

Hampshire Water Transfer and Water Recycling Project

Environmental Statement – Appendix 8.1 Designated sites

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The Southern Water logo consists of three stylized, wavy blue lines of varying lengths, positioned to the right of the text 'Southern Water'.

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1 Introduction

1.1 Overview

- 1.1.1 This technical report has been prepared in relation to the Hampshire Water Transfer and Water Recycling Project (hereafter referred to as the ‘Proposed Development’). A detailed description of the Proposed Development can be found in Environmental Statement (ES) Chapter 3 Description of the Proposed Development, Volume I (Document reference 6.1, DCO Volume 6) and have informed the scope of this study. The Application Glossary (Document reference 1.7, DCO Volume 1) sets out the abbreviations and definitions used in the DCO application for the Proposed Development.
- 1.1.2 The Proposed Development comprises the construction, operation and maintenance of the following components:
1. Water Recycling Plant (WRP) site and associated pumping stations.
 2. Pipelines between Budds Farm Wastewater Treatment Works (WTW) and the WRP site.
 3. Pipelines between the WRP site and Bedhampton Springs, connecting to pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir.
 4. Pipeline between the WRP site and Otterbourne Water Supply Works (WSW).
 5. Above Ground Plant (AGP) comprising Intermediate Pumping Stations (IPS) and Break Pressure Tanks (BPT) located along the Pipeline between the WRP and Otterbourne WSW.
- 1.1.3 The Proposed Development would also comprise the use of the following infrastructure:
1. Havant Thicket Reservoir (which have been consented separately by Portsmouth Water) for the storage of recycled water.
 2. The existing Eastney Long Sea Outfall (LSO), Eastney Pumping Station, and associated Eastney Transfer Tunnel (TT) for the release of reject water from the WRP.
 3. Pipelines and other related works (which have been consented separately by Portsmouth Water) for the transfer of recycled water and source water between Bedhampton Springs and Havant Thicket Reservoir.
- 1.1.4 The construction and operation of the Proposed Development would be supported by other temporary and permanent works and will require the demolition, disassembly and/or temporary relocation of a number of small structures.
- 1.1.5 This report details baseline data for designated sites collected in February 2025 and is one of nine technical reports produced to inform the ecological assessment presented within ES Chapter 8 Terrestrial and freshwater biodiversity, Volume I (Document reference 6.1, DCO Volume 6). The survey scoping and methodology used for establishing the ecological baseline for designated sites are provided in section 2.

1.2 Objectives

- 1.2.1 Chapter 8 Terrestrial and freshwater biodiversity of the Environmental Impact Assessment (EIA) Scoping Report (refer to ES Appendix 5.1 EIA Scoping Report, Volume II (Document reference 6.2, DCO Volume 6), identified likely effects on designated sites with additional study being recommended.
- 1.2.2 To inform the assessment of likely effects on designated sites the following objectives were set:
1. Identify internationally designated sites within 5km of the Order Limits and within 200m of the Affected Road Network (ARN).
 2. Identify Special Area of Conservation (SAC) within 10km of the Order Limits where bats are listed as a qualifying feature.
 3. Identify statutory designated sites within 2km of the Order Limits and 200m of the ARN.
 4. Identify non-statutory designated sites within 2km of the Order Limits and 200m of the ARN.

1.3 Legislation and policy

- 1.3.1 There are several legislative and policy instruments and guidance within England that relate to sites designated for their biodiversity value with the aim of preventing or reducing the negative environmental impacts on these sites. This legislation, policy and guidance provide the framework for the identification, appraisal and evaluation of sites of biodiversity value. These various types of sites are described below.

Ramsar

- 1.3.2 Ramsar Sites are wetlands of international importance designated under the Convention on Wetlands ('the Convention') [1]. Sites proposed for selection are advised by the relevant statutory nature conservation body (or bodies) within the United Kingdom (UK) or the relevant administration within each Crown Dependency or UK Overseas Territory. UK-wide coordination and guidance is provided through The Joint Nature Conservation Committee (JNCC). In selecting sites, the relevant authorities are guided by the Ramsar Sites Criteria set out by the Convention. Details of new Ramsar Sites are submitted to the Ramsar Secretariat on Ramsar Information Sheets via the Ramsar Sites Information Service.
- 1.3.3 In the UK, the first Ramsar Sites were designated in 1976. Since then, many more have been designated. Compared to many countries, the UK has a relatively large number of Ramsar Sites, but they tend to be smaller in size. The initial emphasis was on selecting sites of importance to waterbirds within the UK and consequently many Ramsar Sites are also Special Protection Areas (SPA) classified under the Birds Directive [2]. Both within the UK and overseas, non-bird related features have increasingly been taken into account, both in the selection of new sites and when reviewing the legal protection of existing sites.

National Site Network

- 1.3.4 The National Site Network is a network of sites within the UK territory protected for their nature conservation value in the European Union. The sites are comprised of SPAs and SACs designated under The Habitats Directive [3] and The Birds Directive [2].

Special Protection Areas

- 1.3.5 Special Protection Areas are protected areas for birds in England, classified under the Conservation of Habitats and Species Regulations 2017 (as amended) [4] (hereafter the Habitats Regulations). SPAs are classified for their assemblage of rare and vulnerable birds and for regularly occurring migratory species.

Solent Wader and Brent Goose Strategy sites

- 1.3.6 Solent Wader and Brent Goose Strategy (SWBGS) sites aim to protect the network of non-designated terrestrial wader and brent goose sites that support the Solent SPA from land take and recreational pressure associated with new development. The terrestrial wader and brent goose sites are located on land that falls outside of the Solent SPA boundaries. However, these identified areas of land are frequently used by SPA species (including qualifying features and assemblage species) and support the functionality and integrity of the designated sites; as such they are considered to be Functionally Linked Land (FLL).

Special Areas of Conservation

- 1.3.7 Special Areas of Conservation are protected areas in England designated under the Habitats Regulations [4]. These regulations require establishment of a network of important high-quality conservation sites that will make a significant contribution to conserving the habitats and species identified in Annexes I and II, respectively, of European Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora, known as the Habitats Directive [3].

Sites of Special Scientific Interest

- 1.3.8 Sites of Special Scientific Interest (SSSIs) cover any land which is of special interest by reason of any of its flora, fauna, geological or physiological features; only flora and fauna are being assessed within this report. The SSSI are classified under the Wildlife and Countryside Act 1981 (as amended) [5] and the Countryside and Rights of Way Act 2000 [6]. It is an offence to carry out or permit to be carried out any potentially damaging operation within the designated site. Natural England (NE) is a statutory consultee on development proposals that might impact on SSSIs and upon consultation, will make a rapid initial assessment of the potential risks to SSSIs posed by development proposals.

National Nature Reserves

- 1.3.9 National Nature Reserves (NNRs) are owned and managed by statutory authorities and are deemed to be among the best examples of a particular habitat, with strict protection against potentially damaging operations. NNRs are designated and protected under the National Parks and Access to the Countryside

Act 1949 [7] and the Wildlife and Countryside Act 1981 (as amended) [5]. They receive additional protection under the Countryside and Rights of Way Act 2000 [6].

Local Nature Reserves

- 1.3.10 Local Nature Reserves (LNRs) are places with ecological or geological features of special local interest; within this report they are only being assessed due to their ecological features. LNRs are classified under the National Parks and Access to the Countryside Act 1949, Section 21 [4]. Whilst these sites are designated under national legislation, the designation is undertaken at a local level by local planning authorities.

Sites of Importance for Nature Conservation

- 1.3.11 Sites of Importance for Nature Conservation (SINCs) are non-statutory local wildlife sites which contribute to the ecological network in Hampshire. They represent a legacy of good management and rely on continued stewardship from landowners.
- 1.3.12 Recognition as a SINC does not confer protection on the site, or right of access. However, for any significant change of land use, the local planning authority will expect the wildlife interest to be taken into account alongside other normal planning considerations. Local conservation organisations may comment on planning applications that could affect a SINC. Local Wildlife Trusts, local planning authorities and other local wildlife, environmental or conservation groups collaborate to select and designate sites.

Road Verges of Ecological Importance

- 1.3.13 Road Verges of Ecological Importance (RVEI) are non-statutory local wildlife sites in Hampshire. They support either notable and/or a species rich semi-natural environment.

2 Methodology

2.1 Background

- 2.1.1 This section describes the methodology used to establish the scope of assessment and ecological baseline for designated sites. It has been designed to identify the designated sites within the study area.
- 2.1.2 The purpose of the desk study is to facilitate the application of the mitigation hierarchy in the design and assessment process to avoid, where possible, likely effects to designated sites and ensure that identified sites with the potential to be affected by the Proposed Development would remain unaffected.

2.2 Desk study guidance

- 2.2.1 The following guidance has been considered when identifying the sites to be included:
1. The Chartered Institute of Ecology and Environmental Management (CIEEM) (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater and Coastal [8]
 2. European Commission (2018) Managing Natura 2000 sites. The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC [9]
 3. Natural England (2023) Natural England's Impact Risk Zones for Sites of Special Scientific Interest v4.1 [10]
 4. Hampshire Biodiversity Information Centre (HBIC): SINC Biosite Reports. Reports requested 2024
 5. Natural England (2025) Designated Sites View, conservation objectives, citation and supplementary advice [11]
 6. Joint Nature Conservation Committee (2025) SAC standard data forms [12]
 7. Bat Conservation Trust (2023) Good Practice Guidelines: Bat Surveys for Professional Ecologists [13]

2.3 Zone of Influence

- 2.3.1 The geographical scope of the assessment has been informed by:
1. The Order Limits which include temporary land take for temporary construction compounds, as shown on ES Figure 1.1 Location of the Proposed Development and Order Limits, Volume III (Document reference 6.3, DCO Volume 6), access routes and lay down sites.
 2. The likely effects of the Proposed Development on ecological features within the 'Zone of Influence' (Zol).
- 2.3.2 The Zol is the area over which ecological features may receive impacts from a development. It covers the Order Limits and the wider landscape where pathways (ecological or hydrological links) exist for the transfer of impacts away from the works area. The Zol for each ecological feature varies in size depending on the nature of the effects and the sensitivity of the ecological features to those effects.

- 2.3.3 Each Zol has been determined by:
1. Consideration of the activities during construction and operation associated with the Proposed Development.
 2. The scale, duration and timing of the works.
 3. Ecological data, including aerial photography and Ordnance Survey (OS) mapping and baseline data collected from field survey.
 4. Site specific conservation objectives, site improvement plans, citation and supplementary advice available from NE.
- 2.3.4 Based on the scale and duration of the Proposed Development it is considered that construction activities within the Order Limits would typically produce temporary and localised impacts. Different desk study areas have been applied for each category of ecological feature, as appropriate, to enable effective assessment of likely effects on each ecological receptor.
- 2.3.5 The Proposed Development includes the use of Havant Thicket Reservoir for the storage of recycled water, the use of the Eastney LSO, Eastney PS, and associated Eastney TT for the release of reject water from the WRP site. The Proposed Development also uses pipelines that have been consented and will be constructed separately by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir. These components are considered as part of the future baseline and are, therefore, considered to be existing infrastructure. As such, the terrestrial and freshwater biodiversity assessment only considers the operational change of use and designated sites which are within the desks study area of these components will not be considered within the baseline.
- 2.3.6 The Zol, desk study area and field survey area for designated sites are detailed within Table 2-1. These are based of CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland [8].
- 2.3.7 The desk study area for air quality impacts is 200m from the ARN. This is based on NE Guidance where protected sites falling within 200m of the edge of a road receiving additional traffic need to be considered for air quality changes [14].

Table 2-1 Topic Zone of Influence and desk study area

Ecological receptor	Zone of Influence	Desk study area
Internationally designated sites (SPA, SAC and Ramsar)	2km or hydrologically connected	5km from the Order Limits (excluding existing infrastructure) Downstream sites and groundwater dependent sites which are hydrologically connected to the Proposed Development 2km from the ARN
Internationally designated sites (SAC) where bats are a qualifying feature	2km or hydrologically connected	10km from the Order Limits (excluding existing infrastructure).
Land functionally linked to an internationally designated site (SWBGS sites)	650m or hydrologically connected	2km from the Order Limits (excluding existing infrastructure).
Nationally designated sites (SSSI, NNR and LNR)	2km or hydrologically connected	2km from the Order Limits (excluding existing infrastructure).

Ecological receptor	Zone of Influence	Desk study area
		Downstream sites and groundwater dependent sites which are hydrologically connected to the Proposed Development 2km from the ARN
Non-statutory designated sites (SINC, RVEI)	250m or hydrologically connected	2km from the Order Limits (excluding existing infrastructure). Downstream sites which are hydrologically connected to the Proposed Development 2km from the ARN

2.4 Desk study

- 2.4.1 A desk study was undertaken to identify statutory and non-statutory designated sites of nature conservation interest within the Proposed Development plus an extended search area as detailed in Table 2-1.
- 2.4.2 Existing records of designations were accessed from the HBIC, NE and JNCC in January 2025. These data sources have been accessed to inform the baseline with respect to designated sites and are detailed in Table 2-2.

Table 2-2 Sources of Data

Sources of data	Baseline data
HBIC	SWBGS sites Ecological Network Mapping Non-statutory designated sites
NE	Statutory designated sites SSSI Impact Risk Zones Conservation objectives Site improvement plans Citation text
JNCC	Standard data forms

- 2.4.3 Associated with SSSIs are Impact Risk Zones (IRZ). These are defined areas around a given SSSI that reflect the particular sensitivity of the features for which the site is designated and indicate the types of development proposals which could have adverse impacts. The IRZ Geographical Information System tool [15] was used to make a rapid initial assessment of the potential risks to SSSIs posed by the Proposed Development, to identify SSSIs which may require additional consultation with NE.
- 2.4.4 SINC are determined using data gathered by the local records centres and species groups. A site may qualify as a SINC due to the presence of a notable species or important habitat that meets set criteria. The criteria used for the designation of SINC is detailed in Annex A.

3 Results

- 3.1.1 Results of the desk study are summarised and shown in Table 3-1 to Table 3-6.
- 3.1.2 The location of designated sites is presented in:
1. ES Figure 8.1 Statutory designated sites within the desk study area, Volume III (Document reference 6.3, DCO Volume 6)
 2. ES Figure 8.2 Internationally designated sites within the desk study area, Volume III (Document reference 6.3, DCO Volume 6)
 3. ES Figure 8.3 Non-statutory designated sites within the desk study area, Volume III (Document reference 6.3, DCO Volume 6)

Statutory designated sites

Internationally designated sites

- 3.1.3 There are 12 international designated sites within 5km of the Order Limits (excluding existing infrastructure). This includes four SPAs, five SACs and three Ramsar Sites. Full details of these international sites are presented in Table 3-1. International sites are listed east to west.
- 3.1.4 The conservation aims and sensitivities for international sites within the desk study area are detailed within Annex B.
- 3.1.5 International designated sites that may be sensitive to the effects of air pollution within 200m of the ARN (or within 50m of access routes) and are included in the air quality modelling are:
1. River Itchen SAC
 2. Chichester and Langstone Harbour SPA
 3. Chichester and Langstone Harbour Ramsar
 4. Solent Maritime SAC
 5. River Meon Compensatory Habitat
- 3.1.6 Detailed results for the air quality modelling are provided within ES Appendices 6.4 to 6.8, Volume II (Document reference 6.2, DCO Volume 6).

Table 3-1 International Sites within 5km of the Order Limits

Site name	Summary of reasons for designation	Distance from Order Limits
Solent and Dorset Coast SPA	The site qualifies under Article 4 of the Birds Directive (2009/147/EC) as the site regularly supports more than 1% of the Great Britain breeding populations of three species listed in Annex I of the Birds Directive. The site supports an internationally important population of breeding birds: <ul style="list-style-type: none"> • Common tern <i>Sterna hirundo</i> • Sandwich tern <i>Sterna sandvicensis</i> • Little tern <i>Sternula albifrons</i> 	Within and hydrologically connected to the Eastney LSO.
Chichester and Langstone Harbour SPA	This site qualifies under Article 4.2 by supporting internationally important numbers of the following migratory bird and wintering bird species: <ul style="list-style-type: none"> • A046a Dark-bellied brent goose <i>Branta bernicla bernicla</i> (non-breeding) • A048 Common shelduck <i>Tadorna tadorna</i> (non-breeding) • A050 Eurasian wigeon <i>Anas etanus</i> (non-breeding) • A052 Eurasian teal <i>Anas crecca</i> (non-breeding) • A054 Northern pintail <i>Anas acuta</i> (non-breeding) • A056 Northern shoveler <i>Anas clypeata</i> (non-breeding) • A069 Red-breasted merganser <i>Mergus serrator</i> (non-breeding) • A137 Ringed plover <i>Charadrius hiaticula</i> (non-breeding) • A141 Grey plover <i>Pluvialis squatarola</i> (non-breeding) • A144 Sanderling <i>Calidris alba</i> (non-breeding) • A149 Dunlin <i>Calidris alpina alpina</i> (non-breeding) • A157 Bar-tailed godwit <i>Limosa lapponica</i> (non-breeding) • A160 Eurasian curlew <i>Numenius arquata</i> (non-breeding) • A162 Common redshank <i>Tringa etanus</i> (non-breeding) • A169 Ruddy turnstone <i>Arenaria interpres</i> (non-breeding) 	Within the Pipelines between Budds Farm WTW and the WRP site. 159.3m from the ARN.

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Site name	Summary of reasons for designation	Distance from Order Limits
	<ul style="list-style-type: none"> • A191 Sandwich tern (Breeding) • A193 Common tern (Breeding) • A195 Little tern <i>Sterna albifrons</i> (Breeding) 	
Chichester and Langstone Harbour Ramsar	<p>The site is designated for the following:</p> <ul style="list-style-type: none"> • Criterion 1: Two large estuarine basins linked by the channel which divides Hayling Island from the main Hampshire coastline. The site includes intertidal mudflats, saltmarsh, sand and shingle spits and sand dunes; • Criterion 5: Assemblages of international importance with species with peak counts over winter (76,480 waterfowl – 5-year peak mean 1998/99-2002/2003); and • Criterion 6: Species/populations occurring at levels of international importance. 	<p>Within the Pipelines between Budds Farm WTW and the WRP site.</p> <p>Hydrologically connected to the Eastney LSO.</p> <p>159.3m from the ARN.</p>
Solent Maritime SAC	<p>Annex I habitats that are a primary reason for selection of this site:</p> <ul style="list-style-type: none"> • 1130 Estuaries • 1320 Spartina swards <i>Spartinion maritimae</i> • 1330 Atlantic salt meadows <i>Glauco-Puccinellietalia maritimae</i> <p>Annex I habitats present as a qualifying feature, but not a primary reason for selection of this site</p> <ul style="list-style-type: none"> • 1110 Sandbanks which are slightly covered by sea water all the time • 1140 Mudflats and sandflats not covered by seawater at low tide • 1150 Coastal lagoons * Priority feature • 1210 Annual vegetation of drift lines • 1220 Perennial vegetation of stony banks • 1310 Salicornia and other annuals colonizing mud and sand • 2120 Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ('white dunes') 	<p>Within the Pipelines between Budds Farm WTW and the WRP site.</p> <p>Hydrologically connected to the Eastney LSO.</p> <p>159.3m from the ARN.</p>

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Site name	Summary of reasons for designation	Distance from Order Limits
	Annex II species present as a qualifying feature, but not a primary reason for site selection: <ul style="list-style-type: none"> 1016 Desmoulin's whorl snail <i>Vertigo moulinsiana</i>. 	
South Wight Maritime SAC	Annex I habitats that are a primary reason for selection of this site: <ul style="list-style-type: none"> 1170 Reefs 1230 Vegetated sea cliffs of the Atlantic and Baltic Coasts 8330 Submerged or partially submerged sea caves 	2.9km from the Eastney LSO and hydrologically connected to the Eastney LSO.
Solent and Isle of Wight Lagoons SAC	Annex I habitats that are a primary reason for selection of this site: <ul style="list-style-type: none"> 1150 Coastal lagoons: Farlington Marshes is an isolated lagoon in marsh pasture that, although separated from the sea by a seawall, receives sea water during spring tides. The lagoon holds a well-developed low-medium salinity insect-dominated fauna. Gilkicker Lagoon is a sluiced lagoon with marked seasonal salinity fluctuation and supports a high species diversity. The lagoons at Bembridge Harbour have formed in a depression behind the seawall and sea water enters by percolation. Species diversity in these lagoons is high and the fauna includes very high densities of <i>Nematostella vectensis</i>. 	2.1km from the Pipelines between Budds Farm WTW and the WRP site. Hydrologically connected to the Eastney LSO.
Portsmouth Harbour SPA	This site qualifies under Article 4.2 by supporting internationally important numbers of the following migratory bird and wintering bird species: <ul style="list-style-type: none"> Dark-bellied brent goose Red-breasted merganser Dunlin Black-tailed godwit <i>Limosa limosa islandica</i> 	1.6km from Section E: Portsdown Hill to Boarhunt of the Order Limits. Hydrologically connected to the Eastney LSO.
Portsmouth Harbour Ramsar	The site is designated for the following: <ul style="list-style-type: none"> Criterion 3: The intertidal mudflat areas possess extensive beds of eelgrass <i>Zostera angustifolia</i> and <i>Zostera noltei</i> which support the grazing dark-bellied brent geese populations. The mud-snail <i>Hydrobia ulvae</i> is found at extremely high densities, which helps to support the wading bird interest of the site. Common cord-grass <i>Spartina anglica</i> dominates large areas of the saltmarsh 	1.6km from Section E of the Order Limits. Hydrologically connected to the Eastney LSO.

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Site name	Summary of reasons for designation	Distance from Order Limits
	<p>and there are also extensive areas of green algae <i>Enteromorpha</i> spp. and sea lettuce <i>Ulva lactuca</i>. More locally the saltmarsh is dominated by sea purslane <i>Halimione portulacoides</i> which gradates to more varied communities at the higher shore levels. The site also includes a number of saline lagoons hosting nationally important species.</p> <ul style="list-style-type: none"> • Criterion 6: Species/populations occurring at levels of international importance. Qualifying species/populations (as identified at designation). • Dark-bellied brent goose. 	
Solent and Southampton Water SPA	<p>This site qualifies under Article 4.1 of the Birds Directive (79/409/EED) as it is used regularly by 1% or more of the of Annex I species listed below:</p> <ul style="list-style-type: none"> • Mediterranean Gull <i>Larus melanocephalus</i>; • Sandwich tern • Common tern • Little tern • Roseate tern <i>Sterna dougalli</i> <p>This site qualifies under Article 4.2 of the Birds Directive as it is used regularly by 1% or more of the biogeographic population of a regularly occurring migratory species (other than those listed in Annex I) in any season:</p> <ul style="list-style-type: none"> • Black-tailed godwit (wintering) • Dark-bellied brent goose (wintering) • Ringed plover (wintering) • Teal (wintering) • Waterbird assemblage (wintering): The site supports an internationally important wintering waterbird assemblage of 51,361 individuals (5-year peak mean 1991/92-1995/96) 	<p>1.1km from A334/Botley Road Section J: Shedfield to the River Hamble of the Order Limits.</p> <p>Hydrologically connected to the Eastney LSO.</p>
Solent and Southampton Water Ramsar	<p>The site is designated for the following:</p> <ul style="list-style-type: none"> • Criterion 1: The site is one of few major sheltered channels between a substantial island and mainland in European waters which exhibits an unusually 	1.1km from A334/Botley Road Section J of the Order Limits.

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	<p>strong double tidal flow. The channel exhibits long periods of slack water at high and low tide. It includes many wetland habitats characteristic of the biogeographic region including saline lagoons, saltmarshes, estuaries, intertidal flats, shallow coastal waters, grazing marshes, reedbeds, coastal woodland and rocky boulder reefs.</p> <ul style="list-style-type: none"> • Criterion 2: The site supports an important assemblage of rare plants and invertebrates. At least 33 invertebrates and at least eight plants included in the British Red Data Book are represented on site. • Criterion 5: Assemblages of international importance. A peak count of 51,343 waterfowl in winter. • Criterion 6: Species occurring at levels of international importance including dark-bellied brent goose, black-tailed godwit and Eurasian teal. 	<p>Within and hydrologically connected to the Eastney LSO.</p>
<p>River Meon Compensatory SAC habitat</p>	<p>The intention of this Proposed Development to restore the river for the following features:</p> <ul style="list-style-type: none"> • Rivers with floating vegetation often dominated by water-crowfoot <i>Ranunculus aquatilis</i>. • Atlantic salmon <i>Salmo salar</i>. <p>Specific measures to be implemented are likely to include the following:</p> <ul style="list-style-type: none"> • Rehabilitation of the channel by restoring connectivity with the floodplain by lowering/removal or embankments. • Salmonid fish passage improvement. 	<p>Within Section G: Crockerhill to Wickham of the Order Limits.</p>
<p>River Itchen SAC</p>	<p>Annex I habitats that are a primary reason for selection of this site:</p> <ul style="list-style-type: none"> • 3260 Watercourses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitriche-Batrachion</i> vegetation. <p>Annex II species that are a primary reason for selection of this site:</p> <ul style="list-style-type: none"> • 1044 Southern damselfly <i>Coenagrion mercuriale</i> • 1163 Bullhead <i>Cottus gobio</i> 	

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Site name	Summary of reasons for designation	Distance from Order Limits
	<p>Annex II species present as a qualifying feature, but not a primary reason for site selection:</p> <ul style="list-style-type: none"><li>• 1092 White-clawed (or Atlantic stream) crayfish <i>Austropotamobius pallipes</i><li>• 1096 Brook lamprey <i>Lampetra planeri</i><li>• 1106 Atlantic salmon<li>• 1355 Otter <i>Lutra lutra</i>	

- 3.1.7 The closest SACs where bats are a qualifying feature are Singleton and Cocking Tunnels SAC and Mottisfont Bats SAC located 16.3km north-east and 15.2km north-west from the Order Limits respectively.
- 3.1.8 The Core Sustenance Zone for Bechstein's is 3km and barbastelle is 7km. The draft Sussex Bat SAC Planning and Landscape Enhancement Protocol cites a 12km buffer referred to as a wider conservation area for Singleton and Cocking Tunnels SAC [16]. Both sites are located outside of the desk study area and the enhanced 12km buffer.
- 3.1.9 There are 81 SWBGS sites associated with the coastal SPAs and Ramsar Sites within 2km of the Order Limits (excluding existing infrastructure), and 24 within 650m. These are not statutory designated sites, however they are considered to act as FLL to Chichester and Langstone Harbour SPA, Portsmouth Harbour SPA and Solent and Southampton Water SPA. These are sites outside of the boundaries of Chichester and Langstone Harbour SPA, Portsmouth Harbour SPA and Solent and Southampton Water SPA but which represent essential roosting or feeding sites identified as being key to achieving favourable conservation status for the Solent's SPA and Ramsar Sites. There are nine SWBGS sites located within the Order Limits.
- 3.1.10 There are 41 SWBGS sites within 650km of the Eastney TT, which is existing infrastructure and therefore not relevant to the assessment and excluded from the baseline.
- 3.1.11 Given the number of SWBGS sites within the desk study area of 2km of the Order Limits, only those sites which are within the ZoI of 250m are detailed within Table 3-2. SWBGS sites beyond 250m of the Order Limits are presented within Annex C.

Table 3-2 Solent Wader and Brent Goose Strategy sites within 650m of the Order Limits

Solent Wader and Brent Goose Strategy Site Name	Site use	Distance from the Order Limits	Associated Special Protection Areas
H29	Candidate Site	102m from Budds Farm WTW	Chichester and Langstone Harbours
H28A	Secondary Support Area	94m from Budds Farm WTW	Chichester and Langstone Harbours
H28B	SPA Site	255m from Budds Farm WTW	Chichester and Langstone Harbours
H28C	SPA Site	315m from Budds Farm WTW	Chichester and Langstone Harbours
H11	Low Use Site	185m from Budds Farm WTW	Chichester and Langstone Harbours
H27	Secondary support area	516m from Budds Farm WTW	Chichester and Langstone Harbours
H08	Low Use Site	Within the WRP site	Chichester and Langstone Harbours
H130	Candidate Site	Adjacent to the WRP site	Chichester and Langstone Harbours
H07C	Low Use Site	Within the Pipelines between Budds Farm WTW and the WRP site.	Chichester and Langstone Harbours
H07B	Secondary Support Area	Within the Pipelines between Budds Farm WTW and the WRP site	Chichester and Langstone Harbours
H90	Primary Support Area	Within the Pipelines between Budds Farm WTW and the WRP site.	Chichester and Langstone Harbours
H68	SPA Site	648m from Section D: The Water Recycling Plant site to Portsdown Hill of the Order Limits.	Chichester and Langstone Harbours
H03	Candidate Site	Within Section D of the Order Limits	Chichester and Langstone Harbours
H04C	Low Use Site	Within Section D of the Order Limits.	Chichester and Langstone Harbours

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Solent Wader and Brent Goose Strategy Site Name	Site use	Distance from the Order Limits	Associated Special Protection Areas
H07A	Core Area	Within Section D of the Order Limits	Chichester and Langstone Harbours
P02	Low Use Site	11m from Section D of the Order Limits	Chichester and Langstone Harbours
H02A	Primary Support Area	306m from Section D of the Order Limits	Chichester and Langstone Harbours
H04B	Secondary Support Area	143m from Section D of the Order Limits	Chichester and Langstone Harbours
H02B	Low Use Site	155m from Section D of the Order Limits	Chichester and Langstone Harbours
H125	Secondary Support Area	347m from Section D of the Order Limits	Chichester and Langstone Harbours
H106	Secondary Support Area	626m from Section D of the Order Limits	Chichester and Langstone Harbours
P04	Low Use Site	635m from Section D of the Order Limits	Chichester and Langstone Harbours
P135	Secondary Support Area	644m from Section D of the Order Limits	Chichester and Langstone Harbours
H68	SPA Site	648m from Section D of the Order Limits	Chichester and Langstone Harbours
W03G	Candidate Site	Within Section E of the Order Limits	Portsmouth Harbour

Nationally designated sites

- 3.1.12 There are 12 SSSI sites with biological interest within 2km of the Order Limits (excluding existing infrastructure).
- 3.1.13 There are eight SSSI sites hydraulically connected to the Order Limits, which are located further than 2km of the Order Limits.
- 3.1.14 Full details of these nationally designated sites are presented in Table 3-3. Nationally designated sites are listed east to west.
- 3.1.15 There are 13 SSSI IRZ within the Order Limits. Full details of these sites, including their condition are presented in Table 3-4. Sites are listed east to west.
- 3.1.16 There are nationally designated sites which may be sensitive to the effects of air pollution within 200m of the ARN (or within 50m of access routes) and are included in the assessment of the air quality modelling. One site is over 2km from the Order Limits but within 200m of the ARN, St Catherine's Hill SSSI. Detailed results for the air quality modelling are provided within ES Appendices 6.4 to 6.8, Volume II (Document reference 6.2, DCO Volume 6).

Table 3-3 Nationally designated sites within 2km or hydrologically connected to the Order Limits

Site name	Summary of reasons for designation	Distance from Order Limits
Chichester Harbour SSSI	Chichester Harbour is a large estuarine basin in which at low water extensive mud and sandflats are exposed, drained by channels which unite to make a common exit to the sea. The site is of particular significance for wintering wildfowl and waders and breeding birds both within the Harbour and in the surrounding permanent pasture fields and woodlands. There is a wide range of habitats which have important plant communities.	1.0km from the Budds Farm WTW. Hydrologically connected to Eastney LSO.
Warblington Meadow SSSI	The site is an unimproved grazing marsh, with special interest for its gradation from freshwater, base rich marsh to old, reclaimed saltmarsh, as well as its rich associated flora.	1.9km from Budds Farm WTW.
Sinah Common SSSI	Sinah Common SSSI comprises a complex of maritime habitats which extend for over 2km eastwards from the south-western extremity of Hayling Island, Hampshire. Gunner Point at the western end contains the most extensive sand dunes and vegetated shingle beach in Hampshire. This part of the site supports shingle beach vegetation and grassland, dune heath, dune grassland, saltmarsh and open water communities. To the east of Gunner Point there is an extensive area of fragmented dune grassland and shingle. The site embraces the adjacent intertidal area including East Winner because of the important functional relationship between this and the sand and shingle system.	Hydrologically connected to Portsmouth Harbour, but 5.5km from the Order Limits.
Langstone Harbour SSSI	Langstone Harbour is a tidal basin which at high water resembles an almost land-locked lake. The harbour includes one of the largest areas of mixed saltmarsh on the south coast, and extensive cord-grass marsh in an advanced state of degeneration. The harbour has a rich intertidal system supporting high densities of intertidal invertebrates and large populations of migrant and overwintering waders and wildfowl, dependent upon them and upon the extensive beds of eelgrass <i>Zostera</i> species. The <i>Zostera angustifolia</i> and <i>Z. noltii</i> beds are among the largest in Britain.	Within the Pipelines between Budds Farm WTW and the WRP site. 159.3m from the ARN

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Site name	Summary of reasons for designation	Distance from Order Limits
Whitecliff Bay and Bembridge Ledges SSSI	The Whitecliff Bay and Bembridge Ledges SSSI comprises extensive areas of intertidal sand, rock and shingle and includes a series of actively eroding cliffs. Collectively these features comprise the coastline of a broad heathland at the eastern extremity of the Isle of Wight. This site is geologically important because of the famous and well-exposed rock sequence from the Chalk to the Bembridge Marls which is seen here, and because of the important fossil mammal faunas and fossil plant floras which occur at certain horizons.	Hydrologically connected to Portsmouth Harbour, but 17.3km from the Order Limits.
Brading Marshes to St. Helen's Ledges SSSI	The site includes a range of coastal habitats around the Bembridge estuary. Historically the estuary has undergone a series of land-claims and in 1874–79 an area of tidal silt was claimed to form Brading Marshes. Brading Marshes comprises an extensive area of neutral and acid grassland, saline and freshwater lagoons and pools, botanically rich ditches, reedbeds, and areas of ancient woodland peripheral to the former harbour. Bembridge Harbour today has a wide variety of estuarine habitats.	Hydrologically connected to Portsmouth Harbour, but 16.3km from the Order Limits.
Portsdown SSSI	Portsdown is an isolated east-west chalk anticline with a long south-facing escarpment which remains un-reclaimed. On the lower south-facing slopes raised beaches mark former sea levels and it is postulated that former wave erosion has removed the Tertiary deposits and some of the chalk, leaving very steep slopes.	7m from Section E of the Order Limits. 0.7m from the ARN
Portsmouth Harbour SSSI	Portsmouth Harbour is the westernmost of three extensive and connected tidal basins (Portsmouth, Langstone and Chichester Harbours) which share physical characteristics and, in many respects, should be seen as a single biological system. At high water they resemble large, nearly land-locked shallow lagoons. At low water extensive mudflats are exposed which are drained by systems of channels and creeks which, in each harbour, unite to form a narrow exit to The Solent through which the tide runs rapidly on the ebb.	1.6km from Section E of the Order Limits. Hydrologically connected to the Order Limits via Wallington River and Portsmouth Harbour.
Lye Heath Marsh SSSI	Lye Heath Marsh is situated along a spring-line at the junction of the Bagshot Sands and London Clay. Within a relatively small area it supports an intimate mixture of basic flushes, unimproved grassland,	1.2km from Section E of the Order Limits.

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Site name	Summary of reasons for designation	Distance from Order Limits
	alder woodland and dense hedgerows, which combine to form a now rare association of individually restricted habitats.	
Hook Heath Meadows SSSI	Hook Heath Meadows comprise an intimate mixture of woodland and agriculturally unimproved acid pasture lying within a shallow river valley over London Clays. Many of the habitats present are now rare in lowland Britain through agricultural intensification. Their close juxtaposition here is of particular value as an invertebrate habitat.	702m from Section E of the Order Limits.
Gilkicker Lagoon SSSI	Gilkicker Lagoon represents a rare habitat in Britain, where there are relatively few saline lagoons. It is a relic of a former defensive moat which in turn is thought to have been partially derived from an ancient fleet extending parallel and to the rear of the apposition beach of Gilkicker Point. The Lagoon is linked to the sea by an intake through the shingle beach separating it from the sea. It usually maintains a salinity comparable to that of the sea water in the Solent. Saline lagoons characteristically experience large variations in water chemistry and other environmental parameters, and thus support a specialised flora and fauna.	Hydrologically connected to Portsmouth Harbour, but 9.7km from the Order Limits.
Ryde Sands and Wooton Creek SSSI	The Ryde Sands and Wooton Creek SSSI extends 10km along the sheltered north-eastern shore of the Isle of Wight between Fishbourne and Horestone Point. At low water a particularly wide range of intertidal sediments are exposed over this stretch of coastline, grading from the fine estuarine muds of Wooton Creek, through cobbles and boulders at Pelhamfield to the extensive sandflats at Ryde which reach a maximum width of almost 2km. These sandflats are the most extensive in the Solent and support the richest assemblage of sandy shore marine flora and fauna on the central south coast of Britain.	Hydrologically connected to Portsmouth Harbour, but 13km from the Order Limits.
Titchfield Haven SSSI	Titchfield Haven was formerly the estuary of the River Meon, which receives most of its water from the chalk. Tidal water is excluded by one-way tidal valves and the former estuary is an extensive freshmarsh, the river being flanked successively by large reed <i>Phragmites australis</i> beds and wet, unimproved meadows dissected by drainage ditches and diversified by pools, 'flashes' and patches of fen. In addition, extensive 'scrapes' have been constructed.	Hydrologically connected to the River Meon Compensatory SAC habitat, but 5.9km from the Order Limits.

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Site name	Summary of reasons for designation	Distance from Order Limits
	The area is an important resort for surface-feeding duck, with winter populations of 2,000 wigeon <i>Anas penelope</i> , 1,500 teal, and smaller numbers of other surface feeding ducks. It possesses a rich wetland breeding bird community including bearded reedlings <i>Panurus biarmicus</i> and large populations of reed warblers <i>Acrocephalus scirpaceus</i> and sedge warblers <i>Acrocephalus schoenobaenus</i> .	
Lee-on-the-Solent to Itchen SSSI	This site is mainly intertidal muds, and there are also areas of saltmarsh, vegetated shingle, reedbeds, deciduous woodland and marshy grassland. It is outstanding for nationally scarce coastal plants, internationally important for dark-bellied geese, and nationally important for eight other species of birds, including great crested grebe and ringed plover. The site is also important for Palaeolithic artefacts and the fossils of eocene birds.	Hydrologically connected to the River Hamble and River Meon Compensatory SAC habitat and hydrologically connected to the River Itchen but 6km from the Order Limits.
Waltham Chase Meadows SSSI	The site comprises a group of unimproved neutral meadows, at present cut for hay. Collectively they represent one of the best examples in the county of dry neutral unimproved pasture. The flora is rich and includes a number of species now scarce or local, through habitat loss, such as: green-winged orchid <i>Orchis morio</i> , adder's-tongue <i>Ophioglossum vulgatum</i> , callous-fruited water-dropwort <i>Oenanthe pimpinelloides</i> , pepper-saxifrage <i>Silaum silaus</i> , southern marsh orchid <i>Dactylorhiza praetermissa</i> and cowslip <i>Primula veris</i> . The rich and varied flora supports a rich invertebrate fauna, including, for example, 20 species of butterfly recorded in recent years.	413m from Section J of the Order Limits.
The Moors, Bishop's Waltham SSSI	Unimproved wet meadows, draining to a central pool with associated mature alder <i>Alnus carr</i> , occupying a small alluvial basin in the headwaters of a tributary of the River Hamble. The site supports a species-rich and ecologically diverse flora including many local or rare plants confined to unimproved, damp meadows. It is probably the richest site of its kind in the Hampshire Basin.	1.6km from Section J of the Order Limits.
Botley Wood and Everett's and Mushes Copses SSSI	Botley Wood and Everett's and Mushes Copses SSSI comprises a large tract of woodland in a poorly drained low-lying hollow at the junction of the Eocene beds and upper chalk in the south Hampshire tertiary basin.	1.2km from Section G of the Order Limits.

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Site name	Summary of reasons for designation	Distance from Order Limits
Upper Hamble Estuary and Woods SSSI	This site comprises the upper estuary of the River Hamble, together with adjoining saltmarsh, reed, swamp and ancient semi-natural woodland. The woods have a diverse ground flora and invertebrate fauna. There is also a narrow zone of mudflats, with large numbers of marine worms, crustaceans and molluscs, which provide food for birds.	1.1km from A334/ Botley Road Section J of the Order Limits and hydrologically connected to the River Hamble.
Lincegrove and Hackett's Marshes SSSI	This site is one of the best examples of saltmarshes on the south coast. It is dominated by sea purslane and common cordgrass, with other flora including sea lavender, thrift, sea aster and sea club-rush. It is one of only eight extensive saltmarshes on the central south coast between Poole in Dorset and Pagham in West Sussex.	Hydrologically connected to the River Hamble, but 7km from A334/Botley Road Section J of the Order Limits.
River Itchen SSSI	The Itchen typifies the classic chalk river and shows a greater uniformity in physical characteristics along its entire length than other rivers of this type. The river's vegetation is dominated by higher plants, and the aquatic flora is exceptionally species-rich with many typical chalk stream plants present in abundance. The Itchen supports one of the few populations of the native, white-clawed crayfish remaining in the rivers of southern England and breeding otters.	Within Section M of the Order Limits. Hydrologically connected via the River Itchen. 0.2m from the ARN.
St Catherine's Hill SSSI	The site comprises chalk grassland scrub occupying the spur of St. Catherine's Hill and an adjoining dry valley. The varied topography, soil depth and aspect gives rise to distinct differences in the plant communities. The grassland supports colonies of the locally distributed chalkhill blue butterfly <i>Lysandra coridon</i> particularly at the eastern end of the site, and the more sheltered parts of the site are generally very rich in invertebrates.	0m from the ARN

Table 3-4 Sites of Special Scientific Interest Impact Risk Zones identified development risks and condition

Sites of Special Scientific Interest name	Impact Risk Zone Development Category [10]	Condition of units (% of Site) [11]
Chichester Harbour	Infrastructure Discharges	Favourable (6.77%) Unfavourable recovering (3.10%) Unfavourable no change (9.69%) Unfavourable declining (80.44%)
Langstone Harbour	All Consultations	Favourable (8.87%) Unfavourable recovering (91.05%) Unfavourable no change (0.09%)
Portsdown	Infrastructure Discharges	Favourable (9.19%) Unfavourable recovering (88.22%) Destroyed (2.59%)
Portsmouth Harbour	All Consultations	Favourable (2.58%) Unfavourable recovering (25.85%) Unfavourable no change (71.21%) Destroyed (0.35%)
Warblington Meadow	Infrastructure Discharges	Unfavourable no change (100%)
Lye Heath Marsh	Infrastructure Discharges	Unfavourable recovering (100%)
Hook Heath Meadows	Infrastructure Discharges	Favourable (100%)
Titchfield Haven	Infrastructure Discharges	Unfavourable recovering (96.48%) Unfavourable declining (3.52%)
Waltham Chase Meadows	Infrastructure Discharges	Favourable (100%)
The Moors	Infrastructure Discharge	Favourable (10%) Unfavourable recovering (10%) Unfavourable no change (30%)

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Sites of Special Scientific Interest name	Impact Risk Zone Development Category [10]	Condition of units (% of Site) [11]
		Not recorded (50%)
Botley Wood and Everett's and Mushes Copses	Infrastructure Discharges	Favourable (10.9%) Unfavourable recovering (88.4%) Destroyed (0.70%)
Upper Hamble Estuary and Woods	Infrastructure Discharges	Favourable (89.5%) Unfavourable no change (2.76%) Unfavourable declining (7.75%)
River Itchen	All Consultations	Favourable (15.94%) Unfavourable recovering (45.73%) Unfavourable no change (27.11%) Unfavourable declining (10.83%) Destroyed (0.39%)

Locally designated sites

- 3.1.17 There are eight LNRs within 2km of the Order Limits (excluding existing infrastructure).
- 3.1.18 There are six LNRs hydraulically connected to the Order Limits, which are located further than 2km of the Order Limits.
- 3.1.19 There are an additional two LNRs which are within 2km of the Order Limits, however as these are within 2km of Havant Thicket Reservoir, existing infrastructure, they are not relevant to the assessment and excluded from the baseline.
- 3.1.20 Full details of these locally designated sites are presented in Table 3-5. Sites are listed east to west.

Table 3-5 Locally designated sites within 2km or hydrologically connected to the Order Limits

Site name	Summary of reasons for designation	Distance from Order Limits
Sandy Point LNR	Sandy Point Nature Reserve has a mosaic of habitats. This mosaic is made up of sand dunes, heathland, shingle, grassland and scrub. These fragile habitats offer a glimpse into how Hayling Island's southern foreshore would have once looked.	Hydrologically connected to Chichester Harbour, but 7.9km from the Order Limits.
Hayling Billy LNR	Afforded LNR status in 2010, this old route of the Hayling Billy train provides beautiful views of one the most unspoilt sections of Langstone Harbour, supporting rare plant species.	1.3km from the Budds Farm WTW. Hydrologically connected to Langstone Harbour.
West Hayling LNR	West Hayling LNR, formerly known as the Hayling Oysterbeds, comprises extensive intertidal mudflats that support thousands of resident and migrant waders and wildfowl, which feed on the diverse assemblage of marine invertebrate life.	1.3km from the Budds Farm WTW. Hydrologically connected to Langstone Harbour.
The Kench, Hayling Island LNR	A small area of inter-tidal mud and saltmarsh within Langstone Harbour. This shallow tidal inlet alongside Ferry Road on Hayling Island is used by many birds as a feeding area and when the tide is high the shingle ridge between the inlet and the main harbour is used as a roost by wading birds.	Hydrologically connected to Langstone Harbour, but 5.4km from the Order Limits.
Farlington Marshes LNR	Farlington Marshes is the Hampshire and Isle of Wight Wildlife Trust's oldest nature reserve. It is 125 hectares (ha) (308 acres) of flower-rich grazing marsh on the northern shore of Langstone Harbour between Portsmouth and Havant. Farlington Marshes is internationally important for the bird populations that it supports.	600m from Section D of the Order Limits.
Hook with Warsash LNR	A shingle shore and intertidal flats that run along the edge of Southampton Water. Inland there are grazing pastures interspersed with tree lines, woodland and wetland habitats. Some of these habitats are rare and declining in the region. The foreshore and intertidal areas provide a winter feeding ground for many species of wading birds and wildfowl. Hook Spit is used by roosting turnstones as well as by a few pairs of breeding ringed plovers. The shingle zones have plant species such as sea kale, sea beet	Hydrologically connected to River Hamble, but 7.6km from the Order Limits.

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Site name	Summary of reasons for designation	Distance from Order Limits
	and yellow-horned poppy. The areas of grassland and scrub on Hook Links support a variety of breeding birds including linnets, meadow pipits and skylarks.	
The Moors, Bishops Waltham LNR	An area of semi-natural woodland, fen and grassland and open water. It is the main source of the Hamble River. Springs and streams feed a mill pond surrounded by a complex of woodland, fen and meadows. The Moors is a SSSI and is a wetland of national importance for its wildflowers. The meadow to the west of the mill pond is managed in a traditional way, being cut for hay and grazed by cattle. Orange tip and green-veined white butterflies lay their eggs on lady's-smock flowers in May. Other spring wildflowers typical of damp, herb rich meadows include water avens, king cups and the scarce bistort.	1.6km from Section K: The River Hamble to Lower Upham of the Order Limits.
Bishops Waltham Branch Line LNR	Dismantled railway line lined by trees, including oak, hawthorn and maple supporting bird species, with a ground flora comprising flowering plants and male ferns. The Kings Way and Pilgrims Trail routes pass through the site.	342m from Section K of the Order Limits.
Claylands LNR	Comprising secondary woodland, grassy and scrub covered south facing slopes, forming banks of an old clay working. A meadow which was landfill, two neutral grassland meadows and a number of ponds which support a population of great crested newt <i>Triturus cristatus</i> .	1.0km from Section K of the Order Limits.
Manor Farm LNR	This site has abundant wildlife from roe deer in the woods to curlews along the river and skylarks in the fields, plus an amazing array of wildflowers, insects and reptiles.	1.8km from the Order Limits and hydrologically connected to the River Hamble.
Hackett's Marsh LNR	This site has saltmarshes and species-rich grassland, the saltmarsh vegetation is dominated by cord grass and saltmarsh grass with sea purslane, glasswort, sea lavender, thrift, sea aster, sea rush and sea club-rush. Its diverse insects, which include some species which are nationally rare, provide an important source of food for waders, such as golden plover <i>Pluvialis apricaria</i> , black-tailed godwit and curlew.	Hydrologically connected to the River Hamble, but 7.2km from the Order Limits.
Mercury Marshes LNR	This site on the west bank of the River Hamble has intertidal mud, reedbeds, islands, saltmarsh, creeks and woodland. The saltmarsh and islands are dominated by sea purslane, cordgrass, sea aster and glasswort. The reserve is important for invertebrates and waders.	Hydrologically connected to the River Hamble, but 8.1km from the Order Limits.

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Site name	Summary of reasons for designation	Distance from Order Limits
Shawford Down LNR	Shawford Down near Winchester is a 19.6ha site of chalk grassland and scrub and is grazed with Highland cattle. The site supports chalk downland plants and butterflies.	808m from Section M of the Order Limits.
Chessell Bay LNR	Chessell Bay is of great local importance, being the only remaining long stretch of natural shoreline in the lower reaches of the River Itchen. It also contains the only salt-marsh vegetation occurring within Southampton. A large proportion of the site is composed of mudflats and, at low tide, these provide major feeding grounds for wading birds and wildfowl.	Hydrologically connected to the River Itchen, but 8km from the Order Limits.
Hazelton Common LNR	N/A	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.
Dell Piece West LNR	N/A	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.

Non-statutory designated sites

- 3.1.21 There are 354 non-statutory designated sites within 2km of the Order Limits (excluding existing infrastructure). These consist of 341 SINC, twelve RVEIs and one combined SINC and RVEI. Of these, 64 are within 250m of the Order Limits.
- 3.1.22 Non-statutory designated sites that may be sensitive to the effects of air pollution within 200m of the ARN (or within 50m of access routes) and are included in the air quality modelling include:
1. Great Moorlands Copse Complex SINC
 2. Pitmore Copse (West) SINC
 3. Pitmore Copse/Pitmore Gulley Copse SINC
 4. Otterbourne Primary School Meadow SINC
 5. Long Mead SINC
- 3.1.23 Detailed results for the air quality modelling are provided within ES Appendix 6.5 Construction road vehicle exhaust emissions assessment – ecological features transects results – nitrogen oxides, Volume II (Document reference 6.2, DCO Volume 6).
- 3.1.24 Given the number of non-statutory designated sites within the desk study area of 2km of the Order Limits (excluding existing infrastructure), only those sites which are within 250m (the Zol for non-statutory sites) are detailed within Table 3-6. Sites are listed east to west; those sites beyond 250m of the Order Limits are presented within Annex D.

Table 3-6 Non-statutory designated sites within 250m of the Order Limits

Site name	Distance from the Order Limits	Criteria
Southmoor Reserve SINC	215.2m from Budds Farm WTW	2A/4A/5B/6A
Portsmouth City Golf Course Copse SINC	241.7m from Section D of the Order Limits	1B/6A
Portsmouth Golf Course East SINC	135.7m from Section D of the Order Limits	2B/2D
Portsmouth Golf Course West SINC	87.8m from Section D the Order Limits	2B/2D
Meadow West of Farlington Avenue SINC	Within Section D of the Order Limits	2D
East and West of Gillman Road SINC	Within Section D of the Order Limits	2B/6A
Fields off Havant Road SINC	Within Section D of the Order Limits	6A
A2030 Havant Road Roundabout RVEI	0.3m from Section D of the Order Limits	Floral species
B2177 Portsdown Hill Road RVEI	Within Section D of the Order Limits	Chalk Flora
Birkdale Avenue RVEI	Within Section D of the Order Limits	Chalk Flora
Farlington Avenue RVEI	Within Section D of the Order Limits	Chalk Flora
Farlington Avenue SINC	Within Section D of the Order Limits	2B
Land to the north of Portsdown Hill Road SINC	Within Section D of the Order Limits	2B/6A
Land to the South of Portsdown Hill Road SINC	Within Section D of the Order Limits	2A/2B
Field to West of Gillman Road SINC	Within Section D of the Order Limits	2B/6A
Birkdale Avenue SINC	Within Section D of the Order Limits	2Aiii
Fort Purbrook Paddock 2 (Havant) SINC	85.2m from Section D of the Order Limits	2B
Fort Purbrook Paddock 1 (Havant) SINC	85.5m from Section D of the Order Limits	2B/6A
Fort Purbrook Paddock 3 (Havant) SINC	85.1m from Section D of the Order Limits	2B
Fort Purbrook Paddock 4 (Havant) SINC	85.8m from Section D of the Order Limits	2Aiii
Fort Purbrook SINC	85.2m from Section D of the Order Limits	2A/6A
Farlington Marshes Grassland (North-east) SINC	85.2m from Section D of the Order Limits	2A/4A
Field East of Farlington Redoubt (North) SINC	85.9m from Section D of the Order Limits	2B
Fort Widley and Surrounds SINC	180.5m from Section E of the Order Limits	2B/2D/6A
Motte and Bailey and Chalk Pit SINC	21.3m from Section E of the Order Limits	1A

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Site name	Distance from the Order Limits	Criteria
Crooked Walk Banks SINC	230.9m from Section E of the Order Limits	2A
Marls and Stroud Coppices SINC	53.5m from Section E of the Order Limits	1B
Dell Row South SINC	137.3m from Section F:Boarhunt to Crockerhill of the Order Limits	1A
Carpenters Copse SINC	Within Section F of the Order Limits	1A
Blakes Copse SINC	211.1m from Section F of the Order Limits	1A
Fullimores Copse SINC	145.0m from Section G of the Order Limits	1A
Wickham Meadow SINC	0.9m from Section G of the Order Limits	2A
Birchfrith Copse SINC	68.6m from Section G of the Order Limits	1A/1B
River Meon (Winchester) SINC	Within Section G of the Order Limits	1Cii/5A/5B
Gravelpit Copse SINC	54.1m from Section G of the Order Limits	1B
Tankerhill Copse SINC	119.7m from Section G of the Order Limits	1A
Redhill Copse, Wickham SINC	215.9m from Section G of the Order Limits	1A
Cutlers Copse SINC	77.5m from Section H: Wickham to Shedfield of the Order Limits	1B
Shedfield Common SINC	111.8m from Section H of the Order Limits	1D/2B/3A/6A
St. Anne's Wood SINC	26.5m from Section J of the Order Limits	1B
Durley Roughett SINC	33.5m from Section K of the Order Limits	2A
Calcot Farm Meadow 2 SINC	34.8m from Section K of the Order Limits	2A
Calcot Farm Meadow 1 SINC	230.8m from Section K of the Order Limits	1A/2B/6A
Kimbers Copse SINC	Within Section K of the Order Limits	1A/1B
Wintershill Farm Woodland SINC	35.5m from Section K of the Order Limits	1A/1B/1Cii
Alma Meadows (North) SINC	185.9m from Section K of the Order Limits	2A
Lower Upham Meadow SINC	228.9m from Section K of the Order Limits	2A
Park Hills Wood SINC	106m from Section L: Lower Upham to Brambridge of the Order Limits	1A
Chestnut Gully Wood SINC	Within Section L of the Order Limits	1A
The Mount, Fair Oak and Horton Heath SINC	Within Section L of the Order Limits	1A

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Site name	Distance from the Order Limits	Criteria
Fielders Farm Meadows (Eastleigh) SINC	Within Section L of the Order Limits	2D/5B/6A
Fielders Farm Meadows (Winchester) SINC	Within Section L of the Order Limits	2D
Hill Copse, Fair Oak and Horton Heath SINC	12.5m from Section L of the Order Limits	1A
Fishers Pond Wood SINC	219.8m from Section L of the Order Limits	1A
Upperbarn Copse SINC	224.5m from Section L of the Order Limits	1B
Lord's Wood, Colden Common SINC	55.5m from Section L of the Order Limits	1A
Oakwood Copse SINC	2.2m from Section M of the Order Limits	1A
Sparrow Grove Copse SINC	2.5m from Section M of the Order Limits	1A
Otterbourne Wood SINC	14.0m from Section M of the Order Limits	1A
Great Moorlands Copse Complex SINC	5.6m from the ARN.	1A
Pitmore Copse (West) SINC	50m from the ARN	1B
Pitmore Copse/Pitmore Gully Copse SINC	27m from the ARN	1A
Otterbourne Primary School Meadow SINC	164.5m from the ARN	2D
Long Mead SINC	79.8m from the ARN	2A
Hammond's Lands Copse SINC	Excluded from assessment, as within 250m of Havant Thicket Reservoir, existing infrastructure.	N/A
Thicket Lawn SINC	Excluded from assessment, as within 250m of Havant Thicket Reservoir, existing infrastructure.	N/A
High Lawn SINC	Excluded from assessment, as within 250m of Havant Thicket Reservoir, existing infrastructure.	N/A

4 Summary

4.1 Summary of desk study results

Statutory designated sites

4.1.1 A total of 12 international sites are either within 5km of the Order Limits or have a hydrological connection to it, they are:

1. Solent and Dorset Coast SPA
2. Chichester and Langstone Harbours SPA
3. Chichester and Langstone Harbours Ramsar
4. Solent Maritime SAC
5. South Wight Maritime SAC
6. Solent and Isle of Wight Lagoons SAC
7. Portsmouth Harbour SPA
8. Portsmouth Harbour Ramsar
9. Solent and Southampton Water SPA
10. Solent and Southampton Water Ramsar
11. River Meon Compensatory SAC habitat
12. River Itchen SAC

4.1.2 No SACs where bats are a qualifying feature are located within 10km of the study area.

4.1.3 There are 81 SWBGS sites within 2km of the Order Limits (excluding existing infrastructure). Of these nine are located within the Order Limits.

4.1.4 There are 35 national statutory designated sites within 2km of the Order Limits. These comprise of 12 SSSIs and eight LNRs. A further 15 national statutory sites are hydrologically connected to the Order Limits.

4.1.5 Statutory designated sites that may be sensitive to the effects of air pollution within 200m of the ARN (or within 50m of access routes) include:

1. River Itchen SAC
2. River Itchen SSSI
3. Chichester and Langstone Harbour SPA
4. Chichester and Langstone Harbour Ramsar
5. Solent Maritime SAC
6. River Meon Compensatory Habitat

Non-statutory designated sites

4.1.6 There are 354 non-statutory designated sites within 2km of the Order Limits (excluding existing infrastructure). These consist of 341 SINCs, twelve RVEIs and one combined SINC and RVEI. Of these, 65 are within 250m of the Order Limits (excluding existing infrastructure).

- 4.1.7 Non-statutory designated sites that may be sensitive to the effects of air pollution within 200m of the ARN (or within 50m of access routes) include:
1. Great Moorlands Copse Complex SINC
 2. Pitmore Copse (West) SINC
 3. Pitmore Copse/Pitmore Gulley Copse SINC
 4. Otterbourne Primary School Meadow SINC
 5. Long Mead SINC

Annex A Non-statutory designated sites criteria

Code	Criteria
1A	Ancient Semi-natural Woodlands
1B	Other woodland where there is a significant element of ancient semi-natural woodland surviving
1C	Other semi-natural woodland if they comprise important community types of restricted distribution in the county, such as yew woods and alder swamp woods
1Ci	Yew Woods
1Cii	Wet Woodlands such as Alder or Willow Woods and Birch Bog Woods which Support a Good Diversity of Woodland and/or Marsh/Swamp/Mire Species
1D	Pasture woodland and wooded commons not included in any of the above which are of considerable biological and historical interest
1E	Hedgerows
1F	Traditional Orchards
1G	Ancient and veteran trees which occur outside any of the previously defined woodland categories
2A	Agriculturally unimproved grasslands which are not of recent origin
2Ai	Lowland Meadow (Neutral Grassland)
2Aii	Lowland Dry Acidic Grassland (Acid Grassland)
2Aiii	Lowland Calcareous Grassland (Calcareous Grassland)
2B	Semi-improved grasslands which retain a significant element of unimproved grassland
2Bi	Grasslands with species-rich fungal communities ('waxcap grasslands')
2C	Grassland of Recent Origin of a Significant Size and Species Diversity
2Ci	Grasslands created by deliberate addition of plant material
2Cii	Early successional grasslands developing by natural colonisation
2D	No 2D criteria outlined within guidance document
3A	Areas of Heathland Vegetation including mosaics of dwarf shrub heath, acidic grassland, valley mire and scrub
3B	Areas of Heathland which are afforested or have succeeded to woodland

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Code	Criteria
4A	Semi-natural coastal and estuarine habitats (including saltmarsh, intertidal mudflats, sand dunes, brackish ponds, saline lagoons, inundation grasslands of the coastal plain, maritime cliffs and maritime grasslands)
4Ai	Coastal Grazing marsh
4Aii	Coastal Saltmarsh
4Aiii	Coastal sand-dunes
4Aiv	Coastal Vegetated Shingle
4Av	Intertidal Mudflats and Seagrass Beds
4Avi	Maritime Cliffs and Slopes
4Avii	Saline Lagoons
5A	Areas of open freshwater (e.g. lakes, ponds, canals, rivers, streams and ditches)
5Ai	Areas of open freshwater which support good floristic assemblages
5Aii	Wetlands which support significant assemblages of invertebrates, birds or amphibians
5Aiii	Wetlands which have a high water quality status or a high biotic index
5B	Fens, flushes, seepages, springs and inundation grasslands of floodplains that support a flora and fauna of less-improved wet conditions (seasonal or permanent)
5Bi	Coastal and Floodplain Grazing Marsh
5Bii	Spring-fed fens and flushes
5Biii	Purple Moor-grass and Rush-pasture
6A	Sites which support one or more Hampshire Notable Species
6B	Sites which regularly support a significant population of a Hampshire Notable Species but which are used seasonally or for only one part of a species life-cycle
6C	Sites which support an outstanding assemblage of species
7A	Sites of nature conservation interest which occur in areas otherwise deficient in such interest, and/or are known to be of particularly high value to local communities
8A	Sites designated as Local Geological Sites, formerly known as Regionally Important Geological and Geomorphological Sites
9A	Sites which possess a rich mosaic of habitats and/or have an outstanding assemblage of species

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Code	Criteria
10A	Sites which support outstanding assemblages of arable plant or animal species either within whole fields or along margins
11A	Habitat mosaics

Annex B International Sites Conservation Aims and Sensitivities

Site name	Conservation aims	Site sensitivities
River Itchen SAC	<ul style="list-style-type: none"> • The Conservation Objectives for this site are, subject to natural change, to maintain in favourable condition (*): • The river habitat for water crowfoot, salmon, bullhead, brook lamprey and white-clawed crayfish; and, • the river and adjoining land as habitat for southern damselfly and otters. • (*) or restored to favourable condition if features are judged to be unfavourable. 	<p>A principal threat to the habitats within this SAC is considered to be the decrease in flow velocities and increase in siltation, in turn affecting macrophyte cover (especially <i>Ranunculus</i>). Recent surveys have shown declines in <i>Ranunculus</i> cover since 1990, attributable to increased abstractions in the upper catchment, coupled with a series of years with below-average rainfall. Low flows interact with nutrient inputs from point sources to produce localised increases in filamentous algae and nutrient-tolerant macrophytes at the expense of <i>Ranunculus</i>. Efforts are currently being made to increase the viability of the southern damselfly population through population studies and a Species Action Plan.</p> <p>Threats, pressures and activities with impacts on the site listed on the standard data form:</p> <ul style="list-style-type: none"> • Grazing; • Pollution to groundwater (point and diffuse sources); and, • Human induced changes in hydraulic conditions. <p>The prioritised issues for the site as detailed in the Site Improvement Plan are as follows:</p> <ul style="list-style-type: none"> • Water pollution; • Physical modification; • Siltation; • Overgrazing; • Water abstraction; • Inappropriate weed control; • Hydrological changes; • Inappropriate water levels;

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Site name	Conservation aims	Site sensitivities
		<ul style="list-style-type: none"> • Change in land management; • Inappropriate cutting/mowing; • Invasive Non-Native Species (INNS); • Under grazing; • Inappropriate ditch management; • Inappropriate scrub control; and, • Forestry and woodland management.
Chichester and Langstone Harbour SPA and Ramsar	<p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of qualifying natural habitats and habitats of qualifying species; • The structure and function (including typical species) of qualifying natural habitats; • The structure and function of the habitats of qualifying species; • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely; • The populations of qualifying species; and, • The distribution of qualifying species within the site. 	<p>Threats, pressures, and activities with impacts on the site listed on the standard data form include:</p> <ul style="list-style-type: none"> • Changes in biotic conditions; • Pollution to ground groundwater (point and diffuse sources); • Changes in abiotic conditions; • Fishing and harvesting aquatic resources; and, • Outdoor sports and leisure activities, recreational activities. <p>The prioritised issues for the site are as follows (taken from overarching Solent Site Improvement Plan):</p> <ul style="list-style-type: none"> • Public access/disturbance; • Coastal squeeze; • Fisheries: Commercial, marine and estuarine; • Water pollution; • Changes in species distribution; • Climate change; • Change to site condition; • INNS; • Direct land take from development;

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Site name	Conservation aims	Site sensitivities
		<ul style="list-style-type: none"> • Biological resource use; • Change in land management; • Inappropriate pest control; • Air pollution: Impact of atmospheric nitrogen deposition; • Hydrological changes; • Direct impact from third party; • Extraction: non-living resources; and, • Other.
Solent Maritime SAC	<p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring;</p> <ul style="list-style-type: none"> • The extent and distribution of qualifying natural habitats and habitats of qualifying species; • The structure and function (including typical species) of qualifying natural habitats; • The structure and function of the habitats of qualifying species; • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely; • The populations of qualifying species; and, • The distribution of qualifying species within the site. 	<p>The site is vulnerable for a number of reasons, including the threats, pressure and activities from:</p> <p>Pollution to surface waters (limnic and terrestrial, marine and brackish)</p> <p>Outdoor sports and leisure activities, recreational activities</p> <p>Changes in biotic conditions</p> <p>Fishing and harvesting aquatic resources.</p> <p>Changes in abiotic conditions</p> <p>The prioritised issues for the site as detailed in the Site Improvement Plan (taken from the overarching Solent Site Improvement Plan) are as follows:</p> <ul style="list-style-type: none"> • Public Access/Disturbance; • Coastal squeeze; • Fisheries: Commercial marine and estuarine; • Water pollution; • Changes in species and distributions; • Climate change; • Change to site conditions; • INNS;

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Site name	Conservation aims	Site sensitivities
		<ul style="list-style-type: none"> • Direct land take from development; • Biological resource; • Change in land management; • Inappropriate pest control; • Air Pollution: impact of atmospheric nitrogen deposition; • Hydrological changes; • Direct impact from 3rd party; and • Extraction: non-living resources.
<p>Portsmouth Harbour SPA and Ramsar</p>	<p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of qualifying natural habitats and habitats of qualifying species; • The structure and function (including typical species) of qualifying natural habitats; • The structure and function of the habitats of qualifying species; • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely; • The populations of qualifying species; and, • The distribution of qualifying species within the site. 	<p>Threats, pressures, and activities with impacts on the site listed on the standard data form include:</p> <ul style="list-style-type: none"> • Fishing and harvesting aquatic resources; • Pollution to groundwater (point sources and diffuse sources); • Changes in abiotic conditions; • Outdoor sports and leisure activities, recreational activities; and, • Changes in biotic conditions. <p>The prioritised issues for the site as detailed in the Site Improvement Plan (taken from overarching Solent Site Improvement Plan) are as follows:</p> <ul style="list-style-type: none"> • Public Access/Disturbance; • Coastal squeeze; • Fisheries: Commercial marine and estuarine; • Water pollution; • Changes in species and distributions; • Climate change; • Change to site conditions;

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Site name	Conservation aims	Site sensitivities
		<ul style="list-style-type: none"> • INNS; • Direct land take from development; • Biological resource; • Change in land management; • Inappropriate pest control; • Air Pollution: impact of atmospheric nitrogen deposition; • Hydrological changes; • Direct impact from 3rd party; • Extraction: non-living resources; and, • Other.
Solent and Dorset Coast SPA	<p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the aims of the Birds Directive (2009/147/EC), by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of the habitats of the qualifying features; • The structure and function of the habitats of the qualifying features; • The supporting processes on which the habitats of the qualifying features rely; • The population of each of the qualifying features; and, • The distribution of the qualifying features within the site. 	<p>Threats, pressures and activities with impacts on the site listed on the standard data form are:</p> <ul style="list-style-type: none"> • Military use and civil unrest; • Exploration and extraction of oil or gas; • Shipping lanes, ports, marine constructions; • Urbanised areas, human habitation; • Outdoor sports and leisure activities, recreational activities; • Renewable abiotic energy use; • Discharges; and, • Fishing and harvesting aquatic resources. <p>The prioritised issues for the site as detailed in the Site Improvement Plan (taken from overarching Solent Site Improvement Plan) are as follows:</p> <ul style="list-style-type: none"> • Public Access/Disturbance; • Coastal squeeze;

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Site name	Conservation aims	Site sensitivities
		<ul style="list-style-type: none"> • Fisheries: Commercial marine and estuarine; • Water pollution; • Changes in species and distributions; • Climate change; • Change to site conditions; • INNS; • Direct land take from development; • Biological resource; • Change in land management; • Inappropriate pest control; • Air Pollution: impact of atmospheric nitrogen deposition; • Hydrological changes; • Direct impact from 3rd party; • Extraction: non-living resources; and, • Other.
Solent and Southampton Water SPA and Ramsar	<p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the aims of the Birds Directive (2009/147/EC), by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of the habitats of the qualifying features; • The structure and function of the habitats of the qualifying features; • The supporting processes on which the habitats of the qualifying features rely; 	<p>Threats, pressures and activities with impacts on the site listed on the standard data form include:</p> <ul style="list-style-type: none"> • Pollution to groundwater (point sources and diffuse sources); • Outdoor sports and leisure activities, recreational activities; • Changes in abiotic conditions; • Changes in biotic conditions; and, • Fishing and harvesting aquatic resources. <p>The prioritised issues for the site as detailed in the Site Improvement Plan (taken from overarching Solent Site Improvement Plan) are as follows:</p>

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Site name	Conservation aims	Site sensitivities
	<ul style="list-style-type: none"> • The population of each of the qualifying features; and • The distribution of the qualifying features within the site. 	<ul style="list-style-type: none"> • Public Access/Disturbance; • Coastal squeeze; • Fisheries: Commercial marine and estuarine; • Water pollution; • Changes in species and distributions; • Climate change; • Change to site conditions; • INNS; • Direct land take from development; • Biological resource; • Change in land management; • Inappropriate pest control; • Air Pollution: impact of atmospheric nitrogen deposition; • Hydrological changes; • Direct impact from 3rd party; • Extraction: non-living resources; and, • Other.
South Wight Maritime SAC	<p>The conservation objectives are to ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of qualifying natural habitats; • The structure and function (including typical species) of qualifying natural habitats; and 	<p>Threats, pressures, and activities with impacts on the site listed on the standard data form (taken from Solent and Isle of Wight Lagoons SAC):</p> <ul style="list-style-type: none"> • Human induced changes in hydraulic conditions; • Outdoor sports and leisure activities; and, • INNS. <p>The prioritised issues for the site as detailed in the Site Improvement Plan are as follows:</p>

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Site name	Conservation aims	Site sensitivities
	<ul style="list-style-type: none"> The supporting processes on which qualifying natural habitats rely. 	<ul style="list-style-type: none"> INNS; Inappropriate coastal management; Public Access/Disturbance; Physical modification; Inappropriate coastal management; Physical modification; and Fisheries: Commercial marine and estuarine.
Solent and Isle of Wight Lagoons SAC	<p>The conservation objectives are to ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring:</p> <ul style="list-style-type: none"> The extent and distribution of qualifying natural habitats; The structure and function (including typical species) of qualifying natural habitats; and The supporting processes on which qualifying natural habitats rely. 	<p>Threats, pressures, and activities with impacts on the site listed on the standard data form:</p> <ul style="list-style-type: none"> Human induced changes in hydraulic conditions; Changes in abiotic conditions; Interspecific floral relations; Fire and fire suppression; and, Air pollution, airborne pollutants. <p>The prioritised issues for the site as detailed in the Site Improvement Plan are as follows:</p> <ul style="list-style-type: none"> Hydrological changes; Inappropriate weed control; Coastal squeeze; INNS; and, Air pollution: risk of atmospheric nitrogen deposition.
River Meon Compensatory SAC Habitat	<p>There are no conservation objectives for the River Meon Compensatory SAC Habitat; however, they are taken to be those of similar SACs.</p> <p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable</p>	<p>No sensitivities are listed for the River Meon Compensatory SAC Habitat. While the River Meon is not a designated site, best practice states that it should be bestowed the same protection and assessed under the same guidance (2019 Regulations). It is proposed for the development of compensatory measures for adverse effects on the integrity of Atlantic salmon from other projects (e.g. the Lower Itchen</p>

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Site name	Conservation aims	Site sensitivities
	<p>Conservation Status of its Qualifying Features, by maintaining or restoring:</p> <ul style="list-style-type: none"> • The extent and distribution of qualifying natural habitats and habitats of qualifying species; • The structure and function (including typical species) of qualifying natural habitats; • The structure and function of the habitats of qualifying species; • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely; • The populations of qualifying species; and, • The distribution of qualifying species within the site. 	<p>Sources Drought Order). In order to maintain the effectiveness of the River Meon compensatory measures in maintaining the overall coherence of the Habitats Site, it is important to assess the effects on Atlantic salmon using the river.</p>

Annex C Solent Wader and Brent Goose Strategy sites located from 250m to 2km of the Order Limits

Solent Wader and Brent Goose Strategy Site Name	Site use	Distance from the Order Limits	Associated SPA
H25D	Low Use Site	1km from Budds Farm WTW	Chichester and Langstone Harbours
H70	SPA Site	1km from Budds Farm WTW	Chichester and Langstone Harbours
H126	Secondary Support Area	1.1km from Budds Farm WTW	Chichester and Langstone Harbours
H25C	Primary Support Area	1.2km from Budds Farm WTW	Chichester and Langstone Harbours
H25B	Primary Support Area	1.2km from Budds Farm WTW	Chichester and Langstone Harbours
H24C	Secondary Support Area	1.5km from Budds Farm WTW	Chichester and Langstone Harbours
H24A	Primary Support Area	1.5km from Budds Farm WTW	Chichester and Langstone Harbours
H24D	Primary Support Area	1.6m from Budds Farm WTW	Chichester and Langstone Harbours
H73B	SPA Site	1.6km from Budds Farm WTW	Chichester and Langstone Harbours
H62A	Low Use Site	1.6km from Budds Farm WTW	Chichester and Langstone Harbours
H73A	SPA Site	1.6km from Budds Farm WTW	Chichester and Langstone Harbours
H76	SPA Site	1.7km from Budds Farm WTW	Chichester and Langstone Harbours
H62B	Low Use Site	1.7km from Budds Farm WTW	Chichester and Langstone Harbours
H86	Secondary Support Area	1.7km from Budds Farm WTW	Chichester and Langstone Harbours
H24E	Primary Support Area	1.7km from Budds Farm WTW	Chichester and Langstone Harbours
H24B	Secondary Support Area	1.7km from Budds Farm WTW	Chichester and Langstone Harbours
P104	SPA Site	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H61	SPA Site	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H60I	Core Area	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H71	SPA Site	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H60B	Secondary Support Area	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H23C	Secondary Support Area	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H60C	Low Use Site	1.8km from Budds Farm WTW	Chichester and Langstone Harbours

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Solent Wader and Brent Goose Strategy Site Name	Site use	Distance from the Order Limits	Associated SPA
H23B	Low Use Site	1.8km from Budds Farm WTW	Chichester and Langstone Harbours
H92	SPA Site	1.9km from Budds Farm WTW	Chichester and Langstone Harbours
H72	SPA Site	1.9km from Budds Farm WTW	Chichester and Langstone Harbours
H60J	Secondary Support Area	1.9km from Budds Farm WTW	Chichester and Langstone Harbours
H113	Secondary Support Area	710m from Section D	Chichester and Langstone Harbours
P10G	SPA Site	855m from Section D	Chichester and Langstone Harbours
H69	SPA Site	896m from Section D	Chichester and Langstone Harbours
P10E	SPA Site	906m from Section D	Chichester and Langstone Harbours
P08C	Core Area	1km from Section D	Chichester and Langstone Harbours
P10C	SPA Site	1.1km from Section D	Chichester and Langstone Harbours
P10D	SPA Site	1.3km from Section D	Chichester and Langstone Harbours
P08A	Core Area	1.3km from Section D	Chichester and Langstone Harbours
P08B	Secondary Support Area	1.3km from Section D	Chichester and Langstone Harbours
P10B	SPA Site	1.4km from Section D	Chichester and Langstone Harbours
P10H	SPA Site	1.4km from Section D	Chichester and Langstone Harbours
P10A	SPA Site	1.4km from Section D	Chichester and Langstone Harbours
P10J	SPA Site	1.6km from Section D	Chichester and Langstone Harbours
P10L	SPA Site	1.7km from Section D	Chichester and Langstone Harbours
P10I	SPA Site	1.8km from Section D	Chichester and Langstone Harbours
P61B	Low Use Site	1.8km from Section D	Chichester and Langstone Harbours
P61A	Candidate Site	1.9km from Section D	Portsmouth Harbour
P87	SPA Site	1.9km from Section D	Chichester and Langstone Harbours
P61C	Low Use Site	2km from Section D	Chichester and Langstone Harbours
P49	Secondary Support Area	1.4km from Section E	Portsmouth Harbour
P96	SPA Site	1.6km from Section E	Portsmouth Harbour
P94	SPA Site	1.7km from Section E	Portsmouth Harbour
P68	SPA Site	1.8km from Section E	Portsmouth Harbour

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Solent Wader and Brent Goose Strategy Site Name	Site use	Distance from the Order Limits	Associated SPA
P67	Primary Support Area	1.9km from Section E	Portsmouth Harbour
P138	Candidate Site	1.9km from Section E	Portsmouth Harbour
W17	Low Use Site	748m from A334/Botley Road Section J of the Order Limits	Solent and Southampton Water
W07	Primary Support Area	1.3km from A334/Botley Road Section J of the Order Limits	Solent and Southampton Water
E20	Secondary Support Area	1.8km from A334/Botley Road Section J of the Order Limits	Solent and Southampton Water
E19	Low Use Site	1.9km from A334/Botley Road Section J of the Order Limits	Solent and Southampton Water
W19	Low Use Site	1.9km from A334/Botley Road Section J of the Order Limits	Solent and Southampton Water

Annex D Non-statutory designated sites located from 250m to 2km of the Order Limits

Site name	Distance from the Order Limits	Criteria
Southmoor - Big Field (south edge) SINC	307m from Budds Farm WTW	4Aii
Wade Court Park SINC	964m from Budds Farm WTW	6B/6C
Langstone Mill Pond SINC	1.1km from Budds Farm WTW	4A/5B/6A
Hayling Billy Line SINC	1.5km from Budds Farm WTW	6A
Pyecroft's Meadow SINC	1.6km from Budds Farm WTW	2B/4A/6A
Battins Copse SINC	1.5km from Meyrick Road and West Street	1B
Great Copse, Havant SINC	2km from Meyrick Road and West Street	1A
Littlepark Wood (East) SINC	630m from Brookside Road/Bedhampton Road junction	1A/1Cii
St Faith's Churchyard SINC	802m from the Section B of the Order Limits	2B/7A
Littlepark Wood (West) SINC	987m from Meyrick Road and West	1A/1Cii/6A
Neville's Park Areas 4-10 SINC	1.2km from Brookside Road/Bedhampton Road junction	1B/1Cii/2A/2D
Meadow Adjacent to Johnston's Copse SINC	1.4km from Brookside Road/Bedhampton Road junction	1A/1B/2B/5B/6A
Hulbert Road Meadow SINC	1.4km from Brookside Road/Bedhampton Road junction	2D/5B
Purbrook Park Wood SINC	410m from Section D	1A
London Road Fen SINC	697m from Section D	1Cii/5B
Farlington Marshes SINC	723m from Section D	2B/4Ai/4Aii/6A/6C
Sandy Dell SINC	833m from Section D	1A
Gundymoor Wood (Main) SINC	1.2km from Section D	1A
Gundymoor Wood (West) SINC	1.2km from Section D	1A/1Cii
Adjacent to Farlington Playing Fields SINC	1.3km from Section D	2D/4A/6A
Johnston's Coppice SINC	1.4km from Section D	1A/1B/6A
Marrelsmoor Coppice SINC	1.4km from Section D	1A/6A
Newlease Copse, Havant SINC	1.8km from Section D	1A
Hilsea Lines SINC	1.9km from Section D	2B/4A/5A/6A/7A

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Site name	Distance from the Order Limits	Criteria
Railway Line Field SINC	380m from A334/Botley Road Section J	2D
Wangfield Copse SINC	406m from A334/Botley Road Section J	1A
The Glebe Field SINC	541m from A334/Botley Road Section J	2A/6A
Sherecroft Farm Meadow SINC	543m from A334/Botley Road Section J	5B/6A
Botley Mill Woodland SINC	586m from A334/Botley Road Section J	1Cii
Outlands Copse and Meadow SINC	609m from A334/Botley Road Section J	1A/2B/6A
Meadow West of Wangfield Copse SINC	821m from A334/Botley Road Section J	2A/5B
Marshy Grassland, Botley SINC	841m from A334/Botley Road Section J	5B
Trullmill and Pinkmead Copses SINC	911m from A334/Botley Road Section J	1A
Newhouse Farm Woodland and Swamp SINC	928m from A334/Botley Road Section J	1Cii/5B
Holly Tree Farm Wood SINC	991m from A334/Botley Road Section J	1A/1Cii
Holly Tree Farm Meadow SINC	1.1km from A334/Botley Road Section J	2B/5B
Pudbrook Lake SINC	1.1km from A334/Botley Road Section J	1B/8A
Maddoxford Farm Meadows SINC	1.2km from A334/Botley Road Section J	5B
Landing Place Copse SINC	1.2km from A334/Botley Road Section J	1A
Church Lane Meadows SINC	1.4km from A334/Botley Road Section J	1Cii/2B/5B
Barn Farm Stream and Woodland SINC	1.6km from A334/Botley Road Section J	1A
Woodhouse Gully Wood SINC	1.7km from A334/Botley Road Section J	1A/1Cii
Botley Golf Course Wood SINC	1.7km from A334/Botley Road Section J	1A/1Cii
Gould Copse SINC	1.8km from A334/Botley Road Section J	1A/1B
Manor Farm Meadows (Central Field) SINC	1.9km from A334/Botley Road Section J	5B
Suttons Copse SINC	1.9km from A334/Botley Road Section J	1A
Botley Park Wood SINC	1.9km from A334/Botley Road Section J	1A
Pitymoor Lane Wood SINC	258m from Section E	1A
Crooked Walk Meadow SINC	287m from Section E	2D
Stroud Coppice Field SINC	311m from Section E	2D
Pinsley Complex SINC	342m from Section E	1A
Dell Row SINC	345m from Section E	1A
James Callaghan Drive SINC	351m from Section E	2A/6A

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Site name	Distance from the Order Limits	Criteria
James Callaghan Drive RVEI	351m from Section E	Chalk Flora
Fort Southwick Ramparts SINC	405m from Section E	2A
Great Breach Row SINC	432m from Section E	1A
Perrige's Coppice SINC	447m from Section E	1A
Hookheath Scrubs SINC	469m from Section E	1A/1Cii
Paulsgrove Chalk Pit SINC	472m from Section E	2Aiii/2B/6A
Hookheath Meadows (G3-G7) SINC	475m from Section E	1Cii/2B/5B
Fort Nelson SINC	477m from Section E	2Aiii/2B
Pitymoor Coppice SINC	484m from Section E	1A
Pigeonhouse Row SINC	486m from Section E	1A
Sandy and Aldermoor Coppices SINC	504m from Section E	1A
Mill Farm Woodland SINC	508m from Section E	1A/1Cii
Broomground Coppice/Potwell Coppice SINC	527m from Section E	1A/1B/1Cii/6A
Widley Walk Meadow SINC	543m from Section E	2A
Fort Southwick Ramparts SINC	553m from Section E	2A
Ashleydown Coppice SINC	573m from Section E	1B
Aldermoor Meadow Part SINC	680m from Section E	5B
Southwick Meadow SINC	691m from Section E	2D
Venables Coppice SINC	700m from Section E	1A
Dirtystile Coppice SINC	736m from Section E	1A
High Tor SINC	739m from Section E	2B
Woodland Strip East of Dirtystile Coppice SINC	773m from Section E	1A
Hookheath Alders SINC	787m from Section E	1B/1Cii
Skew Road Meadow SINC	794m from Section E	2A
Fort Nelson Picnic Site SINC	802m from Section E	2A/6A
Broomfield House Copse SINC	821m from Section E	1A
Grub Coppice/Mill Coppice SINC	829m from Section E	1A/1B
Down End Road Verge SINC	869m from Section E	2B

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Site name	Distance from the Order Limits	Criteria
C371 Down End Road, Fareham SINC and RVEI	869m from Section E	Chalk Flora
Skew Road and Nelson Lane Verges SINC	885m from Section E	2A/6A
U493 Nelson Lane, Portchester RVEI	885m from Section E	Chalk Flora
Sawyers Wood SINC	892m from Section E	1B
Ham Coppice SINC	909m from Section E	1A
C372 Skew Road, Portchester RVEI	946m from Section E	Chalk Flora
Anson Grove SINC	1km from Section E	2A/6A
Mitchelland and Lovelocks 55 SINC	1km from Section E	2B/5B
Drivetts Complex SINC	1km from Section E	1A
Hill Road Paddock SINC	1km from Section E	2B
Comhouse Moor Coppice SINC	1.1km from Section E	1A
Purbrook Heath SINC	1.1km from Section E	2A/6A
Castle Farm Meadow SINC	1.1km from Section E	5Bi/5Biii
Commanders Field, Hms Dryad SINC	1.2km from Section E	2D
Alsfordmoor Coppice SINC	1.2km from Section E	1B/1Cii/6A
B2177 Southwick Road 3 RVEI	1.3km from Section E	Lowland Meadow/Marsh Flora
Opposite Carmans Copse SINC	1.4km from Section E	1A
Walton Heath/Ashlands/Staplecross SINC	1.5km from Section E	1B
Littlehunts Coppice Meadow SINC	1.5km from Section E	2B
Marrelsmoor Row SINC	1.5km from Section E	1A
B2177 Southwick Road 2 RVEI	1.5km from Section E	Chalk Flora
Place Wood and Little Belney Copse SINC	1.6km from Section E	1B
Hobern Coppice SINC	1.6km from Section E	1B
Carmans Copse SINC	1.6km from Section E	1A
Walton Pond Meadow SINC	1.6km from Section E	2D
Mitchelland and Lovelocks 52 SINC	1.6km from Section E	5Biii
Assell's Meadow SINC	1.7km from Section E	2B/5Biii
Newlands Row and Plant Row SINC	1.7km from Section E	1A/6A

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Site name	Distance from the Order Limits	Criteria
Newlands Farm Meadow SINC	1.7km from Section E	2B
Mitchelland Meadow SINC	1.8km from Section E	5Biii
Assells Copse SINC	1.8km from Section E	1A
Sheepwash/tattle/Dunsland Coppices SINC	1.9km from Section E	1A/6A
East of Lakeside SINC	1.9km from Section E	4A
B2177 Southwick Road 1 RVEI	2km from Section E	Lowland Meadow/Marsh Flora
B2177 Southwick Road 1 SINC	2km from Section E	2B
Homerhill Copse and The Hanger SINC	299m from Section F	1A
Moor Coppice SINC	587m from Section F	1A
Pigeonhouse Coppice SINC	756m from Section F	1A
Birching Copse SINC	778m from Section F	1A
Gravelhole Copse (South-West) SINC	836m from Section F	1A
Gravelhole Copse SINC	953m from Section F	1A
Orchard Copse, Boarhunt SINC	995m from Section F	1A/6A
Wallington Meadow SINC	1.1km from Section F	2D/7A
Buck's Copse SINC	1.2km from Section F	1A
Fareham Common SINC	1.5km from Section F	2B
Pond at 9 Kiln Road SINC	1.7km from Section F	6A
Wallington Way SINC	1.7km from Section F	4A/6A
Great Beamond Coppice SINC	1.9km from Section F	1A
Funtley Triangle SINC	1.9km from Section F	2B/6A
Wickham Common SINC	271m from Section G	1Cii/1D/2B/3A
Martin's Copse SINC	286m from Section G	1A
P203 Mayles Lane RVEI	344m from Section G	Woodland Flora
Knowle Copse/Dash Wood/Ravens Wood SINC	344m from Section G	1A/6A
New Copse, Wickham SINC	447m from Section G	1A
Birch Row and Hangmans Copse SINC	449m from Section G	1B
Quob Copse SINC	659m from Section G	1B
Brook Wood, Shedfield SINC	683m from Section G	1A

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Site name	Distance from the Order Limits	Criteria
Round Copse South - Abandoned Field SINC	724m from Section G	1Cii
Ravenswood Row SINC	785m from Section G	1A
Blacklands Copse, Wickham SINC	824m from Section G	1A/1Cii
Rookesbury Park Plantation East SINC	838m from Section G	1B/6A
Little Brook Wood SINC	846m from Section G	1A
Alder Moor SINC	939m from Section G	1B/1Cii
Abandoned Field West of Birch Row SINC	947m from Section G	1Cii
Horse Wood SINC	1km from Section G	1A/1B/1Cii
Alder Gully SINC	1.1km from Section G	1A/1Cii
Honeycut Row SINC	1.2km from Section G	1A/1Cii
Cockshot Row SINC	1.2km from Section G	1A
Knowle Hospital Row SINC	1.3km from Section G	1A/1B/6A
Pond Close and New Meadows SINC	1.3km from Section G	2A
Biddenfield High Wood SINC	1.3km from Section G	1A/1B/1Cii
Hallcourt Wood SINC	1.4km from Section G	1A/1B
Gulley Copse, Shedfield SINC	1.4km from Section G	1Cii
Seven Acre and Maids Garden Copses SINC	1.5km from Section G	1A/1B/1Cii
Walers Close SINC	1.6km from Section G	1A
Park Cottages Copse SINC	1.7km from Section G	1B
Mansfield High Wood SINC	1.8km from Section G	1A/1B
Botley Row SINC	1.8km from Section G	1A
Little Forest SINC	1.9km from Section G	1A/1B/1Cii
Fox Copse SINC	1.9km from Section G	1A
Hole Copse and East Croft Row SINC	2km from Section G	1B/1Cii/2B/5B
Peatmoor, Shedfield SINC	381m from Section H	1Cii/5B
Wickham Station Woods SINC	514m from Section H	1A/1Cii
Meadow West of Deer Lodge SINC	521m from Section H	2D/5B
Meadow between Disused Railway and River Meon SINC	533m from Section H	1Cii/5B

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Site name	Distance from the Order Limits	Criteria
Wickham Meon Meadows SINC	612m from Section H	5A/5B
Close Wood (Central) SINC	657m from Section H	1B
Close Wood (South) SINC	714m from Section H	1B
Lodge Copse SINC	754m from Section H	1A
Close Wood (North) SINC	840m from Section H	1B
Rookesbury Park Plantation north-west SINC	841m from Section H	1B
Bishop's Wood SINC	914m from Section H	1A
West Walk SINC	965m from Section H	1B
Closewood Fen SINC	1.1km from Section H	5B
Bishop's Inclosure and Corner Copse SINC	1.2km from Section H	1A
Bishop's Inclosure Area 2 SINC	1.3km from Section H	1A
Bishop's Inclosure Area 1 SINC	1.3km from Section H	1A
Mislingford Meadow SINC	1.4km from Section H	5B
Huntage Copse SINC	2km from Section H	1A
Shedfield Churchyard SINC	421m from Section J	2B
Shedfield Primary School Grassland SINC	594m from Section J	2A
Shedfield Church Meadows SINC	629m from Section J	2A
Grange Copse SINC	740m from Section J	1A
Lyons Copse Long Meadow SINC	765m from Section J	2A
Lyons Copse SINC	829m from Section J	1A/6A
Gravel Hill Grasslands SINC	903m from Section J	2B/5B
Shedfield Wood (Bigg's Copse) SINC	917m from Section J	1A
Crooked Row SINC	1km from Section J	1A
Lyons Copse (North-west) SINC	1.1km from Section J	1A
Lyons Copse Meadows SINC	1.1km from Section J	2D
Great Gold Copse SINC	1.2km from Section J	1A
Triangle Row SINC	1.5km from Section J	1A
Brook Meadow SINC	1.5km from Section J	2B
New Road Meadow, Swanmore SINC	1.8km from Section J	2B

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Site name	Distance from the Order Limits	Criteria
Belmont Meadow SINC	1.9km from Section J	2B
Suett's Farm Meadow SINC	2km from Section J	2B
Silford Copse SINC	2km from Section J	1A/1B/1Cii/2B/5B
Pumping Station Meadow SINC	2km from Section J	2A/6A
St. Peter's Churchyard, Curdridge SINC	2km from Section J	2B
Ferny Copse SINC	2km from Section J	1B
Alexander's Moors SINC	2km from Section J	2A
Redlands Copse SINC	416m from Section K	1A
Deorlye Wood (Gunner's/Brokes Copses) SINC	534m from Section K	1A
Albany Farm, Bishop's Waltham SINC	561m from Section K	2D
Railway Copse SINC	580m from Section K	1A/1B
Calcot Row SINC	590m from Section K	1A
Foxburrow Copse SINC	607m from Section K	1A
Parker's Copse/Fir Plantation/Greenwood SINC	766m from Section K	1B
Barnhurst Meadow SINC	809m from Section K	2A/5B
Upham Farm Wood West SINC	963m from Section K	1B
Slappinrail Copse SINC	963m from Section K	1A
Moplands Copse SINC	993m from Section K	1A
Claylands SINC	1km from Section K	2A/6A
Lower Claylands Meadow SINC	1.1km from Section K	2A/6A
Claylands Field North SINC	1.1km from Section K	2B
Upham Farm Wood East SINC	1.2km from Section K	1B
Upper Pond, Bishop's Waltham SINC	1.2km from Section K	5B
Peak/west/Blackmans Copses SINC	1.2km from Section K	1A
Calcot Farm Meadow 3 SINC	1.2km from Section K	2D
Brokes Gully South SINC	1.3km from Section K	1A
Calcot Plantation SINC	1.5km from Section K	1B/1D
Land at Knowle Lane, Fair Oak SINC	1.5km from Section K	2B
Mount Folly Copse (1) SINC	1.6km from Section K	1B/1D

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Site name	Distance from the Order Limits	Criteria
Little Gold Copse SINC	1.6km from Section K	1Cii
Durley Copse SINC	1.6km from Section K	1B
Mount Folly Copse (2) SINC	1.7km from Section K	1A/1D
Durley Mill Copse SINC	1.8km from Section K	1A
Deeps Copse/Deeps Bushes Copse SINC	287m from Section L	1A
Colden Common Wood and Blacknells Copse SINC	314m from Section L	1A
Upham Copse SINC	342m from Section L	1A
Crowdhill Copse SINC	414m from Section L	1A/1B
Finches Copse SINC	483m from Section L	1A
Stroud Wood, Fair Oak and Horton Heath SINC	494m from Section L	1A/1B
Blacknell's Copse Paddock SINC	503m from Section L	2A
Church of The Holy Trinity SINC	610m from Section L	2A
Blacknells Brickworks SINC	659m from Section L	2B
Tippers Copse SINC	667m from Section L	1A
Brick Kiln Copse, Bishopstoke SINC	685m from Section L	1A
Breach Sling Copse and Stoke Common Copse SINC	690m from Section L	1A/1B/1Cii
Cowleaze Copse, Colden Common SINC	697m from Section L	1A
Hardings Lane Wooded Bank SINC	725m from Section L	1A
Colden Common Meadow and Woodland SINC	761m from Section L	2D
Poplar Plantation (Stoke Park Wood) SINC	802m from Section L	1A/1Cii
Judges Gully Copse SINC	809m from Section L	1B/1Cii
Hall Lands Copse SINC	849m from Section L	1A
Cawtes Copse SINC	863m from Section L	1A
Temple Usk Meadow SINC	896m from Section L	2A/5B/6A
Hurst Wood/Pound Copse SINC	921m from Section L	1A
Breach Farm Meadows SINC	928m from Section L	5B/6A
Stoke Park Wood SINC	931m from Section L	1B/1Cii

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Site name	Distance from the Order Limits	Criteria
Park Copse, Colden Common SINC	940m from Section L	1A/1B
Judges Gully Meadow SINC	952m from Section L	2B
Hall Lands Farm Wood SINC	967m from Section L	1A
Sladfords and Leybushes Copses SINC	994m from Section L	1A/6A
Durnford's Yard Meadow SINC	997m from Section L	2B/5B
Bushy Copse, Upham SINC	1km from Section L	1A
Ham Farm Meadow SINC	1km from Section L	2A/5B
Taylor's Copse SINC	1km from Section L	1A
Moreland's Copse SINC	1.1km from Section L	1A
Gore Copse SINC	1.2km from Section L	1A
Meadow between Railway and River Itchen (Winchester) SINC	1.3km from Section L	5B
Breach and Gully Copses SINC	1.3km from Section L	1A/1B/1Cii
Meadow between Railway and River Itchen (Eastleigh) SINC	1.3km from Section L	5B
Horsham Copse/West Copse SINC	1.3km from Section L	1B
Knowle Lane Open Space SINC	1.4km from Section L	7A
Water Lane, Owslebury SINC	1.7km from Section L	1A
Otter Copse SINC	1.7km from Section L	1A
Buldean Copse and The Rookery SINC	1.7km from Section L	1A
Austin's Copse, Owslebury SINC	1.8km from Section L	1A
Knowlehill Copse SINC	1.8km from Section L	1A
Rowhay Wood SINC	1.9km from Section L	1A
Great and Little Coney Park Woods SINC	2km from Section L	1A
Boyes' Copse SINC	2km from Section L	1A
Park Lane Footpath Allbrook SINC	432m from Section M	1A
Meadows at Allbrook SINC	440m from Section M	2D
The Malms Down SINC	475m from Section M	2D
Pitmore Copse/Pitmore Gulley Copse SINC	609m from Section M	1A

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Site name	Distance from the Order Limits	Criteria
Lincolns Copse SINC	649m from Section M	1A
Shawford Down SINC	809m from Section M	2B/6A
Pitmore Copse (West) SINC	849m from Section M	1B
Allbrook Clay Pit SINC	861m from Section M	2D/5A
B3354/B335 Main Road RVEI	1.1km from Section M	Lowland Meadow/Marsh Flora
Allbrook Hill Copse SINC	1.2km from Section M	1A
Wells Row SINC	1.2km from Section M	1A
Boyatt Wood, Eastleigh SINC	1.4km from Section M	1A/1B/1Cii
Boyatt Wood - Bosville Extension SINC	1.6km from Section M	1Cii
Warners Farm Down SINC	1.7km from Section M	2A
The Lakes, Hiltingbury SINC	1.7km from Section M	1A/1B/6A
Twyford Mead Meadow SINC	1.9km from Section M	5B/6A
The Warren, Havant SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Oaklands Woodland SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Wakefords Copse, Havant SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Waterlooville Golf Course (North) SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Beech Wood East SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Outhurst/Inhurst/Beech Woods SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Cherry Tree Row SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
The Queen's Inclosure SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Hurst Wood, Havant SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Neville's Park Areas 2 and 3 SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A

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Site name	Distance from the Order Limits	Criteria
Hazleton Wood SI NC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Hazelton Common SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Redcroft Row (Keydell Nurseries) SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
The Holt Motte and Bailey Only SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Dell Piece Gully SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Barton's Copse and The Slip SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Southleigh Forest SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Neville's Park East Wood SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Neville's Park West Wood SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Stakes Coppice Remnant 7 SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Cherry Row SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Havant Road Woodland Strip SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Dell Piece West SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Stakes Coppice Remnant 5 SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Stakes Coppice Remnant 4 SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Frank's Coppice SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Park Wood, Havant SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.1 Designated sites

Site name	Distance from the Order Limits	Criteria
Longwood (Idlewood) SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Stakes Coppice Remnant 6 SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Wick Hanger SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Southleigh Forest (South) SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Wecock Wood SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A
Bushy Lease SINC	Excluded from assessment, as within 2km of Havant Thicket Reservoir, existing infrastructure.	N/A

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from
Southern
Water. 

The Southern Water logo graphic consists of three white, stylized wavy lines that resemble water waves, positioned to the right of the word "Water".