>  | Heath Fritillary | <i>Mellicta athalia</i>      | 2   | Steve Arlow | Steve Arlow | 03/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W90</b>  | Brimstone        | <i>Gonepteryx rhamni</i>     | 1   | Steve Arlow | Steve Arlow | 03/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W91</b>  | Large Skipper    | <i>Ochlodes faunus</i>       | 7   | Steve Arlow | Steve Arlow | 19/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W92</b>  | Heath Fritillary | <i>Mellicta athalia</i>      | 98  | Steve Arlow | Steve Arlow | 19/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W93</b>  | Speckled Wood    | <i>Pararge aegeria</i>       | 3   | Steve Arlow | Steve Arlow | 19/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W94</b>  | Large Skipper    | <i>Ochlodes faunus</i>       | 10  | Steve Arlow | Steve Arlow | 24/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W95</b>  | Heath Fritillary | <i>Mellicta athalia</i>      | 333 | Steve Arlow | Steve Arlow | 24/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W96</b>  | Speckled Wood    | <i>Pararge aegeria</i>       | 1   | Steve Arlow | Steve Arlow | 24/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W97</b>  | Small Skipper    | <i>Thymelicus sylvestris</i> | 10  | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W98</b>  | Large Skipper    | <i>Ochlodes faunus</i>       | 10  | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W99</b>  | Brimstone        | <i>Gonepteryx rhamni</i>     | 2   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W100</b> | Large White      | <i>Pieris brassicae</i>      | 1   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W101</b> | Holly Blue       | <i>Celastrina argiolus</i>   | 2   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W102</b> | White Admiral    | <i>Limenitis camilla</i>     | 1   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W103</b> | Heath Fritillary | <i>Mellicta athalia</i>      | 100 | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W104</b> | Meadow Brown     | <i>Maniola jurtina</i>       | 1   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W105</b> | Ringlet          | <i>Aphantopus hyperantus</i> | 1   | Steve Arlow | Steve Arlow | 27/06/2010 | Belfairs NR:<br>Dodds Grove | TQ819<br>876 |  |
| <b>W106</b> | Brimstone        | <i>Gonepteryx rhamni</i>     | 4   | Donald Down | Donald Down | 11/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W107</b> | Peacock          | <i>Inachis io</i>            | 1   | Donald Down | Donald Down | 11/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W108</b> | Small White      | <i>Pieris rapae</i>          | 5   | Donald Down | Donald Down | 11/06/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |
| <b>W109</b> | Small White      | <i>Pieris rapae</i>          | 3   | Donald Down | Donald Down | 07/07/2010 | Belfairs NR:<br>Dodds Grove | TQ817<br>880 |  |



|             |                  |                              |    |             |             |            |                                  |           |  |
|-------------|------------------|------------------------------|----|-------------|-------------|------------|----------------------------------|-----------|--|
| <b>W110</b> | Heath Fritillary | <i>Mellicta athalia</i>      | 30 | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W111</b> | Heath Fritillary | <i>Mellicta athalia</i>      | 21 | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W112</b> | Speckled Wood    | <i>Pararge aegeria</i>       | 6  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W113</b> | Holly Blue       | <i>Celastrina argiolus</i>   | 9  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W114</b> | Holly Blue       | <i>Celastrina argiolus</i>   | 2  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W115</b> | White Admiral    | <i>Limenitis camilla</i>     | 7  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W116</b> | Green Vnd. White | <i>Pieris napi</i>           | 2  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W117</b> | Green Vnd. White | <i>Pieris napi</i>           | 6  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W118</b> | Large White      | <i>Pieris brassicae</i>      | 2  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W119</b> | Large White      | <i>Pieris brassicae</i>      | 2  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W120</b> | Red Admiral      | <i>Vanessa atalanta</i>      | 2  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W121</b> | Large Skipper    | <i>Ochlodes faunus</i>       | 1  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W122</b> | Large Skipper    | <i>Ochlodes faunus</i>       | 1  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W123</b> | Essex Skipper    | <i>Thymelicus lineola</i>    | 3  | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W124</b> | Small Skipper    | <i>Thymelicus sylvestris</i> | 5  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W125</b> | Ringlet          | <i>Aphantopus hyperantus</i> | 30 | Donald Down | Donald Down | 07/07/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W126</b> | Comma            | <i>Polygonia c-album</i>     | 1  | Donald Down | Donald Down | 11/06/2010 | Belfairs NR: Dodds Grove         | TQ817 880 |  |
| <b>W127</b> | Small Skipper    | <i>Thymelicus sylvestris</i> | 2  | Mark Bunch  | Mark Bunch  | 01/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W128</b> | Large Skipper    | <i>Ochlodes faunus</i>       | 2  | Mark Bunch  | Mark Bunch  | 01/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W129</b> | White Admiral    | <i>Limenitis camilla</i>     | 1  | Mark Bunch  | Mark Bunch  | 01/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |

|             |                      |                                      |    |                            |                            |            |  |              |  |
|-------------|----------------------|--------------------------------------|----|----------------------------|----------------------------|------------|--|--------------|--|
| <b>W130</b> | Comma                | <i>Polygonia c-album</i>             | 1  | Mark Bunch                 | Mark Bunch                 | 01/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W131</b> | Heath Fritillary     | <i>Mellicta athalia</i>              | 2  | Mark Bunch                 | Mark Bunch                 | 01/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W132</b> | Essex Skipper        | <i>Thymelicus lineola</i>            | 1  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W133</b> | Large Skipper        | <i>Ochlodes faunus</i>               | 2  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W134</b> | Brimstone            | <i>Gonepteryx rhamni</i>             | 1  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W135</b> | Holly Blue           | <i>Celastrina argiolus</i>           | 2  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W136</b> | White Admiral        | <i>Limenitis camilla</i>             | 12 | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W137</b> | Red Admiral          | <i>Vanessa atalanta</i>              | 1  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W138</b> | Heath Fritillary     | <i>Mellicta athalia</i>              | 25 | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W139</b> | Meadow Brown         | <i>Maniola jurtina</i>               | 1  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W140</b> | Ringlet              | <i>Aphantopus hyperantus</i>         | 1  | Steve Arlow                | Steve Arlow                | 04/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W141</b> | Small/Ess ex Skipper | <i>Thymelicus sylvestris/lineola</i> | 20 | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W142</b> | Essex Skipper        | <i>Thymelicus lineola</i>            | 1  | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W143</b> | Large Skipper        | <i>Ochlodes faunus</i>               | 50 | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W144</b> | Brimstone            | <i>Gonepteryx rhamni</i>             | 2  | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W145</b> | Whites               | <i>Pieris spp.</i>                   | 50 | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |
| <b>W146</b> | White Admiral        | <i>Limenitis camilla</i>             | 10 | Jan Edmunds,<br>Dave Jones | Jan Edmunds,<br>Dave Jones | 10/07/2010 | Belfairs NR:<br>Hadleigh<br>Great Wood | TQ820<br>875 |  |

|             |                   |                              |    |                         |                         |            |                                  |           |  |
|-------------|-------------------|------------------------------|----|-------------------------|-------------------------|------------|----------------------------------|-----------|--|
| <b>W147</b> | Peacock           | <i>Inachis io</i>            | 2  | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W148</b> | Comma             | <i>Polygonia c-album</i>     | 3  | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W149</b> | Heath Fritillary  | <i>Mellicta athalia</i>      | 8  | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W150</b> | Speckled Wood     | <i>Pararge aegeria</i>       | 2  | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W151</b> | Meadow Brown      | <i>Maniola jurtina</i>       | 50 | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W152</b> | Ringlet           | <i>Aphantopus hyperantus</i> | 50 | Jan Edmunds, Dave Jones | Jan Edmunds, Dave Jones | 10/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W153</b> | Brimstone         | <i>Gonepteryx rhamni</i>     | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W154</b> | Large White       | <i>Pieris brassicae</i>      | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W155</b> | Small White       | <i>Pieris rapae</i>          | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W156</b> | Purple Hairstreak | <i>Neozephyrus quercus</i>   | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W157</b> | White Admiral     | <i>Limenitis camilla</i>     | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W158</b> | Comma             | <i>Polygonia c-album</i>     | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W159</b> | Speckled Wood     | <i>Pararge aegeria</i>       | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W160</b> | Gatekeeper        | <i>Pyronia tithonus</i>      | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W161</b> | Ringlet           | <i>Aphantopus hyperantus</i> | 1  | Peter Ray-Smith         | Peter Ray-Smith         | 24/07/2010 | Belfairs NR: Hadleigh Great Wood | TQ820 875 |  |
| <b>W162</b> | Wood Mouse        | <i>Apodemus sylvaticus</i>   | 3  | Karen Bigmore           | Sue Portsmouth          | 22/05/2010 | Hadleigh Great Wood              |           |  |
| <b>W163</b> | Wood Mouse        | <i>Apodemus sylvaticus</i>   | 1  | Karen Bigmore           | Sue Portsmouth          | 24/07/2010 | Hadleigh Great Wood              |           |  |
| <b>W164</b> | Wood Mouse        | <i>Apodemus sylvaticus</i>   | 3  | Karen Bigmore           | Sue Portsmouth          | 21/08/2010 | Hadleigh Great Wood              |           |  |

|             |                          |                            |    |               |                |            |                     |           |                         |
|-------------|--------------------------|----------------------------|----|---------------|----------------|------------|---------------------|-----------|-------------------------|
| <b>W165</b> | Wood Mouse               | <i>Apodemus sylvaticus</i> | 3  | Karen Bigmore | Sue Portsmouth | 25/09/2010 | Hadleigh Great Wood |           |                         |
| <b>W166</b> | Wood Mouse               | <i>Apodemus sylvaticus</i> | 2  | Karen Bigmore | Sue Portsmouth | 23/10/2010 | Hadleigh Great Wood |           |                         |
| <b>W167</b> | Wood Mouse               | <i>Apodemus sylvaticus</i> | 10 | Karen Bigmore | Sue Portsmouth | 20/11/2010 | Hadleigh Great Wood |           |                         |
| <b>W168</b> | White Admiral            | <i>Limnitis camilla</i>    | 7  | Ross Gardner  | Ross Gardner   | 07/07/2010 | Hadleigh Great Wood |           |                         |
| <b>W169</b> | Bumblebee                | <i>Bombus hypnorum</i>     | 1  |               |                | 28/06/2010 | Hadleigh Great Wood |           | Seen on bramble blossom |
| <b>W170</b> | Silver-washed Fritillary | <i>Argynnis paphia</i>     | 1  | Ross Gardner  | Ross Gardner   | 03/07/2010 | Hadleigh Great Wood |           |                         |
| <b>W171</b> | White Admiral            | <i>Limnitis camilla</i>    | 1  | John Wright   | John Wright    | 04/07/2010 | Pound Wood EWT      | TQ821 888 |                         |

## 4.3 HABITAT ACTION PLAN – URBAN

### Allotments

| Record # | Common name             | Scientific name            | Quantity | Name who witnessed species | Name who verified species | Date | Location                           | Grid ref | Comment                              |
|----------|-------------------------|----------------------------|----------|----------------------------|---------------------------|------|------------------------------------|----------|--------------------------------------|
| A2       | Marbled White Butterfly | <i>Melanargia galathea</i> | 1        |                            | Roger Payne               |      | Manchester Drive Allotments, Leigh |          | On rough grassland around an orchard |

### Churchyards and Cemeteries

No data recorded during 2010

### Gardens in Urban Areas

| Record # | Common name                     | Scientific name               | Quantity | Name who witnessed species | Name who verified species | Date       | Location                                  | Grid ref | Comment  |
|----------|---------------------------------|-------------------------------|----------|----------------------------|---------------------------|------------|---|----------|--|
| GUA3     | Wasp Spider                     | <i>Argiope bruennichi</i>     | 1        |                            | Roger Payne               | 17/10/2010 | Alton Gardens, Southend                   |          |  |
| GUA4     | Soldier Fly                     | <i>Odontomyia tigrina</i>     | 1        |                            | Roger Payne               | 30/04/2010 | Cliff Avenue, Westcliff                   |          |  |
| GUA5     | Hedgehog                        | <i>Erinaceus europaeus</i>    | 1        |                            | Roger Payne               | 30/04/2010 | Cliff Avenue, Westcliff                   |          |  |
| GUA6     | Jersey Cudweed                  | <i>Gnaphalium luteoalbum</i>  |          |                            | Roger Payne               | 2010       | Grounds of former college, Carnarvon Road |          |  |
| GUA7     | Australian Eucalyptus Gall Wasp | <i>Ophelimus maskelli</i>     |          |                            | Roger Payne               | 18/05/2010 | Inverness Avenue, Westcliff               |          | Its galls were found in abundance on the leaves of 2 Eucalyptus trees (Blue Gum) |
| GUA8     | Oil Beetle                      | <i>Meloe proscarabaeus</i>    | 1        |                            | Roger Payne               | 16/03/2010 | Museum Garden, Victoria Avenue            |          | Scarce in Essex, Male photographed   |
| GUA9     | Longhorn Beetle                 | <i>Grammoptera ruficornis</i> | 1        |                            | Roger Payne               | 24/06/2010 | Museum Garden, Victoria Avenue            |          |  |
| GUA10    | Hornet                          | <i>Vespa crabro</i>           | 1        |                            | Roger Payne               | 2010       | Vardon Road, Leigh                        |          |  |

## Public Parks and Amenity Open Spaces

| Record # | Common name              | Scientific name                         | Quantity | Name who witnessed species | Name who verified species | Date | Location       | Grid ref | Comment |
|----------|--------------------------|---|----------|----------------------------|---------------------------|------|----------------|----------|---------|
| PPOS 304 | Yellow Iris              | <i>Iris pseudacorus</i>                 | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 305 | Red Dead-nettle          | <i>Lamium purpureum</i>                 | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 306 | Cow Parsley              | <i>Anthriscus sylvestris</i>            | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 307 | Buck's-horn Plantain     | <i>Plantago coronopus</i>               | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 308 | Annual Meadow-grass      | <i>Poa annua</i>                        | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 309 | Smooth Meadow-grass      | <i>Poa pratensis</i>                    | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 310 | Black Poplar             | <i>Populus nigra subsp. betulifolia</i> | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 311 | Bulbous Buttercup        | <i>Ranunculus bulbosus</i>              | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 312 | Hedge Mustard            | <i>Sisymbrium officinale</i>            | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 313 | Alexanders               | <i>Smyrniolum olusatrum</i>             | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 314 | Common Chickweed         | <i>Stellaria media</i>                  | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 315 | Dandelion                | <i>Taraxacum agg.</i>                   | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 316 | Subterranean Clover      | <i>Trifolium subterraneum</i>           | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 317 | Wall Speedwell           | <i>Veronica arvensis</i>                | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 318 | Daisy                    | <i>Bellis perennis</i>                  | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 319 | Common Vetch             | <i>Vicia sativa</i>                     | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 320 | Shepherd's-purse         | <i>Capsella bursa-pastoris</i>          | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 321 | Sticky Mouse-ear         | <i>Cerastium glomeratum</i>             | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 322 | Oxeye Daisy              | <i>Leucanthemum vulgare</i>             | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 323 | Meadow Foxtail           | <i>Alopecurus pratensis</i>             | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |
| PPOS 324 | Dove's-foot Crane's-bill | <i>Geranium molle</i>                   | 1        | Barbara Williams           | Barbara Williams          | 2010 | Chalkwell Park |          |         |

|                 |                                      |                                  |   |                  |                  |      |              |  |  |
|-----------------|--------------------------------------|----------------------------------|---|------------------|------------------|------|--------------|--|--|
| <b>PPOS 325</b> | Cat's-ear                            | <i>Hypochaeris radicata</i>      | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 326</b> | Soft-rush                            | <i>Juncus effusus</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 327</b> | Hard Rush                            | <i>Juncus inflexus</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 328</b> | Prickly Lettuce                      | <i>Lactuca serriola</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 329</b> | White Dead-nettle                    | <i>Lamium album</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 330</b> | Red Dead-nettle                      | <i>Lamium purpureum</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 331</b> | Grass Vetchling                      | <i>Lathyrus nissolia</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 332</b> | Barren Brome                         | <i>Anisantha sterilis</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 333</b> | Purple Toadflax                      | <i>Linaria purpurea</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 334</b> | Perennial Rye-grass                  | <i>Lolium perenne</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 335</b> | Honeysuckle                          | <i>Lonicera periclymenum</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 336</b> | Common Bird's-foot-trefoil           | <i>Lotus corniculatus</i>        | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 337</b> | Sweet Vernal-grass                   | <i>Anthoxanthum odoratum</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 338</b> | Bur Chervil                          | <i>Anthriscus caucalis</i>       | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 339</b> | Common Mallow                        | <i>Malva sylvestris</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 340</b> | Scented Mayweed                      | <i>Matricaria recutita</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 341</b> | Scentless Mayweed                    | <i>Tripleurospermum inodorum</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 342</b> | Pineappleweed                        | <i>Matricaria discoidea</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 343</b> | Spotted Medick                       | <i>Medicago arabica</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 344</b> | Cow Parsley                          | <i>Anthriscus sylvestris</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 345</b> | Black Medick                         | <i>Medicago lupulina</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 346</b> | White Campion                        | <i>Silene latifolia</i>          | 3 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 347</b> | Red Campion                          | <i>Silene dioica</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 348</b> | Pink Campion (S. dioica x latifolia) | <i>Silene x hampeana</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 349</b> | Tall Melilot                         | <i>Melilotus altissimus</i>      | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |

|                 |                              |                                  |   |                  |                  |      |              |  |                   |
|-----------------|------------------------------|----------------------------------|---|------------------|------------------|------|--------------|--|-------------------|
| <b>PPOS 350</b> | Annual Mercury               | <i>Mercurialis annua</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 351</b> | Upright Chickweed            | <i>Moenchia erecta</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 352</b> | Corky-fruited Water-dropwort | <i>Oenanthe pimpinelloides</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 353</b> | Common Restharrow            | <i>Ononis repens</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 354</b> | Common Poppy                 | <i>Papaver rhoeas</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 355</b> | Opium Poppy                  | <i>Papaver somniferum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 356</b> | Green Alkanet                | <i>Pentaglottis sempervirens</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 357</b> | Bristly Oxtongue             | <i>Picris echinoides</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 358</b> | Ribwort Plantain             | <i>Plantago lanceolata</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 359</b> | Bulbous Meadow-grass         | <i>Poa bulbosa</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  | Nationally Scarce |
| <b>PPOS 360</b> | Smooth Meadow-grass          | <i>Poa pratensis</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 361</b> | Knotgrass                    | <i>Polygonum aviculare</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 362</b> | Silverweed                   | <i>Potentilla anserina</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 363</b> | Creeping Cinquefoil          | <i>Potentilla reptans</i>        | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 364</b> | Thyme-leaved Sandwort        | <i>Arenaria serpyllifolia</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 365</b> | Creeping Buttercup           | <i>Ranunculus repens</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 366</b> | Hairy Buttercup              | <i>Ranunculus sardous</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 367</b> | Celery-leaved Buttercup      | <i>Ranunculus sceleratus</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 368</b> | Bastard Cabbage              | <i>Rapistrum rugosum</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 369</b> | Weld                         | <i>Reseda luteola</i>            | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 370</b> | False Oat-Grass              | <i>Arrhenatherum elatius</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 371</b> | Dog-rose                     | <i>Rosa canina</i>               | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 372</b> | Bramble                      | <i>Rubus fruticosus</i> agg.     | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |
| <b>PPOS 373</b> | Sheep's Sorrel               | <i>Rumex acetosella</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |                   |



|                 |                     |                                   |   |                  |                  |      |              |  |  |
|-----------------|---------------------|-----------------------------------|---|------------------|------------------|------|--------------|--|--|
| <b>PPOS 374</b> | Curled Dock         | <i>Rumex crispus</i>              | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 375</b> | Greek Dock          | <i>Rumex cristatus</i>            | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 376</b> | Mugwort             | <i>Artemisia vulgaris</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 377</b> | Elder               | <i>Sambucus nigra</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 378</b> | Meadow Saxifrage    | <i>Saxifraga granulata</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 379</b> | Sea Club-rush       | <i>Bolboschoenus maritimus</i>    | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 380</b> | Biting Stonecrop    | <i>Sedum acre</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 381</b> | Hoary Ragwort       | <i>Senecio erucifolius</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 382</b> | Heath Groundsel     | <i>Senecio sylvaticus</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 383</b> | Groundsel           | <i>Senecio vulgaris</i>           | 3 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 384</b> | Milk Thistle        | <i>Silybum marianum</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 385</b> | Hedge Mustard       | <i>Sisymbrium officinale</i>      | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 386</b> | Alexanders          | <i>Smyrniolum olusatrum</i>       | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 387</b> | Bittersweet         | <i>Solanum dulcamara</i>          | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 388</b> | Prickly Sow-thistle | <i>Sonchus asper</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 389</b> | Smooth Sow-thistle  | <i>Sonchus oleraceus</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 390</b> | Lesser Stitchwort   | <i>Stellaria graminea</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 391</b> | Common Chickweed    | <i>Stellaria media</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 392</b> | Dandelion           | <i>Taraxacum agg.</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 393</b> | Field Penny-cress   | <i>Thlaspi arvense</i>            | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 394</b> | Hop Trefoil         | <i>Trifolium campestre</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 395</b> | Lesser Trefoil      | <i>Trifolium dubium</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 396</b> | Red Clover          | <i>Trifolium pratense</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 397</b> | White Clover        | <i>Trifolium repens</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 398</b> | Bird's-foot Clover  | <i>Trifolium ornithopodioides</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 399</b> | Gorse               | <i>Ulex europaeus</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 400</b> | Common Nettle       | <i>Urtica dioica</i>              | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |

|                 |                        |                                      |   |                  |                  |      |              |  |            |
|-----------------|------------------------|--------------------------------------|---|------------------|------------------|------|--------------|--|------------|
| <b>PPOS 401</b> | Common Field-speedwell | <i>Veronica persica</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 402</b> | Narrow-leaved Vetch    | <i>Vicia sativa subsp. nigra</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 403</b> | Hairy Tare             | <i>Vicia hirsuta</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 404</b> | Wild-oat               | <i>Avena fatua</i>                   | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 405</b> | Slender Tare           | <i>Vicia parviflora</i>              | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  | Vulnerable |
| <b>PPOS 406</b> | Black Horehound        | <i>Ballota nigra</i>                 | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 407</b> | Daisy                  | <i>Bellis perennis</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 408</b> | Sea Beet               | <i>Beta vulgaris subsp. maritima</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 409</b> | Common Vetch           | <i>Vicia sativa</i>                  | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 410</b> | Black Mustard          | <i>Brassica nigra</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 411</b> | Guernsey Fleabane      | <i>Conyza sumatrensis</i>            | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 412</b> | Soft-brome             | <i>Bromus hordeaceus</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 413</b> | White Bryony           | <i>Bryonia dioica</i>                | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 414</b> | Shepherd's-purse       | <i>Capsella bursa-pastoris</i>       | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 415</b> | Hoary Cress            | <i>Lepidium draba</i>                | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 416</b> | Wetted Thistle         | <i>Carduus crispus</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 417</b> | Musk Thistle           | <i>Carduus nutans</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 418</b> | Slender Thistle        | <i>Carduus tenuiflorus</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 419</b> | Sand Sedge             | <i>Carex arenaria</i>                | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 420</b> | Common Knapweed        | <i>Centaurea nigra</i>               | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 421</b> | Grey Sedge             | <i>Carex divulsa</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 422</b> | Sticky Mouse-ear       | <i>Cerastium glomeratum</i>          | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 423</b> | Fat-hen                | <i>Chenopodium album</i>             | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 424</b> | Oxeye Daisy            | <i>Leucanthemum vulgare</i>          | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |            |
| <b>PPOS 425</b> | Corn Marigold          | <i>Chrysanthemum</i>                 | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  | Vulnerable |

|                 |                             |                               |   |                  |                  |      |              |  |  |
|-----------------|-----------------------------|-------------------------------|---|------------------|------------------|------|--------------|--|--|
|                 |                             | <i>segetum</i>                |   |                  |                  |      |              |  |  |
| <b>PPOS 426</b> | Creeping Thistle            | <i>Cirsium arvense</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 427</b> | Spear Thistle               | <i>Cirsium vulgare</i>        | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 428</b> | Springbeauty                | <i>Claytonia perfoliata</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 429</b> | Field Bindweed              | <i>Convolvulus arvensis</i>   | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 430</b> | Swine-cress                 | <i>Coronopus squamatus</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 431</b> | Crested Dog's-tail          | <i>Cynosurus cristatus</i>    | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 432</b> | Cock's-foot                 | <i>Dactylis glomerata</i>     | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 433</b> | Annual Wall-rocket          | <i>Diplotaxis muralis</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 434</b> | Great Willowherb            | <i>Epilobium hirsutum</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 435</b> | Yarrow                      | <i>Achillea millefolium</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 436</b> | Long-headed Poppy           | <i>Papaver dubium</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 437</b> | Field Horsetail             | <i>Equisetum arvense</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 438</b> | Common Stork's-bill         | <i>Erodium cicutarium</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 439</b> | Sun Spurge                  | <i>Euphorbia helioscopia</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 440</b> | Fennel                      | <i>Foeniculum vulgare</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 441</b> | Black-grass                 | <i>Alopecurus myosuroides</i> | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 442</b> | Goat's-rue                  | <i>Galega officinalis</i>     | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 443</b> | Cleavers                    | <i>Galium aparine</i>         | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 444</b> | Lady's Bedstraw             | <i>Galium verum</i>           | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 445</b> | Small-flowered Crane's-bill | <i>Geranium pusillum</i>      | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 446</b> | Herb-Robert                 | <i>Geranium robertianum</i>   | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 447</b> | Yellow Horned-poppy         | <i>Glaucium flavum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 448</b> | Mouse-ear-hawkweed          | <i>Pilosella officinarum</i>  | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 449</b> | Yorkshire-fog               | <i>Holcus lanatus</i>         | 2 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |
| <b>PPOS 450</b> | Wall Barley                 | <i>Hordeum murinum</i>        | 1 | Barbara Williams | Barbara Williams | 2010 | Gunners Park |  |  |

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|-----------------|---------------------|----------------------------|--------|------------------|------------------|------------|-------------------------------------|-----------|--|
| <b>PPOS 451</b> | Meadow Barley       | <i>Hordeum secalinum</i>   | 1      | Barbara Williams | Barbara Williams | 2010       | Gunners Park                        |           |  |
| <b>PPOS 452</b> | Iris family         | <i>Iridaceae</i>           | 1      | Barbara Williams | Barbara Williams | 2010       | Gunners Park                        |           |  |
| <b>PPOS 453</b> | Holly Blue          | <i>Celastrina argiolus</i> | 2      | Alison Davis     | Alison Davis     | 03/06/2010 | Leigh-on-Sea                        | TQ8 48889 |  |
| <b>PPOS 454</b> | Marbled White       | <i>Melanargia galathea</i> | 10     | Bruce Foxall     | Bruce Foxall     | 28/06/2010 | Leigh-on-Sea                        | TQ8 29860 |  |
| <b>PPOS 455</b> | Red Admiral         | <i>Vanessa atalanta</i>    | 4      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 456</b> | Peacock             | <i>Inachis io</i>          | 6      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 457</b> | Painted Lady        | <i>Vanessa cardui</i>      | 2      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 458</b> | Comma               | <i>Polygonia c-album</i>   | 3      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 459</b> | Gatekeeper          | <i>Pyronia tithonus</i>    | Dozens | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 460</b> | Holly Blue          | <i>Celastrina argiolus</i> | 4      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 461</b> | Speckled wood       | <i>Pararge aegeria</i>     | 2      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 462</b> | Green-vained White  | <i>Pieris napi</i>         | Dozens | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 463</b> | Small White         | <i>Pieris rapae</i>        | 8      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 464</b> | Large White         | <i>Pieris brassicae</i>    | 6      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 465</b> | Meadow Brown        | <i>Maniola jurtina</i>     | 10     | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 466</b> | Harlequin Ladybird  | <i>Harmonia axyridis</i>   | Dozens | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           |  |
| <b>PPOS 467</b> | Silver Y Moth       | <i>Autographa gamma</i>    | Dozens | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           | Flying in bright sunshine. Nectaring from marsh plants in the wild garden. |
| <b>PPOS 468</b> | Hoverfly            | <i>Vocella inais</i>       | 2      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           | Feeding from Hemp Agrimony   |
| <b>PPOS 469</b> | Hoverfly            | <i>Vocella zenaria</i>     | 5      | Don Down         | Don Down         | 28/07/2010 | Priory Park                         |           | Feeding from flowers of Water Mint   |
| <b>PPOS 470</b> | Green Vnd. White    | <i>Pieris napi</i>         | 1      | Graham Bailey    | Graham Bailey    | 09/04/2010 | Prittlewell Brook, Westcliff-on-Sea | TQ8 65870 |  |
| <b>PPOS 471</b> | Small Tortoiseshell | <i>Aglais urticae</i>      | 1      | Graham Bailey    | Graham Bailey    | 09/04/2010 | Prittlewell Brook, Westcliff-on-Sea | TQ8 65870 |  |

|                     |            |                                |   |                  |                  |            |   |                  |  |
|---------------------|------------|--------------------------------|---|------------------|------------------|------------|---|------------------|--|
| <b>PPOS<br/>472</b> | Peacock    | <i>Inachis io</i>              | 2 | Graham<br>Bailey | Graham<br>Bailey | 09/04/2010 | Prittlewell<br>Brook,<br>Westcliff-<br>on-Sea | TQ8<br>6587<br>0 |  |
| <b>PPOS<br/>473</b> | Comma      | <i>Polygonia<br/>c-album</i>   | 2 | Graham<br>Bailey | Graham<br>Bailey | 09/04/2010 | Prittlewell<br>Brook,<br>Westcliff-<br>on-Sea | TQ8<br>6587<br>0 |  |
| <b>PPOS<br/>474</b> | Holly Blue | <i>Celastrina<br/>argiolus</i> | 1 | Alison<br>Davis  | Alison<br>Davis  | 04/06/2010 | Southend<br>-on-Sea                           | TQ8<br>4587<br>3 |  |

## Roadsides and Verges

No data recorded during 2010

## 4.4 SPECIES ACTION PLAN – BIRDS

### Dark-Bellied Brent Goose

| Record # | Common name              | Scientific name        | Quantity | Name who witnessed species | Name who verified species | Date       | Location        | Grid ref | Comment                          |
|----------|--------------------------|------------------------|----------|----------------------------|---------------------------|------------|-----------------|----------|----------------------------------|
| DBBG3    | Dark bellied brent goose | <i>Branta bernicla</i> | 1000     | M Bridges                  | M Bridges                 | 31/01/2010 | Two Tree Island | TQ826850 | Feeding on eel grass on mudflats |
| DBBG4    | Dark bellied brent goose | <i>Branta bernicla</i> | 3500+    | M Bridges                  | M Bridges                 | 07/11/2010 | Two Tree Island | TQ826850 |                                  |

### Garden Birds

No data recorded during 2010

### Skylark

| Record number | Common name | Scientific name        | Quantity | Name who witnessed the species | Name who verified the species | Date       | Location        | Grid ref | Comment |
|---------------|-------------|------------------------|----------|--------------------------------|-------------------------------|------------|-----------------|----------|---------|
| S3            | Skylark     | <i>Alauda Arvensis</i> | 8        | M Bridges                      | M Bridges                     | 27/03/2010 | Two Tree Island | TQ818848 |         |

## 4.4 SPECIES ACTION PLAN – INVERTEBRATES

### Heath Fritillary Butterfly

| Record # | Common name      | Scientific name         | Quantity | Name who witnessed species | Name who verified species | Date       | Location                                | Grid ref   | Comment               |
|----------|------------------|-------------------------|----------|----------------------------|---------------------------|------------|---|------------|-----------------------|
| HF21     | Heath Fritillary | <i>Mellicta athalia</i> | 1 larva  | Don Down                   | Don Down                  | 25/04/2010 | Belfairs Nature Reserve                 | TQ 818 876 |                       |
| HF22     | Heath Fritillary | <i>Mellicta athalia</i> | 100      | Steve Arlow                | Steve Arlow               | 27/06/2010 | Belfairs Nature Reserve                 | TQ819876   |                       |
| HF23     | Heath Fritillary | <i>Mellicta athalia</i> | 25+      | R G Payne                  | R G Payne                 | 27/06/2010 | Belfairs Nature Reserve and Dodds Grove | TQ8187     | in coppiced clearings |
| HF24     | Heath Fritillary | <i>Mellicta athalia</i> | 333      | Steve Arlow                | Steve Arlow               | 24/06/2010 | Belfairs NR: Dodds Grove                | TQ819876   |                       |
| HF25     | Heath Fritillary | <i>Mellicta athalia</i> | 30       | Donald Down                | Donald Down               | 11/06/2010 | Belfairs NR: Dodds Grove                | TQ817880   |                       |
| HF26     | Heath Fritillary | <i>Mellicta athalia</i> | 21       | Donald Down                | Donald Down               | 07/07/2010 | Belfairs NR: Dodds Grove                | TQ817880   |                       |
| HF27     | Heath Fritillary | <i>Mellicta athalia</i> | 0        | Don Down                   | Don Down                  | 17/04/2010 | Dodds Grove                             |            |                       |
| HF28     | Heath Fritillary | <i>Mellicta athalia</i> | 0        | Don Down                   | Don Down                  | 22/04/2010 | Dodds Grove                             |            |                       |
| HF29     | Heath Fritillary | <i>Mellicta athalia</i> | 4        | Steve Arlow                | Steve Arlow               | 03/06/2010 | Dodds Grove                             | TQ817880   |                       |
| HF30     | Heath Fritillary | <i>Mellicta athalia</i> | 2        | Steve Arlow                | Steve Arlow               | 03/06/2010 | Dodds Grove                             | TQ817876   |                       |
| HF31     | Heath Fritillary | <i>Mellicta athalia</i> | 98       | Steve Arlow                | Steve Arlow               | 19/06/2010 | Dodds Grove                             | TQ817880   |                       |
| HF32     | Heath Fritillary | <i>Mellicta athalia</i> | 333      | Steve Arlow                | Steve Arlow               | 24/06/2010 | Dodds Grove                             | TQ819876   |                       |
| HF33     | Heath Fritillary | <i>Mellicta athalia</i> | 1        | Mark Bunch                 | Mark Bunch                | 01/07/2010 | Hadleigh Country Park                   | TQ7896     |                       |
| HF34     | Heath Fritillary | <i>Mellicta athalia</i> | 1        | Mark Bunch                 | Mark Bunch                | 01/07/2010 | Hadleigh Great Wood                     | TQ820875   |                       |
| HF35     | Heath Fritillary | <i>Mellicta athalia</i> | 25       | Steve Arlow                | Steve Arlow               | 04/07/2010 | Hadleigh Great Wood                     | TQ820875   |                       |
| HF36     | Heath Fritillary | <i>Mellicta athalia</i> | 8        | Jan Edmunds                | Dave Jones                | 10/07/2010 | Hadleigh Great Wood                     | TQ820875   |                       |
| HF37     | Heath Fritillary | <i>Mellicta athalia</i> | 23       | Steve Arlow                | Steve Arlow               | 03/06/2010 | Little Haven                            | TQ811889   |                       |

|             |                     |                             |     |              |              |            |                        |          |  |
|-------------|---------------------|-----------------------------|-----|--------------|--------------|------------|------------------------|----------|--|
|             |                     |                             |     |              |              |            | EWT                    |          |  |
| <b>HF38</b> | Heath<br>Fritillary | <i>Mellicta<br/>athalia</i> | 66  | Steve Arlow  | Steve Arlow  | 19/06/2010 | Little<br>Haven<br>EWT | TQ811889 |  |
| <b>HF39</b> | Heath<br>Fritillary | <i>Mellicta<br/>athalia</i> | 12  | Nick Ballard | Nick Ballard | 05/06/2010 | Pound<br>Wood<br>EWT   | TQ821888 |  |
| <b>HF40</b> | Heath<br>Fritillary | <i>Mellicta<br/>athalia</i> | 156 | Steve Arlow  | Steve Arlow  | 19/06/2010 | Pound<br>Wood<br>EWT   | TQ821888 |  |
| <b>HF41</b> | Heath<br>Fritillary | <i>Mellicta<br/>athalia</i> | 2   | Steve Arlow  | Steve Arlow  | 19/06/2010 | Tile<br>Wood<br>EWT    | TQ815891 |  |

### **Shrill Cader Bee**

No data recorded during 2010

### **Stag Beetle**

No data recorded during 2010



## 4.6 SPECIES ACTION PLAN - MAMMALS

### Bats

| Record # | Common name          | Scientific name                  | Quantity | Name who witnessed species | Name who verified species | Date       | Location                | Grid ref | Comment                            |
|----------|----------------------|----------------------------------|----------|----------------------------|---------------------------|------------|-------------------------|----------|------------------------------------|
| B5       | Brown Long Eared Bat | <i>Plecotus auritus</i>          | 1        | R G Payne                  | R G Payne                 | 14/09/2010 | Prittlewell Priory      | TQ8787   | found dead                         |
| B6       | Pipistrelle bat      | <i>Pipistrellus Pipistrellus</i> | 2        | M Bridges                  | M Bridges                 | 19/04/2010 | Two Tree Island         | TQ830853 | Feeding at dusk                    |
| B7       | Pipistrelle          | <i>Pipistrellus Pipistrellus</i> | 2        | R G Payne                  | R G Payne                 | June 2010  | Westcliff, Cliff Avenue | TQ8786   | 2 hunting for insects over gardens |

### Cetaceans

No data recorded during 2010

### Dormouse

| Record # | Common name | Scientific name                 | Quantity | Name who witnessed species | Name who verified species | Date       | Location            | Grid ref | Comment                          |
|----------|-------------|---------------------------------|----------|----------------------------|---------------------------|------------|---------------------|----------|----------------------------------|
| D16      | Dormouse    | <i>Muscardinus avellanarius</i> | 1        | Sue Portsmouth             | Sue Portsmouth            | 17/04/2010 | Hadleigh Great Wood |          |                                  |
| D17      | Dormouse    | <i>Muscardinus avellanarius</i> | 5        | Karen Bigmore              | Sue Portsmouth            | 22/05/2010 | Hadleigh Great Wood |          |                                  |
| D18      | Dormouse    | <i>Muscardinus avellanarius</i> | 13       | Karen Bigmore              | Sue Portsmouth            | 19/06/2010 | Hadleigh Great Wood |          |                                  |
| D19      | Dormouse    | <i>Muscardinus avellanarius</i> | 35       | Karen Bigmore              | Sue Portsmouth            | 24/07/2010 | Hadleigh Great Wood |          |                                  |
| D20      | Dormouse    | <i>Muscardinus avellanarius</i> | 23       | Karen Bigmore              | Sue Portsmouth            | 21/08/2010 | Hadleigh Great Wood |          |                                  |
| D21      | Dormouse    | <i>Muscardinus avellanarius</i> | 21       | Karen Bigmore              | Sue Portsmouth            | 25/09/2010 | Hadleigh Great Wood |          | Old nest destroyed by woodmice   |
| D22      | Dormouse    | <i>Muscardinus avellanarius</i> | 21       | Karen Bigmore              | Sue Portsmouth            | 23/10/2010 | Hadleigh Great Wood |          | Nests with bird droppings on top |
| D23      | Dormouse    | <i>Muscardinus avellanarius</i> | 1        | Karen Bigmore              | Sue Portsmouth            | 20/11/2010 | Hadleigh Great Wood |          |                                  |

## Water Vole

| Record #   | Common name | Scientific name            | Quantity | Name who witnessed species | Name who verified species | Date       | Location        | Grid ref | Comment   |
|------------|-------------|----------------------------|----------|----------------------------|---------------------------|------------|-----------------|----------|---|
| <b>WV6</b> | Water Vole  | <i>Arvicola Terrestris</i> | 3        | M Bridges                  | M Bridges                 | 18/04/2010 | Two Tree Island | TQ827850 |   |
| <b>WV7</b> | Water Vole  | <i>Arvicola Terrestris</i> |          | Darren Tansley             |                           |            | Willingale Way  |          | Area cleared by EA, guidance now in place to allow some vegetation to remain. |

## **4.7 SPECIES ACTION PLAN - OTHER VERTEBRATES**

### **Great Crested Newts**

No data recorded during 2010

### **Reptiles**

| <b>Record #</b> | <b>Common name</b> | <b>Scientific name</b>  | <b>Quantity</b> | <b>Name who witnessed species</b> | <b>Name who verified species</b> | <b>Date</b> | <b>Location</b>             | <b>Grid ref</b> | <b>Comment</b>                  |
|-----------------|--------------------|-------------------------|-----------------|-----------------------------------|----------------------------------|-------------|-----------------------------|-----------------|---------------------------------|
| <b>R7</b>       | Slow Worm          | <i>Anguis Fragilis</i>  | 1               | R G Payne                         | R G Payne                        | 27/06/2010  | Dodd's Grove                | TQ8187          | a very large female             |
| <b>R8</b>       | Slow Worm          | <i>Anguis Fragilis</i>  | 5               | R G Payne                         | R G Payne                        | 05/09/2010  | Manchester Drive Allotments | TQ8487          | very common beneath old carpets |
| <b>R9</b>       | Adder              | <i>Vipera Berus</i>     | 2               | M Bridges                         | M Bridges                        | 12/08/2010  | Two Tree Island             | TQ820850        |                                 |
| <b>R10</b>      | Common Lizard      | <i>Lacerta Vivipara</i> | 10              | M Bridges                         | M Bridges                        | 12/08/2010  | Two Tree Island             | TQ820850        |                                 |
| <b>R11</b>      | Slow worm          | <i>Anguis Fragilis</i>  | 5               | M Bridges                         | M Bridges                        | 15/08/2010  | Two Tree Island             | TQ830853        |                                 |

## 4.8 SPECIES ACTION PLAN – PLANTS AND TREES

### Black Poplar

| Record # | Common name  | Scientific name      | Quantity | Name who witnessed species | Name who verified species | Date | Location              | Grid ref | Comment   |
|----------|--------------|----------------------|----------|----------------------------|---------------------------|------|-----------------------|----------|---|
| BP2      | Black poplar | <i>Populus nigra</i> | 2        | Chris DeBoick              | Chris DeBoick             |      | Southchurch Park East |          | 2 specimens planted to replace those that had died. |

### Deptford Pink

| Record # | Common name   | Scientific name         | Quantity | Name who witnessed species | Name who verified species | Date      | Location             | Grid ref | Comment                   |
|----------|---------------|-------------------------|----------|----------------------------|---------------------------|-----------|----------------------|----------|---------------------------|
| DP1      | Deptford Pink | <i>Dianthus armeria</i> | 3+       | R G Payne                  | R G Payne                 | June 2010 | Sutton Road Cemetery | TQ8887   | Grassy bank close to path |

## SECTION 5. Summary of 2010 Biodiversity Action Plan 'Actions'

| <b>AQUATIC</b>  | <b>2009</b> | <b>2010</b> |
|---|-------------|-------------|
| BRACKISH LAGOONS 8.1 PROTECTION OF THIS HABITAT               | 2           | 2           |
| BRACKISH LAGOONS 8.2 RAISE AWARENESS                          | 1           | 4           |
| <b>INTERTIDAL MUDFLATS 8.1 PROTECT &amp; MAINTAIN HABITAT</b> | 1           | 0           |
| <b>INTERTIDAL MUDFLATS 8.2 MONITOR THIS HABITAT</b>           | 1           | 0           |
| <b>INTERTIDAL MUDFLATS 8.3 RAISE AWARENESS</b>                | 3           | 3           |
| PONDS & LAKES 8.1 PROTECT AND EXTEND HABITAT                  | 0           | 0           |
| PONDS & LAKES 8.2 IMPROVE THIS HABITAT                        | 0           | 2           |
| PONDS & LAKES 8.3 INCREASE THIS HABITAT                       | 0           | 0           |
| PONDS & LAKES 8.4 MONITOR THIS HABITAT                        | 0           | 0           |
| PONDS & LAKES 8.5 RAISE AWARENESS                             | 0           | 0           |
| <b>REEDBED &amp; MARSH 8.1 PROTECT &amp; MAINTAIN HABITAT</b> | 1           | 1           |
| <b>REEDBED &amp; MARSH 8.2 INCREASE HABITAT EXTENT</b>        | 1           | 1           |
| <b>REEDBED &amp; MARSH 8.3 RAISE AWARENESS</b>                | 0           | 0           |
| RIVERS STREAMS & DITECHES 8.1 PROTECTION OF THIS HABITAT      | 1           | 1           |
| RIVERS STREAMS & DITECHES 8.2 INCREASE THIS HABITAT           | 0           | 0           |
| RIVERS STREAMS & DITCHES 8.3 MONTIOR THIS HABITAT             | 0           | 0           |
| RIVERS STREAMS & DITCHES 8.4 RAISE AWARENESS                  | 0           | 0           |
| <b>SALTMARSH 8.1 PROTECTION OF THIS HABITAT</b>               | 2           | 1           |
| <b>SALTMARSH 8.2 MONITOR THIS HABITAT</b>                     | 2           | 1           |
| <b>SALTMARSH 8.3 INCREASE HABITAT EXTENT</b>                  | 1           | 1           |
| <b>SALTMARSH 8.4 RAISE AWARENESS</b>                          | 4           | 0           |
| SEAGRASS BEDS 8.1 PROTECTION OF THIS HABITAT                  | 0           | 0           |
| SEAGRASS BEDS 8.2 MONITOR THIS HABITAT                        | 1           | 0           |
| SEAGRASS BEDS 8.3 RAISE AWARENESS                             | 0           | 0           |
| <b>Total</b>  | <b>21</b>   | <b>17</b>   |
| <b>TERRESTRIAL</b>  | <b>2009</b> | <b>2010</b> |
| ANCIENT & VETERAN TREES 8.1 SURVEY CURRENT STOCK              | 0           | 0           |
| ANCIENT & VETERAN TREES 8.2 PROTECT THIS HABITAT              | 0           | 0           |
| ANCIENT & VETERAN TREES 8.3 RAISE AWARENESS                   | 0           | 0           |
| ARABLE LAND & FIELD MARGINS 8.1 PROTECT THIS HABITAT          | 0           | 0           |
| ARABLE LAND & FIELD MARGINS 8.2 RAISE AWARENESS               | 0           | 0           |
| <b>HEDGEROWS 8.1 PROTECT THIS SPECIES FROM LOSS</b>           | 0           | 2           |
| <b>HEDGEROWS 8.2 ID ANCIENT OR SPECIES RICH</b>               | 0           | 0           |
| <b>HEDGEROWS 8.3 INCREASE THIS HABITAT</b>                    | 0           | 1           |
| <b>HEDGEROWS 8.4 RAISE AWARENESS</b>                          | 0           | 1           |
| NATURAL GRASSLAND 8.1 MAINTAIN CURRENT LEVEL                  | 2           | 1           |
| NATURAL GRASSLAND 8.2 IDENTIFICATION SITES                    | 2           | 2           |
| NATURAL GRSSLAND 8.3 PREVENT DEGRADATION                      | 0           | 0           |
| NATURAL GRASSLAND 8.4 ENCORUAGE NEW AREAS                     | 1           | 1           |
| NATURAL GRASSLAND 8.5 RAISE AWARENESS                         | 2           | 0           |
| <b>TRADITIONAL ORCHARD 8.1 PROTECT THIS HABITAT</b>           | 1           | 0           |
| <b>TRADITIONAL ORCHARD 8.2 INCREASE EXTENT OF HABITAT</b>     | 2           | 0           |
| <b>TRADITIONAL ORCHARD 8.3 RAISE AWARENESS</b>                | 1           | 5           |
| WOODLAND 8.1 MAINTAIN & PROTECT THIS HABITAT                  | 3           | 1           |
| WOODLAND 8.2 INCREASE THIS HABITAT                            | 0           | 0           |
| WOODLAND 8.3 MONITOR ITS STATUS                               | 4           | 0           |
| WOODLAND 8.4 RAISE AWARESS                                    | 1           | 3           |
| <b>Total</b>  | <b>19</b>   | <b>17</b>   |

| <b>URBAN</b>   | <b>2009</b> | <b>2010</b> |
|--|-------------|-------------|
| ALLOTMENTS 8.1 PROTECT THIS HABITAT                          | 0           | 0           |
| ALLOTMENTS 8.2 ENHANCE WILDLIFE VALUE OF SITE                | 0           | 1           |
| ALLOTMENTS 8.3 INCREASE THE NUMBER OF ALLOTMENT HOLDERS      | 0           | 1           |
| ALLOTMENTS 8.4 RAISE AWARENESS                               | 1           | 1           |
| CHURCHYARDS & CEMETERIES 8.1 PROTECT THIS SPECIES            | 1           | 1           |
| CHURCHYARDS & CEMETERIES 8.2 INCREASE WILDLIFE VALUE OF SITE | 0           | 0           |
| CHURCHYARDS & CEMETERIES 8.3 RAISE AWARENESS                 | 0           | 0           |
| GARDENS IN URBAN AREAS 8.1 INCREASE WILDLIFE VALUE           | 0           | 2           |
| GARDENS IN URBAN AREAS 8.2 RAISE AWARENESS                   | 1           | 0           |
| PARKS & OPEN SPACES 8.1 INCREASE WILDLIFE VALUE OF SITE      | 2           | 1           |
| PARKS & OPEN SPACES 8.2 PROTECT KEY ON SITE SPECIES          | 7           | 4           |
| PARKS & OPEN SPACES 8.3 RAISE AWARENESS                      | 5           | 9           |
| ROADSIDE & VERGES 8.1 ID NOTABLE SPECIES                     | 0           | 0           |
| ROADSIDE & VERGES 8.2 INCREASE WILDLIFE VALUE OF SITE        | 2           | 1           |
| ROADSIDE & VERGES 8.3 RAISE AWARENESS                        | 0           | 0           |
| <b>Total</b>   | <b>19</b>   | <b>21</b>   |

| <b>BIRDS</b>   | <b>2009</b> | <b>2010</b> |
|--|-------------|-------------|
| DARK BELLIED BRENT GOOSE 8.1 PROTECTION OF THIS SPECIES        | 0           | 0           |
| DARK BELLIED BRENT GOOSE 8.2 RAISE AWARENESS                   | 0           | 0           |
| GARDEN BIRDS 8.1 MAINTAIN & INCREASE POPULATIONS               | 1           | 0           |
| GARDENS BIRDS 8.2 RECORDING THIS SPECIES                       | 0           | 0           |
| GARDENS BIRDS 8.3 RAISE AWARENESS                              | 0           | 0           |
| SKYLARK 8.1 PROTECT THIS SPECIES                               | 0           | 0           |
| SKYLARK 8.2 MONITOR BREEDING SITES                             | 0           | 0           |
| SKYLARK 8.3 INCREASE SPECIES NUMBERS                           | 0           | 0           |
| SKYLARK 8.4 RAISE AWARENESS                                    | 0           | 0           |
| <b>Total</b>   | <b>1</b>    | <b>0</b>    |
| <b>INVERTEBRATES</b>   | <b>2009</b> | <b>2010</b> |
| HEATH FRITILLARY BUTTERFLY 8.1 MAINTAIN BELFAIRS POPULATION    | 1           | 11          |
| HEATH FRITILLARY BUTTERFLY 8.2 MONITOR POPULATIONS IN BELFAIRS | 0           | 8           |
| HEATH FRITILLARY BUTTERFLY 8.3 INCREASE THE POPULATION         | 0           | 0           |
| HEATH FRITILLARY BUTTERFLY 8.4 RAISE AWARENESS                 | 0           | 4           |
| SHRILL CARDER BEE 8.1 MAINTAIN CURRENT RANGE OF SPECIES        | 0           | 0           |
| SHRILL CARDER BEE 8.2 MONITOR POPULATIONS                      | 0           | 0           |
| SHRILL CARDER BEE 8.3 RAISE AWARENESS                          | 1           | 0           |
| STAG BEETLE 8.1 MAINTAIN CURRENT POPULATIONS                   | 0           | 0           |
| STAG BEETLE 8.2 SURVEY & MONTITOR THIS SPECIES                 | 0           | 0           |
| STAGE BEETLE 8.3 INCREASE POULATION STATUS                     | 0           | 0           |
| STAGE BEETLE 8.4 RAISE AWARENESS                               | 0           | 0           |
| <b>Total</b>   | <b>2</b>    | <b>23</b>   |

| <b>MAMMALS</b>  | <b>2009</b> | <b>2010</b> |
|---|-------------|-------------|
| <b>BATS 8.1 IDENTIFY CURRENT POPULATION DISTRIBUTION</b>                  | 0           | 0           |
| <b>BATS 8.2 MAINTAIN CURRENT POPULATION</b>                               | 1           | 0           |
| <b>BATS 8.3 ENCOURAGE INCREASE IN BAT SPECIES</b>                         | 0           | 0           |
| <b>BATS 8.4 RAISE AWARENESS</b>   | 0           | 0           |
| CETACEANS 8.1 MAINTAIN CURRENT POPULATION                                 | 0           | 0           |
| CETACEANS 8.2 RECORD THESE SPECIES  | 0           | 0           |
| CETACEANS RAISE AWARENESS   | 0           | 0           |
| <b>DORMOUSE 8.1 IDENTIFY CURRENT DISTRUBTION</b>                          | 1           | 1           |
| <b>DORMOUSE 8.2 HALT FURTHER DECLINE OF THIS SPECIES</b>                  | 0           | 0           |
| <b>DORMOUSE 8.3 ENCOURAGE THE INCREASE OF SPECIES BY HABITAT CREATION</b> | 0           | 0           |
| <b>DORMOUSE 8.4 RAISE AWARENESS</b>                                       | 0           | 0           |
| WATERVOLE 8.1 IDENTIFY & PROTECT THIS SPECIES                             | 1           | 0           |
| WATERVOLE 8.2 INCREASE SPECIES POPULATION RANGE                           | 2           | 0           |
| WATERVOLE 8.3 MONITOR POPULATION STATUS                                   | 0           | 0           |
| WATERVOLE 8.4 RAISE AWARENESS   | 0           | 0           |
| <b>Total</b>  | <b>5</b>    | <b>1</b>    |
| <b>OTHER VERTEBRATES</b>  | <b>2009</b> | <b>2010</b> |
| <b>GREAT CRESTED NEWT 8.1 IDENTIFY CURRENT POPULATION DISTRIBUTION</b>    | 0           | 0           |
| <b>GREAT CRESTED NEWT 8.2 MONITOR THE POPULATION</b>                      | 0           | 0           |
| <b>GREAT CRESTED NEWT 8.3 HALT FURTHER DECLINES IN POPULATION</b>         | 0           | 0           |
| <b>GREAT CRESTED NEWT 8.4 ENCOURAGE INCREASED POPULATION DISTRIBUTION</b> | 0           | 0           |
| REPTILE 8.1 MAINTAIN CURRENT EXTENT OF POPULATION                         | 0           | 0           |
| REPTILE 8.2 MONITOR POPULATION  | 0           | 0           |
| REPTILE 8.3 ENCOURAGE INCRREASED POPULATION                               | 0           | 0           |
| REPTILE 8.4 RAISE AWARENESS   | 0           | 0           |
| <b>Total</b>  | <b>0</b>    | <b>0</b>    |
| <b>PLANTS AND TREES</b>   | <b>2009</b> | <b>2010</b> |
| <b>BLACK POPLAR 8.1 PROTECTING OF EXISTING SPECIES</b>                    | 0           | 0           |
| <b>BLACK POPLAR 8.2 INCREASE THE NUMBER OF THIS SPECIES</b>               | 0           | 0           |
| <b>BLACK POPLAR 8.3 RAISE AWARENESS</b>                                   | 0           | 0           |
| DEPTFORD PINK 8.1 MAINTAIN EXISTING POPULATION                            | 0           | 0           |
| DEPTFORD PINK 8.2 ENCOURAGE INCREASE OF POPULATION                        | 0           | 1           |
| DEPTFORD PINK 8.3 RAISE AWARENESS   | 0           | 0           |
| <b>Total</b>  | <b>0</b>    | <b>1</b>    |

End.

February 2011