



# The Sizewell C Project

Volume 1 Introduction to the Environmental Statement

6.1 Chapter 2 Overview of the Sizewell C Project

Appendix 2A - Sizewell B Relocated Facilities Environmental Statement

Part 4 of 4

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VOLUME II:  
TECHNICAL APPENDICES

# 14.2 Water Framework Directive Compliance Assessment

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# 1. INTRODUCTION

- 1.1.1 EDF Energy Nuclear Generation Limited, herein referred to as 'EDF Energy (NGL)', is seeking planning permission from East Suffolk Council (ESC) for the demolition and relocation of a number of existing facilities at Sizewell B nuclear power station (known as the Sizewell B Relocated Facilities Project and herein referred to as the 'Proposed Development'). The facilities that would be relocated, demolished or replaced are ancillary to the process of electricity generation and have a broad range of functions.
- 1.1.2 On the 1st April 2019, ESC was created, covering the former districts of Suffolk Coastal District Council (SCDC) and Waveney District Council (WDC). As such, all the pre application consultation and engagement which has taken place to date with the local planning authority was carried out with SCDC and is therefore referred to as such within the documentation submitted with the planning application for the Proposed Development.
- 1.1.3 This report provides the results of the compliance assessment for the Proposed Development with the requirements of the Water Framework Directive (WFD).
- 1.1.4 The existing facilities buildings to be replaced are currently sited to the north and west of the existing Sizewell B power station site. These include existing buildings such as the Outage Storage, Training Centre and Visitor Centre, and car parking facilities. A brief description of the Proposed Development is provided in **Section 3.2** of this report.
- 1.1.5 This assessment will consider the potential for adverse effects upon surface and groundwater bodies to occur during the construction and operational phases of the Proposed Development. The assessment will consider the potential for impacts on all the quality elements associated with these water bodies (e.g. hydromorphology, physico-chemistry and biology for surface waters and quality and quantity for groundwaters). Further details regarding the approach adopted for this assessment are provided in **Section 0** of this report.

## 1.2 Objectives of the assessment

- 1.2.1 The objectives of the assessment were to:
- identify water bodies that could potentially be affected by the proposed works;
  - assess potential impacts on water body status resulting from the scheme; and
  - determine the compliance of the Proposed Development with the requirements of the WFD.

## 1.3 Legislative background

### a) The Water Framework Directive

- 1.3.1 The Water Framework Directive (Council Directive 2000/60/EC establishing a framework for community action in the field of water policy) was adopted by the European Commission in December 2000 [1]. The WFD requires that all EU Member States must prevent deterioration and protect and enhance the status of aquatic ecosystems. This means that Member States must ensure that new schemes do not adversely impact upon the status of aquatic ecosystems, and that historical modifications that are already impacting it need to be addressed.
- 1.3.2 Unlike the EU Birds and Habitats Directives (EC Directive on the Conservation of Wild Birds (2009/147/EC) [2] and EC Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora (92/43/EEC) [3], respectively), which apply only to designated sites, the WFD applies to all water bodies, including those that are man-made.
- 1.3.3 There are two separate classifications for surface water bodies (rivers, lakes, estuaries and coastal waters); ecological and chemical. The ecological status of a surface water body is assessed according to the condition of the:
- biological quality elements, including fish, benthic invertebrates and aquatic flora;
  - physico-chemical quality elements, including thermal conditions, salinity, pH, nutrient concentrations and concentrations of specific pollutants such as copper; and
  - hydromorphological quality elements, including morphological conditions, hydrological regime and tidal regime.
- 1.3.4 The ecological status of surface waters is recorded on a scale of “high”, “good”, “moderate”, “poor” and “bad”. The ecological status of a water body is determined by the worst scoring quality element, which means that the condition of a single quality element can cause a water body to fail to reach its WFD classification objectives. The overall environmental objective of reaching Good Ecological Status (GES) applies to these water bodies.
- 1.3.5 The chemical status of surface waters is assessed by compliance with environmental standards that are listed in the Environmental Quality Standards Directive (2008/105/EC) [4]. These chemicals include priority substances, priority hazardous substances. Chemical status is recorded as either “good” or “fail”, and is determined by the lowest scoring chemical.
- 1.3.6 Where the hydromorphology of a surface water body has been significantly altered as a result of anthropogenic activities, it can be designated as an Artificial or Heavily Modified Water Body (A/HMWB). An alternative environmental objective, Good Ecological Potential (GEP), applies in these cases.

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1.3.7 Groundwaters are assessed in a different way to surface waters, and are classified as either “good” or “poor” in terms of quantity (groundwater levels, flow directions) and chemical quality (pollutant concentrations and conductivity).

### **b) UK legislation**

1.3.8 The Directive was transposed into law in England and Wales by the Water Environment (Water Framework Directive) (England and Wales) Regulations 2003 [5], which mean that the requirements of the WFD need to be considered at all stages of the planning and development process.

1.3.9 The standards used to determine the ecological or chemical status of a water body are listed in the Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015 [6]. This includes the thresholds for determining the status of the biological, hydromorphological, physico-chemical and chemical status of surface water bodies, and the quantitative and chemical status of groundwater bodies.

## 2. METHOD

### 2.1 Overall approach to the WFD compliance assessment

2.1.1 The way in which WFD impacts are assessed is different to the approach conventionally used within the Environmental Impact Assessment (EIA) process. The standard EIA approach assesses whether an impact is minor, moderate or major, and whether it is beneficial or adverse. This is not compatible with the requirements of the WFD, which requires an assessment of whether a scheme (or element of a scheme) is compliant or non-compliant with the environmental objectives of the Directive, as outlined in **Table 2.1**.

Table 2.1: Environmental objectives in the WFD

Objectives (taken from Article 4 of the WFD)	Reference Article
<b>Surface water</b>	
Member States shall implement the necessary measures to prevent deterioration of the status of all bodies of surface water.	4.1(a)(i)
Member States shall protect, enhance and restore all bodies of surface water, subject to the application of subparagraph (iii) for artificial and heavily modified bodies of water, with the aim of achieving good surface water status by 2015.	4.1(a)(ii)
<b>Heavily Modified and Artificial Water Bodies</b>	
Member States shall protect and enhance all artificial and heavily modified bodies of water, with the aim of achieving good ecological potential and good surface water chemical status by 2015.	4.1(a)(iii)
Progressively reduce pollution from priority substances and cease or phase out emissions, discharges and losses of priority hazardous substances.	4.1(a)(iv)
<b>Groundwater</b>	
Prevent Deterioration in status and prevent or limit input of pollutants to groundwater (Daughter Directive).	4.1(b)(i)

2.1.2 There is no detailed published methodology for the assessment of plans or projects in relation to undertaking WFD compliance assessments across all types of water bodies. There are, however, several sets of guidance that have been developed to support these assessments in the different water body types, predominantly written by the Environment Agency. The following are considered to be the most relevant to the Proposed Development:

- Advice Note 18: The WFD [7], which provides an overview of the WFD and provides an outline methodology for considering WFD as part of the Development Consent Order (DCO) process;

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- WFD risk assessment: How to assess the risk of your activity [8], which provides guidance for bodies planning to undertake activities that would require a flood risk activity permit; and
- protecting and improving the water environment: WFD compliance of physical works in rivers [9] and associated supplementary guidance [10], which provides more detailed guidance for assessing WFD compliance of various activities in river water bodies.

2.1.3 For the purposes of this assessment, the broad methodologies outlined in the guidance documents listed above have been brought together to develop a three-stage assessment methodology that can be used for all types of water bodies. These stages are described in more detail in the subsequent sections.

## 2.2 Stage 1: Screening assessment

2.2.1 Water bodies that could potentially be affected by the scheme were identified using the Environment Agency's online WFD mapping system (the "Catchment Data Explorer" tool) [11], which supports the Anglian River Basin Management Plan (RBMP) [12]. Water bodies were selected for consideration in the compliance assessment based on the following criteria:

- all surface water bodies that could potentially be directly impacted by the scheme (i.e. those within the scheme footprint);
- any surface water bodies that have direct connectivity (i.e. upstream and downstream) that could potentially be affected by the proposed works; and
- any groundwater bodies that underlie the Proposed Development.

2.2.2 To facilitate this identification process and in particular to inform the decision on whether connectivity might lead to impacts, a hydromorphological assessment of the potential impacts of the scheme and potential extent of upstream and downstream propagation has been made, using the Joint Defra/Environment Agency Flood and Coastal Erosion Risk Management R&D Programme (2009) Expert Assessment Framework [13] as a basis.

## 2.3 Stage 2: Scoping assessment

2.3.1 The scoping assessment determines whether there is the potential for the individual activities to cause deterioration in the status or potential of any of the water bodies identified during Stage 1, and whether there is potential to cause a failure to meet GES or GEP targets for these water bodies (cf. **Table 2.1**). The scoping assessment considered:

- the potential of each activity to adversely impact on any of the quality elements sufficient to cause deterioration in water body status. This assessment was based on expert judgement, informed by available data and, in the case of hydromorphological impacts, using the guidance included in the Flood and Coastal Erosion Risk Management R&D Programme Expert Assessment Framework (DEFRA/EA, 2009) [13]. It was broken down into the potential impact of the various scheme

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components on each quality element so that any areas of potential impact could be clearly identified;

- the potential for the scheme to impact upon proposed WFD mitigation measures and improvements, and therefore prevent GES or GEP being achieved;
- the potential for cumulative impacts as a result of existing pressures, new or recent schemes in the area, and any planned schemes. These are discussed in the separate cumulative impact assessment for the proposed Sizewell B development (see **ES Volume I, Chapter 16: Cumulative Effects**); and
- the potential for impacts on critical and sensitive habitats, including designated sites and habitats with particular ecological importance.

2.3.2 Water bodies and activities can be screened out of further assessment if it can be satisfactorily demonstrated that there will be no impacts. If impacts are predicted, it will be necessary to undertake a Stage 3 detailed compliance assessment. If no impacts are predicted, the assessment will be completed at the end of Stage 2.

## 2.4 Stage 3: Detailed compliance assessment

2.4.1 The Stage 3 assessment determines whether the activities and/or project components that have been put forward from the Stage 2 scoping assessment will cause deterioration and whether this deterioration will have a significant non-temporary effect on the status of one or more WFD quality elements at water body level. For priority substances, the process requires the assessment to consider whether the activity is likely to cause the quality element to achieve good chemical status. Note that this stage is referred to as a WFD Impact Assessment in the Planning Inspectorate (2017) guidance [7].

2.4.2 If it is established that an activity and/or scheme component is likely to affect water status at water body level (that is, by causing deterioration in status or by preventing achievement of WFD objectives (including those for Protected Areas) and the implementation of mitigation measures for HMWBs), or that an opportunity may exist to contribute to improving status at a water body level, potential measures to avoid the effect or achieve improvement must be investigated. This stage will consider such measures and, where necessary, evaluate them in terms of cost and proportionality.

2.4.3 As outlined above, the end result of Stage 2 would be an agreed list of water bodies, scheme activities and quality elements to be carried forward for further assessment. Stage 3 would then consider the potential for status deterioration associated with each scheme activity (i.e. not the scheme as a whole) on the biological, hydromorphological and physico-chemical and chemical quality elements of each relevant surface water body, and the quantitative and chemical quality elements of each relevant groundwater body.

- 2.4.4 The assessment would establish whether the scheme activities will:
- cause deterioration within a water body;
  - prevent WFD status objectives (i.e. GES or GEP) being achieved, including prevention of the delivery of mitigation measures identified in the RBMP; and/or
  - prevent status objectives being achieved in any other water bodies, including prevention of the delivery of mitigation measures identified in the RBMP.
- 2.4.5 Following the broad principles of the WFD, the scheme will be considered to be non-compliant if any of the scheme components are likely to cause a non-temporary deterioration in any of the quality elements individually or cumulatively at a water body level.
- 2.4.6 Impacts of the scheme on other European legislation, including the Habitats Directive [3], Birds Directive [2], Bathing Waters Directive [14] and Freshwater Fish Directive [15] will also be considered in line with Articles 4.8 and 4.9 of the WFD. Where necessary, reference will be made to supporting information contained in the relevant ES chapters, and in the case of Natura 2000 protected areas, the **Shadow Habitat Regulations Assessment (HRA)**, both of which are submitted alongside the planning application.
- 2.4.7 If, at the end of the Stage 3 assessment process, negative impacts have been identified, measures to mitigate the impacts and, if possible, to improve the state of the water environment would be considered. Where possible, multiple benefits will be sought from each measure (e.g. across different water bodies or improving more than one quality element). Appropriate guidance will be consulted, such as the online “Healthy Catchments” guidance [16] and “Estuary Edges: Ecological Design Guidance” [17]. The scope of all measures will be agreed in consultation with the appropriate regulatory authorities.

## 2.5 Assumptions, constraints and limitations

- 2.5.1 The following assumptions have been made in this assessment:
- control measures to mitigate impacts on demolition, construction and operational stage will be part of the design. These are described in **Section 3.2d**).

## 3. STAGE 1: SCREENING ASSESSMENT

### 3.1 Purpose of this section

3.1.1 The purpose of this section is to describe the baseline characteristics of the WFD receptors that are hydraulically connected to the Proposed Development site, against which potential impacts on WFD compliance will be assessed. The section includes a description of the Proposed Development and provides a summary of the main characteristics of the water bodies that could be impacted by development activities at the Proposed Development site.

### 3.2 Description of Proposed Development

#### a) Overview

3.2.1 Sizewell B power station is situated on the Suffolk coast, north-east of Ipswich and south of Lowestoft. A number of existing Sizewell B facilities need to be relocated from the area of land that is nominated as a potentially suitable site for the development of the new Sizewell C power station. The facilities have a broad range of functions including industrial, workplace, education, cultural and infrastructure.

3.2.2 **Environmental Statement (ES) Volume I, Chapter 3 Proposed Development** contains a full description of the works of the Proposed Development.

#### b) Construction

3.2.3 The Proposed Development would take place in two distinct phases. Phase One will include the majority of the construction works outside the existing Sizewell B power station site perimeter, including the relocation of the Outage Storage within the Sizewell B power station and the demolition of the existing Visitor Centre, operations training building, Outage Storage and civils workshop and store. Phase Two will include the remaining construction and demolition works within the existing Sizewell B station site perimeter as well as the relocation of the Visitor Centre.

3.2.4 The proposed works in Phase One would comprise:

- Coronation Wood clearance;
- Coronation Wood Development Area construction, including the construction of the Western Access Road, Training Centre, Laydown Area and Replacement Car Park;
- Outage Store construction, following demolition of the existing General Store; in which the excavation of the basement will broach the groundwater table;
- temporary relocation of the existing Visitor Centre within the existing Technical Training Centre;

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- construction of Outage Car Park and associated access; and
- demolition of the existing Visitor Centre, Operations Training Centre, Outage Store and Civils Workshop and Store.

3.2.5 The proposed works in Phase Two would comprise:

- construction of facilities in Outline Development Zone (offices, canteen and welfare facilities);
- construction of a new Visitor Centre; and
- remaining demolition works.

3.2.6 The proposed works in Phase Two would provide for the relocation of the administration, storage, welfare and canteen facilities within the Outline Development Zone. Foundations for the Outline Development Zone would likely include ground bearing solutions. However, should the development of geotechnical design or a particular facility design require it, piled foundations could also be considered as an alternative.

### c) Operation

3.2.7 Operating regimes and activities associated with the new facilities will be the same as the existing facilities displaced.

3.2.8 It is proposed that surface water run-off from the facilities within the Coronation Wood Development Area (Training Centre, Visitor Centre, Laydown Area, Replacement Car Park and Western Access Road) would drain through infiltration techniques, such as heavy duty permeable block paving. Surface water run-off from the Outage Car Park within Pillbox Field would also drain through infiltration techniques. This philosophy will ensure no additional impervious areas are added to the existing side wide drainage network.

### d) Control measures to minimise impacts

3.2.9 As detailed in the ES, a number of control measures have been incorporated into the design and construction planning of the Proposed Development. As these mitigation measures are embedded in the design, are legal requirements or are standard practices that will be implemented, the assessment of effects assumes that they are in place. The mitigation measures that are relevant for the WFD compliance assessment are outlined below.

#### i. Measures to control impacts associated with site drainage

3.2.10 The Sizewell B Relocated Facilities Surface Water Drainage Strategy [18], which covers the entire area to be redeveloped, has been developed in such a way that the surface water run-off volumes and rates discharging into the existing drainage network will not change significantly and therefore alterations to increase capacity are not required.

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- 3.2.11 The existing on-site surface water drainage network comprises a northern and southern branch, with both branches draining to the main site surface water outfall to sea to the north-east.
- 3.2.12 Assets within the station perimeter will drain into the southern branch of the existing piped drainage network, with any exceedance flows addressed through overland flow. Assets located outside the station perimeter will be independent of the existing site drainage system, and will instead drain by infiltration.
- 3.2.13 The drainage system will intercept and retain the first 5mm of every rainfall event as far as reasonably practicable, which is important in the retention of fine sediment and pollutants from impermeable areas. Furthermore, the drainage system will incorporate Sustainable Drainage (SuDS) measures such as permeable paving, swales and interceptors for silt and hydrocarbons where appropriate. In areas where space is constrained, catch pits and trapped outfalls will be used (e.g. adjacent to the new Outage Storage).
- 3.2.14 **Table 3.1** demonstrates the proposed drainage solution for each aspect of the Proposed Development, and the net change in permeable area associated with each of the relocated facilities.

Table 3.1: Surface water runoff volume summary for all facilities

Facility	Proposed drainage solution
Outage Store	<p>Discharge into existing surface water drainage network. Channel drains may need to be incorporated in order to drain water away from foundations. Trapped outfalls and catch pits will be installed to trap debris and silt.</p> <p>The Proposed Development will not alter the balance between permeable and impermeable land, and will not therefore impose additional loading on the surface drainage system.</p>
Replacement Car Park and Laydown Area	<p>Infiltration techniques such as heavy duty permeable block paving and catch pit soakaways.</p> <p>The Proposed Development will not alter the amount of impermeable area contributing to the Site surface drainage network.</p>
Western Access Road	<p>Directing surface water into suitably located grilles, from where it will be conveyed into soakaway chambers and infiltrated to ground.</p> <p>The Proposed Development will not alter the amount of impermeable area contributing to the Site surface drainage network.</p>
Training Centre	<p>Directing surface water into soakaway chambers or permeable paving and infiltrated to ground.</p> <p>The Proposed Development will not alter the amount of impermeable area contributing to the Site surface drainage network.</p>

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Facility	Proposed drainage solution
Visitor Centre	Run-off to be conveyed from roofed and surrounding impermeable areas to the permeable paving proposed for the car park and Laydown Area. The overarching strategy for the surface water run-off associated with the Visitor Centre is infiltration. Infiltration rates would be no worse than for a greenfield site.
Outage Car Park	Infiltration techniques such as permeable paving. Runoff would be conveyed by channel drainage and below ground pipework to a soakaway below the proposed car park.

### ii. Measures to control impacts associated with construction activities

3.2.15 All construction phase activities would be undertaken in line with best working practices (Pollution Prevention Guidance (PPG)<sup>1</sup>), which would include:

- PPG01 – General guide to the prevention of water pollution [19];
- PPG05 – Works near or liable to affect watercourses [20];
- PPG06 – Working at construction and demolition sites [21];
- PPG08 – Storage and disposal of used oils [22];
- PPG11 – Preventing pollution at industrial sites [23];
- PPG21 – Pollution incident response planning [24]; and
- Control of water pollution from construction sites – A guide to good practice, CIRIA (2001) [25].

3.2.16 An **Outline Construction Environmental Management Plan (CEMP)** is included within the planning application for the Proposed Development. The Outline CEMP provides details of the measures that will be followed to ensure that surface runoff, sediment and other contaminants generated during the construction process do not enter the surface drainage network. Specific measures include:

- temporary connections will deal with incoming water supply onto site and discharges. Water from site, once treated, will run into the nearest sewer where possible;
- concrete washout will be in controlled areas to prevent groundwater contamination;
- wash down of vehicles will only take place in designated areas;
- a suitable settlement system will be implemented for all site water run-off and construction water used for washing and dampening down;

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<sup>1</sup> Note that the PPG series of documents have now been revoked in England, they still provide a source of best practice that should be adhered to where practicable.

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- all plant fuel stored on-site will be bunded to contain any spillage and will be secured when not in use. Spill kits will be available and any spillage will be disposed of in accordance with the current Hazardous Waste and Landfill Regulations;
- refuelling will only be allowed in designated, hardstanding areas and a minimum of 10m from a drain. Fuel systems will have automatic shut off 'pistol grip' nozzles;
- training will be given to site operatives via Tool Box Talks (TBTs) on water protection measures and oil and chemical control;
- hardstanding areas will be kept clean of silt and soils;
- washout water to be directed to sump for settlement;
- oil, fuel and chemicals will be stored in compliance with their COSHH assessment;
- oil storage containers (mobile bowers and drums) must be bunded (to 110%), and be located at least 10m away from watercourses or road gulleys and away from drainage systems. Furthermore, all pipework must be stored within the bund;
- mobile bowers must be lockable and be locked when not in use. They will also be double bunded;
- foul discharge from the contractor's site cabins/compound will endeavour to be tied into the nearest foul sewerage system where possible. Otherwise a self-contained chemical system will be provided; and
- wheel wash facilities will be fed from a mobile bowser.

### 3.3 Identification of WFD water bodies

- 3.3.1 **Figures 3.1** and **3.2** show the extent of the Site Boundary and the surface and groundwater bodies that could potentially be impacted by the proposals (identified using the criteria set out in **Section 2.2.1**).
- 3.3.2 There are two river water river bodies, a coastal water body and a groundwater body that are likely to be hydrologically connected to the Site. WFD classification details are provided in **Table 3.2** to **Table 3.5**.
- 3.3.3 Note that the information presented below is based on River Basin Management Plan 2 Class Objective Data presented on the Catchment Data Explorer [11] and the 'Cycle 2 Extended Water Body Summary Report' produced for each water body by the Environment Agency in 2016.

**a) Surface water bodies**

- 3.3.4 The land immediately to the west of the Site forms part of the catchment of the Leiston Beck<sup>2</sup> river water body (GB105035046271) (**Table 3.2**). The water body is designated as Heavily Modified for an ongoing land drainage function, and is currently at Moderate Ecological Potential as a result of pressures on hydromorphology and high phosphate concentrations. Sizewell Drain, which is located adjacent to the Proposed Development, forms part of the Leiston Beck water body for WFD classification purposes.
- 3.3.5 The Leiston Beck joins the Minsmere Old River water body (GB105035046270) (**Table 3.3**) downstream of the site. Minsmere Old River is a river water body that is Heavily Modified as a result of a current land drainage function. The water body is currently at Moderate Ecological Potential due to pressures on fish populations.
- 3.3.6 Both the Leiston Beck and Minsmere Old River water bodies drain into the sea through a surface water outfall to the north-east of the Site. Furthermore, drainage from the Sizewell B power station is channelled through an outfall into the sea. There could therefore potentially be indirect impacts on the Suffolk (GB650503520002) coastal water body (**Table 3.4**).
- 3.3.7 should impacts occur within the river water bodies or directly via the existing Sizewell B outfalls. The water body is Heavily Modified for flood and coastal protection, and is currently at Moderate Ecological Potential as a result of elevated concentrations of dissolved inorganic nitrogen.

**b) Groundwater bodies**

- 3.3.8 The whole Site is underlain by the Waveney and East Suffolk Chalk and Crag groundwater body (GB40501G400600) (**Table 3.5**). The groundwater body is currently at 'Poor Quantitative Status' as a result of an unfavourable water balance due to pressures from agricultural abstraction of groundwater and connected surface waters. Furthermore, the water body has a 'Poor Chemical Status' as a result of pressures from agricultural diffuse pollution (largely contaminants from grazing livestock, and therefore unrelated to the Proposed Development).

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<sup>2</sup> Note that although the watercourse is known locally as "Leiston Drain", it is referred to as "Leiston Beck" in the River Basin Management Plan.

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Table 3.2 Leiston Beck (GB105035046271)

<b>Water Body Details</b>	<b>Water body name</b>		Leiston Beck	
	<b>Water body ID</b>		GB105035046271	
	<b>Water body type</b>		River	
	<b>Management catchment</b>		Suffolk East	
	<b>Operational catchment</b>		Suffolk Coastal	
	<b>Hydromorphological designation</b>		Heavily Modified	
	<b>Sensitive habitats</b>		Nitrates Directive, Habitats and Species Directive, and Conservation of Wild Birds Directive	
	<b>Current Overall Status</b>		Moderate	
	<b>Ecological Status / Potential</b>		Good	
	<b>Chemical Status</b>		Moderate	
<b>Ecological</b>	<b>Quality elements</b>	<b>Elements</b>	<b>Classification</b>	<b>Objective</b>
	Biological	Overall	Good	Good
		Macrophytes	Not assessed	Not assessed
		Invertebrates	Good	Good
	Hydromorphological	Overall	Supports Good	Supports Good
		Hydrological Regime	Supports Good	Supports Good
	Physico-chemical	Overall	Moderate	Good
		Ammonia (Phys-Chem)	High	High
		Biochemical Oxygen Demand (BOD)	High	-
		Dissolved oxygen	Bad	Good
		pH	High	High
		Phosphate		
		Temperature	High	High
	Specific pollutants	Overall	Not assessed	Not assessed
	Supporting elements (Surface Water)	Overall	Moderate	Good
Mitigation Measures Assessment		Moderate or less	Good	
Chemical	Priority hazardous substances	Overall	Does not require assessment	Does not require assessment

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	Priority substances	Overall	Does not require assessment	Does not require assessment
	Other Pollutants	Overall	Does not require assessment	Does not require assessment
Mitigation Measures Assessment	Reasons for not achieving Good Status	Dissolved Oxygen: Waste water treatment – operational management (confirmed)		
		Mitigation Measures Assessment: Other (land drainage) (confirmed)		
		Phosphate: Waste water treatment – water industry (confirmed)		
Risks	At Risk	Abstraction & Flow, Physical modification		
	Not Assessed	Phosphorus		
	Not At Risk	Sediment		
	Probably At Risk	Abstraction & Flow, Eutrophication, Sanitary pollutants		
	Probably Note At Risk	-		
Water Body Level Measures (Not in place)	Educate landowners	Flood bunds		
	Selective vegetation control	Set-back embankments		
	Vegetation control	Floodplain connectivity		
	Vegetation control timing	Remove obsolete structure		
	Invasive species techniques	Remove or soften hard bank		
	Retain habitats	Preserve or restore habitats		
	Sediment management strategy	In-channel morphological diversity		
	Enhance ecology	Re-opening culverts		
	Changes to locks etc.	After culvert channel bed		
	Align and attenuate flow	Water level management		
	Woody debris	Maintain channel bed/margins		
Reduce fish entrainment	Flow manipulation			

**NOT PROTECTIVELY MARKED**

Table 3.3 Minsmere Old River (GB105035046270)

Water Body Details	Water body name		Minsmere Old River	
	Water body ID		GB105035046270	
	Water body type		River	
	Management catchment		Suffolk East	
	Operational catchment		Suffolk Coastal	
	Hydromorphological designation		Heavily Modified	
	Sensitive habitats		Nitrates Directive, Habitats and Species Directive, and Conservation of Wild Birds Directive	
	Current Overall Status		Moderate	
	Objective Status		Good	
	Ecological Status / Potential		Moderate	
	Chemical Status		Good	
Ecological	Quality elements	Elements	Classification	Objective
	Biological	Overall	Poor	Poor
		Fish	Poor	Poor
		Invertebrates	Good	Good
		Macrophytes	Not assessed	Not assessed
	Hydromorphological	Overall	Supports good	Supports good
		Hydrological Regime	Supports good	Supports good
	Physico-chemical	Overall	Good	Good
		Ammonia (Phys-Chem)	High	Good
		BOD	High	-
		Dissolved oxygen	Good	Good
		pH	High	Good
		Phosphate	Good	Good
		Temperature	High	Good
	Specific pollutants	Overall	Not assessed	Not assessed
	Supporting elements (Surface Water)	Overall	Moderate	Good
		Mitigation Measures Assessment	Moderate or less	Good

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<b>Chemical</b>	Priority hazardous substances	Overall	Does not require assessment	Does not require assessment
	Priority substances	Overall	Does not require assessment	Does not require assessment
	Other Pollutants	Overall	Does not require assessment	Does not require assessment
<b>Mitigation Measures Assessment</b>	Reasons for not achieving Good Status	Fish: Barriers to fish migration – ecological discontinuity (morphology) (confirmed)		
		Fish: Land drainage – operational management (morphology) (suspected)		
		Mitigation Measures Assessment: Other (land drainage) (confirmed)		
<b>Risks</b>	At Risk	Physical modification		
	Not Assessed	Phosphorus		
	Not At Risk	Sanitary pollutants		
	Probably At Risk	Abstraction & Flow, Eutrophication, Sediment		
	Probably Not At Risk	Abstraction & Flow		
<b>Water Body Level Measures (Not in place)</b>	Educate landowners	Floodplain connectivity		
	Retain habitats	Remove obsolete structure		
	Maintain channel bed/margins	Remove or soften hard bank		
	Water level management	Preserve or restore habitats		
	Fish passes	In-channel morphological diversity		
	Reduce fish entrainment	Re-opening culverts		
	Enhance ecology	Alter culvert channel bed		
	Changes to locks etc.	Flood bunds		
	Align and attenuate flow	Set-back embankments		
	Woody debris			

**NOT PROTECTIVELY MARKED**

Table 3.4 Suffolk (GB650503520002)

<b>Water Body Details</b>	<b>Water body name</b>		Suffolk		
	<b>Water body ID</b>		GB650503520002		
	<b>Water body type</b>		Coastal		
	<b>Management catchment</b>		Anglian TraC		
	<b>Operational catchment</b>		Suffolk TraC		
	<b>Hydromorphological designation</b>		Heavily Modified		
	<b>Sensitive habitats</b>		Bathing Water, Nitrates Directive, Habitats and Species Directive, Conservation of Wilde Birds Directive		
	<b>Current Overall Status</b>		Moderate		
	<b>Objective Status</b>		Moderate		
	<b>Ecological Status / Potential</b>		Moderate		
	<b>Chemical Status</b>		Good		
<b>Ecological</b>	<b>Quality elements</b>	<b>Elements</b>	<b>Classification</b>	<b>Objective</b>	
	Biological	Overall	Good	Good	
		Phytoplankton blooms	Good	Good	
	Hydromorphological	Overall	Not assessed	Not assessed	
	Physico-chemical	Overall	Moderate	Moderate	
		Dissolved Inorganic Nitrogen	Moderate	Moderate	
		Dissolved oxygen	High	Good	
	Specific pollutants	Overall	Not assessed	Not assessed	
	Supporting elements (Surface Water)	Overall	Good	Good	
		Mitigation Measures Assessment	Good	Good	
<b>Chemical</b>	Priority hazardous substances	Overall	Does not require assessment	Does not require assessment	require
	Priority substances	Overall	Does not require assessment	Does not require assessment	require
	Other Pollutants	Overall	Does not require assessment	Does not require assessment	require

**NOT PROTECTIVELY MARKED**

<b>Mitigation Measures Assessment</b>	Reasons for not achieving Good Status	Dissolved Inorganic Nitrogen: Arable field - poor nutrient management (suspected)
		Agriculture - livestock (suspected),
		waste water treatment sewage discharge (continuous) (suspected)
<b>Risks</b>	At Risk	-
	Not Assessed	-
	Not At Risk	-
	Probably At Risk	-
	Probably Not At Risk	Eutrophication

Table 3.5 Waveney and East Suffolk Chalk & Crag (GB40501G400600)

<b>Water Body Details</b>	<b>Water body name</b>	Waveney and East Suffolk Chalk & Crag		
	<b>Water body ID</b>	GB40501G400600		
	<b>Water body type</b>	Groundwater		
	<b>Management catchment</b>	Anglian GW		
	<b>Operational catchment</b>	Waveney and East Suffolk Chalk and Crag		
	<b>Hydromorphological designation</b>	Not applicable		
	<b>Sensitive habitats</b>	Nitrates Directive, Drinking Water Protected Area		
	<b>Current Overall Status</b>	Poor		
	<b>Objective Status</b>	Poor		
	<b>Chemical Status</b>	Poor		
	<b>Quantitative Status</b>	Poor		
<b>Ecological</b>	<b>Quality elements</b>	<b>Elements</b>	<b>Classification</b>	<b>Objective</b>
	Chemical status assessment	Overall	Poor	Poor
		Chemical Drinking Water Protected Area	Poor	Good
		General Chemical Test	Poor	Poor
		Chemical GWDTEs test	Good	Good
		Chemical Dependent Surface Water Body Status	Good	Good
		Chemical Saline Intrusion	Good	Good
	Quantitative assessment status	Overall	Poor	Good
		Quantitative GWDTEs test	Good	Good

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		Quantitative Surface Water Status	Dependent Water Body	Good	Good
		Quantitative Intrusion	Saline	Good	Good
		Quantitative Balance	Water	Poor	Good
	Supporting elements	Trend assessment		Upward trend	-
<b>Mitigation Measures Assessment</b>	Reasons for not achieving Good Status	Chemical Drinking Water Protection: Livestock diffuse source (confirmed)			
		General Chemical Test: Livestock diffuse source (confirmed)			
		Trend Assessment: Livestock diffuse source (confirmed)			
		Quantitative Water Balance: Groundwater and Surface water abstraction for agriculture (suspected)			
<b>Risks</b>	At Risk	-			
	Not Assessed	Abstraction effect on saline intrusion; Abstraction effect on surface water; General chemical assessment, effect on Drinking Water Protected Areas; Overall chemical assessment; Overall quantitative assessment; Saline intrusion; Trend assessment			
	Not At Risk	Effect on surface water chemistry and ecology			
	Probably At Risk	Abstraction effect on dependent terrestrial ecosystems; Abstraction effect on water balance; Impact on dependent terrestrial ecosystems			
	Probably Not At Risk	-			

## 4. STAGE 2: SCOPING ASSESSMENT

### 4.1 Purpose of this section

4.1.1 The aim of this section is to identify the WFD quality elements within each water body that could be impacted by the Proposed Development, and determine whether there is potential for deterioration in water body status.

### 4.2 Assessment of potential impacts on Leiston Beck (GB105035046271)

#### a) Hydromorphology

##### i. Demolition and construction phase

4.2.1 There is potential for impacts on the hydrological regime, morphological conditions and river continuity of the water body as a result of:

- Alteration of surface water flows entering watercourses within the Leiston Beck catchment (including Sizewell Drain and an unnamed drain), as a result of changes in land use during demolition and construction. This could impact upon the hydrology of the surface water system.
- Increased sediment supply to surface waters through erosion of exposed soils by surface runoff, which could impact upon the geomorphology of the water body.
- Alteration of surface water flows and geomorphology in the Sizewell Drain and the unnamed drain during the in-channel works associated with construction of two footbridges. This could impact upon the hydrology of the surface water system, change patterns of erosion and sedimentation, and impede river continuity.

4.2.2 However, the proposed control measures outlined in **Section 3.2d)** will prevent changes in the frequency and magnitude of runoff from the site. Furthermore, the construction working width associated with bridge construction will be minimised to avoid intrusion on the Sizewell Marshes SSSI ditch habitats and minimise the direct disturbance of the channel bed and banks.

4.2.3 The proposed footbridges will be supported using screw piles to a depth of 4m, and their concrete footings will be offset from the edge of the channel. Changes to bank habitats will therefore be limited, and there is no mechanism for the supply of concrete or other construction materials to the channel. Furthermore, in-channel supports are unlikely to be required and as such the footbridges are unlikely to significantly restrict flows. The prevailing low energy conditions in the two watercourses that will be crossed (Sizewell Drain and an unnamed drainage channel) mean that there are unlikely to be any significant hydromorphological changes as a result of bridge installation. Furthermore, depending upon the final design of the footbridges, measures such as coffer dams or silt curtains would be used to prevent the ingress of sediment into the channel.

## ii. Operational phase

4.2.4 There is potential for impacts on the hydrological regime, morphological conditions and river continuity of the water body as a result of:

- Changes in surface water run-off from the Site to the Sizewell Drain and other surface watercourses which drain into Leiston Beck, as a result of changes in land use, changes in impermeable area and new or increased piped discharges during operation. This could affect the hydrology and geomorphology of the surface water system; and
- Alteration of surface water flows in the Sizewell Drain and an unnamed drain to the south, caused by the presence of in-stream supports for the footbridges. This could affect local hydrology and geomorphology, increasing the risk of erosion downstream of the support and sediment deposition upstream, as well as an increased risk of blockage by debris.

4.2.5 However, the proposed control measures outlined in **Section 3.2d)** will prevent changes in the frequency and magnitude of runoff from the site. In addition, the proposed footbridge supports will consist of screw piles to a depth of 4m, and as such are unlikely to significantly restrict flows. Furthermore, the prevailing low energy conditions in the two watercourses that will be crossed (Sizewell Drain and an unnamed drainage channel) mean that there are unlikely to be any significant hydromorphological changes as a result of bridge installation.

## b) Physico-chemistry

### i. Demolition and construction phase

4.2.6 There is potential for changes to the oxygenation conditions, salinity and acidification status of the water body as a result of:

- increased sediment supply to surface waters through erosion of exposed soils by surface runoff, which could impact upon surface water quality;
- supply of contaminants to surface waters through surface runoff or accidental spillage during demolition of existing buildings, excavation of contaminated soils, or accidental spillage or leakage of fuel oils or lubricants from construction vehicles, which could impact upon surface water quality; and
- supply of contaminants to the surface waters from the groundwater abstracted during dewatering of the construction works which could enter surface water through surface water runoff. This could impact upon surface water quality.

4.2.7 However, the proposed control measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants and therefore avoid changes to the physico-chemistry of the water body. Furthermore, no mechanisms for impact on nutrient conditions or thermal conditions have been identified.

**ii. Operational phase**

- 4.2.8 There is potential for changes to the oxygenation conditions, salinity and acidification status of the water body as a result of the supply of sediment, fuel oils, lubricants and other contaminants to surface waters during operation, as a result of accidental spillage or leakage from vehicles using the site. However, the proposed control mitigation measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants and therefore avoid changes to the physico-chemistry of the water body. Furthermore, no mechanisms for impact on nutrient conditions or thermal conditions have been identified.

**c) Biology**

**i. Demolition and construction phase**

- 4.2.9 There is potential for impacts on aquatic flora, benthic invertebrate fauna and fish fauna in the water body as a result of the potential changes to hydromorphology and physico-chemistry described above. However, the control measures that will be in place to prevent any impacts on these quality elements will also prevent impacts on the biological quality elements.

**ii. Operational phase**

- 4.2.10 There is potential for impacts on aquatic flora, benthic invertebrate fauna and fish fauna in the water body as a result of the potential changes to hydromorphology and physico-chemistry described above. However, the control measures that will be in place to prevent any impacts on these quality elements will also prevent impacts on the biological quality elements.

**d) Impacts on mitigation measures**

- 4.2.11 The control measures outlined in **Section 3.2d)** will prevent the scheme impacting upon the WFD mitigation measures identified for the water body in **Table 3.2** during the demolition and construction and operation phases.

**e) Impacts on sensitive habitats**

- 4.2.12 The control measures outlined in **Section 3.2d)** will prevent the scheme impacting upon the sensitive habitats identified for the water body in **Table 3.2** during the demolition and construction and operational phases. Note that potential impacts on Protected Areas will be considered in more detail in the separate shadow Habitat Regulations Assessment Screening Report.

**f) Chemistry**

- 4.2.13 There is potential for the release of priority substances into surface runoff from demolition and construction activities and the operation of the site. However, the control measures outlined in **Section 3.2d)** will prevent the supply of contaminants and therefore avoid changes to the chemistry of the water body.

**g) Summary of impacts on water body status**

- 4.2.14 The previous sections demonstrate that the Proposed Development will not impact upon the hydromorphology, physico-chemistry or biology of the Leiston Beck water body during either the demolition and construction or operational phases. Furthermore, the Proposed Development will not affect any mitigation measures or sensitive habitats identified in the RBMP. This means that the Proposed Development will not adversely affect the ecological status of the Leiston Beck water body.
- 4.2.15 In addition, the Proposed Development will not impact upon the chemical quality elements during either the demolition and construction or operational phases. This means that the Proposed Development will not adversely affect the chemical status of the Leiston Beck water body.

**4.3 Assessment of potential impacts on Minsmere Old River (GB105035046270)**

**a) Hydromorphology**

- 4.3.1 No activities will take place directly in this water body during either the demolition and construction or operation phases of the Proposed Development. This means that there are no direct mechanisms for the Proposed Development to affect the hydromorphology of the Minsmere Old River water body.
- 4.3.2 However, there is potential for impacts on hydromorphology as a result of increased fine sediment supply into the Leiston Drain water body during the demolition, construction and operational phases. This could potentially impact upon receiving waters downstream. However, the control measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants into the surface drainage network. These measures will therefore prevent impacts on the Leiston Drain and there is therefore no mechanism for the downstream Minsmere Old River water body to be affected.

**b) Physico-chemistry**

- 4.3.3 No activities will take place directly in this water body during either the demolition and construction or operational phases of the Proposed Development. This means that there are no direct mechanisms for the Proposed Development to affect the physico-chemistry of the Minsmere Old River water body.
- 4.3.4 However, there is potential for impacts on physico-chemistry as a result of increased fine sediment supply and the release of contaminants into the Leiston Drain water body during the demolition and construction and operational phases. This could potentially impact upon receiving waters downstream. However, the control measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants into the surface drainage network. These measures will therefore prevent impacts on the Leiston Drain and there is therefore no mechanism for the downstream Minsmere Old River water body to be affected.

c) **Biology**

4.3.5 The Proposed Development will not impact upon the hydromorphology of physico-chemistry of the Minsmere Old River or the Leiston Beck upstream. There is therefore no mechanism for any changes to the biology of the Minsmere Old River water body.

d) **Impacts on mitigation measures**

The lack of connectivity between the Site and this water body means that the Proposed Development will not impact upon the mitigation measures identified for the water body in **Table 3.3** Table 3.2 Leiston Beck (GB105035046271)

<b>Water Body Details</b>	<b>Water body name</b>		Leiston Beck	
	<b>Water body ID</b>		GB105035046271	
	<b>Water body type</b>		River	
	<b>Management catchment</b>		Suffolk East	
	<b>Operational catchment</b>		Suffolk Coastal	
	<b>Hydromorphological designation</b>		Heavily Modified	
	<b>Sensitive habitats</b>		Nitrates Directive, Habitats and Species Directive, and Conservation of Wild Birds Directive	
	<b>Current Overall Status</b>		Moderate	
	<b>Ecological Status / Potential</b>		Good	
	<b>Chemical Status</b>		Moderate	
<b>Ecological</b>	<b>Quality elements</b>	<b>Elements</b>	<b>Classification</b>	<b>Objective</b>
	Biological	Overall	Good	Good
		Macrophytes	Not assessed	Not assessed
		Invertebrates	Good	Good
	Hydromorphological	Overall	Supports Good	Supports Good
		Hydrological Regime	Supports Good	Supports Good
	Physico-chemical	Overall	Moderate	Good
		Ammonia (Phys-Chem)	High	High
		Biochemical Oxygen Demand (BOD)	High	-
		Dissolved oxygen	Bad	Good
pH		High	High	

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		Phosphate		
		Temperature	High	High
	Specific pollutants	Overall	Not assessed	Not assessed
	Supporting elements (Surface Water)	Overall	Moderate	Good
Mitigation Measures Assessment		Moderate or less	Good	
Chemical	Priority hazardous substances	Overall	Does not require assessment	Does not require assessment
	Priority substances	Overall	Does not require assessment	Does not require assessment
	Other Pollutants	Overall	Does not require assessment	Does not require assessment
Mitigation Measures Assessment	Reasons for not achieving Good Status	Dissolved Oxygen: Waste water treatment – operational management (confirmed)		
		Mitigation Measures Assessment: Other (land drainage) (confirmed)		
		Phosphate: Waste water treatment – water industry (confirmed)		
Risks	At Risk	Abstraction & Flow, Physical modification		
	Not Assessed	Phosphorus		
	Not At Risk	Sediment		
	Probably At Risk	Abstraction & Flow, Eutrophication, Sanitary pollutants		
	Probably Note At Risk	-		
Water Body Level Measures (Not in place)	Educate landowners		Flood bunds	
	Selective vegetation control		Set-back embankments	
	Vegetation control		Floodplain connectivity	
	Vegetation control timing		Remove obsolete structure	
	Invasive species techniques		Remove or soften hard bank	
	Retain habitats		Preserve or restore habitats	
	Sediment management strategy		In-channel morphological diversity	
	Enhance ecology		Re-opening culverts	
	Changes to locks etc.		After culvert channel bed	
	Align and attenuate flow		Water level management	
	Woody debris		Maintain channel bed/margins	
	Reduce fish entrainment		Flow manipulation	

**e) Impacts on sensitive habitats**

- 4.3.6 The lack of connectivity between the Site and this water body means that the Proposed Development will not impact upon the sensitive habitats identified for the water body in **Table 3.3**. Note that potential impacts on Protected Areas will be considered in more detail in the shadow Habitat Regulations Assessment.

**f) Chemistry**

- 4.3.7 The Proposed Development will not impact upon the chemical status of the Leiston Beck water body, in which the works will be located. There is therefore no mechanism for any changes to the chemistry of the downstream Minsmere Old River water body.

**g) Summary of impacts on water body status**

- 4.3.8 The previous sections demonstrate that the Proposed Development will not impact upon the hydromorphology, physico-chemistry or biology of the Minsmere Old River water body during either the demolition and construction or operational phases. Furthermore, the Proposed Development will not affect any mitigation measures or sensitive habitats identified in the RBMP. This means that the Proposed Development will not adversely affect the ecological status of the water body.
- 4.3.9 In addition, the Proposed Development will not impact upon the chemical quality elements during either the demolition and construction or operation phases. This means that the Proposed Development will not adversely affect the chemical status of the water body.

**4.4 Assessment of potential impacts on Suffolk (GB650503520002)**

**a) Hydromorphology**

- 4.4.1 No activities will take place directly in this water body during either the demolition and construction or operational phases of the Proposed Development. This means that there are no direct mechanisms for the Proposed Development to affect the hydromorphology of the Suffolk coastal water body.
- 4.4.2 However, there is potential for impacts on hydromorphology as a result of increased fine sediment supply into the Leiston Drain water body during the demolition and construction and operational phases. This could potentially impact upon receiving waters downstream. However, the control measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants into the surface drainage network. These measures will therefore prevent impacts on the Leiston Drain and there is therefore no mechanism for the downstream Suffolk coastal water body to be affected.

**b) Physico-chemistry**

- 4.4.3 No activities will take place directly in this water body during either the demolition and construction or operational phases of the Proposed

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Development. This means that there are no direct mechanisms for the Proposed Development to affect the physico-chemistry of the Suffolk coastal water body.

- 4.4.4 However, there is potential for impacts on physico-chemistry as a result of increased fine sediment supply and the release of contaminants into the Leiston Drain water body, and additional effects on receiving waters downstream. However, the control measures outlined in **Section 3.2d)** will prevent the supply of fine sediment and other contaminants into the surface drainage network. These measures will therefore prevent impacts on the Leiston Drain and there is therefore no mechanism for the downstream coastal water body to be affected.

### c) Biology

- 4.4.5 The Proposed Development will not impact upon the hydromorphology of physico-chemistry of the Suffolk coastal water body or the Leiston Beck upstream. There is therefore no mechanism for any changes to the biology of the Suffolk Coastal water body.

### d) Impacts on mitigation measures

- 4.4.6 The lack of connectivity between the Proposed Development site and this water body means that the Proposed Development will not impact upon the mitigation measures identified for the water body in **Table 3.4**.

### e) Impacts on sensitive habitats

- 4.4.7 The lack of connectivity between the Proposed Development site and this water body means that the Proposed Development will not impact upon the sensitive habitats identified for the water body in **Table 3.4**. Note that potential impacts on Protected Areas will be considered in more detail in the **Shadow Habitats Regulations Assessment** submitted with the planning application.

### f) Chemistry

- 4.4.8 The Proposed Development will not impact upon the chemical status of the Leiston Beck water body, in which the works will be located. There is therefore no mechanism for any changes to the chemistry of the downstream Suffolk coastal water body.

### g) Summary of impacts on water body status

- 4.4.9 The previous sections demonstrate that the Proposed Development will not impact upon the hydromorphology, physico-chemistry or biology of the Suffolk coastal water body during either the demolition and construction or operation phases. Furthermore, the Proposed Development will not affect any mitigation measures or sensitive habitats identified in the RBMP [12]. This means that the Proposed Development will not adversely affect the ecological status of the water body.
- 4.4.10 In addition, the Proposed Development will not impact upon the chemical quality elements during either the demolition and construction or operational phases.

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This means that the Proposed Development will not adversely affect the chemical status of the water body.

### 4.5 Assessment of potential impacts on Waveney and East Suffolk Chalk and Crag groundwater body (GB40501G400600)

#### a) Quantitative status

- 4.5.1 There is potential for direct impacts to the quantitative quality elements (Impact on wetlands; Impact on surface waters; Water balance) as a result of the installation of a temporary sheet pile wall at the Outage Storage site for the construction of a basement, and its presence during the operational phase. These piles would be a maximum of 20m deep and would breach the groundwater table. However, this impact will be spatially limited to the area within the sheet pile wall (approximately 10m x 15m, with a small additional area to accommodate a wider construction platform). Furthermore, the volume of water abstracted is also likely to be limited to between 153m<sup>3</sup> and 305m<sup>3</sup>, at rates of less than 20m<sup>3</sup>/day during initial drawdown and less than 10m<sup>3</sup>/day through the construction period (see **ES Volume I, Chapter 13 Hydrogeology** for further information). No further groundwater abstraction will be required during the operational phase of the development. This means that any impacts on groundwater quantity are unlikely to result in any non-temporary impacts at water body scale during construction or operation.

#### b) Chemical status

- 4.5.2 The proposed piling activities in the location of the Outage Storage during the demolition and construction phase have the potential to introduce a source of contaminants into the groundwater. Groundwater samples collected within the Site boundary as part of the wider Sizewell Preliminary Phase 2 Contamination Assessment [26] indicate some minor exceedances of metals (specifically iron, boron, nickel and zinc) and nitrate in 25% or more of the samples. Sporadic, slightly elevated occurrences of lead, mercury, copper, PAHs, chloride, ammonium and singular elevated concentrations of 1,2-dichloroethane and tetrachloroethylene were also noted (see **ES Volume I, Chapter 12 Land Quality** and **Chapter 13 Hydrogeology** for further information).
- 4.5.3 The low concentrations of contaminants and the small scale of the proposed piling in relation to the groundwater body mean that there will not be any adverse impacts on groundwater quality as a result of the proposed activity. Furthermore, groundwater quality testing will be undertaken to confirm the quality of abstracted groundwater and determine the most appropriate disposal method; this will ensure that there is no redistribution of existing contaminants (see **ES Volume I, Chapter 13 Hydrogeology** for further information).
- 4.5.4 The unintended spillage of fuels, lubricants and other potentially contaminating substances during construction and operation has the potential to impact on the chemical quality of groundwater in and around the Proposed Development if these substances are allowed to enter the surface water system (which is closely linked to groundwaters) or infiltrate into the ground. However, the control

measures proposed in **Section 3.2d)** will prevent the release of contaminants into groundwater and will therefore avoid non-temporary impacts on the chemical quality elements supported within the water body.

**c) Summary of impacts on water body status**

- 4.5.5 The previous sections demonstrate that the Proposed Development will not impact upon the quantitative or chemical quality elements of the Waveney and East Suffolk Chalk and Crag groundwater body during either the demolition and construction or operational phases. This means that the Proposed Development will not adversely affect the status of the water body.

## 5. SUMMARY OF ASSESSMENT

- 5.1.1 The Proposed Development has the potential to cause impacts on following surface water and groundwater bodies during the demolition and construction, and/or operational phases of the project:
- Leiston Beck water body (GB105035046271);
  - Minsmere Old River water body (GB105035046270);
  - Suffolk costal water body (GB650503520002); and
  - Waveney and East Suffolk Chalk and Crag groundwater body (GB40501G400600).
- 5.1.2 However, the scoping assessment presented in **Section 4** has demonstrated that these impacts can be minimised given implementation of the control measures proposed as part of the design and described in **Section 3.2d**.
- 5.1.3 This means that the Proposed Development will not cause deterioration in the status of any of the surface or groundwater bodies in the area and can therefore be considered to be compliant with the requirements of the Water Framework Directive. As a result, Stage 3 of the compliance process is not required.

## NOT PROTECTIVELY MARKED

### References

- [1] European Commission, *Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for Community action in the field of water policy*, Brussels: European Commission, 2000.
- [2] European Commission, *Directive 2009/147/EC on the Conservation of Wild Birds*, Brussels: European Commission, 2009.
- [3] European Commission, *Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora*, Brussels: European Commission, 1992.
- [4] European Commission, *Directive 2008/105/EC of the European Parliament and of the Council on environmental standards in the field of water policy*, Brussels: European Commission, 2008.
- [5] HM Government, *The Water Environment (Water Framework Directive) (England and Wales) Regulations*, London: HM Government, 2003.
- [6] HM Government, *The Water Environment (Water Framework Directive) (England and Wales) (Amendment) Regulations*, London: HM Government, 2015.
- [7] Planning Inspectorate, *Advice Note 18: The Water Framework Directive*, London: Planning Inspectorate, 2017.
- [8] Environment Agency, *Water Framework Directive risk assessment: How to assess the risk of your activity*, Bristol: Environment Agency, 2016.
- [9] Environment Agency, *Protecting and improving the water environment: Water Framework Directive compliance of physical works in rivers.*, Bristol: Environment Agency, 2016.
- [10] Environment Agency, *WFD deterioration and risk to the status objectives of river water bodies (488\_10\_SD06)*, Bristol: Environment Agency, 2016.
- [11] Environment Agency, "Catchment Data Explorer," 2018. [Online]. Available: <http://environment.data.gov.uk/catchment-planning/>.
- [12] Environment Agency, *Anglian River Basin District: River Basin Management Plan*, Bristol: Environment Agency, 2015.
- [13] Joint Defra/Environment Agency Flood and Coastal Erosion Risk Management R&D Programme, *WFD Expert Assessment of Flood Risk Management Impacts*, London: Defra, 2009.
- [14] European Commission, *Directive 2006/7/EC of the European Parliament and of the Council of 15 February 2006 concerning the management of bathing water quality and repealing Directive 76/160/EEC*, Brussels: European Commission, 2007.
- [15] European Commission, *Directive 2006/44/EC of the European Parliament and of the Council of 6 September 2006 on the quality of fresh waters needing protection of improvement in order to support fish life*, Brussels: European Commission, 2006.
- [16] European Centre for River Restoration, "Healthy Catchments: Managing water for flood risk and the Water Framework Directive," undated. [Online]. Available: <http://www.ecrr.org/RiverRestoration/Floodriskmanagement/Healthy/Catchments-managingforfloodriskWFD/tabid/3098/Default.aspx>.
- [17] Thames Estuary Partnership, "Estuary Edges," undated. [Online]. Available:

## NOT PROTECTIVELY MARKED

<http://thamesestuarypartnership.org/our-projects/estuary-edges/>.

- [18] EDF Energy, *Sizewell B Relocated Facilities Surface Water Drainage Strategy*, 2016.
- [19] Environment Agency; Scottish Environment Protection Agency; Northern Ireland Environment Agency, *01 General guide to the prevention of water pollution*, Bristol: Environment Agency, 2013.
- [20] Environment Agency; Scottish Environment Protection Agency; Environment and Heritage Service, *05 Works near or liable to affect watercourses*, Bristol, 2007.
- [21] Environment Agency; Scottish Environment Protection Agency; Northern Ireland Environment Agency, *06 Working at construction and demolition sites*, Bristol: Environment Agency, 2012.
- [22] Environment Agency; Scottish Environment Protection Agency; Environment and Heritage Service, *08 Storage and disposal of used oils*, Bristol: Environment Agency, 2004.
- [23] Environment Agency, *11 Preventing pollution at industrial sites*, Bristol: Environment Agency.
- [24] Environment Agency; Scottish Environment Protection Agency; Northern Ireland Environment Agency, *21 Pollution incident response planning*, Bristol: Environment Agency, 2009.
- [25] CIRIA, *Control of water pollution from construction sites*, London: CIRIA, 2001.
- [26] AMEC, *Sizewell Preliminary Phase 2 Contamination Assessment*, 2012.
- [27] Atkins, *Sizewell B Power Station Groundwater Monitoring Review. Version 2*, 2011.

# GLOSSARY OF TERMS

Term	Definition
Artificial Water Body	A water body that has been created artificially (e.g. a canal).
Chemical Status	A measure of the overall chemical quality of a water body.
Ecological Potential	A measure of the overall quality of an Artificial or Heavily Modified Water Body, recognising that physical modifications may prevent the delivery of Ecological Status targets.
Ecological Status	A measure of the overall quality of the ecological structure and functioning of a surface water body, defined with reference to the biology, hydromorphology and physico-chemistry of the waters.
Good Ecological Potential	The target condition for Artificial and Heavily Modified Water Bodies, recognising that physical modifications may prevent Good Ecological Status being achieved.
Good Ecological Status	The default target condition for a surface water body, this represents a slight deviation from natural reference conditions and limited anthropogenic pressures.
Heavily Modified Water Body	A water body that is not able to achieve natural reference conditions as a result of physical modifications which support a defined use (e.g. flood protection or land drainage).
Mitigation measure	A measure identified for water body to address pressures or modifications which prevent Good Ecological Status or Potential being achieved.
Quality element	Parameters used to define the Ecological Status or Potential of a water body, including biology (e.g. fish, macrophytes and phytoplankton), hydromorphology (e.g. flow regime, tidal regime, physical structure) and physico-chemistry (e.g. transparency, temperature, salinity, pH, concentrations of nutrients and pollutants).
River Basin Management Plan	A plan that outlines the current status of water bodies within each River Basin District, sets future status objectives and identifies the mitigation measures that are required to address pressures and achieve these objectives.
Water body	A distinct body of water, including rivers, streams, canals, lakes, reservoirs, estuaries, coastal waters and groundwaters.
Water Framework Directive	<i>Directive of the European Parliament and of the Council 2000/60/EC establishing a framework for community action in the field of water policy</i> , adopted by the European Commission in December 2000. Referred to as the Water Framework Directive (WFD), the Directive establishes environmental objectives for the status of surface (rivers, lakes, estuaries and coastal waters) and ground waters based on a series of ecological and chemical parameters. The WFD requires that all European Union Member States must prevent deterioration and protect and enhance the status of aquatic ecosystems. This means that Member States must ensure that new schemes do not adversely impact upon the status of aquatic ecosystems, and that historical modifications that are already impacting it need to be addressed.

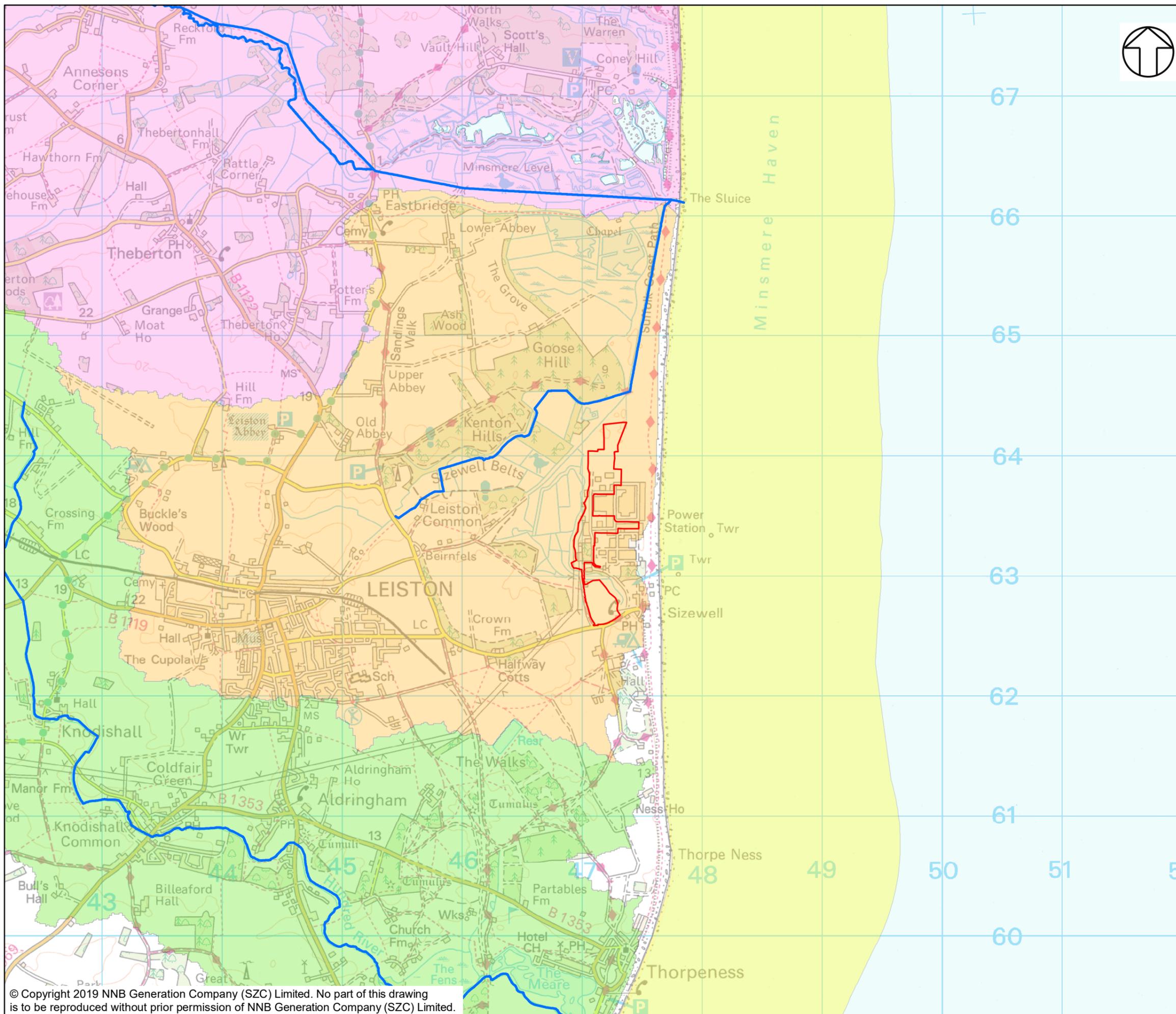
# LIST OF ABBREVIATIONS

Abbreviation	Term
AWB	Artificial Water Body
GEP	Good Ecological Potential
ESC	East Suffolk Council
GES	Good Ecological Status
HMWB	Heavily Modified Water Body
MTBE	Methyl Tert-Butyl Ether
NGL	EDF Energy Nuclear Generation Limited
PAH	Polycyclic Aromatic Hydrocarbons
RBMP	River Basin Management Plan
SCDC	Suffolk Coastal District Council
SuDS	Sustainable Drainage Systems
TPH	Total Petroleum Hydrocarbons
WDC	Waveney District Council
WFD	Water Framework Directive

## FIGURES

Figure 3.1: Surface water bodies in the vicinity of the Proposed Development

Figure 3.2: Groundwater bodies in the vicinity of the Proposed Development



**NOTES**

**KEY**

- SIZEWELL B RELOCATED FACILITIES SITE BOUNDARY
- WFD RIVER WATER BODY LINES
- WFD SURFACE WATER BODY CATCHMENTS**
- MINSMERE OLD RIVER (GB105035046270)
- LEISTON BECK (GB105035046271)
- HUNDRED RIVER (GB105035046260)
- SUFFOLK COASTAL (GB650503520002)

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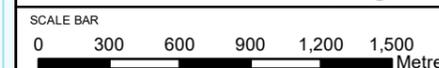
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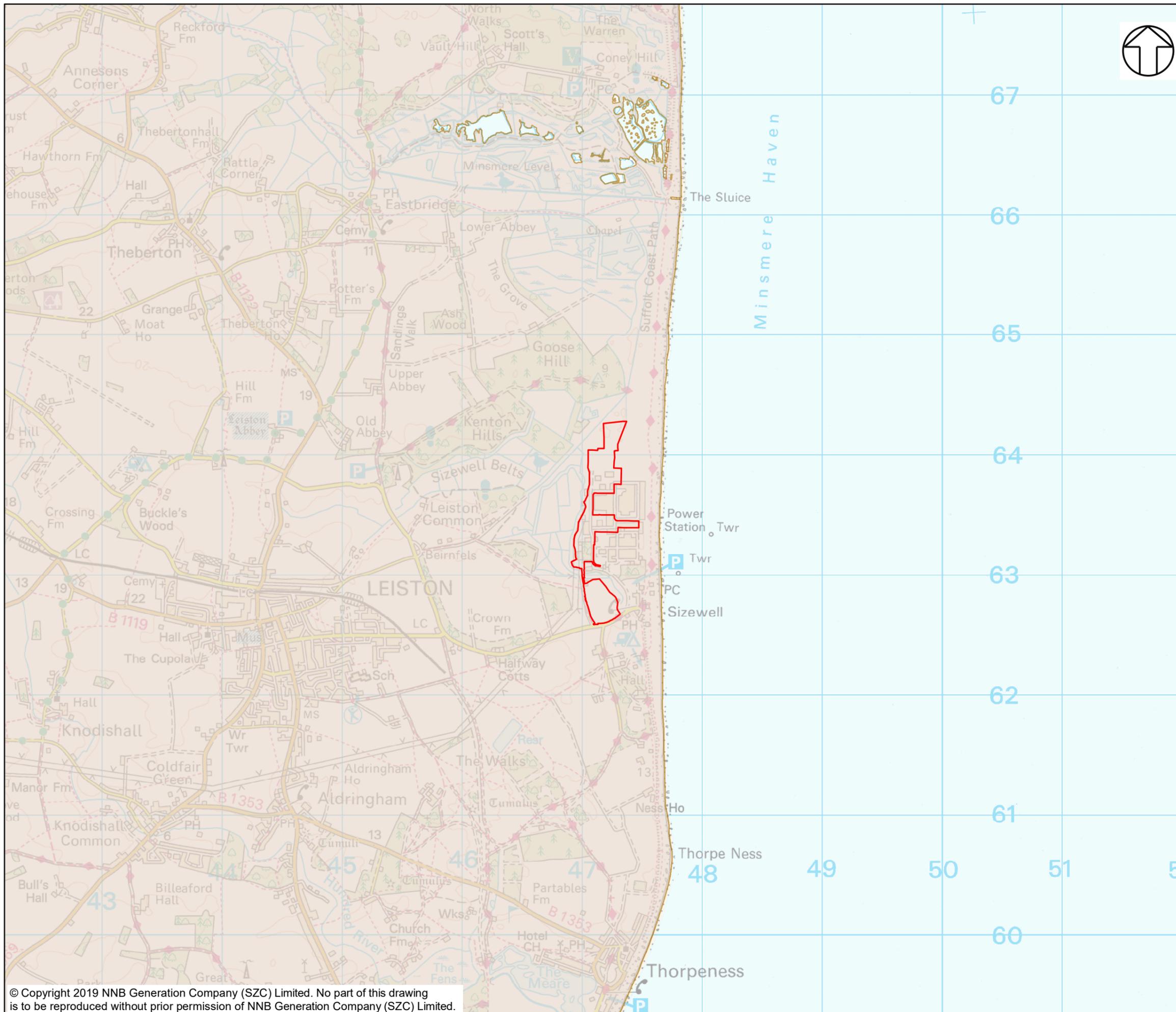
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 SIZEWELL B RELOCATED FACILITIES  
 WATER FRAMEWORK DIRECTIVE  
 ASSESSMENT

**DRAWING TITLE:**  
 SURFACE WATER BODIES IN THE  
 VICINITY OF THE PROPOSED  
 DEVELOPMENT

**DRAWING NO:**  
 3.1

**DATE:** MAR 2019      **DRAWN:** J.T.      **SCALE:** 1:30,000 @A3





**NOTES**

**KEY**

- SIZEWELL B RELOCATED FACILITIES
- SITE BOUNDARY
- WAVENEY AND EAST SUFFOLK CHALK AND CRAG (GB40501G400600)

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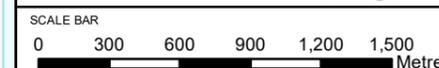
**NUCLEAR GENERATION LIMITED**

**DOCUMENT:**  
 SIZEWELL B RELOCATED FACILITIES  
 WATER FRAMEWORK DIRECTIVE  
 ASSESSMENT

**DRAWING TITLE:**  
 GROUNDWATER BODIES IN THE VICINITY  
 OF THE PROPOSED DEVELOPMENT

**DRAWING NO:**  
 FIGURE 3.2

**DATE:** MAR 2019      **DRAWN:** J.T.      **SCALE:** 1:30,000 @A3



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VOLUME II:  
TECHNICAL APPENDICES

# 16.1 Long List of Cumulative Schemes

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N/A

**FIGURES**

Appendix 16.1 Long List of Cumulative Schemes

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## APPENDIX 16-1

# CUMULATIVE DEVELOPMENT SCHEMES

- 1.1.1 There is the potential for effects associated with a proposed development to combine with effects generated from other schemes proposed in the local area. Together these effects could cause an effect of greater significance than when considered in isolation. These are known as cumulative development effects.
- 1.1.2 The assessment of cumulative development effects for the Sizewell B Relocated facilities project (hereafter referred to as the 'Proposed Development') has been undertaken in accordance with the Planning Inspectorate Advice Note Seventeen '*Cumulative effects assessment relevant to nationally significant infrastructure projects* (Ref. 1).
- 1.1.3 The advice note recommends the following four stage approach:
- Stage 1 – establish the project's zone of influence (ZoI) and identify a long list of 'other development';
  - Stage 2 – identify a shortlist of 'other development' for the cumulative impact assessment;
  - Stage 3 – information gathering; and
  - Stage 4 – assessment.
- 1.1.4 This appendix presents the long list of 'other developments' identified within the ZoI for the Proposed Development. **Table 1** lists the other development schemes identified up to February 2019. The location of the long list of other developments are shown on **Appendix Figure 16.1**.
- 1.1.5 The long list of other developments includes schemes which meet the following criteria:
- under construction; or
  - permitted application(s), but not yet implemented (those from the past five years were considered, taking into account those that received planning consent over three years ago and are still valid, but have not been completed); or
  - submitted application(s) not yet determined (as above); or
  - refused, subject to appeal procedures not yet determined; or
  - Nationally Significant Infrastructure Projects registered by the Planning Inspectorate; or
  - identified in the relevant Development Plan (and emerging Development Plans - with appropriate weight being given as they move closer to adoption) recognising that information on any relevant proposals will be limited; or

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- identified in other plans and programmes (as appropriate) which set the framework for future development consents/approvals, where such development is reasonably likely to come forward; and
- within the Zone of Influence of the Proposed Development (based on the spatial extent of the impacts of the Proposed Development).

1.1.6 The following developments were excluded from the long list, as due to their nature or scale they were not considered likely to result in cumulative impacts with the Proposed Development:

- small scale residential uses (less than two dwellings);
- changes of buildings' use (unless it could itself result in a cumulative effect, such as a conversion of several barns into a holiday village);
- construction of agricultural buildings (e.g. storage of livestock, machinery or feed);
- house extensions or cosmetic changes to buildings;
- works to trees;
- micro-generation wind turbines;
- roof mounted solar photovoltaic panels (or ground mounted less than 50kW output);
- renewal of planning permission for retention of existing operational use; and
- variation to planning permissions, including reserved matters applications (where original application would be excluded).

1.1.7 **Table 1** identifies schemes which have the potential to result in cumulative effects with the Proposed Development by virtue of overlaps in temporal scope, their scale and nature, potentially affected sensitive receptors or by any other relevant factors.

1.1.8 Where a development is considered to have the potential to generate significant cumulative effects in combination with the Proposed Development, these have been progressed to Stage 3 and the assessment is reported within **ES Volume I, Chapter 16: Cumulative Effects**. Where a development is assumed to have been constructed prior to the start of the construction of the Proposed Development, it has been considered as part of the future baseline reported within the technical chapters of the ES.

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Table 1: Long list of Cumulative Development Schemes

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZoI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
SZC	Sizewell C New Nuclear Power Station	Sizewell Power Station complex	Sizewell C Nuclear Power Station application (otherwise referred to as Sizewell C Project): consideration will be given to the potential for cumulative effects to the extent possible based on the information publicly available (Stage 3 consultation undertaken in early 2019)	Forthcoming DCO application	Multiple	East Suffolk Council (ESC)	2	Yes – all technical topics	Yes	Yes construction dates operation dates	Yes - construction of Sizewell C power station Project will overlap with the construction and demolition works of the Proposed Development.	Yes
SPR EA1N	East Anglia One North Offshore Windfarm	An area of approximately 209km <sup>2</sup> , situated 36km from Lowestoft and Southwold at closest point	Scottish Power Renewables (SPR) East Anglia One North (EA1N) offshore windfarm to the extent possible based on the information publicly available (Phase 4 consultation undertaken in early 2019)	Forthcoming DCO application	Multiple	ESC	2	Yes – all technical topics except radiological effects	Yes	Yes construction dates operation dates	Yes - construction of SPR EA1N will overlap with the construction and demolition works of the Proposed Development.	Yes
SPR EA2	East Anglia TWO Offshore Windfarm	An area of 257km <sup>2</sup> situated approximately 31km from Lowestoft & 32km from Southwold at closest point	SPR East Anglia Two (EA2) offshore windfarm to the extent possible based on the information publicly available (Phase 4 consultation undertaken in early 2019)	Forthcoming DCO application	Multiple	ESC	2	Yes – all technical topics except radiological effects	Yes	Yes construction dates operation dates	Yes - construction of SPR EA2 will overlap with the construction and demolition works of the Proposed Development.	Yes

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum Zol?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
1	<a href="#">DC/18/4603/DEM</a>	Sizewell Power Station, Sizewell A Sizewell Power Station Road Sizewell Leiston IP16 4UE	Former Sub-station Building (74)	Approved	Leiston	ESC	1	Yes – all technical topics	Yes	Yes construction dates operation dates	The decommissioning of Sizewell A began in 2007 with decommissioning works ongoing and expected to continue throughout the construction of the Proposed Development. Surveys to establish the baseline conditions of the Site would have considered these decommissioning works as part of the existing baseline.	No
2	<a href="#">DC/18/3897/FUL</a>	11 Eastlands Industrial Estate Eastlands Road Leiston Suffolk IP16 4LL	To construct a new building for use as a Storage and Distribution (B8) facility on a vacant site similar to an earlier building destroyed by fire.	Approved	Leiston	ESC	1	Yes, within the Zol for terrestrial ecology and ornithology, landscape and visual (LVIA) and historic environment	Yes	Yes construction dates	Development scheme site is approximately 0.12 hectares, with a proposed footprint for the building of 588m <sup>2</sup> ; it is located to east of Leiston and is considered small scale in nature. The scheme is not likely to cause a significant increase in traffic during construction.	No
3	<a href="#">DC/18/3697/FUL</a>	Former Leiston School Waterloo Avenue Leiston Suffolk IP16 4HF	Redevelopment of former Leiston School to provide eleven units of residential accommodation, private amenity space, access, parking and associated infrastructure and ancillary works	Awaiting decision	Leiston	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation dates	The application is awaiting decision with no certainty on whether this will be permitted. The development scheme is located within the centre of Leiston, it is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
4	<a href="#">DC/18/3668/DR</a>	15 High Street Leiston Suffolk IP16 4EL	Erection of 8 dwellings - C04/1826 Granted 21st December 2004 front part of site - redesigned & granted consent 24th May 2016 for DC/16/2111/FUL 3 dwellings -	Awaiting decision	Leiston	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation dates	The application is awaiting decision with no certainty on whether this will be permitted. The development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
5	<a href="#">DC/18/3278/FUL</a>	The Old Vicarage 2 King Edward Road Leiston Suffolk IP16 4HQ	Proposed change of use of former vicarage (unoccupied) to C2 residential care home to provide emergency crisis care for 3-4 vulnerable young people	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	The permission is related to the change of use of a vicarage, with provision for C2 residential emergency care home. The scheme is considered to be a small scale provision, within centre of Leiston. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
6	<a href="#">DC/18/2801/FUL</a>	Police Station Kings Road Leiston Suffolk IP16 4DA	Hybrid application seeking change of use to convert existing building into six dwellings, and outline planning permission for the erection of eight new build dwellings	Awaiting decision	Leiston	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation dates	The application is awaiting decision with no certainty on whether this will be permitted. The development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
7	<a href="#">DC/18/2822/OUT</a>	Land Adjacent Ashfield Drive Leiston Suffolk	Construction of two detached single storey dwellings	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
8	<a href="#">DC/18/2574/EUL</a>	Leiston Sports Centre Red House Lane Leiston Suffolk IP16 4LS	Redevelopment of the existing leisure centre to include three number extensions to form single storey new thermal suite, two storey extension to existing gym areas together with an extension to existing foyer. Decoration of existing roof and wall cladding. The proposals also include refurbishment of internal areas.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme which includes redevelopment of existing building and extension to building is considered to be small scale. Development is over 2km from the Site boundary. Due to the scale and location of this scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
9	<a href="#">DC/18/0548/EUL</a>	The Old Vicarage 2 King Edward Road Leiston Suffolk IP16 4HQ	Two New Dwellings. Revised Design to that Approved under application ref DC/15/3616/FUL	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
10	<a href="#">DC/17/4645/OUT</a>	The Mill 22 Carr Avenue Leiston Suffolk IP16 4JA	Outline application for 7 dwellings comprising 2 new flats maximum 7.5m to ridge, 1 duplex unit max 6.5m to ridge, Conversion of existing Eastern range to 1 dwelling, conversion to former mill to 3 flats.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	Development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
11	<a href="#">DC/17/4357/DEM</a>	Sizewell A Sizewell Power Station Sizewell Power Station Road Sizewell Leiston Suffolk IP16 4EU	1. CO2 Building 2. Reservoirs & pump house 3. Administration building 4. Engineering block 5. Water treatment plant 6. Tertiary pump house. 7. CW crane.   Sizewell A Sizewell Power Station Sizewell Power Station Road Sizewell Leiston Suffolk IP16 4EU	Approved	Leiston	ESC	1	Yes – all technical topics	Yes	Yes construction dates operation Dates	The decommissioning of Sizewell A began in 2007 with decommissioning works ongoing and expected to continue throughout the construction of the Proposed Development. Surveys to establish the baseline conditions of the Site would have considered these decommissioning works as part of the existing baseline.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
12	<a href="#">DC/17/3773/F/UL</a>	Land At Colonial House Station Road Leiston Suffolk	Erection 6 no. 1 bed flats	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
13	<a href="#">DC/17/2863/F/UL</a>	Sizewell A Sizewell Power Station Sizewell Power Station Road Sizewell Leiston Suffolk IP16 4EU	Construction of building and equipment to facilitate part of the decommissioning programme.	Approved	Leiston	ESC	1	Yes – all technical topics	Yes	Yes Construction dates Operation Dates	The decommissioning of Sizewell A began in 2007 with decommissioning works ongoing and expected to continue throughout the construction of the Proposed Development. Surveys to establish the baseline conditions of the Site would have considered these decommissioning works as part of the existing baseline.	No
14	<a href="#">DC/17/1617/F/UL</a>	Abbey View Lodges Orchard House 105 Abbey Road Leiston Suffolk IP16 4TA	Redevelopment of the site for 8 dwellings	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located to the outskirts of Leiston. Whilst construction traffic may use B1122, the scheme is small in nature and is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum Zol?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
15	<a href="#">DC/17/1605/FUL</a>	Land To The South Of Red House Lane Leiston Suffolk	Full planning application for residential development of 65 dwellings (including 21 affordable units) with associated vehicular access, landscaping, open space, car parking and pedestrian links	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located to the south of Leiston. The scheme is not likely to use the same local roads for construction traffic as the Proposed Development, due to location in the south of Leiston, south of the disused railway line. Details on construction traffic routes used for the development scheme are unknown, however, these are not likely to pass through Leiston, and as such, not likely to use the same local roads as the Proposed Development, which bypasses Leiston to the north using Lovers Lane.	No
16	<a href="#">DC/16/5369/DR</a>	Galloper Wind Farm Sizewell Gap Road Leiston Suffolk	Galloper Offshore Wind Farm, with onshore infrastructure near Leiston (The Galloper Wind Farm Order 2013). Details as required by Condition 22 parts f, h and j of planning consent	Approved	Leiston	ESC	1	Yes – all technical topics except radiological effects	Yes	No	Onshore elements considered complete.	No
17	<a href="#">DC/16/5035/OUT</a>	Part Side Garden 2 Abbey Road Leiston Suffolk	Use of Land for Erection of two dwellings	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
18	<a href="#">DC/16/4134/FUL</a>	7 Main Street Leiston Suffolk IP16 4ER	Proposed housing development of 5 houses, with associated parking and access	Awaiting decision	Leiston	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation Dates	The application is awaiting decision with no certainty on whether this will be permitted. Given this application was submitted in 2016, it is considered not likely to be granted for the purposes of the assessment. However, the development scheme is considered small in nature and not likely to increase the volume of construction traffic on the route used by the	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
19	<a href="#">DC/16/3113/FUL</a>	31 Haylings Road Leiston Suffolk IP16 4DJ	The building in question was a shop with a flat above. Planning consent has previously been granted (Application C/12/2002) to convert this section of the empty building into a 2 bed maisonette. This proposal seeks to retain the existing 1 bed flat above the shop and create a new 1 bed flat below. The net result will be 2 x 1 bed flats (i.e. the existing first floor flat and and new flat on the ground floor) instead of 1 x 2 bed masonette. Both flats will have 1 x on-site parking space.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	Proposed Development. This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
20	<a href="#">DC/16/2111/FUL</a>	15 High Street Leiston Suffolk IP16 4EL	Residential development of three dwellings (plots 1-2-3) following demolition of existing bus depot building (including first floor residential flat)	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
21	<a href="#">DC/16/2104/OUT</a>	Land At The Rear Of St Margarets Crescent Leiston Suffolk	Erection of up to 77 new homes with associated access, infrastructure, landscaping and amenity space (all matters to be reserved except for access).	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	The permission is this development scheme is for outline parameters; no reserved matters have subsequently come forward. There is a limit for these to be submitted within three years of the permission (dated Jun 2017). It is unknown when the development scheme would come forward. The development scheme is located to the west of Leiston, south of the disused railway line. The scheme is not likely to use the same local roads for construction traffic as the Proposed Development, which bypasses Leiston to the north using Lovers Lane.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
22	<a href="#">DC/16/1961/OU</a>	Johnsons Farm Saxmundham Road Leiston Suffolk	An outline planning application for up to 187 dwellings to include car parking, open space provision with associated infrastructure and access.	Approved	Leiston	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	This development scheme is for outline parameters; no reserved matters have subsequently come forward. There is a limit for these to be submitted within three years of the permission (Jun 2017). It is unknown when the development scheme would come forward. The development scheme is located to the west of Leiston, south of the disused railway line and as such not likely to use the same local roads for construction traffic as the Proposed Development, which bypasses Leiston to the north using Lovers Lane.	No
23	<a href="#">DC/16/1322/OU</a>	Land East Of Abbey Road Leiston Suffolk	Outline Application - 100 new residential units (C3) with employment floorspace (B1) (approx. 1000m2) and family orientated public house / restaurant (A3/A4) (approx.770m2)	Approved	Leiston	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	This development scheme is for outline parameters; no reserved matters have subsequently come forward. There is a limit for these to be submitted within three years of the permission (Jun 2017). It is unknown when the development scheme would come forward. Whilst construction traffic routes for the development scheme are unknown, the scheme is located to the north of Leiston and therefore may interact cumulatively with construction traffic routes on the B1122 if this scheme comes forward at the same time as the Proposed Development. However, there would not likely be an overlap of construction traffic on Lovers Lane, Sizewell Gap or Sandy Lane. It is assumed that a construction method statement, which will need to be submitted as part of the reserved matters application, will consider construction traffic routes and could consider use other local roads if required.	No

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24	<a href="#">DC/16/0931/FUL</a>	Land West Of Mill Cottage Valley Road Leiston Suffolk	Erection of 18 dwellings including parking and external works.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	The development scheme is located within the centre of Leiston, south of the disused railway line. The scheme is considered relatively small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
25	<a href="#">DC/16/0527/OUT</a>	Gas Works Carr Avenue Leiston Suffolk IP16 4AT	Erection of 20 dwellings with associated paths, landscaping and boundary walls, gates and fences. Re-positioning of existing vehicular access to new drive and parking area.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located to north of Leiston and construction was assumed to have commenced in 2017 based on available information. Due to the size of the development scheme, it is assumed construction works would be complete prior to the peak construction traffic flows associated with the Proposed Development.	No
26	<a href="#">DC/16/0186/FUL</a>	Mandor House 16 Waterloo Avenue Leiston Suffolk	Proposed pair of semi-detached one bedroom houses on site of previously approved single dwelling reference C/04/1782	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes Construction dates	Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
27	<a href="#">DC/15/3954/AME</a>	Land South And West Of Lovers Lane Leiston Suffolk	Creation of approximately 6ha of wetland habitat, including wet reedbed, open-water and perimeter ditches within 4 groundwater basins together with marginal drier reed habitat. Soils excavated to create the basins, would be used across the wider site to establish a landscape including grassland, heathland, scrub and scattered trees. Other associated works include realignment of the existing watercourse, the relocation of groundwater abstraction boreholes, a new pump house	Approved	Leiston	ESC	1	Yes – all topic except radiological effects	Yes	No	This development scheme is considered to be complete	No

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			and fencing.									
28	<a href="#">DC/15/3616/E UL</a>	The Old Vicarage 2 King Edward Road Leiston Suffolk IP16 4HQ	Proposed erection of 2 Dwelling Houses.	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	Based on the information available online it is assumed that construction of this scheme commenced in 2018, and it is considered that it will likely be completed prior to the commencement of construction works associated with Proposed Development. Note that the development scheme is located within the centre of Leiston and is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
29	<a href="#">DC/15/3018/E UL</a>	Colonial House Station Road Leiston Suffolk IP16 4JD	Change of Use of South Wing of Colonial House to form 10 flats with associated parking, bin store, cycle store	Approved	Leiston	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application which was permitted in December 2015 contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to	No

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											the commencement of construction works.	
30	<a href="#">DC/15/2817/FUL</a>	27A Heath View Leiston Suffolk IP16 4JW	Proposed semi-detached dwelling comprising of 1 No. 3 bedroom dwelling and 1 No. 2 bedroom dwelling.	Approved	Leiston	ESC	1	Yes – within the Zol for terrestrial ecology and ornithology, LVIA, historic environment and transport.	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in September 2015 contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
31	<a href="#">DC/15/1760/FUL</a>	Sizewell Crossing Industrial Estate King Georges Avenue Leiston Suffolk	Use of land for the siting of 10 self storage containers and installation of security lighting	Approved	Leiston	ESC	1	Yes	Yes	No	Based on the information available online it is assumed that construction of this scheme commenced in June 2015 with condition for construction to commence within three years. The development comprises self-storage containers and lighting. The scheme is not likely to be complex construction or generate large volumes of construction traffic along the construction traffic route used by Proposed Development.	No
32	<a href="#">DC/14/3166/OUT</a>	Abbey View Lodges Orchard House 105 Abbey Road Leiston Suffolk IP16 4TA	Application for Outline Planning Permission with all matters reserved for redevelopment of the site for 10 dwellings. Reduced to 8 on appeal	Approved following appeal	Leiston	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme was approved in in 2016 following appeal. The development scheme is located to the outskirts of Leiston. Construction traffic routes are currently unknown but may use B1122 for construction traffic. However it is a small scale development and not likely to add large volumes of construction traffic	No

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											route used by the Proposed Development.	
33	<a href="#">DC/17/3620/P N4</a>	Sea Defences Slaughden Road Aldeburgh And Part Orfordness Beach Sudbourne Suffolk	Shingle Recycling from Sudbourne Beach to Slaughden Sea defences.	Approved	Sudbourne	ESC	1	Within Zol for transport only	Yes	No	This development scheme is at an isolated location, south of the Proposed Development. Scheme is not likely to interact with construction traffic routes.	No
34	<a href="#">DC/18/2325/E UL</a>	Part Land South West Aldringham House Aldeburgh Road Aldringham Cum Thorpe Suffolk	Residential Development of 40 Dwellings, together with associated access roads, garaging and car parking	Awaiting decision	Aldringham cum Thorpe	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation dates	The application is awaiting decision with no certainty on whether this will be permitted. The development scheme is located within Aldringham cum Thorpe; it is small in scale and over 2km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
35	<a href="#">DC/18/1492/E UL</a>	Site Of 1 And 2 Church Lane Aldringham Cum Thorpe Leiston Suffolk IP16 4QT	Demolition of a pair of cottages and two new replacement dwellings.	Approved	Aldringham cum Thorpe	ESC	1	Within Zol for transport only	Yes	Yes construction dates	The development scheme is located within Aldringham cum Thorpe. Construction traffic routes are unknown, but due to location it is not likely to use the same construction traffic routes as the Proposed Development.	No

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36	<a href="#">DC/17/4216/FUL</a>	Thorpeness Golf Club And Hotel Lakeside Avenue Thorpeness Aldringham Cum Thorpe Suffolk IP16 4NH	Proposed miniature 9 hole adventure golf course	Approved	Aldringham cum Thorpe	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	The development is for a miniature golf course and is not likely to generate large volumes of traffic likely to interact with the scheme.	No
37	<a href="#">DC/15/4028/FUL</a>	Five Acre Barn Aldeburgh Road Aldringham Cum Thorpe Suffolk IP16 4QH	Extension and alterations to barn and change of use from C3 dwellinghouse to C1 hotel, providing five B&B units, managers accommodation and support space. Alterations to site entrance and connection to mains sewer. Existing dwelling to be demolished.	Approved	Aldringham cum Thorpe	ESC	1	Within ZOI for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in November 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
38	<a href="#">DC/15/2462/FUL</a>	Land East Of Seadune North End Avenue Thorpeness Aldringham Cum Thorpe Suffolk	Sea defence wave ramp constructed from rock filled wire baskets (Gabions). The defence will span a 70M undefended length linking to Gabion defences to the North and South	Approved	Aldringham cum Thorpe	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	This development scheme is at an isolated location, south of the Proposed Development. Scheme is not likely to interact with construction traffic routes.	No
39	<a href="#">DC/15/1696/FUL</a>	Thorpeness Golf Club Thorpeness And Aldeburgh Hotels Lakeside Avenue Thorpeness Suffolk IP16 4LX	Proposed erection of new steel portal building to replace former fire damaged buildings. Also to erect new steel portal tractor and trailer store with hard standing area.	Approved	Aldringham cum Thorpe	ESC	1	Within ZOI for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in July 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No

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40	<a href="#">DC/15/1349/F UL</a>	Coxswains Cottage 2-3 South Cottages The Haven Thorpeness Aldringham Cum Thorpe Suffolk IP16 4NW	Convert single dwelling back to two dwellings	Approved	Aldringham cum Thorpe	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in July 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
41	<a href="#">DC/16/0915/F UL</a>	Fen Lodge Fenstreet Road Westleton Suffolk IP17 3NU	Installation of 2no. shepherd's huts for use as short stay lettable holiday units. Associated facilities to include WC/shower extension, parking and soft landscaping. Existing use - C3a residential to include proposed use - provision for holiday/business use	Approved	Westleton	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in April 2016, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
42	<a href="#">DC/14/3227/F UL</a>	Land Adjoining New Cottages Chapel Road Eastbridge Theberton Suffolk	Erection of 2 semi-detached dwellings, outbuildings and parking	Approved	Theberton	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in April 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
43	<a href="#">DC/18/1496/F UL</a>	Cakes And Ale Caravan Park Abbey Lane Leiston Suffolk IP16 4TE	Demolition of two-storey dwelling and use of land for stationing of 3 x No. static caravans	Approved	Theberton	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is at an isolated location, north-west of Leiston. Scheme is not likely to interact with construction traffic routes of the Proposed Development.	No

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44	<a href="#">DC/15/5037/OU</a>	The Firs 65 Leiston Road Knodishall Saxmundham Suffolk IP17 1UQ	Improvement to existing vehicular access to form a shared vehicular access and erection of 2 new dwellings to the rear of The Firs, 65 Leiston Road, Knodishall.	Approved	Knodishall	ESC	1	Within ZOI for transport only	Yes	No	The permission is for outline parameters; reserved matters application permitted in 2017, which outlined construction to take approximately 12 months. Due to location, it is not likely to use same construction traffic routes as the Proposed Development.	No
45	<a href="#">DC/17/4977/FL</a>	Knodishall Hall Church Road Knodishall Suffolk	surfacing of historic access driveway and new link and conversion of barn buildings (Lower Bullock Yard) into a dwelling with ancillary workshop and studio and a holiday let.	Approved	Knodishall	ESC	1	Within ZOI for transport only	Yes	No	Considered to be a change of use and not likely to interact with Proposed Development.	No
46	<a href="#">DC/18/4741/FL</a>	Friston Hall Saxmundham Road Friston IP17 1NL	Conversion of two outbuildings to offices. Conversion of one outbuilding to dwelling with part office. Separation of historical part of Grade 2 listed property from later part to form two separate dwellings. Erection of farm office	Awaiting decision	Friston	ESC	1	Within ZOI for transport only	Yes	Potentially yes construction dates	The application is awaiting decision with no certainty on whether this will be permitted. However the development scheme is considered to be a change of use and not likely to interact with Proposed Development.	No
47	<a href="#">DC/17/4746/FL</a>	Firs Farm Buildings Farnham Road Friston IP17 1NS	Conversion of Farm Buildings to Provide 6 Dwellings	Awaiting decision	Friston	ESC	1	Within ZOI for transport only	Yes	Potentially yes Construction dates	The application is awaiting decision with no certainty on whether this will be permitted. However, the development scheme is to the south of Frishton and is considered to be small scale and not likely to interact with the Proposed Development due to location.	No
48	<a href="#">DC/16/2731/FL</a>	The Bungalow Chases Lane Friston Suffolk IP17 1PJ	Erection of detached dwelling and garage (including access off Chases Lane) including new sewerage treatment plant following demolition of The Bungalow	Approved	Friston	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	This development scheme is located to the south of Friston, and is considered to be small scale and not likely to interact with the Proposed Development.	No

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49	<a href="#">DC/14/0089/FUL</a>	The Covert 35 Lee Road Aldeburgh Suffolk IP15 5EY	Erection of two dwellings (existing two dwellings to be demolished)	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in March 2014, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
50	<a href="#">DC/14/3299/FUL</a>	Beachside 7 Hertford Place Aldeburgh Suffolk IP15 5DB	Proposed alterations and extension to "Beachside" to create two houses.	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in February 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
51	<a href="#">DC/15/0622/FUL</a>	Land Between 19 And 21 Britten Close Aldeburgh Suffolk	Erection of 4 flats (3x1 bed, 1x 2bed) - Replacement application for DC/14/3847/FUL	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in May 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No

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52	<a href="#">DC/15/4166/FUL</a>	The Red House Golf Lane Aldeburgh Suffolk IP15 5PZ	Erection of single storey detached building of approx 148m2 to provide space for education and recital use, with secondary support spaces in the form of a lobby, WC's and an equipment store. It will be used in connection with the existing activities of the Britten-Pears Foundation and other groups at The Red House, including groups of schoolchildren, adult learners, community groups and occasional public events.	Approved	Aldeburgh	ESC	1	Within ZOI for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in May 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to the commencement of construction works.	No
53	<a href="#">DC/16/1226/FUL</a>	Land Between 36 And 38 Leiston Road Aldeburgh Suffolk	Construction of 2no semi-detached houses	Approved	Aldeburgh	ESC	1	Within ZOI for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in May 2016, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to peak traffic flows associated with the Proposed Development. However, the development scheme is considered small in scale and would use likely use different construction routes than the Proposed Development due to location.	No
54	<a href="#">DC/15/3103/FUL</a>	Land Between 36 And 38 Leiston Road Aldeburgh Suffolk	Provision of 5 x 3-bedroom dwellings on land behind the old Fairways Laundry building.	Approved	Aldeburgh	ESC	1	Within ZOI for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted in February 2016, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to peak traffic flows associated with the Proposed Development. However, the	No

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											development scheme is considered small in scale and would use likely use different construction routes than the Proposed Development due to location.	
55	<a href="#">DC/17/1462/FUL</a>	Police Station Leiston Road Aldeburgh IP15 5PP	Demolition of former police station, creation of new access, public open space, erection of 19 dwellings including 6 affordable dwellings and all associated works	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	Yes Construction dates	This development scheme is located in Aldeburgh and is considered relatively small in scale. Based on available online information, it is considered that construction work commenced in 2018. Whilst construction traffic routes for the scheme are not known, they would use likely use different construction routes (such as A1094) than the Proposed Development due to location.	No
56	<a href="#">DC/17/3162/FUL</a>	Machinery Store Kings Field Victoria Road Aldeburgh Suffolk	Change of use of existing building to Gymnasium.	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development.	No
57	<a href="#">DC/18/2313/FUL</a>	Former East Suffolk Hotel 152 High Street Aldeburgh Suffolk IP15 5AQ	Change of use of part of building from B1(a) to C3. Alterations and extensions to form 4no. residential flats together with associated works and refurbishments	Approved	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No

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58	<a href="#">DC/18/4126/FUL</a>	Land Adjacent To Telegraph Barn Warren Hill Lane Aldeburgh Suffolk IP15 5QB	Construction of 4 No. 2 storey detached dwellings, and associated external works.	Awaiting decision	Aldeburgh	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation Dates	The application is awaiting decision with no certainty on whether this will be permitted. However, the development scheme is within in Aldeburgh and is small scale in nature. Construction traffic routes for the scheme are not known, however, would use likely use different construction routes (such as A1094) than the Proposed Development due to location.	No
59	<a href="#">DC/18/4969/FUL</a>	75 High Street Aldeburgh IP15 5AU	Remodelling of front elevation to include new roof with dormer windows to facilitate insertion of second floor. Two-storey and first floor rear extensions and change of use from shop and house to 3 x No. self-contained flats	Awaiting decision	Aldeburgh	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
60	<a href="#">DC/16/0444/COU</a>	Middleton Village Hall Mill Street Middleton Suffolk	Change of Use of part of Agrucultural Field to provide overflow car parking	Approved	Middleton	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
61	<a href="#">DC/15/4334/FUL</a>	Suncot Middleton Moor Middleton Suffolk IP17 3LN	Demolition of two existing semi-detached cottages and replace with two new semi-detached dwellings.	Approved	Middleton	ESC	1	Within Zol for transport only	Yes	No	The application for this development scheme was permitted in January 2016 with condition for construction to commence within three years. Non-material amendments submitted and approved later in 2016. It is assumed that construction has commenced and would be completes prior to the peak construction traffic year.	No

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62	<a href="#">DC/15/0325/FUL</a>	Land Adjoining Green Garth Mill Street Middleton Suffolk	Construct 3 detached and 4 semi-detached dwellings, together with car parking and construction of service approach drive, utilising existing access point.	Approved	Middleton	ESC	1	Within Zol for transport only	Yes	No	Unknown if construction has commenced. Application permitted in May 2015 with condition for construction to commence within three years. Non-material amendments submitted and approved in 2016. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No
63	<a href="#">DC/14/0329/OUT</a>	Land Adjoining Green Garth Mill Street Middleton Suffolk	Use of land for the erection of 6 dwellings (of which 2 are to be affordable houses) together with car parking and construction of service approach drive utilising existing access point.	Approved	Middleton	ESC	1	Within Zol for transport only	Yes	No	Unknown if construction has commenced. Application permitted in August 2014 with condition for construction to commence within three years. Non-material amendments submitted and approved later in 2016. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No
64	<a href="#">DC/14/0478/LBC</a>	Westwood Lodge Lodge Road Blythburgh Suffolk IP19 9NB	Retention of works carried out in connection with change of use of curtilage listed outbuilding to 2 No. 1 bed holiday lets.	Approved	Walberswick	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
65	<a href="#">DC/18/4818/SCO</a>	High Lodge Haw Wood Hinton Suffolk IP17 3QT	Change of use of part of golf course to land for the siting of holiday lodges	Awaiting decision	Blythburgh	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No

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66	<a href="#">DC/14/2528/P N3</a>	Redcap Farm Hinton Road Hinton Blythburgh Suffolk IP17 3RG	To create one 2 bedroom dwelling and one 3 bedroom dwelling with joint access to lane shared with Redcap Farm.	Approved	Blythburgh	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development. A subsequent application was submitted for this development scheme site; however it was refused. It has been assumed based on 2014 application, it has either not been progressed or will be complete prior to the peak construction traffic associated with the Proposed Development.	No
67	<a href="#">DC/14/0477/F UL</a>	Westwood Lodge Lodge Road Blythburgh Suffolk IP19 9NB	Retention of converted curtilage listed outbuilding for use as 2 no. 1 bed holiday lets	Approved		ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
68	<a href="#">DC/18/2012/S CO</a>	Park Farm London Road Thorington Suffolk	Environmental Impact Assessment Scoping Opinion request for additional poultry houses and ancillary structures	EIA Scoping Opinion	Thorington	ESC	1	Within Zol for transport only	Yes	Potentially yes Construction dates operation dates	This development scheme is located approximately 10km from Proposed Development boundary. It is not an application at this stage and is instead a request for scoping opinion. However, based on the information available, no significant increases in HGV are anticipated and scheme is not likely to interact with the Proposed Development.	No

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ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
69	<a href="#">DC/14/0420/OU</a>	Land Between Station Garage And Railway Cottage Main Road Darsham Suffolk	Erection of 82 bedroom hotel, car parking and associated works	Approved	Darsham	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction for this scheme has commenced. The application was permitted in May 2014 and reserved matters have subsequently come forward. The development scheme is to the North Yoxford and would likely use A12 for construction traffic, but not use the same local roads as the Proposed Development. It has been assumed that construction has commenced and would be completed prior to peak construction traffic associated with the Proposed Development.	No
70	<a href="#">DC/13/2933/OU</a>	Land To The Rear Of 1 And 2 Chapel Cottages Adjoining The Street Darsham Suffolk	Erection of new village hall, creation of village green, erection of 20 houses including 6 affordable homes, access and private roads	Approved	Darsham	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction for this scheme has commenced. The application was permitted in June 2015 and reserved matters have subsequently come forward. The development scheme is to the North Yoxford and would likely use A12 for construction traffic but not likely to use the same local roads as the Proposed Development. It has been assumed that construction has commenced and would be completed prior to peak construction traffic associated with the Proposed Development.	No
71	<a href="#">DC/18/1394/OU</a>	Beaubelle, Part Side Garden Westleton Road Yoxford IP17 3LD	Construction of 2no. new two storey private residential dwellings with upgraded vehicular access, parking & turning area.	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located to the east of Yoxford and is close to 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum Zol?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
72	<a href="#">DC/18/0788/FUL</a>	Cherry Lodge Little Street Yoxford IP17 3HP	Erection of 2 No. dwellinghouses and detached cartlodges with associated highways access, parking & landscaping.	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located to west of Yoxford and is close to 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
73	<a href="#">DC/16/2077/OUT</a>	Cavan Cottage High Street Yoxford Saxmundham Suffolk IP17 3EU	New additional detached 3 Bed dwelling within the curtilage of Cavan Cottage	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	Yes construction dates	This development scheme is located within Yoxford and is close to 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
74	<a href="#">DC/15/4266/FUL</a>	Cherry Lodge Little Street Yoxford Suffolk IP17 3HP	Erection of 2 new dwellings, together with garages and new access (re-submission of DC/15/1432/FUL).	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	Yes Construction dates	This development scheme is located to the west of Yoxford and is close to 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
75	<a href="#">DC/15/2846/OUT</a>	Beaubelle Westleton Road Yoxford Saxmundham Suffolk IP17 3LD	Erection of a pair of detached dwellings and formation of vehicular access	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	No	The permission is this development scheme is for outline parameters; no reserved matters have subsequently come forward. There is a limit for these to be submitted within three years of the permission (dated October 2015). It is unknown when the development scheme would come forward. It is assumed that the scheme would either not come forward or would be complete prior to peak construction traffic year.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
76	<a href="#">DC/15/0507/F UL</a>	The Coal Yard House High Street Yoxford Suffolk IP17 3EP	Extensions and alterations to existing single dwelling (formerly two dwellings) to create two dwellings.	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted July 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to peak construction traffic year.	No
77	<a href="#">DC/14/3937/F UL</a>	The Scaffold Yard Middleton Road Yoxford Suffolk	Demolition of existing derelict building and erection of 4 dwellings with associated landscaping work.	Approved	Yoxford	ESC	1	Within Zol for transport only	Yes	No	It is unknown if construction of this development scheme has commenced. The application, which was permitted February 2015, contained a condition for construction to commence within three years. It is assumed that the scheme would either not come forward or would be complete prior to peak construction traffic year.	No
78	<a href="#">DC/16/1848/F UL</a>	Carlton Park Industrial Estate Ronald Lane Kelsale Cum Carlton Suffolk	Provision of 34 additional car parking spaces	Approved	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a car park and is not likely to interact with the Proposed Development	No
79	<a href="#">DC/16/0424/F UL</a>	Boundary Farm East Green Road Kelsale Cum Carlton Suffolk	A change of use from agricultural land to camping site. The proposed application is for 6 tents as holiday accommodation as part of farm diversification and viability.	Approved	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of land use and is not likely to interact with the Proposed Development	No
80	<a href="#">DC/15/2683/O UT</a>	Land Adjacent To Kelvin Rosemary Lane Kelsale Cum Carlton Saxmundham Suffolk	Outline planning application for two further dwellings	Approved	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	No	Unknown if construction has commenced. Application permitted in October 2015 with condition for construction to commence within three years. Non-material amendments submitted and approved later in 2017. It is assumed that construction has commenced and would be completed	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum Zol?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
		IP17 2QT									prior to the peak construction traffic year.	
81	<a href="#">DC/14/0916/FUL</a>	Part Land At Mill Farm Rosemary Lane Kelsale Cum Carlton Suffolk	Use of existing Caravan and camping club site for 7 further touring caravans.	Approved	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	No	The development scheme is for a change of land use and is not likely to interact with the Proposed Development	No
82	<a href="#">DC/18/3706/FUL</a>	1-2 Curlew Cottages Curlew Green Kelsale Cum Carlton Suffolk IP17 2RA	Demolition of existing derelict two cottages and erection of 2 three bedroom cottages	Awaiting decision	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	Potentially yes construction dates operation Dates	The application is awaiting decision with no certainty on whether this will be permitted. However, the development scheme is located within Kelsale cum Carlton and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
83	<a href="#">DC/18/2907/OUT</a>	Land South Of Carlton Road Kelsale IP17 2NP	Erection of 2 no. single-storey detached dwellings with garages.	Approved	Kelsale cum Carlton	ESC	1	Within Zol for transport only	Yes	Yes Construction dates	The development scheme is located Kelsale cum Carlton and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
84	<a href="#">DC/18/2621/FUL</a>	Land Off Main Road Kelsale Cum Carlton Suffolk	Erection of 42no. new dwellings with associated new access road.	Awaiting decision	Kelsale cum Carlton	ESC	1	Within ZOI for transport only	Yes	Potentially yes Construction dates Operation Dates	The application is awaiting decision with no certainty on whether this will be permitted. However, the development scheme is located within Kalsale cum Carlton and is small in scale, almost 10km from the Site boundary. Whilst construction traffic routes for this development scheme are unknown it is likely to use the A12, which forms part of the strategic road network. The scheme is not likely to use same local roads as the Proposed Development.	No
85	<a href="#">DC/18/0534/FUL</a>	Caravan And Camping Site Mill Farm Rosemary Lane Kelsale Cum Carlton Suffolk	Use of existing caravan & camping club site to extend the 4/5 month tenting season with up to 5 static caravans. I have regular guests that camp in tents during the height of summer and they would like to holiday in spring/autumn. Therefore, I would own and manage bookings of these static caravans.	Approved	Kelsale cum Carlton	ESC	1	Within ZOI for transport only	Yes	No	The development scheme is for a change of land use and is not likely to interact with the Proposed Development	No
86	<a href="#">DC/17/4531/PN3</a>	Barn At East Green Farm East Green Road Kelsale Cum Carlton Suffolk IP17 2PH	Conversion of southern two thirds of the building to form 3 dwellings.	Approved	Kelsale cum Carlton	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	The development scheme is located within Kalsale cum Carlton and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
87	<a href="#">DC/17/2063/FUL</a>	1 Church Close Kelsale Cum Carlton Saxmundham Suffolk IP17 2PA	Erection of new 3 bedroomed private residential property for a registered disabled person, on land severed from 1 Church Close. Alternative proposal to approval DC/15/3378/FUL	Approved	Kelsale cum Carlton	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	The development scheme is located Kalsale cum Carlton and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
88	<a href="#">DC/16/2934/FUL</a>	Carlton Park Industrial Estate Ronald Lane Kelsale Cum Carlton Suffolk	Use of land for siting of 20 no. containers for use as self storage.	Approved	Kelsale cum Carlton	ESC	1	Within ZOI for transport only	Yes	No	The development scheme is for a change of land use and is not likely to interact with the Proposed Development	No
89	<a href="#">DC/16/0506/FUL</a>	Bakery Back Of Market Place Saxmundham Suffolk IP17 1AH	Demolition of existing buildings and erection of four new dwellings and associated parking	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	The development scheme is located within Saxmundham and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
90	<a href="#">DC/18/0702/FUL</a>	Part Land East Of Northern End Beech Road Saxmundham Suffolk	Residential development of 59 residential dwellings and associated landscaping and public open space, together with a new vehicular access from existing development and associated highway infrastructure	Awaiting decision	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Potentially yes construction dates operation Dates	The application is awaiting decision with no certainty on whether this will be permitted. However, the development scheme is located within Saxmundham and is small in scale, almost 10km from the Site boundary. Whilst construction traffic routes for this development scheme are unknown it is likely to use the A12, which forms part of the strategic road network. Development scheme is not likely to use same local roads as the Proposed Development.	No
91	<a href="#">DC/17/4973/FUL</a>	Back Of Market Place Saxmundham IP17 1AG	Erection of two semi detached dwellings on land to the rear of Market Place, Saxmundham	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	This development scheme is located within Saxmundham and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
92	<a href="#">DC/17/2200/FUL</a>	Bakery Back Of Market Place Saxmundham Suffolk IP17 1AH	Re-design of permission DC/16/0506/FUL comprising demolition of existing buildings and erection of six new dwellings and associated parking	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	This development scheme is located within Saxmundham and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
93	<a href="#">DC/17/1366/FUL</a>	30 High Street Saxmundham Suffolk IP17 1AB	Subdivision of residential unit above and behind shop to provide 3 flats in place of 2	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	No	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
94	<a href="#">DC/16/3673/FUL</a>	Wingfield House Market Place Saxmundham Suffolk IP17 1AG	Repair of existing listed structures (Wingfield House) demolition of disused public toilets and out building erect pair 3 storey dwellings.provision of off road parking.	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	The development scheme is located within Saxmundham and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
95	<a href="#">DC/16/1504/FUL</a>	44 Albion Street Saxmundham Suffolk IP17 1BL	Conversion of a three bedroomed house back into 2 No. 2 bedroomed dwellings.	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
96	<a href="#">DC/15/3197/FUL</a>	Land Off South Entrance Saxmundham Suffolk IP17 1DQ	Phased erection of five separate dwellings with private parking and rear gardens along with the creation of a new garage to number 12 South Entrance, following demolition of wall between number 12 and 14 South Entrance to create site entrance	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	No	The application for this development scheme was permitted in November 2015 with condition for construction to commence within three years. Subsequent application of discharge of conditions approved in 2018. It has been assumed construction has commenced and scheme would be complete prior to peak construction traffic year of the Proposed Development.	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
97	<a href="#">DC/15/2610/FUL</a>	10 Henley Close Saxmundham Suffolk IP17 1EY	Erection of 2 no. two storey link detached dwelling with garages	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	No	The application for this development scheme was permitted in September 2015 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No
98	<a href="#">DC/14/1424/FUL</a>	White Hart Hotel 18 High Street Saxmundham Suffolk IP17 1DD	Partial demolition of later rear extensions, internal alterations, extensions to the rear and general refurbishment to create a 104 cover restaurant and kiosk shop (in outbuilding)	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	The development scheme is for a change of use and extensions, and is not likely to interact with the Proposed Development	No
99	<a href="#">DC/14/0507/FUL</a>	32 High Street Saxmundham Suffolk IP17 1AB	Erection of replacement building to provide two ground floor shop units with two first floor apartments above (existing vacant former shop building to be demolished) Previous consents refs C10/2793 and C10/2794	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	No	Unknown if construction has commenced. However, the application for this development scheme was permitted in April 2014 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year. Assumed the scheme will not come forward or scheme would be complete prior to peak construction traffic year of the Proposed Development.	No
100	<a href="#">DC/14/0169/DR</a>	48 St Johns Road Saxmundham Suffolk IP17 1BD	Demolish existing dwelling. Sub-divide plot to create two residential curtilages including erection of two new dwellings together with associated accesses, carport, detached garage and shed.	Approved	Saxmundham	ESC	1	Within ZOI for transport only	Yes	No	Unknown if construction has commenced. However, the application for this development scheme was permitted in March 2014 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year. Assumed the scheme will not come forward or scheme would be complete prior to peak construction traffic year of the Proposed	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
											Development.	
101	<a href="#">DC/18/1435/FUL</a>	Brookfields Aldecar Lane Benhall Suffolk IP17 1HN	Demolition of existing bungalow and erection of two pairs of Semi-Detached dwellings. Formation of parking area and alterations to existing vehicular access.	Approved	Benhall	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	This development scheme is located to the south of Saxmundham and is small in scale, almost 10km from the Site boundary. Due to the scale and location of the scheme, it is not likely to add large volumes of construction traffic route used by the Proposed Development.	No
102	<a href="#">DC/15/5170/OUT</a>	Land South Of Corner Cottages And Forge Close Main Road Benhall Saxmundham Suffolk	Outline Application - Erection of 9 residential units, with associated garages, parking, roads and access to main road	Approved	Benhall	ESC	1	Within ZOI for transport only	Yes	No	Application permitted in May 2016 with condition for construction to commence within three years. Assumed construction has commenced and would be complete prior to peak construction traffic year of the Proposed Development.	No
103	<a href="#">DC/15/0259/FUL</a>	Part Side Garden 2 Main Road Benhall Suffolk	Erection of one pair of semi-detached dwellings.	Approved	Benhall	ESC	1	Within ZOI for transport only	Yes	No	The application for this development scheme was permitted in July 2015 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No
104	<a href="#">DC/14/3286/CE</a>	Watering Farm Watering Lane Sternfield Suffolk IP17 1QS	Lawful development certificate for existing use: converted studio used as three holiday letting units	Approved	Strenfield	ESC	1	Within ZOI for transport only	Yes	Yes Construction dates	The development scheme is for a change of use and is not likely to interact with the Proposed Development	No
105	<a href="#">DC/14/0376/FUL</a>	Red House Farm The Street Sternfield Suffolk IP17	Proposed additional use of barn (with approval for seasonal sale of Christmas decorations) for events including weddings, functions, conferences and exhibitions	Approved	Strenfield	ESC	1	Within ZOI for transport only	Yes	Yes construction dates	The development scheme is for additional use and is construction traffic is not likely to interact with the Proposed Development	No

**NOT PROTECTIVELY MARKED**

ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum Zol?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
		1NG										
106	<a href="#">DC/14/2561/FUL</a>	Church Road Snape Suffolk	Construction of 2 registered affordable bungalows (mobility standard) and 3 private market homes, including access road, vehicular accesses, garaging, ancillary works and landscaping	Approved	Snape	ESC	1	Within Zol for transport only	Yes	No	The application for this development scheme was permitted in July 2015 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No
107	<a href="#">DC/14/3076/FUL</a>	Snape Maltings Snape Bridge Tunstall Suffolk	Conversion of Maltings buildings into 43 residential units together with workshop/exhibition space at ground floor level and associated parking and landscaping	Approved	Tunstall	ESC	1	Within Zol for transport only	Yes	No	The application for this development scheme was permitted in July 2015 with condition for construction to commence within three years. It is assumed that construction has commenced and would be completed prior to the peak construction traffic year.	No

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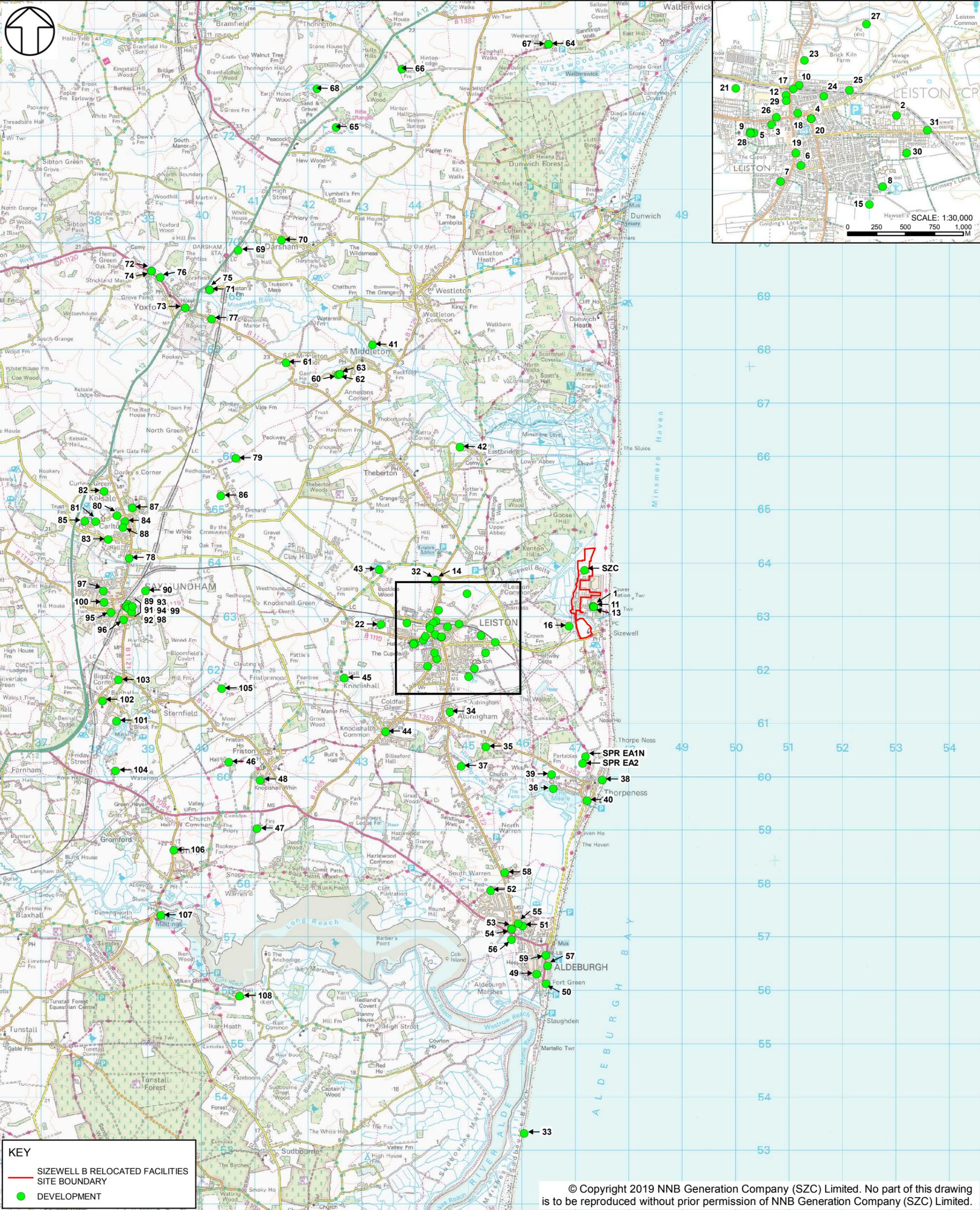
ID	Application reference	Site Address	Brief description	Status	Parish	District	Tier in line with PINS Advice Note	Within Maximum ZOI?	Progress to Stage 2	Overlap in temporal scope	Scale and nature of development likely to have a significant effect	Progress to Stage 3/4
108	<a href="#">DC/15/4903/FUL</a>	Iken Hall Barns Complex Iken Hall Farm Tunstall Road Iken Suffolk	Retrospective Change of Use of Iken Barn from 2 units of tourist accommodation (C3) to one single residential dwelling (C3). Continued use of The Ridings, The Lambings, Green Acre, Mill House and Farriers Cottage (previously approved under C05/1561/FUL) as tourist accommodation (C3). Continued use of 1 Stable Cottages and 2 Stable Cottages (previously approved under C.7470/1) as tourist accommodation (C3). Change of use of 3 Stable Cottages, Generator Room and Gardeners Den to tourist accommodation (C3). Additional use of Hardys Barn for community/exhibition use. Erection of 3 bay cart lodge and storage building for Iken Barn (demolition of existing tractor shed) and change of use of land to form residential curtilage.	Approved	Iken	ESC	1	Within ZOI for transport only	Yes	No	The development scheme is for a retrospective change of use and therefore has been completed.	No

## REFERENCES

- Ref. 1 The Planning Inspectorate (2015). Cumulative Effects Assessment  
<https://infrastructure.planninginspectorate.gov.uk/wp-content/uploads/2015/12/Advice-note-17V4.pdf>

# FIGURES

## Appendix 16.1 Long List of Cumulative Schemes



**KEY**

- SIZEWELL B RELOCATED FACILITIES SITE BOUNDARY
- DEVELOPMENT

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**DRAWING TITLE:**  
 LONG LIST CUMULATIVE DEVELOPMENTS

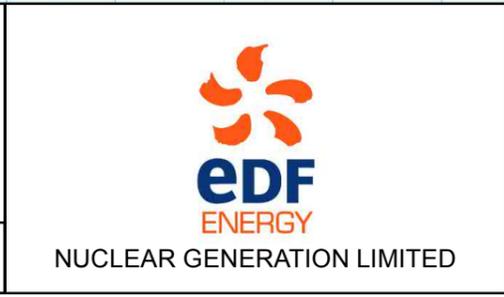
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**DRAWING NO:**  
 APPENDIX FIGURE 16.1

**DATE:** MAR 2019    **DRAWN:** J.W.    **SCALE:** 1:65,000 @A3

**DOCUMENT:**  
 SIZEWELL B RELOCATED FACILITIES ENVIRONMENTAL STATEMENT APPENDIX 16.1 CUMULATIVE DEVELOPMENTS

**SCALE BAR**  
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VOLUME II:  
TECHNICAL APPENDICES

# 17.1 Mitigation Register

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## PLATES

N/A

## FIGURES

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## APPENDIX 17-1 MITIGATION REGISTER

- 17.1.1 IEMA's Environmental Impact Assessment (EIA) Guide to Delivering Quality Development (Ref. 1) defines three sets of mitigation measures which should be considered in the assessment and control of likely significant effects:
- Primary mitigation measures – these include modifications to the location or design of the proposed development made during the pre-application phase that are an inherent part of the project, and do not require additional action to be taken.
  - Tertiary mitigation measures – these include actions that would occur with or without input from the EIA feeding into the design process. These include actions that will be undertaken to meet other existing legislative or planning requirements, or actions that are considered to be standard practices used to manage commonly occurring environmental effects.
  - Secondary mitigation measures – these include actions that will require further activity in order to achieve the anticipated outcome. These may be imposed as part of the planning consent, or through inclusion in the ES. Examples include additional controls such as noise attenuation measures or other commitments made but not included within the plans and proposals submitted with the planning application.
- 17.1.2 Each of the technical chapters of the ES (**Chapters 6-15**) has identified standard mitigation measures that are either embedded within the design (primary mitigation) or, are managerial standards and procedures implemented during construction and demolition phase or during operation of the Proposed Development ('tertiary mitigation'), or are deemed necessary above and beyond the standard approach ('secondary mitigation' measures). Primary and tertiary mitigation measures have been identified in the Environmental Design and Mitigation section of the technical chapters and secondary mitigation has been outlined under the Mitigation and Monitoring section.
- 17.1.3 A summary of these measures is provided within Appendix **Appendix Table 17.1**.

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Appendix Table 17.1: Summary of Mitigation from Technical ES Chapters

Topic	Mitigation Measures	Primary/ Tertiary/ Secondary Mitigation	Securing Mechanism
Chapter 6: Terrestrial Ecology and Ornithology	<p><b>Proposed Development Design:</b> The Proposed Development has been designed to reduce overall loss and impact on habitats and biodiversity, this included:</p> <ul style="list-style-type: none"> <li>- Relocating facilities within the existing Sizewell B station perimeter fence or providing extensions to existing buildings where reasonably practicable, so that much of the construction would take place on made ground and hardstanding;</li> <li>- Siting facilities and adjusting Site boundaries to increase the distance between construction activities and areas of habitat more valuable to reptiles and to reduce construction and permanent footprint;</li> <li>- Siting proposed footbridges between Pillbox Field and Coronation Wood to avoid the higher value habitats within Sizewell Marshes Site of Special Scientific Interest (SSSI), and placing at locations where habitat is of lower value;</li> <li>- Orientating the proposed Training Centre such that the shorter western façade faces the Site boundary, minimising light spill from the building in this direction;</li> <li>- Keeping the height of proposed buildings in the Coronation Wood Development Area below the retained tree lines on the western Site boundary, as far as reasonably practicable, to maximise the screening function of vegetation (where retained), and to screen Sizewell Marshes SSSI from light intrusion; and</li> <li>- Hedgerow planting and installation of a fence along the western edge of the pedestrian footpath located within Sizewell Marshes SSSI to provide screening for Sizewell Marshes SSSI from noise, light and anthropogenic disturbance associated with the footpath and its users.</li> <li>- Provision of a 2m high close-boarded timber fence running contiguous to the western boundary of the proposed Western Access Road to screen vehicle movements (including noise and light spill from headlights).</li> </ul>	Primary	<p><b>Planning permission for application:</b> Compliance with <b>Design and Access Statement</b> and planning drawings</p>
	<p><b>Drainage Strategy:</b> Use of Sustainable Drainage System (SuDS) to minimise surface water run-off and prevent diffuse pollution. Where appropriate this will include the incorporation of an oil/hydrocarbon/silt interception system, to prevent surface water pollution incidents reaching controlled waters within the Sizewell Marshes SSSI.</p>	Primary	<p><b>Planning permission for application:</b> Compliance with <b>Drainage Strategy</b></p>

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	<p><b>Lighting Strategy:</b> Lighting designed to minimise obtrusive light spill into sensitive landscape and ecological areas, including Sizewell Marshes SSSI, tree belts, and on Site boundaries. This will include:</p> <ul style="list-style-type: none"> <li>- Directional lighting which will be dimmable and switchable, so it is only used when there is a need for lighting the proposed Replacement and Outage Car Park and Laydown Area.</li> <li>- Bollards or surface-mounted lighting for the pedestrian walkway and footbridges. The vehicular access track to the Outage Car Park will not be lit. All lighting will be switched off when not required.</li> </ul>	Primary	<p><b>Planning permission for application:</b> Compliance with Lighting Strategy</p>
	<p><b>Landscape Design:</b> provision of planting, including of a vegetation screen (trees, scrub and gorse) to the south of the Outage Car Park at Pillbox Field. This will not only provide increased connectivity to the existing woodland belt to the east of Pillbox Field, but also valuable habitat for reptiles.</p>	Primary	<p><b>Planning permission for application:</b> Compliance with Design and Access Statement and planning drawings</p>
	<p><b>Woodland Management Plan:</b> Plans for management and enhancement of woodland on the western and southern boundaries of the Site, as well as woodland blocks and hedgerows in neighbouring fields within the wider EDF Energy Nuclear Generation Limited, herein referred to as ‘EDF Energy (NGL)’, Sizewell Estate.</p>	Primary	<p><b>Planning permission for application:</b> Compliance with Woodland Management Plan</p>
	<p><b>Construction Environmental Management Plan (CEMP):</b> All construction works will be conducted in accordance with the Outline CEMP submitted with the planning application. This will include (but not be limited to)</p> <ul style="list-style-type: none"> <li>- Temporary demountable fencing will be erected on the work area boundary;</li> <li>- Materials will not be stored within 10m, wherever feasible, of any identified water courses, surface water drains, woodland or hedgerows, or immediately upslope of the Sizewell Marshes SSSI;</li> <li>- Construction working hours will be 07:00 to 19:00 Monday to Saturday with the exception of those activities (e.g. continuous concrete pouring and steelworks) which would require 24-hour working, to reduce impact on nocturnal animals and construction lighting will be designed to minimise light spill;</li> <li>- Pre-construction ecology surveys, tree and building inspections will be undertaken in advance of site clearance works;</li> <li>- Programming of tree-felling to avoid the bird-nesting season and sensitive periods for bat maternity and hibernation periods, if possible;</li> <li>- Phasing of vegetation clearance to encourage reptiles and mammals to move</li> </ul>	Tertiary / Secondary	<p><b>Planning permission for application:</b> Compliance with the Outline CEMP</p> <p><b>Planning Condition:</b> Pre-construction ecology surveys</p>

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	<p>from the area. Clearing of vegetation will be undertaken under the supervision of a suitably qualified ecologist;</p> <ul style="list-style-type: none"> <li>- Trees, shrubs and hedgerows that will remain as part of the permanent works will be appropriately protected in accordance with the relevant guidelines;</li> <li>- A drainage cut-off channel/wall will be installed to the west of the road to help prevent spillages or run-off into Sizewell Marshes SSSI; and</li> <li>- Chemicals and hazardous materials will be stored in accordance with the existing EDF Energy (NGL)'s Technical Guidance Note (TGN) for Chemical Storage (BEG/SPEC/ENG/TGN/062) and relevant Environment Agency pollution prevention guidance, to prevent discharges into the surrounding environment, thereby protecting surrounding habitats.</li> </ul>		
	<p><b>Excavation:</b> Prior to excavation of the basement for the proposed Outage Store, a temporary sheet-piled wall will be constructed to provide a water-resistant seal. This will allow dewatering of the construction footprint of this building, while limiting the potential for dewatering to cause drawdown within Sizewell Marshes SSSI. A piling risk assessment would be undertaken to manage the risk of introducing new contamination pathways as a result of piling. Groundwater extracted from dewatering would be discharged under a suitable Environmental Permit, if required.</p>	Tertiary	<p><b>Planning permission:</b> Compliance with <b>Design and Access Statement</b> and Outline CEMP</p>
	<p><b>Bat Mitigation:</b> To mitigate for the loss of tree and potential roost resources, bat boxes would be installed on retained trees in suitable locations within the Site boundary and within the wider EDF Energy (NGL) Sizewell Estate. One bat box would be installed for every tree with medium or high bat roost potential that is due to be lost, whether or not a roost has been identified.</p>	Secondary	<p><b>Planning Condition:</b> Installation of bat boxes</p>
Chapter 7: Landscape and Visual	<p><b>Proposed Development Design:</b> The Proposed Development has been designed to reduce landscape and visual impacts through:</p> <ul style="list-style-type: none"> <li>- Design and the specification of materials/colours of the Outage Store and Training Centre are in keeping with the existing buildings and structures. The Training Centre is orientated to present the shortest elevations to the west. This façade is also windowless to minimise light spill in this direction;</li> <li>- Lighting levels along the Western Access Road would be at the minimum required for roads and directed away from the Site boundary;</li> <li>- A fence is proposed along the western edge of the Western Access Road to screen views to vehicles and vehicle lights from locations to the west and south;</li> <li>- Retaining areas of existing vegetation as far as practicable within and around</li> </ul>	Primary	<p><b>Planning permission:</b> Compliance with <b>Design and Access Statement</b>, planning drawings, Lighting Strategy and <b>Woodland Management Plan</b>.</p>

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	<p>the perimeter of the Site to provide screening of the lower elevations and provision of new planting in line with the landscape design;</p> <ul style="list-style-type: none"> <li>- Planting an area formerly proposed with the Galloper Wind Farm application to contribute to the screening of views to the Outage Car Park from Bridleway 19. The area of planting is greater than previously proposed through an extension to the northern end;</li> <li>- Planting hedgerow to the west of the proposed pedestrian walkway west of Rosery Cottages;</li> <li>- Reprofilling the landform of the Outage Car Park, and planting within Pillbox Field along the southern boundary of the Site and along the crest of the rising land on which the pillbox sits, so that there is reduced visibility of infrastructure and vehicles;</li> <li>- Directional lighting in the Outage Car Park to minimise obtrusive light, which will not be lit when not in use;</li> <li>- No lighting will be provided at the Sizewell Gap/ Sandy Lane junction;</li> <li>- Restoring the landscape of Pillbox Field with species rich grassland in accordance with the wider EDF Energy (NGL) Estate Landscape Masterplan;</li> <li>- Lighting the pedestrian walkway and pedestrian footbridges using bollard lighting to minimise light spill whilst in use. When not in use, lights will be switched off; and</li> <li>- Maintenance of proposed woodland planting in accordance with the Woodland Management Plan.</li> </ul>		
	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include measures to minimise light spill during construction and the requirement for hoardings and fencing to be provided and maintained by the contractor. All worksites will be completely fenced from public ingress.</p>	Tertiary	<b>Planning Permission:</b> Compliance with Outline CEMP
Chapter 8: Historic Environment	<p><b>Proposed Development Design:</b> To reduce the impacts on the historic environment, the Proposed Development has been designed to:</p> <ul style="list-style-type: none"> <li>- Use and respond to the existing planting around the Site to minimise visibility of the Proposed Development in views of and from heritage assets, and</li> </ul> <p>Avoid the archaeologically sensitive area at the southern end of Pillbox Field and retaining the pillbox in Pillbox Field.</p>	Primary	<b>Planning permission:</b> Compliance with <b>Design and Access Statement</b> and planning drawings
	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include:</p> <ul style="list-style-type: none"> <li>- Production and implementation of an archaeological programme of works; a staged programme of archaeological investigation, recording and</li> </ul>	Tertiary / Secondary	<b>Planning Condition:</b> Archaeological Written Scheme of Investigation

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	<p>dissemination of information to be agreed with East Suffolk Council; and</p> <ul style="list-style-type: none"> <li>- Building Recording Survey: existing Sizewell B power station facilities to be demolished would be recorded ahead of demolition. This is subject to consultation with Historic England.</li> </ul>		<p><b>Planning permission:</b> Compliance with Outline CEMP</p>
Chapter 9: Amenity and recreation	<p><b>Proposed Development Design:</b> As per measures summarised for Chapter 7: Landscape and Visual, Chapter 10 Transport and Chapter 11 Noise and Vibration.</p>	Primary	<p><b>Planning Permission:</b> Compliance with <b>Design and Access Statement</b>, planning drawings, Lighting Strategy and <b>Woodland Management Plan</b>.</p>
	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include:</p> <ul style="list-style-type: none"> <li>- Measures summarised for Chapter 7: Landscape and Visual, Chapter 10 Transport and Chapter 11 Noise and Vibration.</li> <li>- Measures to minimise dust and other emissions, such as shutting down machines when not in use, vehicle and plant maintenance and servicing, locating machinery and dust causing activities away from receptors as far as practicable, use of water to suppress dust when appropriate, containment of loads within vehicles carrying spoil and other potentially dusty materials, etc.</li> </ul>	Tertiary	<p><b>Planning permission:</b> Compliance with Outline CEMP</p>
Chapter 10 Transport	<p><b>Proposed Development Design:</b> The Proposed Development has been designed to reduce impacts on transport safety by:</p> <ul style="list-style-type: none"> <li>- Provision of access to the proposed Outage Car Park at Pillbox Field via a new access road off Sandy Lane. To improve road user safety and provide improved visibility, a modified junction will be provided at Sandy Lane / Sizewell Gap. New asphalt surfacing will also be provided along Sandy Lane between Sizewell Gap and the new access road connecting with the Outage Car Park in Pillbox Field;</li> <li>- Provision of a new 3m wide path will be provided alongside Sandy Lane for non-motorised users. This pathway will be segregated from Sandy Lane via a new hedgerow and will connect Sizewell Gap and the new access road. The surfacing of the pathway will be in accordance with standards set by the British Horse Society. Dropped kerbs will be provided where the pathway intersects the new access road.</li> </ul>	Primary	<p><b>Planning permission:</b> Compliance with <b>Design and Access Statement</b> and planning drawings</p>

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	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include (but not limited to):</p> <ul style="list-style-type: none"> <li>- Measures to control of mud entering the public highway;</li> <li>- Production and implementation of a Construction Traffic Management Plan and Construction Workforce Travel Plan;</li> <li>- Use of designated site access and access routes for Heavy Goods Vehicles (HGVs);</li> <li>- Limiting HGV deliveries to Monday to Friday 08:00-18:00 hours and on Saturdays to 09:00 – 16:00 hours;</li> <li>- Designated contractor parking and travel arrangements;</li> <li>- Measures to improve safety of movement by workforce through the Site, and the public around the Site; and</li> <li>- Use of traffic marshals during outage periods during construction to assist non-motorised users crossing the new access road connecting Sandy Lane and the proposed Outage Car Park.</li> <li>- Construction of the Western Access Road has been prioritised within the construction phasing, so that construction traffic to the Coronation Wood development could be segregated from the Sizewell B operational workforce traffic at the earliest opportunity.</li> <li>- Construction of the proposed Outage Car Park would be phased, so that access to Rosery Cottages and Bridleway 19 would not be impeded.</li> <li>- All HGV drivers working in the supply chain will be inducted in best safe driving practice prior to commencement.</li> <li>- A point of community contact will be established, enabling members of the public to report instances of unsafe driving.</li> </ul>	Tertiary / Secondary	<b>Planning permission:</b> Compliance with Outline CEMP
	<p><b>Outage management measures:</b> during operation, the following measures will be followed during outage periods:</p> <ul style="list-style-type: none"> <li>- Installation signage including signs advertising location of Outage Car Park and 'slow – horses' warning signs and temporary signage during outages for directing outage workers to the new Outage Car Park; and</li> <li>- Briefings to outage workers on location of new Outage Car Park.</li> </ul>	Primary/ Secondary	<b>Planning permission:</b> Compliance with Outage Management Information included in the <b>Planning Statement</b>

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Chapter 11: Noise and Vibration	<p><b>Proposed Development Design:</b> the Proposed Development will:</p> <ul style="list-style-type: none"> <li>- Use screw piles for the construction of pedestrian footbridges along the walkway between the Outage Car Park and the Coronation Wood Development Area.</li> <li>- Select low noise mechanical services (such as air conditioning condenser units and air handling units)</li> </ul>	Primary/ Secondary	<p><b>Planning permission:</b> Compliance with <b>Design and Access Statement</b></p> <p><b>Planning Condition:</b> Confirmation of operational plant noise</p>
	<p><b>CEMP:</b> The Contractor will be required to specify sufficient construction mitigation as part of the CEMP, so that no significant effects at noise sensitive receptors occur. This will include:</p> <ul style="list-style-type: none"> <li>- A hierarchy of methods for noise management and noise control to all activities and operations, including selection of quiet plant, working practices and techniques in accordance with good practice in BS5228 for all construction, demolition and earth moving activities.</li> <li>- Where possible, avoidance of noisy works within Coronation Wood and Pillbox Field between 13:00 and 19:00 hours on Saturdays.</li> <li>- Liaison with people who may be affected to advise them of any known short periods of potential noise or vibration impacts.</li> <li>- Provision of training and instruction to construction site staff on methods and techniques of working to minimise off-site noise and vibration impacts.</li> <li>- EDF (Energy) NGL will also have a system for the receipt and recording of any noise or vibration complaints from occupiers of noise sensitive receptors, and procedures for investigating and acting appropriately as necessary upon those complaints.</li> </ul>	Tertiary/ Secondary	<p><b>Planning permission:</b> Compliance with Outline CEMP</p>
Chapter 12: Land quality	<p><b>Proposed Development Design:</b> The following measures are included in the design of the Proposed Development to reduce impacts on land quality:</p> <ul style="list-style-type: none"> <li>- Grass reinforcement on the proposed Outage Car Park to reduce the potential impact of soil erosion and compaction; and</li> <li>- Piling is only anticipated as part of the construction of two footbridges and excavation of the Outage Store basement.</li> </ul>	Primary	<p><b>Planning permission:</b> Compliance with <b>Design and Access Statement</b></p>

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	<p><b>Drainage Strategy:</b> Use of SuDS, such as surfacing the proposed Laydown Area, Replacement Car Park with a heavy duty permeable block paving that would allow full infiltration of surface water run-off into the subsurface and/ or the provision of catchpit soakaways, provision of oil/hydrocarbon/silt interception systems, where required, in close proximity to the Sizewell Marshes SSSI.</p>	Primary	<p><b>Planning permission:</b> Compliance with Drainage Strategy</p>
	<p><b>Operational Management:</b> The Proposed Development will be operated in accordance with relevant regulations, best practice and pollution prevention guidance under the existing Sizewell B Environmental Management System. Inspection areas for contamination and radiation will be managed on a risk basis under existing Sizewell B procedures including the requirements of the existing Sizewell B Radiological Substances Permit, Nuclear Site Licence and as outlined in EDF Energy (NGL) Technical Guidance Note (TGN) for Chemical Storage (BEG/SPEC/ENG/TGN/062).</p>	Tertiary	<p><b>Existing Sizewell B Nuclear Site Licence and Environmental Permits</b></p>
	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include (but not limited to):</p> <ul style="list-style-type: none"> <li>- A piling risk assessment shall be undertaken prior to construction works.</li> <li>- Undertaking health and safety risk assessments, method statements and appropriate Personal Protective Equipment (PPE) for the protection of construction workers;</li> <li>- Training to be given to site operatives via Tool Box Talks (TBTs) on water protection measures and oil and chemical control;</li> <li>- Compliance with the Environment Agency Pollution Prevention Guidelines and implementation of appropriate measures to prevent leaks, spillages, runoff and dust, including the implementation of a Pollution Incident and Control Plan.</li> <li>- Appropriate procedures to address and manage the risks from unexploded ordnance (UXO) will be implemented; this may include a combination of UXO safety and awareness briefings, non-intrusive geophysical surveys and an on-call Explosive Ordnance Disposal (EOD) engineer during intrusive works to identify and advise on appropriate action in the event of a suspicious item being encountered.</li> <li>- Preparation and implementation of a Materials Management Plan (MMP) to document how excavated materials will be managed. Topsoil and sub-soil will be separately stockpiled and reused on Site, subject to demonstrating suitability for reuse criteria. Stockpiles will be managed to reduce soil erosion, windblown dust and surface water run-off and silt fences (or other suitable</li> </ul>	Tertiary	<p><b>Planning permission:</b> Compliance with Outline CEMP</p>

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	<p>control measures) installed to reduce runoff from bare ground;</p> <ul style="list-style-type: none"> <li>- Should contamination be encountered during the works, all material movement will cease, and advice sought from an appropriately qualified Environmental Consultant.</li> </ul>		
Chapter 13: Hydrogeology	<p><b>Proposed Development Design:</b> The following measures are included in the design of the Proposed Development to reduce impacts on hydrogeology:</p> <ul style="list-style-type: none"> <li>- Sheet piling will be installed prior to any dewatering required for the Outage Store basement to contain and limit any potential impacts of the groundwater lowering on the wider groundwater body; and</li> <li>- Piling is only anticipated as part of the construction of two footbridges and excavation of the Outage Store basement.</li> </ul>	Primary	<b>Planning permission:</b> Compliance with <b>Design and Access Statement</b>
	<p><b>Drainage Strategy:</b> Use of SuDS such as surfacing the proposed Laydown Area and Replacement Car Park with a heavy duty permeable block paving that would allow full infiltration of surface water run-off into the subsurface and/ or the provision of catchpit soakaways, and the provision of oil/hydrocarbon/silt interception systems, where required, in close proximity to the Sizewell Marshes SSSI.</p> <p>Soakaways will only be adopted for facilities outside of the existing Sizewell station perimeter fence line and will be designed in accordance with CIRIA SuDS Manual C753.</p>	Primary	<b>Planning permission:</b> Compliance with Drainage Strategy
	<p><b>Operational Management:</b> The Proposed Development will be operated in accordance with relevant regulations, best practice and pollution prevention guidance under the existing Sizewell B Environmental Management System. Inspection areas for contamination and radiation will be managed on a risk basis under existing Sizewell B procedures including the requirements of the existing Sizewell B Radiological Substances Permit, Nuclear Site Licence and as outlined in EDF Energy (NGL) Technical Guidance Note (TGN) for Chemical Storage (BEG/SPEC/ENG/TGN/062).</p>	Tertiary	<b>Compliance with existing Sizewell B Nuclear Site Licence and Environmental Permits</b>
	<p><b>CEMP:</b> All construction works will be conducted in accordance with the CEMP. This will include (but not be limited to):</p> <ul style="list-style-type: none"> <li>- Measures outlined under Chapter 12: Land Quality;</li> <li>- An assessment of the likely volumes of groundwater that will be pumped will be undertaken once detailed design information is available and prior to the temporary works being carried out. The dewatering and groundwater management and discharge methodology for any pumped groundwater will be included in the contractor's final CEMP;</li> </ul>	Tertiary / Secondary	<b>Planning permission:</b> Compliance with Outline CEMP

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	<ul style="list-style-type: none"> <li>- Minimising construction working areas as far as practicable near Sizewell Marshes SSSI to minimise intrusion.</li> <li>- Undertaking groundwater monitoring at locations installed as part of the Coronation Wood ground investigation will be continued during the construction phase to enable an ongoing review of potential impacts and where necessary implement additional mitigation measures.</li> </ul>		
Chapter 14: Surface Water and Flood Risk	<p><b>Drainage Strategy:</b> Use of SuDS, such as surfacing the proposed Laydown Area, Replacement Car Park with a heavy duty permeable block paving that would allow full infiltration of surface water run-off into the subsurface, and/ or provision of catchpit soakaways and appropriate oil/fuel controls , where required, in close proximity to the Sizewell Marshes SSSI. The strategy for surface water drainage has been designed to ensure no surface water flooding from piped networks occurs during a 1 in 30 year rainfall event (+20% climate change allowance), emulate greenfield run-off characteristics, where practicable.</p>	Primary	<b>Planning permission:</b> Compliance with Drainage Strategy
	<p><b>CEMP:</b> All construction works will be carried out in compliance with CEMP. This will include (but not be limited to):</p> <ul style="list-style-type: none"> <li>- Provision of details of the measures that will be followed to ensure that surface runoff, sediment and other contaminants generated during the construction process do not enter the surface drainage network or controlled waters, including the specification of a construction drainage strategy;</li> <li>- Avoid locating temporary construction compounds and storing materials or equipment within Flood Zone 3 or areas at significant risk of flooding from other sources;</li> <li>- Installation of a perimeter cut-off drain, notably to the west of the Western Access Road to provide maximum protection to the adjacent Sizewell Marshes SSSI.</li> <li>- Measures outlined under Chapter 12: Land Quality and Chapter 13: Hydrogeology;</li> <li>- Monitoring of surface water flows and water quality during the construction phase in order to ensure that there are no impacts on surface water receptors.</li> </ul>	Tertiary / Secondary	<b>Planning permission:</b> Compliance with Outline CEMP

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Chapter 15: Radiological effects	<p><b>Proposed Development Design:</b> The proposed Outage Store has been designed to shield onsite workers from external radiation originating from any radioactive materials stored within the building and the building is positioned away from Site boundaries and receptors. In addition, the Outage Store would have a basement area below ground level which can be used to store items which require higher levels of shielding.</p>	Primary	<b>Detail Elements:</b> Compliance with <b>Design and Access Statement</b>
	<p><b>Radiological Controls:</b> To ensure compliance with the existing Sizewell B Nuclear Site Licence, Environmental Permit and Ionising Radiation Regulations 2017:</p> <ul style="list-style-type: none"> <li>- A radiological survey of the existing Outage Store will be undertaken by the Sizewell B Health Physics team to confirm if any further measures are required prior to the start of demolition works.</li> <li>- If required following the radiological survey, EDF Energy (NGL) will develop a strategy to decontaminate and demolish the radioactive structures and determine how the radioactive waste would be managed, including suitable monitoring protocols. This strategy would be agreed in consultation with the Environment Agency (EA).</li> <li>- Waste from the works will be appropriately monitored and characterised in accordance with EDF Energy (NGL) company specifications.</li> <li>- Prior to construction of the relocated facilities, EDF Energy (NGL) will inform the EA of any Environmental Monitoring Programme sampling locations where there is a potential for results to be affected.</li> <li>- Any transfer of radioactive material to the Outage Store within the Site would be strictly controlled and managed under existing, robust arrangements which includes strict barrier control to and from any designated area.</li> <li>- Any radioactive material stored in the Outage Store would be subject to strict regulatory controls in accordance with the Nuclear Site Licence and Environmental Permit. This includes ensuring controls on access and ensures that doses to workers are As Low As Reasonably Practicable (ALARP).</li> </ul>	Tertiary	<b>Compliance with existing Sizewell B Nuclear Site Licence and Environmental Permits</b>

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<b>Additional Measures</b>			
Dust and air quality management measures	<p><b>CEMP:</b> All construction works will be conducted in accordance with the measures set out within the CEMP to minimise dust and emissions to air. This will include (but not be limited to):</p> <ul style="list-style-type: none"> <li>- The method of demolition will be chosen to reduce the likelihood of dust and appropriate dust suppression will be used.</li> <li>- Ensuring all loads are dampened down where required and sheeted including the sides for all vehicles carrying spoil and other dusty materials to and from site prior to transport.</li> <li>- Control of cutting or grinding material on site such that any dust emissions created by these processes is suppressed or minimised and does not adversely affect the surrounding environment;</li> <li>- Restricting drop heights during lorry loading to the minimum required for safe and efficient operations, thereby reducing dust emissions;</li> <li>- Dust suppression will be carried out to minimise dust escaping beyond the site boundary;</li> <li>- Machines with intermittent use will be shut down in the intervening period between work or throttled down to a minimum.</li> </ul>	Tertiary	<b>Planning permission:</b> Compliance with Outline CEMP
Conventional Operational Waste Management	<p><b>Operational Management:</b> Conventional waste produced during the operation of the Proposed Development will be managed in line with the existing EDF Energy (NGL) procedures for Sizewell B which require compliance with all relevant waste legislation, including the application of Waste Hierarchy, and the application of the precautionary principle for the avoidance of environmental damage from waste, principles of proximity and self-sufficiency and optimisation. Conventional waste is segregated to facilitate effective recycling and to recover value from it where possible. Performance against the Waste Hierarchy will be monitored on a regular basis in line with the requirements of the EDF Energy (NGL)'s Integrated Management System. Removal of waste from the Sizewell B site will be undertaken in compliance with Duty of Care legislation.</p>	Tertiary	<b>Compliance with existing Sizewell B Integrated Management System</b>

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Construction Waste management	<b>Site Waste Management Plan (SWMP):</b> All construction works will be conducted in accordance with the Outline Construction Waste Management Strategy submitted with the planning application as an appendix to the Outline CEMP. All waste will be managed using existing site procedures and processes throughout all phases of the development in accordance with the principles discussed above. The Contractor will be required to produce and implement a SWMP to demonstrate compliance.	Tertiary	<b>Planning permission:</b> Compliance with Outline Construction Waste Management Strategy (appended to Outline CEMP)

## REFERENCES

- Ref. 1 IEMA, (2016); Environmental Impact Assessment Guide to Delivering Quality Development  
<https://www.iema.net/assets/newbuild/documents/Delivering%20Quality%20Development.pdf> [Accessed 30 January 2019]

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