

# USKMOUTH POWER STATION

## Breeding Bird Survey

**CONFIDENTIAL**



Uskmouth Power Station  
Breeding Bird Survey  
A  
24 December 2019

## REPORT

### Document status

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# 1 INTRODUCTION

## 1.1 Overview

- 1.1.1 RPS were commissioned by SIMEC Energy Atlantic Ltd to undertake a breeding bird survey of Uskmouth Power Station at Uskmouth near Newport with the operational site centred on the Ordnance Survey grid reference SN141072.
- 1.1.2 This report includes the nest locations of bird species listed under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) and should therefore be treated as confidential.

## 1.2 Site Description

- 1.2.1 The Uskmouth Power Station Site is approximately 3ha in extent and centred on Ordnance Survey Grid Ref SN141072. The site comprises two main power station compounds, the operational gas fired power station (Power Station A), and the currently non-operational coal fired power station (Power Station B), both of which comprise large buildings, with various ancillary structures, cooling towers, and areas of bare ground, plant, and hardstanding. An electricity sub-station lies to the west of the gas fired power station.
- 1.2.2 South of the power station buildings is a Coal Storage Area and a reservoir known as Lamby's Lake. In the south-western part of the site two large raised landforms made from ash spoil have been restored and now support dense scrub, bramble, neutral grassland and tall herb vegetation.
- 1.2.3 A mothballed railway line running east-west through the power station site supports a sparsely vegetated ground cover and this is bounded by scrub and woodland.
- 1.2.4 Two drains on the northern and southern sides of the railway line and are largely covered by dense scrub and bramble thicket. A ditch is present on the eastern and southern boundaries of the power station site. This boundary ditch connects with Julian's Reen off-site to the north.
- 1.2.5 The power station site adjoins the River Usk estuary shoreline with the Newport Uskmouth Sailing Club based on the edge of the estuary. Reed and saltmarsh habitats occur in the intertidal areas between the river and the power station with a narrow belt of scrub / woodland adjoining the site boundary fence. To the north of the site there is a tidal creek of the River Usk, known as Julian's Pill. The River Usk including the tidal creek is designated as a Site of Special Scientific Interest (SSSI) and Special Area of Conservation (SAC). Julian's Reen flows through a wide culvert beneath the railway line and site access track into Julian's Pill.
- 1.2.6 The tidal section of the River Usk adjoining the site becomes the Severn Estuary on the western side of the power station site. The Severn Estuary is designated as a SSSI, Special Protection Area (SPA) SAC and Ramsar site and directly adjoins the boundary of power station to the south and west.
- 1.2.7 To the south, the power station site adjoins the Newport Wetlands SSSI and National Nature Reserve (NNR). The southern boundary ditch, bounded by dense continuous scrub, divides the power station site from the SSSI to the south and from the adjacent sewage treatment works to the east. Extensive scrub and grassland are located on the boundary of the SSSI adjoining the power station.

## 1.3 Legislation

- 1.3.1 A summary of legislation relevant to the ornithological features identified during this baseline survey is presented below for reference.

## Wildlife and Countryside Act 1981 (as amended)

- 1.3.2 All wild birds in the UK are protected under the Wildlife and Countryside Act 1981 (as amended) (WCA). Schedule 1 bird species are those listed on Schedule 1 (Part 1) of the WCA, under which there are special penalties for contravention of the provisions of the Act, including for disturbance to breeding birds. Birds listed under Schedule 1 (Part 1) are protected by special penalties at all times of the year.
- 1.3.3 It is an offence under the act to intentionally or recklessly:
- Kill, injure or take a wild bird;
  - Take, damage, destroy or interfere with a nest of any wild bird whilst it is in use or being built;
  - Obstruct or prevent any wild bird from using its nest;
  - Take or destroy an egg of any wild bird;
  - Disturb any wild bird listed on Schedule 1 whilst it is building a nest or is in, on, or near, a nest containing eggs or young; and
  - Disturb the dependent young of any wild bird listed on Schedule 1
- 1.3.4 For Schedule 1 bird species, a licence is required from the appropriate statutory nature conservation agency to carry out activities that may disturb birds while they are building a nest or are in, on, or near, a nest containing eggs or young; or disturbance of the dependent young.

## European Commission (EC) Birds Directive

- 1.3.5 Bird species listed on Annex I of the EC Directive of the Conservation of Wild Birds (Birds Directive) are “the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution”.
- 1.3.6 In addition, Annex I species are protected from:
- deliberate killing or capture by any method;
  - deliberate destruction of, or damage to, their nests and eggs or removal of their nests; and
  - deliberate disturbance, particularly during the period of breeding and rearing, in so far as disturbance would be significant, having regard to the objectives of the Directive.

## 2 METHODS

### 2.1 Desk Study

2.1.1 Information on the following nature conservation designation sites ~ (where they support ornithological features of interest) was sought from the Multi-Agency Geographic Information for the Countryside<sup>1</sup> and the Joint Nature Conservation Committee website<sup>2</sup>.

- Special Protection Areas (SPAs) within 10 km of the proposed site boundary;
- Sites of Special Scientific Interest (SSSIs) within 5 km of the proposed site boundary;
- National Nature Reserves (including RSPB and Wildlife Trust Reserves) within 5km of the site boundary

### 2.2 Field Survey

2.2.1 A breeding bird survey of habitats within the site was carried out following an adapted Common Birds Census (CBC) technique as outlined in Gilbert et al., 1998. The survey visits were conducted during mild weather conditions, moderate wind (<5mph) and no heavy rain.

2.2.2 Survey visits were undertaken across the breeding bird season of 2019. The surveys were undertaken by experienced bird surveyors; Mike Shewring, Kate Davies and Darryl Spittle. Surveys commenced within an hour of sunrise and were completed within four hours during suitable weather conditions.

2.2.3 Individual survey visits were undertaken on the following dates:

- 6th March 2019
- 5th April 2019
- 21st May 2019
- 3rd June 2019
- 20th June 2019

2.2.4 Although territory mapping was not carried out breeding behaviour was recorded and reviewed against the European Ornithological Atlas Committee (EOAC) criteria for categorising breeding status:

#### EOAC Breeding Status Categorisation

##### Possible Breeding

- Singing male(s) present (or breeding calls heard) in breeding season

##### Probable Breeding

- Pair observed in suitable nesting habitat in breeding season

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<sup>1</sup> <http://www.magic.gov.uk/>

<sup>2</sup> <http://www.jncc.gov.uk/>

- Permanent territory presumed through recordings on at least two different survey dates at the same place
- Courtship and display
- Visiting a probable nest site
- Agitated behaviour or anxiety calls from adults
- Nest building or excavating nest-hole

### **Confirmed Breeding**

- Distraction-display or injury feigning
- Used nest or eggshells found (occupied or laid within period of survey)
- Recently fledged young or downy young
- Adults entering or leaving nest-site in circumstances indicating occupied nest (including high nest or nest holes, the contents of which cannot be seen) or adult seen incubating
- Adult carrying faecal sac or food for young
- Nest containing eggs
- Nest with young seen or heard

## **2.3 Limitations**

- 2.3.1 Surveys were carried out in suitable weather conditions. No notable limitations are considered to affect this survey.

## 3 RESULTS

### 3.1 Desk Study

#### International Statutory Designations

3.1.1 Both the Severn Estuary SPA and the Severn Estuary Ramsar border the site to the south west.

#### Severn Estuary SPA

3.1.2 The Severn Estuary SPA adjoins the site to the south and west. The SPA covers 24700.91 ha and comprises extensive intertidal mud-flats and sand-flats, rocky platforms and islands. Saltmarsh fringes are backed by grazing marsh with freshwater ditches and occasional brackish ditches. The SPA is designated for the following bird species and assemblages (population percentages are a 5 year peak mean for 1991/2 to 1995/6):

- Habitats Directive Annex 1 species over winter: Bewick's Swan *Cygnus columbianus bewickii*, at least 4.0% of the wintering population in Great Britain.
- Migratory bird species on passage: ringed plover *Charadrius hiaticula*, at least 1.3% of the Europe/Northern Africa - wintering population.
- Migratory species over winter: Curlew *Numenius arquata*, 3,903 individuals representing at least 1.1% of the wintering Europe - breeding population; dunlin *Calidris alpina alpina*, at least 3.2% of the wintering Northern Siberia/Europe/Western Africa population; pintail *Anas acuta*, at least 1.0% of the wintering Northwestern Europe population; redshank *Tringa totanus*, at least 1.6% of the wintering Eastern Atlantic; and shelduck *Tadorna tadorna*, at least 1.1% of the wintering Northwestern Europe population.
- Assemblage (Wetland of International Importance): gadwall *Anas strepera*, shelduck, pintail, dunlin, curlew, redshank, Bewick's Swan, wigeon *Anas penelope*, lapwing *Vanellus vanellus*, teal *Anas crecca*, mallard *Anas platyrhynchos*, shoveler *Anas clypeata*, pochard *Aythya ferina*, tufted duck *Aythya fuligula*, grey plover *Pluvialis squatarola*, white-fronted goose *Anser albifrons albifrons* and whimbrel *Numenius phaeopus*.

#### Severn Estuary Ramsar

3.1.3 The Severn Estuary Ramsar designation is partially based on the following ornithological criteria:

- The site supports an assemblage of waterfowl of international importance including 6 species with internationally important populations: Bewick's swan, gadwall, dunlin, shelduck, redshank and white-fronted goose.

#### Other Statutory Designations

#### Newport Wetlands SSSI and National Nature Reserve (NNR)

3.1.4 Newport Wetlands SSSI and NNR borders the site along the southern boundary with a reed (hereafter referred to as the boundary reed) acting as the boundary between the sites.

3.1.5 Newport Wetlands SSSI and NNR covers an area of 374.2 ha and is designated for its breeding and over-wintering birds, invertebrates and aquatic and marginal flora. In winter, Newport Wetlands support nationally (UK) important numbers of shoveler *Anas clypeata* and black-tailed godwit *Limosa limosa*. During the summer, the wet grasslands, saline lagoons and reedbeds on the site support an exceptional variety of breeding birds, including nationally (UK) important breeding populations of avocet *Recurvirostra avosetta*, redshank, lapwing, water rail *Rallus aquaticus*, Cetti's warbler *Cettia cetti* and bearded tit *Panurus biarmicus*. The aquatic invertebrate assemblage is very diverse and includes many nationally rare and scarce species including the great silver water beetle *Hydrophilus piceus*, the water beetle *Hydaticus transversalis* and the ornate brigadier soldierfly *Odontomyia*

*ornate*, the spider *Tetragnatha striata* and shrill carder bee *Bombus sylvarum* is found throughout the site. Variations in ditch type and water regime management enables the watercourses to support a rich diversity of plant species including curly pondweed *Potamogeton crispus*, rigid hornwort *Ceratophyllum demersum* and stoneworts *Chara spp.* The reedbeds at Newport Wetlands are the largest within the south-east Wales area.

### 3.2 Field Survey

- 3.2.1 A total of 52 species were recorded within the site during the 2019 breeding bird survey (Table 3.1 and Figures 1 to 7). Of these 10 were confirmed to be breeding, 23 probable breeding and 9 possibly breeding within the site, as assessed against the EOAC breeding status categorisation behaviours. Of those species recorded, seven are listed as red on the Birds of Conservation Concern list in Wales, four of which were identified as probable breeding within the site. A further 13 species recorded are listed as amber in Wales, four of which were identified as possible and probable breeding and three confirmed breeding.
- 3.2.2 Two species listed under schedule 1 of the WCA3 were also recorded using the site. Peregrine was confirmed to be breeding in the vicinity of the main power station tower with four young successfully fledged. Cetti's warbler was also recorded regularly on each survey with an estimated five probable territories and four possible.

### 3.3 Incidental Records

- 3.3.1 A suite of ecology surveys were undertaken during the 2019 breeding season, during which incidental records of ornithological features relevant to this report were made. This included bittern, which were heard booming during a great crested newt survey. These records were thought to be from birds utilising the neighbouring wetlands.
- 3.3.2 In addition, a marsh harrier was also reported to be breeding within the wetlands reserve (following communication with wetland staff). The breeding location was thought to be in the western end of the wetlands.
- 3.3.3 Personal communication with the site team also indicated that gulls may utilise the roof of the power station and associated buildings to nest, however these nests were not visible to record from the ground.

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<sup>3</sup> Wildlife and Countryside Act 1981 as amended

**Table 3.1 Species recorded per survey visit, summary of distribution within site and conservation status.**

Species	Number recorded per visit					Summary	Breeding status	Legislation/ Conservation Status
	1	2	3	4	5			
Mute Swan <i>Cygnus olor</i>			1	1	1	Mute swan were occasionally recorded within the site loafing around or foraging on Lamby's Lake	Possible	Green
Canada Goose <i>Branta canadensis</i>			2		6	Canada goose were recorded occasionally within the Coal Storage Area and around pond 3. Often loafing or foraging	Possible	Green
Shelduck				2	8	Shelduck were record on the last two surveys loafing within the Coal Storage Area	Possible	Amber
Mallard	4			12	4	Mallard were recorded using both Julian's Pill and Lamby's Lake with ducklings recorded on the lake in May	<b>Confirmed</b>	Amber
Tufted Duck			3		2	Tufted duck were often recorded foraging and loafing on Lamby's Lake	Possible	Green
Cormorant <i>Phalacrocorax carbo</i>				1		Cormorant was observed flying over the site		Amber
Buzzard <i>Buteo buteo</i>		1		1		Buzzard was observed flying over the site on two occasions		Green
Moorhen <i>Gallinula chloropus</i>	2	2	1	1	1	Moorhen was recorded using Lamby's Lake and the boundary ditch which it was likely to utilise for breeding	<b>Probable</b>	Green
Oystercatcher <i>Haematopus ostralegus</i>				1	2	Oystercatcher were recorded with an active nest within the Coal Storage Area	<b>Confirmed</b>	Amber
Snipe <i>Gallinago gallinago</i>	10	1				Snipe were recorded on the edge of open ground in the Coal Storage Area and Laydown Area during the first survey.		Amber
Black-headed Gull <i>Chroicocephalus ridibundus</i>				1		Black-headed gull was recorded on one occasion with birds seen relatively regularly within the River Usk estuary		Red
Lesser Black-backed Gull <i>Larus fuscus</i>				2	9	Lesser black-backed gull was recorded occasionally during surveys with birds seen fairly regularly within the site during other protected species surveys	Possible	Amber
Herring Gull <i>Larus argentatus</i>					4	Herring gull was recorded within the site on the last survey with birds seen fairly regularly within the site during other protected species surveys	Possible	Red
Stock Dove <i>Columba oenas</i>					3	Stock dove was recorded during the last survey to the west of the Coal Storage Area		Green

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Woodpigeon <i>Columba palumbus</i>	9	7	3	8	12	Woodpigeon were regularly recorded throughout the site	<b>Probable</b>	Green
Collared Dove <i>Streptopelia decaocto</i>					2	A pair were observed in the vicinity of the sailing club during the last survey	Possible	Green
Green Woodpecker <i>Picus viridis</i>	2	2				Green woodpecker were observed during the initial two visits during which a pair were observed. Observations focused around the woodland block and railway in the north east of the site	<b>Probable</b>	Amber
Great Spotted Woodpecker <i>Dendrocopos major</i>	1			2	2	Great spotted woodpecker were recorded within the north-eastern area of the site on a number of occasions	<b>Probable</b>	Green
Merlin <i>Falco columbarius</i>		1				A single female merlin was observed during the second survey visit utilising the cooling towers to rest before flying south within the site		Sch 1; Red
Peregrine <i>Falco peregrinus</i>		1	1	2	6	Peregrine were recorded nesting on the tower within the site and are thought to have fledged four chicks	<b>Confirmed</b>	Sch 1; Green
Magpie <i>Pica pica</i>	6	11	2	4	12	Magpie was frequently recorded within the site including carrying food	<b>Confirmed</b>	Green
Jay <i>Garrulus glandarius</i>			1	1	1	Jay was recorded on three occasions in the east of the site	<b>Probable</b>	Green
Rook <i>Corvus frugilegus</i>				1		Rook was recorded on a single survey in the west of the site		Green
Carrion Crow <i>Corvus corone</i>	6	3	3	3	11	Carrion crow were frequently observed in the site including carrying food and nesting material on occasions	<b>Confirmed</b>	Green
Goldcrest <i>Regulus regulus</i>	3	1			3	Goldcrest records were associated predominately with the east of the site around the Lay Down Area and woodland and scrub bordering the railway	<b>Probable</b>	Amber
Blue Tit <i>Cyanistes caeruleus</i>	8	7	8	1	11	Blue tit were frequently recorded with a nest confirmed within a dormouse nest tube in scrub alongside the boundary ditch	<b>Confirmed</b>	Green
Great Tit <i>Parus major</i>	3		4		6	Great tit were also recorded fairly regularly, also frequently utilising the area around the boundary ree	<b>Probable</b>	Green
Swallow <i>Hirundo rustica</i>			2	7	4	Swallow were recorded nesting within the power station	<b>Confirmed</b>	Green
House Martin <i>Delichon urbicum</i>			1		1	House martin were also recorded nesting on the power station wall	<b>Confirmed</b>	Green
Cetti's Warbler	3	6	4	5	5	Cettis warbler were recorded regularly within the site with an estimated five probable territories and four possible	<b>Probable</b>	Sch 1; Green
Long-tailed Tit <i>Aegithalos caudatus</i>	1		5	1	6	Long tailed tit were regularly recorded within the site with a recently fledged family observed during the season	<b>Confirmed</b>	Amber
Chiffchaff <i>Phylloscopus collybita</i>	2	16	10	6	21	Chiffchaff we regularly recorded within the site. Likely to have multiple territories present	<b>Probable</b>	Green

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Blackcap <i>Sylvia atricapilla</i>		7	8	9	Blackcap were primarily associated with the woodland in the north east of the site as well as occasionally around the scrub and woodland adjacent Ponds 1 and 2	<b>Probable</b>	Green	
Garden Warbler <i>Sylvia borin</i>	1				One record for garden warbler was made during the initial survey. No further records were made	Possible	Green	
Lesser Whitethroat <i>Sylvia curruca</i>		1	2	4	Lesser whitethroat were recorded in the same location in the western part of the site on multiple visits	<b>Probable</b>	Green	
Whitethroat <i>Sylvia communis</i>		13	11	7	Whitethroat were recorded throughout much of the suitable habitat within the site during the later surveys with multiple territories likely to be present	<b>Probable</b>	Red	
Reed Warbler <i>Acrocephalus scirpaceus</i>		3	3	2	Reed warbler were recorded at Lamby's Lake and at Ponds 1 & 2 and are though likely to hold territories in these areas	<b>Probable</b>	Green	
Nuthatch <i>Sitta europaea</i>				1	Nuthatch were recorded on one occasion in the vicinity of the railway in the north of the site	Possible	Green	
Wren <i>Troglodytes troglodytes</i>	14	7	9	16	22	Wren was recorded frequently throughout all visits with multiple territories likely	<b>Probable</b>	Green
Starling <i>Sturnus vulgaris</i>	4		8	1	6	Starling were recorded relatively regularly across the majority of the site	<b>Probable</b>	Red
Blackbird <i>Turdus merula</i>	9	5	14	9	29	Blackbird were recorded regularly throughout the site including being observed carrying food	<b>Confirmed</b>	Green
Song Thrush <i>Turdus philomelos</i>		4			4	Song thrush were recorded intermittently during surveys with possible breeding within the site	Possible	Amber
Mistle Thrush <i>Turdus viscivorus</i>	1				2	Mistle thrush were also recorded intermittently during the surveys with possible breeding within the site	Possible	Amber
Robin <i>Erithacus rubecula</i>	4	1	2	2	6	Robin were recorded relatively regularly during surveys across the majority of the site	<b>Probable</b>	Green
Dunnock <i>Prunella modularis</i>	2	1	3	5	9	Dunnock were recorded regularly during surveys with the majority of activity in the north east and southern edge of the site	<b>Probable</b>	Green
Pied Wagtail <i>Motacilla alba</i>	5	2	2	6	3	Pied wagtail were often recorded foraging within the Laydown Area and to the north west of Lamby's Lake	<b>Probable</b>	Green
Chaffinch <i>Fringilla coelebs</i>	9	4		1	4	Chaffinch were predominately associated with the areas of woodland and scrub along the boundary reen in the south as well as the woodland within the north east of the site	<b>Probable</b>	Green
Bullfinch <i>Pyrrhula pyrrhula</i>	1			1	18	The majority of bullfinch records were made on the last survey where a group of 7 flew over the site to the east of Pond 2 as well as 5 further records of flying birds.	<b>Probable</b>	Red
Greenfinch <i>Chloris chloris</i>	2	1	2		1	The majority of greenfinch records were made along the northern boundary with the sailing club, with birds often heard calling here during the initial surveys	<b>Probable</b>	Amber

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Linnet <i>Linaria cannabina</i>	4		16	9	The majority of linnet records were made in the later two surveys with individual records made across the majority of the site as well as a small flock in the vicinity of the cooling towers	<b>Probable</b>	Red	
Lesser Redpoll <i>Acanthis cabaret</i>	1	1			Individual lesser redpolls were observed during the initial survey visits. Birds were observed in the far west of the site as well as in the vicinity of the sailing club entrance	Possible	Amber	
Goldfinch <i>Carduelis carduelis</i>	24	19	7	6	13	Goldfinch were frequently recorded during all surveys, with the majority of activity in the south and east of the site. Both individual birds as well as small flocks were observed. Flocks were regularly observed foraging	<b>Probable</b>	Green

## 4 DISCUSSION AND CONCLUSION

- 4.1.1 The site supports a good assemblage of breeding bird species were recorded in the power station survey area with 33 species either confirmed as breeding or classified as probably breeding based on the sightings of adults and associated behaviour. A further nine species were classified as possibly breeding, where adults were observed in suitable nesting habitats, at least once over the five survey visits. A total of seven species recorded during the survey were listed as red (high) and 12 species were listed as amber (moderate) on the Birds of Conservation Concern list for Wales. The overall assemblage of breeding birds is considered to be fairly typical of the of the habitats and locality.
- 4.1.2 The majority of the breeding bird species were associated with woodland, dense scrub and bramble including a number of ubiquitous species that occur commonly in urban areas and gardens. Several of the species associated with scrub are less widespread species and/or are species that have suffered a significant population decline but remain relatively widespread. Cetti's warbler, protected under Schedule 1 of the WCA, was estimated to have five probable and four possible territories within the site during 2019. These territories were primarily along the southern boundary ditch with the dense scrub on the far bank located within the Newport Wetlands.
- 4.1.3 A few species were associated with built structures, with a pair of house martins and five pairs of swallows were confirmed to be nesting in former coal fired power station buildings. Peregrine was confirmed to be nesting on the main power station tower with four chicks recorded during the last survey visit. Peregrine is protected under Schedule 1 of the WCA and listed Annex I of the Birds Directive. Pied wagtail may also be nest in a built structure. Oystercatcher nested on the Coal Storage Area in 2019.
- 4.1.4 A few wetland species were associated with Lamby's Lake or the adjacent section of boundary ditch; reed warbler, moorhen, mallard and tufted duck. The latter two species were observed as family groups with very young ducklings, confirming nesting within, or in close proximity to the site. Canada goose and mute swan families were also seen on the lake but will have bred in the surrounding area with no nests within the survey area.
- 4.1.5 Based on the behaviour exhibited a total of four of the red listed species were classified as probably breeding within the site (whitethroat, starling, bullfinch and linnet) and one red list species was classified as possibly breeding (herring gull). Of those species listed as amber, three were confirmed as breeding species (oystercatcher, mallard and long-tailed tit); three were probably breeding (green woodpecker, goldcrest and greenfinch) and five were classified as possibly breeding (shelduck, lesser black-backed gull, song thrush, mistle thrush and lesser redpoll).
- 4.1.6 Of the species recorded shelduck, snipe, lesser black-backed gull, song thrush, mistle thrush and lesser redpoll are all features of the Severn Estuary Ramsar site. Shelduck are also listed as an overwintering feature of the SPA and the individuals seen during the breeding season may also be part of the overwintering population in the locality.
- 4.1.7 In addition to those recorded during the surveys incidental records were also made of bittern, which are listed under Schedule 1 of the WCA which was heard booming in May from the adjacent Newport Wetlands.
- 4.1.8 In order to protect bird species during the breeding season suitable pre-works breeding bird surveys will be required by suitably qualified ecologists. Active nests will require protection through suitable no works buffers around the nest location until the natural nesting conclusion has been reached. The size of these buffers will depend on the species in question and the stage of the nesting attempt and will be designated by a suitably qualified ecologist. Depending on the proximity of works to the adjacent wetlands it may also be necessary to liaise with RSPB staff regarding any nests located in proximity to the site that may be at risk of disturbance in response to works.
- 4.1.9 In addition to protection during the construction phase it will also be necessary to compensate for any breeding habitat lost due to the development. The nature of this compensation will be dependent on the nature of the habitat lost and the bird species that utilise such habitats.

## FIGURES

- **Figure 1.** (ECO00312-ECO-012) Breeding Bird Survey Results  
- All Schedule 1 Species
- **Figure 2.** (ECO00312-ECO-013) Visit 1 Breeding Bird Survey
- **Figure 3.** (ECO00312-ECO-014) Visit 2 Breeding Bird Survey
- **Figure 4.** (ECO00312-ECO-015) Visit 3 Breeding Bird Survey
- **Figure 5.** (ECO00312-ECO-016) Visit 4 Breeding Bird Survey
- **Figure 6.** (ECO00312-ECO-017) Visit 5 Breeding Bird Survey
- **Figure 7.** (ECO00312-ECO-018) Additional Sightings

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**Legend**

□ Approximate Site Boundary

**Date**

- 06/03/2019
- 05/04/2019
- 21/05/2019
- 03/06/2019
- 20/06/2019
- 21/05/2019, 03/06/2019 & 20/06/2019

**Behaviour**

- Singing - No additional symbol used
- \* Nest Present
- ✕ Calling
- ➔ Flying

Species	BTO Code
Cetti's Warbler	CW
Peregrine	PE

0 50 100m

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Rev	Description	By	CB	Date
Drawing Number				Rev
<b>ECO00312-ECO-012</b>				-

Client	SIMEC Atlantis Ltd.
Project	Uskmouth Power Station
Title	Figure 1. Breeding Bird Survey - All Schedule 1 Species

Status	Drawn By	PM/Checked By
DRAFT	LW	TO
Project Number	Scale @ A3	Date Created
ECO 00312	1:4,500	OCT 2019

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**Legend**

- Approximate Site Boundary
- Behaviour Observed**
- Alarm Calling
- Calling
- Pair (male and female)
- Singing
- Seen - Sitting, foraging or flushed

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code
Blackbird	B.
Bullfinch	BF
Blue Tit	BT
Carrion Crow	C.
Chiffchaff	CC
Chaffinch	CH
Dunnock	D.
Green Woodpecker	G.
Goldcrest	GC
Goldfinch	GO
Greenfinch	GR
Great Spotted Woodpecker	GS
Great Tit	GT
Garden Warbler	GW
Lesser Redpoll	LR
Long-Tailed Tit	LT
Mistle Thrush	M.
Mallard	MA
Magpie	MG
Moorhen	MH
Pied Wagtail	PW
Robin	R.
Rook	RO
Starling	SG
Snipe	SN
Wood Pigeon	WP
Wren	WR

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Rev	Description	By	CB	Date
Drawing Number				
<b>ECO00312-ECO-013</b>				
Rev				-

Client	SIMEC Atlantis Ltd.
Project	Uskmouth Power Station
Title	Figure 2. Breeding Bird Survey - Visit 1 (06/03/2019)

Status	Drawn By	PM/Checked By
DRAFT	LW	KD
Project Number	Scale @ A3	Date Created
ECO 00312	1:4,500	OCT 2019

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**Legend**

□ Approximate Site Boundary

**Behaviour Observed**

- Alarm Calling
- Calling
- Flying
- Pair (male and female)
- Singing
- Seen - Sitting, foraging or flushed

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code
Blackbird	B.
Blue Tit	BT
Buzzard	BZ
Carriion Crow	C.
Chiffchaff	CC
Chaffinch	CH
Dunnock	D.
Green Woodpecker	G.
Goldcrest	GC
Goldfinch	GO
Greenfinch	GR
House Martin	HM
Lesser Redpoll	LR
Magpie	MG
Moorhen	MH
Pied Wagtail	PW
Robin	R.
Snipe	SN
Song Thrush	ST
Wood Pigeon	WP
Wren	WR

Rev	Description	By	CB	Date
Drawing Number				
<b>ECO00312-ECO-014</b>				
Rev				-

Client	SIMEC Atlantis Ltd.
Project	Uskmouth Power Station
Title	Figure 3. Breeding Bird Survey - Visit 2 (05/04/2019)

Status	Drawn By	PM/Checked By
DRAFT	LW	KD
Project Number	Scale @ A3	Date Created
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- Legend**
- Approximate Site Boundary
  - Calling
  - Flying
  - Flying with food
  - Nesting
  - Pair (male and female)
  - Singing
  - Seen - Sitting, foraging or flushed

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code
Blackbird	B.
Blackcap	BC
Blue Tit	BT
Carrion Crow	C.
Chiffchaff	CC
Canada Goose	CG
Dunnock	D.
Goldfinch	GO
Greenfinch	GR
Great Tit	GT
Jay	J.
Linnet	LI
Long-Tailed Tit	LT
Lesser Whitethroat	LW
Magpie	MG
Moorhen	MH
Mute Swan	MS
Oystercatcher	OC
Pied Wagtail	PW
Robin	R.
Reed Warbler	RW
Starling	SG
Swallow	SL
Tufted Duck	TU
Whitethroat	WH
Wood Pigeon	WP
Wren	WR

Rev	Description	By	CB	Date
Drawing Number <b>ECO00312-ECO-015</b>				
Rev				-

Client	SIMEC Atlantis Ltd.
Project	Uskmouth Power Station
Title	Figure 4. Breeding Bird Survey - Visit 3 (21/05/2019)

Status	Drawn By	PM/Checked By
DRAFT	LW	KD
Project Number	Scale @ A3	Date Created
ECO 00312	1:4,500	OCT 2019

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- Legend**
- Approximate Site Boundary
  - Alarm Calling
  - Flying
  - Flying with food
  - Nesting
  - Singing
  - Seen - Sitting, foraging or flushed

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code
Blackbird	B.
Blackcap	BC
Bullfinch	BF
Blue Tit	BT
Buzzard	BZ
Carrion Crow	C.
Cormorant	CA
Chiffchaff	CC
Chaffinch	CH
Dunnock	D.
Goldfinch	GO
Great Spotted Woodpecker	GS
Jay	J.
Lesser Black-backed Gull	LB
Linnet	LI
Long-Tailed Tit	LT
Lesser Whitethroat	LW
Mallard	MA
Magpie	MG
Moorhen	MH
Mute Swan	MS
Pied Wagtail	PW
Robin	R.
Reed Warbler	RW
Starling	SG
Swallow	SL
Shelduck	SU
Whitethroat	WH
Wood Pigeon	WP
Wren	WR



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Rev	Description	By	CB	Date

Drawing Number  
**ECO00312-ECO-016**

Rev  
 -

Client **SIMEC Atlantis Ltd.**

Project **Uskmouth Power Station**

Title **Figure 5. Breeding Bird Survey - Visit 4 (03/06/2019)**

Status **DRAFT**

Project Number **ECO 00312**

Scale @ A3 **1:4,500**

Drawn By **LW**

Scale @ A3 **1:4,500**

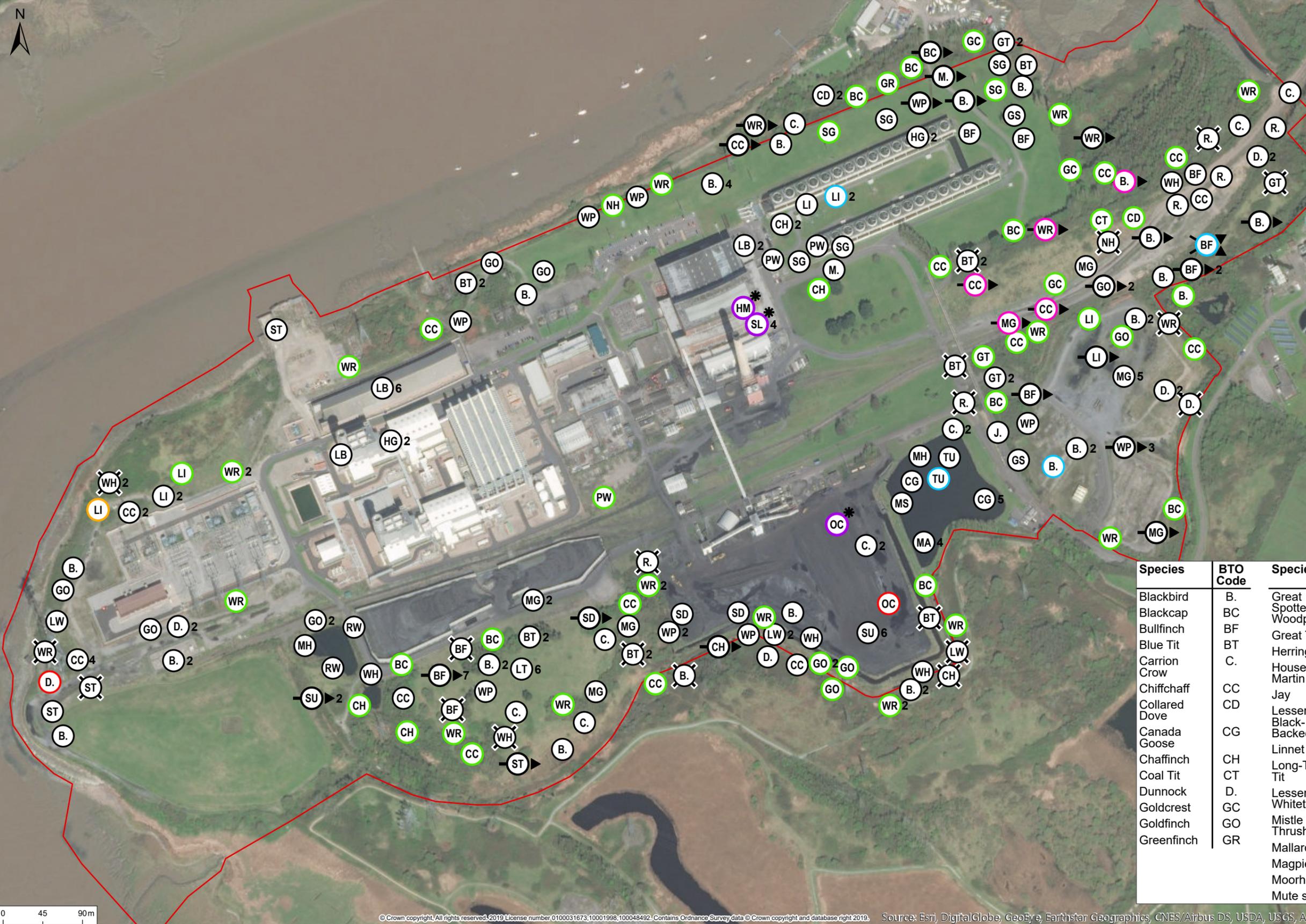
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### Legend

- Approximate Site Boundary
- Behaviour Observed**
- Alarm Calling
- Calling
- Family (male, female with juveniles)
- Flying
- Flying and Singing
- Nesting
- Pair (male and female)
- Pair Flying
- Singing
- Seen - sitting, foraging or flushed

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code	Species	BTO Code	Species	BTO Code
Blackbird	B.	Great Spotted Woodpecker	GS	Nuthatch	NH
Blackcap	BC	Great Tit	GT	Oystercatche	OC
Bullfinch	BF	Herring Gull	HG	Pied Wagtail	PW
Blue Tit	BT	House Martin	HM	Robin	R.
Carrion Crow	C.	Linnet	LI	Reed Warbler	RW
Chiffchaff	CC	Long-Tailed Tit	LT	Stock dove	SD
Collared Dove	CD	Lesser Whitethroat	LW	Starling	SG
Canada Goose	CG	Mistle Thrush	M.	Swallow	SL
Chaffinch	CH	Mallard	MA	Song Thrush	ST
Coal Tit	CT	Magpie	MG	Shelduck	SU
Dunnock	D.	Moorhen	MH	Tufted Duck	TU
Goldcrest	GC	Mute swan	MS	Whitethroat	WH
Goldfinch	GO			Wood Pigeon	WP
Greenfinch	GR			Wren	WR



Rev	Description	By	CB	Date

Drawing Number: **ECO00312-ECO-017**

Rev: -

Client: SIMEC Atlantis Ltd.

Project: Uskmouth Power Station

Title: Figure 6. Breeding Bird Survey - Visit 5 (20/06/2019)

Status: DRAFT

Drawn By: LW

PM/Checked By: --

Project Number: ECO 00312

Scale @ A3: 1:4,300

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**Legend**

- Approximate Site Boundary
- Family (male, female and young)
- ➔ Flying
- Foraging
- Mother with Young
- \* Nesting
- Seen - Flushed
- Singing

Additional bird sightings during other survey (May - August).

If count was higher than one individual, the number is recorded on the right.

Species	BTO Code
Blackcap	BC
Canada Goose	CG
Greenfinch	GR
Grey Heron	H.
Mallard	MA
Moorhen	MH
Merlin	ML
Mute Swan	MS
Oystercatcher	OC
Tufted Duck	TU



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Rev	Description	By	CB	Date
Drawing Number				Rev
<b>ECO00312-ECO-018</b>				-

Client	SIMEC Atlantis Ltd.
Project	Uskmouth Power Station
Title	Figure 7. Breeding Bird Survey - Additional Sightings

Status	Drawn By	PM/Checked By
DRAFT	LW	--
Project Number	Scale @ A3	Date Created
ECO 00312	1:3,900	OCT 2019

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