

Net Zero Teesside Project

Planning Inspectorate Reference: EN010103

Land at and in the vicinity of the former Redcar Steel Works site, Redcar and in Stocktonon-Tees, Teesside

The Net Zero Teesside Order

Document Reference: 7.15.1 Third Change ES Addendum Volume I – Main Text

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended)

The Infrastructure Planning (Applications: Prescribed Forms and Procedure Regulations 2009 - Regulation 5(2)(a)



Applicants: Net Zero Teesside Power Limited (NZT Power Ltd) & Net Zero North Sea Storage Limited (NZNS Storage Ltd)

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1. Introduction and Scope of Third Environmental Statement Addendum

1.1 Introduction

Background

- 1.1.1 The Applicants are seeking development consent for the construction, operation and maintenance of the Net Zero Teesside Project ('NZT'), including associated development (together the 'Proposed Development') on land at and in the vicinity of the former Redcar Steel Works site, Redcar, and on land in Stockton-on-Tees, on Teesside (the 'Site'). The former Redcar Steel Works site is within the landownership of South Tees Development Corporation (STDC).
- 1.1.2 On 19 July 2021, Net Zero Teesside Power Limited and Net Zero North Sea Storage Limited (the 'Applicants') made an application for a Development Consent Order (DCO) under the Planning Act 2008 to the Planning Inspectorate (who considers such applications on behalf of the Secretary of State for Business, Energy and Industrial Strategy) (the 'DCO Application'). The DCO Application was accepted for examination on 16 August 2021.
- 1.1.3 A change request relating to the application (referred to in this document as the First Change Request) was made by the Applicants in April 2022 and was accepted into the Examination by the Examining Authority on 6 May 2022. An addendum to the environmental statement (First ES Addendum) [AS-049 to AS-132] was submitted to assess the effect of the changes on the significance of effects and the conclusion of the submitted original ES [APP-082 to APP-347].
- 1.1.4 A change request relating to the application (referred to in this document as the Second Change Request) was made by the Applicants in August 2022 and was accepted into the Examination by the Examining Authority in September 2022. An addendum to the environmental statement (Second ES Addendum) [REP6-106 to REP6-108] was submitted to assess the effect of the changes on the significance of effects and the conclusion of the submitted First ES Addendum [AS-049 to AS-132] and the submitted original ES [APP-082 to APP-347].
- 1.1.5 The Applicants notified the Examining Authority on 28 October 2022 that they intend to submit a request to make further changes to the Application [REP11-011].
- 1.1.6 There is one change proposed, which results in a reduction in the Order Limits as described in the Applicants' notification of further proposed changes report (the 'Notification of Further Proposed Changes' [REP11-011]). The Applicants

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- are now submitting a formal change request application referred to as the 'Third Change Request'.
- 1.1.7 The changes have been numbered sequentially carrying on from the First Change Request, resulting in the change referenced in this report being referred to as change 18.
- 1.1.8 The Proposed Development Change relates solely to the removal of Work No. 5A (repair and upgrade of the existing water discharge infrastructure to the Tees Bay) resulting in a reduction in Order Limits (Works No. 5A).
- 1.1.9 This Third ES Addendum is provided in support of the Third Change Application that is now being submitted to the Examining Authority.

Purpose of this document

- 1.1.10 The proposed development is described in the original Environmental Statement [APP-082 to APP-347] submitted as part of the DCO Application (hereafter referred to as the 'Original ES'), the First ES Addendum [AS-049 AS 132] and the Second ES Addendum [REP6-046 REP6-108]. This Third ES Addendum considers if any of the proposed additional changes will alter the scope and conclusions of the Original ES as amended by the First ES Addendum and the Second ES Addendum.
- 1.1.11 This Third ES Addendum should be read in conjunction with the Original ES, the First ES Addendum and the Second ES Addendum. This document also identifies where the Third ES Addendum text supersedes the Second ES Addendum, First ES Addendum or the Original ES text.
- 1.1.12 This Third ES Addendum only considers how the Proposed Development Change affects the assessments presented as part of the Original ES, the First ES Addendum and Second ES Addendum. This Third ES Addendum does not consider changes in legislation or baseline conditions and if there are no materially different effects, i.e. if no significant change to an assessment is presented as part of the Third ES Addendum, then conditions are the same as those listed in the Original ES, the First ES Addendum and the Second ES Addendum.
- 1.1.13 Whilst the Proposed Development Change is described as a change (primarily reductions) to the extent of the Order Limits, the driver for those changes is refinements to the extent of works required in connection with the Proposed Development. As it is the changes to extent of works that triggers potential changes to the environmental effects reported on in the Original ES, the First ES Addendum, the Second ES Addendum and this Third ES Addendum assess the impact of the modifications to the extent of works by reference to Work Numbers.

1.2 Scope and methodology of the ES Addendum

Overview

1.2.1 Throughout this Third ES Addendum, references are given to the Examination Library numbers assigned by the Examining Authority (identified within square



brackets, e.g. [APP-043] for information previously accepted for examination and to the Applicants' document numbers ('Application Document Ref.' numbers) for documents which have yet to be assigned an Examination Library number by the Examining Authority.

- 1.2.2 A glossary of terms and list of abbreviations used in this Third ES Addendum is provided within the original ES Vol I Cover and Contents [APP-082].
- 1.2.3 The general assessment methodology and topic-specific methodologies, relevant legislation, policy and guidance, key assumptions and limitations set out in Original ES (specifically Chapter 2 Assessment Methodology submitted with the DCO Application [APP-084]) remain unchanged unless specifically stated in this Third ES Addendum.

1.3 Structure of this ES Addendum

- 1.3.1 This ES Addendum comprises of two volumes:
 - Third ES Addendum Volume I (this document) describes the
 modifications to the extent of Work Numbers which have triggered the
 Proposed Development Changes and outlines whether the changes
 affect the original ES technical chapters and appendices [APP-084 to
 APP-107 and APP-237 to APP-348] and original ES figures [APP-109 to
 APP-236] submitted with the DCO Application or where relevant those
 considered in the First ES Addendum or those considered in the Second
 ES Addendum; and
 - Third ES Addendum Volume II (Document Ref. 7.11.2) provides updated ES figures.
- 1.3.2 This Third ES Addendum is also accompanied by an ES Addendum Non-Technical Summary (NTS) (Document Ref. 7.10) which provides a summary of the key findings from the ES Addendum in non-technical language. The ES Addendum NTS provides an update to the NTS submitted with the DCO Application [APP-081]



2. Proposed Development Change

2.1 Introduction

2.1.1 This chapter of the Third ES Addendum presents a description of the Proposed Development Change and evaluates how the change in area of the relevant Work Numbers modifies the description of the Proposed Development and the assessment outcomes as presented in the Original ES, First ES Addendum and Second ES Addendum.

2.2 Evaluation of Proposed Development Change

- 2.2.1 Since the submission of the Second ES Addendum, one change to the Order Limits has been identified through continued FEED work. The Applicants informed the Examining Authority of the proposed changes in the Change Notification.
- 2.2.2 The change has resulted in changes in the area of the Work Numbers for the Proposed Development, which are presented in Schedule 1 of the draft DCO.
- 2.2.3 Each of the modifications to Work Numbers associated with the Proposed Development Changes is explained below. Where necessary, Section 3 of this document provides an explanation of how chapters of the Original ES and First ES Addendum would change as a result of the Proposed Development Changes if the description of the Proposed Development has changed as a result.
- 2.2.4 An updated Site Location Plan is presented as Figure 1.1 of ES Addendum Volume II (Document Ref. 7.15.2). The Order Limits are presented in Figure 3.1 and Figure 3.2 of the ES Addendum Volume II (Document Ref. 7.15.2).
 - Change 18 Removal of optionality for the disposal of wastewater to Tees Bay by removal of Work No. 5A, resulting in a reduction in the Order Limits (Work Nos. 5A & 10)
- 2.2.5 Change 18 involves the removal of optionality for the disposal of wastewater to Tees Bay by removal of Work No. 5A (repair and upgrade of the existing water discharge infrastructure to the Tees Bay) resulting in a reduction in the Order Limits (Work No. 5A). A small area of Work No. 10 is also removed which was wholly within and for purposes related to Work No. 5A.





Changes to the Original Environmental Statement

3.1 Introduction

3.1.1 This chapter of the Third ES Addendum describes any changes in the introductory chapters of the Original ES required as a result of the modifications to the extent of works associated with the Proposed Development Change. Other than these changes, the Original ES text remains valid.

Changes to Chapters 1-7 of the Original ES 3.2

Chapter 1 – Introduction

3.2.1 The general background to the DCO Application and the general description of the Proposed Development remains as described following the Third Proposed Development Change and no changes are therefore required to Chapter 1: Introduction [APP-083] of the Original ES.

Chapter 2 – Methodology

3.2.2 The general assessment methodology and topic-specific methodologies, relevant legislation, policy and guidance, key assumptions and limitations set out in Chapter 2: Assessment Methodology [APP-084] remain unchanged so far as relevant to the Third Proposed Development Change.

Chapter 3 – Description of the Existing Environment

3.2.3 The overall description of the Proposed Development site set out in **Chapter** 3: Site Description of the Existing Environment [APP-085] is mainly unchanged, however, there is a minor amendment to text describing water supply network. The following Table compares the original ES text with the replacement to describe the change.

Original ES text for paragraph 3.2.4 Replacement text for paragraph 3.2.4

The former Redcar Steelworks site The former Redcar Steelworks site CO₂ Export Pipeline Corridor, parts of the CO₂ Gathering Network Corridor, parts of the Natural Gas Pipeline Corridor, and parts of the Water Supply Discharge and Connection Corridors. The part of the Connection Water Discharge Corridor containing the former Steelworks outfall is located between

also contains parts of parts of the also contains parts of the CO₂ Export Pipeline Corridor, parts of the CO₂ Gathering Network Corridor, parts of the Natural Gas Pipeline Corridor, and parts of the Water Supply and Discharge Connection Corridors.



the former
vorks.

- There will be slight reductions in the distances measured between the Order 3.2.4 Limits and receptors as a result of the Proposed Development Change.
- 3.2.5 The Proposed Development Change reduces the Order Limits such that the area of the Site has been reduced from 267ha to 246ha.

Chapter 4 – Proposed Development

3.2.6 There are a range of minor updates which have been made to Chapter 4 to reflect the changes proposed, these have been tabulated below. Each table compares the text presented in the Original ES and the replacement text to describe the change.

ES text for paragraph 4.1.2

Replacement text for paragraph 4.1.2

The Proposed Development forms The Proposed Development forms the onshore part of the wider Net Zero the onshore part of the wider Net Zero Teesside (NZT) Project. A schematic Teesside (NZT) Project. A schematic of the overall NZT Project including of the overall NZT Project including the Proposed Development is shown the Proposed Development is shown in Diagram 4-1. Specifically, the in Diagram 4-1. Specifically, the Proposed Development to which the Proposed Development to which the Application and Environmental Statement relates covers all works associated relates covers all works associated with the Project down to Mean Low with the Project down to Mean Low Water Springs (MLWS). This includes Water Springs (MLWS). This includes the initial section of CO₂ export the initial section of CO₂ export pipeline as well as replacement or pipeline as well as the replacement maintenance of an effluent outfall into effluent outfall into the Tees Bay. the Tees Bay.

supporting Application and supporting (ES) Environmental Statement

3.2.7 In addition to references in the introductory text, updates have also been made in Section 4.2 "Proposed Development", the text describing Work No. 5 (bullet point 5, paragraph 4.2.1) also has been changed. This change is identified in the table below.

ES text for paragraph 4.2.1, bullet point 5

Replacement text for paragraph 4.2.1, **bullet point 5**

Water discharge using an existing or Water discharge using a replacement replacement outfall and associated outfall and associated pipework for pipework for the discharge of treated the discharge of treated effluent and effluent and surface water to Tees Bay surface water to Tees Bay (including (includina potential transportation connection for process water to Bran Sands Waste Bran Sands Waste Water Treatment

pipeline a potential pipeline connection for of transportation of process water to



Water Treat	ment Plant and	d return for	Plant and return for discharge) (Water
discharge)	(Water	Discharge	Discharge Connection Corridor, Work
Connection	Corridor, Work	No. 5);	No. 5);

3.2.8 These changes are also present in Section 4.3 "Components of the Proposed Development". The following table identifies the text to be replaced and how it has been replaced.

> Original ES text for paragraph 4.3.75 Replacement text for paragraph 4.3.75

The existing on-site outfall to the Tees Bay is proposed for the development. The outfall may require refurbishing or adjacent to the CO₂ Export Pipeline. alternatively replacing on a new alignment adjacent to the CO₂ Export Pipeline. As replacement represents the worst-case option, both this and refurbishment are assessed in this ES.

A new outfall Is proposed to Tees Bay and its alignment is proposed as

3.2.9 The section heading "Outfall Refurbishment and/or Replacement" also requires updating. The table provides a comparison between the text presented in the ES and the replacement text as a result of the change.

ES text for paragraph 4.7.5

Replacement text for paragraph 4.7.5

Pending the condition of the existing New outfall infrastructure is proposed outfall infrastructure, works may be which will require work below MHWS required below MHWS at Coatham at Coatham Sands within the wider Sands within the wider Tees Bay to Tees Bay to provide for a discharge. either refurbish or replace the existing Construction will involve use of discharge. Replacement will involve Trenchless Technologies to reach a use of Trenchless Technologies to suitable discharge point within the reach a suitable discharge point within Tees Bay whilst minimising impact to the Tees Bay whilst minimising impact the surrounding environment. At the to the surrounding environment. At outfall, the emplacement of a suitable the outfall, the emplacement of a discharge head would also suitable discharge head would also be required to be placed via a jack-up required to be placed via a jack-up barge or similar. barge or similar.

3.2.10 Based on the descriptions of the Proposed Development presented in Chapter 4, there is no further change to Work No. 10.



Chapter 5 – Construction Programme and Management

3.2.11 The sections on the construction of the Water Discharge Connections have been changed, and the following tables identify updates to the relevant paragraphs.

Text for paragraph 5.3.31 in the original ES

Updated for paragraph 5.3.31

Two options are considered for the water discharge connections for the Proposed Development:

- treated water would be discharged using the former Redcar Steelworks outfall (the Water Discharge Corridor) (Work No. 5A); or
- a replacement outfall into Tees
 Bay (Work No. 5B), running
 alongside the CO₂ Export Pipeline
 (Work No. 8) would be constructed

The water discharge connection for the Proposed Development is a new outfall into Tees Bay (Work No. 5B), running alongside where the CO₂ Export Pipeline (Work No. 8) would be constructed.

3.2.12 In addition to changes to paragraph 5.3.31, there are also changes to paragraph 5.3.32.

Text for paragraph 5.3.32 in the original ES

Updated for paragraph 5.3.32

In addition, if off-site treatment of process effluent is required, above ground outward and, potentially, return flow pipelines to Bran Sands Wastewater Treatment Works (Work No. 5C) will be constructed. Treated water may be returned from Brans Sands to the PCC Site in a separate pipeline for use and/or discharge via the existing or new outfall.

In addition, if off-site treatment of process effluent is required, above ground outward and, potentially, return flow pipelines to Bran Sands Wastewater Treatment Works (Work No. 5C) will be constructed. Treated water may be returned from Brans Sands to the PCC Site in a separate pipeline for use and/or discharge via the new outfall.

3.2.13

3.2.14 Paragraph 5.3.34 and 5.3.35 (Treated Water Outfall) are removed and paragraph 5.3.36 (Replacement Outfall) is updated in line with the following table.(Replacement Outfall)

Text for paragraph 5.3.36 in the original ES

Updated for paragraph 5.3.36

In the event that the outfall requires replacement, this would be installed as a micro-bored tunnel from the PCC Site to the discharge point within Tees Bay The new outfall would be installed as a micro-bored tunnel from the PCC Site to the discharge point within Tees Bay (see Figure 3-2D (ES Volume II, Document Ref. 6.3) and Box 5-1).



(see Figure 3-2D (ES Volume II, Document Ref. 6.3) and Box 5-1). This would run parallel to the CO2 Export Pipeline (see below) and would be carried out at the same time. The replacement outfall would also require a diffuser head to be fitted.

This would run parallel to the CO₂ Export Pipeline (see below) and would be carried out at the same time. The new outfall would also require a diffuser head to be fitted. Several construction activities would be required for this. Potential activities which have been taken into account in this ES include:

- dredging of pocket;
- final assembly, float and positioning of a replacement head;
- a flood and sink exercise or similar works to position the outfall head within the dredge pocket;
- either piling or pin drilling to secure the outfall head;
- backfill of the dredged pocket around the outfall head;
- the positioning of rock armouring/scour protection around the outfall head;
- final assembly, pipeline jointing, connections, fabrication and ancillary commissioning works to install a safe and fit for purpose discharge pipeline; and
- the presence of vessels such as work boat(s) and/or barge(s) to support the refurbishment process.

"The new outfall would be installed as a micro-bored tunnel from the PCC Site to the discharge point within Tees Bay (see Figure 3-2D (ES Volume II, Document Ref. 6.3) and Box 5-1). This would run parallel to the CO₂ Export Pipeline (see below) and would be carried out at the same time. The new outfall would also require a diffuser head to be fitted. Several construction activities would be required for this. Potential activities which have been taken into account in this ES include:

- dredging of pocket;
- o final assembly, float and positioning of a replacement head;



- a flood and sink exercise or similar works to position the outfall head within the dredge pocket;
- either piling or pin drilling to secure the outfall head;
- backfill of the dredged pocket around the outfall head;
- the positioning of rock armouring/scour protection around the outfall head;
- final assembly, pipeline jointing, connections, fabrication and ancillary commissioning works to install a safe and fit for purpose discharge pipeline; and
- the presence of vessels such as work boat(s) and/or barge(s) to support the refurbishment process."

Chapter 6 – Alternatives and Design Evolution

3.2.15 An additional table **(Table 6.1)** (Summary of design changes and a comparison of environmental effects between ES submission and the Change Notification) has been updated to describe the Third Proposed Development Change (see below).



Table 6-1. Proposed Development Changes between DCO Submission and Examination

Change		Reason for Change	Changes in Environmental Effects		
	18	Refined based on further studies by the Applicants.	Environmental effects are the same or lower than assessed at DCO Submission as the ES previously assessed the requirement to construct a new outfall along with the option to retain the existing outfall.		



Chapter 7 - Legislation and Policy

3.2.16 None of the changes reported on in this Addendum have been driven by legislative changes in national, regional or local policy. As a result, Chapter 7: Legislative Context and Planning Policy [APP-089] has not been updated.



4. Environmental Assessment of Proposed Development Change

4.1 Introduction

4.1.1 This chapter of the Third ES Addendum identifies where the Proposed Development Change has the potential to modify the assessment of impacts and effects reported in the technical chapters of the original ES, the First ES Addendum and the Second ES Addendum.

4.2 Scope and methodology for the assessment of the proposed change

- 4.2.1 A preliminary environmental assessment (screening) of whether the change proposed would change the baseline or alter the outcomes of the previous assessments presented within ES Volume I, II and II of the ES [APP-082-APP-348], within Appendices of the First ES Addendum [AS-050] and within the Second ES Addendum [REP6-107] has been completed.
- 4.2.2 An update to the Habitats Regulations Assessment (HRA) Appropriate Assessment (Document Ref. 5.13 Rev. 7.0) also forms part of the submission in support of the Third Change Application.
- 4.2.3 The results of the screening assessment are presented in Table 4-1.

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Table 4-1: Net Zero Teesside screening of environmental assessments for Proposed Development Changes

ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
Chapter 8 Air Quality [APP-090]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages.	8A Air Quality - Construction Phase [APP - 247]	Out	The change will not result in a change in the baseline conditions at construction stage. The construction of the wastewater outfall has already been assessed in the chapter and no change in assessment will be the result.
			8B Air Quality - Operation Phase [APP-248]	Out	None of the changes have the potential to change the outcomes of this assessment/appendix because the changes do not affect the PCC Site and the operational air emissions associated with this.
			8C Air Quality - Amine Degradation Assessment [APP-249]	Out	None of the changes have the potential to change the outcomes of this appendix because the changes will not affect the solvents proposed in the application.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
Chapter 9 Surface Water, Flood Risk and Water Resources [APP-091]	Out	Change 18 has already been assessed in the chapter and as such, the change will not change the outcomes of the assessment.	9A Flood Risk Assessment [APP-250 to APP-252]	Out	None of the changes have the potential to change the conclusions of this assessment because the changes predominantly involve no change to the development options assessed in the original ES.
			9B Background Water Quality [APP-253]	Out	None of the changes have the potential to change the outcomes of this appendix because the changes will not affect the previous water quality monitoring data or details of existing third-party discharge and abstraction permits.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			9C WFD Assessment [APP-254]	Out	None of the changes have the potential to change the outcomes of this assessment because the changes involve the reduction of the Order Limits and will not affect the implementation of mitigation measures during construction or alter the nature or volume of discharges during operation.
Chapter 10 Geology and Contaminated Land [APP- 092]	Out The change will not result in modifications to the impacts previously assessed and will not affect the implementation of mitigation measures during construction or	10A Preliminary Sources Study Report [APP-255 to APP-292]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the baseline, which includes historical mapping.	
		operation of the Proposed Development.	10B Contaminated Land- Conceptual Site Model [APP-293]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the identification of sources, pathways and receptors.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			10C Contaminated Land Environmental Risk Assessment [APP-294]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the proposed mitigation measures.
			10D Geotechnical Risk Register [APP-295]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the geotechnical risks assessed.
Chapter 11 Noise and Vibration [APP-093]	reviewed and do not change the outcomes of the assessment, because distances between noisy activities and noise sensitive receptors is increased, therefore	11A Construction Noise Assessment Methodology [APP-296]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the methodology or data used for the construction noise assessment.	
		meaning that construction noise predictions are lower. No significant effects were previously predicted and this remains the case.	11B Operational Noise Information [APP-297]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the methodology or data used for the operational noise assessment.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			First ES Addendum Appendix A Noise [AS- 050]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the results of the assessment presented.
Chapter 12 Terrestrial Ecology [APP-094]	in mo impa asse: consi or de stage not c asse: desig	The change will not result in modifications to the impacts previously	12A Legislation and Planning Policy Relevant to Ecology [APP-298]	Out	The change will not update or change the contents of the appendix.
		assessed during the at construction, operational or decommissioning stages, therefore they do not change the assessment of effects on designated sites or protected species.	12B Ecological Impact Assessment Methods [APP-299]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes do not affect the methodology or data used for the ecological assessment.
			12C Preliminary Ecological Appraisal [APP-300 to APP-304]	Out	None of the changes have the potential to change the outcomes of this appendix.
			12D Bat Survey Report [APP-305 to APP-306]	Out	None of the changes have the potential to change the outcomes of this appendix.



ES Chapter

Screening Decision

Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes

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ES Appendix Screening Decision

Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes

		Development Changes
12E Reptile Survey Report [APP-307]	Out	None of the changes have the potential to change the outcomes of this appendix.
12F Terrestrial Invertebrate Survey Report [APP-308]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes predominately involve the reduction of the Order Limits.
12G Water Vole and Otter Survey Report [APP-309]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes predominately involve the reduction of the Order Limits.
12H Supplementary Habitat Information Report Coatham Sands [APP-310	Out	None of the changes have the potential to change the outcomes of this

the changes.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			12I Terrestrial Invertebrate Survey Coatham Dunes [APP-312]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes will not affect this baseline ecological data for Coatham Sands.
			12J GCN Report [APP- 313]	Out	None of the changes have the potential to change the outcomes of this appendix, because the changes involve the reduction of the Order Limits.
Chapter 13 Aquatic Ecology [APP-095]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the assessment of effects on aquatic ecology.	13A Aquatic Ecology Supplementary Desk Study and Field Survey Report [APP-314]	Out	None of the changes have the potential to change the outcomes of this appendix, because the assessment is based on a wider search area then the current Order Limits.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
Chapter 14 Marine Ecology [APP-096]	Out	The proposal to replace the wastewater outfall was assessed as part of the Marine Ecology assessment and as a result Change 18 will not change the assessment of effects on marine ecology.	14A Intertidal Benthic Ecology Survey Report [APP-315]	Out	None of the changes have the potential to change the outcomes of this appendix, which includes baseline benthic ecological data for a wider part of the intertidal area than the Order Limits and is therefore not affected by the changes.
			14B Fisheries and Fish Ecology Baseline [APP- 316 to APP-318]	Out	None of the changes have the potential to change the outcomes of this appendix, which includes baseline fisheries and fish ecological data for a 10km study area that is wider than the Order Limits and is therefore not affected by the changes.
			14C Marine Mammal Baseline [APP-319]	Out	None of the changes have the potential to change the outcomes of this appendix, which includes baseline marine mammal ecological data for a 10km study area that is wider than the Order Limits and is therefore not affected by the changes.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			14D Subtidal Benthic Ecology [APP-320]	Out	None of the changes have the potential to change the outcomes of this appendix, which includes baseline benthic ecological data for a wider part of the subtidal area than the Order Limits and is therefore not affected by the changes.
			14E Coastal Modelling Report [APP-321]	Out	None of the changes affect the baseline or findings of the Appendix.
Chapter 15 Ornithology [APP-097]	Out	The changes have been reviewed and do not change the outcomes of the assessment, because the inclusion of a replacement outfall has been assessed.	15A Ornithology Baseline [APP-322 to APP-325]	Out	None of the changes have the potential to change the outcomes of this appendix, which is a baseline report that covered an area larger than the Order Limits and is therefore not affected by the changes.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			15B CONFIDENTIAL Ornithology Baseline [APP-326]	Out	None of the changes have the potential to change the outcomes of this appendix, which is a baseline report that covered an area larger than the Order Limits and is therefore not affected by the changes.
			First ES Addendum Appendix B Ornithology [AS-050]	Out	None of the changes have the potential to change the outcomes of this appendix, which is a baseline report that covered an area larger than the Order Limits and is therefore not affected by the changes.
Chapter 16 Traffic [APP-098]	Out	Change 18 will not change the conclusions of the assessment presented in Chapter 16	16A Transportation Assessment [APP-327 to APP-332]		Change 18 will not change the outcomes of the assessment presented in Appendix 16A.



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ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			16B Framework Construction Worker Travel Plan [APP-333]		The change does not have potential to change the outcomes of this appendix, because the changes proposed do not affect the deployment of measures in the travel plan.
			16C Framework Traffic Management Plan [APP- 334]		The change does not have the potential to change the outcomes of this appendix, because the changes proposed do not affect how traffic management takes place.
Chapter 17 Landscape and Visual Amenity [APP- 099]	Out	The change will not result in in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the assessment of effects on landscape and visual amenity.	17A Landscape Character [APP-335]	Out	The change does not have the potential to change the outcomes of this appendix, which includes baseline information on landscape character for a study area that is wider than the Order Limits and is therefore not affected by the changes



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			17B LVIA Proposed Methodology [APP-336]	Out	The change does not have the potential to change the outcomes of this appendix, because the changes do not affect the methodology used for the landscape and visual assessment.
			17C Potential Viewpoints [APP-337]	Out	The change will not result in a change in the baseline conditions at construction, operational or decommissioning stages, therefore they do not change the proposed viewpoints used in the landscape and visual impact assessment.
Chapter 18 Cultural Heritage [APP-100]	Out	The change will not result in a in modifications to the impacts previously assessed during the construction, operational or decommissioning	18A Cultural Heritage Baseline Report [APP- 338]	Out	The change does not have the potential to change the outcomes of this appendix, because the changes do not affect the heritage baseline.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
		stages, therefore they do not change the assessment of effects on cultural heritage.	18B Cultural Heritage Gazetter [APP-339]	Out	The change does not have the potential to change the outcomes of this appendix, because the changes do not affect the heritage baseline.
Chapter 19 Marine Heritage [APP-101]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the assessment of effects on marine heritage.			
Chapter 20 Socio- Economics [APP-102]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the	20A Economics Benefits Report [APP-340]	Out	The change does not have the potential to change the outcomes of this appendix, because the changes do not affect the economics benefits of the Proposed Development.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
		assessment of effects on socio-economics.	20B- Navigational Risk Assessment [APP-341 to APP-343]	Out	Change 18 does not change the outcomes of this appendix, because the replacement outfall extents remain the same and this is what was identified as requiring a vessel exclusion zone.
Chapter 21 Climate Change [APP-103]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the assessment of effects on climate change.			
Chapter 22 Major Accidents and Disasters [APP-104]	Out	The change will not result in updates to the Major Accidents and Disasters assessment made for the construction, operation or decommissioning of the Proposed Development.			



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	 Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
ES Addendum [AS-050]	Out	The change will not result in updates to the Major Accidents and Disasters assessment made for the construction, operation or decommissioning of the Proposed Development.		
Chapter 23 Public Health [APP-105]	Out	The change will not result in modifications to the impacts previously assessed during the construction, operational or decommissioning stages, therefore they do not change the assessment of effects on public health.		



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
Chapter 24 Cumulative and Combined Effects [APP-106]	Out	The cumulative and combined effects assessment assessed both the use of the existing outfall and the construction of a new outfall (Change 18). In paragraph 24.5.32, the existing outfall is assessed as resulting in a greater cumulative adverse effect to Surface Water, Flood Risk and	24A Planned Development and Development Allocations [APP-344]	Out	Based on the review of the technical chapters presented above, the change does not have the potential to change the outcomes of this appendix, because the changes do not materially affect the Proposed Development's Zone of Influence and therefore the cumulative schemes listed in this appendix.
		Water, Flood Risk and Water Resources than Change 18, so its removal would result in an	24B Assessment of Cumulative Effects Stages 1-3 [APP-345]	Out	Based on the review of the technical chapters presented above, the change does not have the potential to change the outcomes of this appendix, because the changes do not materially affect the Proposed Development's Zone of Influence and therefore the cumulative schemes listed in this appendix and scoped in or out of the cumulates assessment.



ES Chapter	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes	ES Appendix	Screening Decision	Rationale - potential for the environmental effects to be altered as a result of Proposed Development Changes
			24C Statement of Combined Effects [APP- 346]	Out	Based on the review of technical chapters presented above, the change does not have the potential to change the environmental effects or mitigation measures associated with the Proposed Development, therefore the potential for combined effects remains as stated within this appendix.
Chapter 25 Summary of Significant Effects [APP-107]	Out	The change will not result in changes to significance of effects in the chapters which have been updated as a result of the changes.	25A Commitments Register [APP-347]	Out	The change will not alter the outcomes of this appendix, because the change does not require any new or different mitigation measures.



4.2.4 The screening assessment has identified that the Proposed Changes will not affect the significance of effects predicted for Air Quality, Surface Water, Flood Risk and Water Resources, Geology and Contaminated Land, Noise and Vibration, Terrestrial Ecology, Ornithology, Aquatic Ecology, Marine Ecology, Traffic, Landscape and Visual Amenity, Marine Heritage, Socio-Economic, Climate Change, Major Accidents and Natural Disasters, Public Heath, Cumulative and Combined Effects and the Summary of Significant Effects chapters. No topics are therefore screened in for further consideration.



5. Summary

- 5.1.1 This Third ES Addendum has identified how a Proposed Development Change affects the content, scope and conclusions of the Original ES [APP-082 to APP-347] submitted as part of the DCO Application, the First ES Addendum [AS-049 to AS-132] and the Second ES Addendum [REP6-107] submitted in response to the change request made in August 2022.
- 5.1.2 The Proposed Development Change will not result in updates to assessments presented in the Original ES, First ES Addendum [AS-049 to AS-132] or Second ES Addendum [REP6-107]. However, Changes 18 has resulted in amendments to Chapters 3. (Description of the Existing Environment), 4. (Proposed Development), 5. (Construction Programme and Management) and 6. (Alternatives). These changes are included in this document.
- 5.1.3 Change 18 has resulted in a reduction in optionality by removing the refurbishment of the existing wastewater outfall from the Proposed Development. The proposal to build a new outfall was assessed as part of the Original ES. There are therefore no changes to the significance of effects predicted in the original ES which formed part of the DCO Application arising from Change 18.