

# REPORT

## **Boston Alternative Energy Facility – Environmental Statement**

### Chapter 26 Summary

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## 26 Summary of Impacts

### 26.1 Introduction

26.1.1 This chapter of the Environmental Statement (ES) summarises the impacts during the construction, operational and decommissioning phases of the Boston Alternative Energy Facility (the Facility). Topic specific impact assessments are provided in detail in Chapters 8 to 24 of the ES.

### 26.2 Significance of effects

26.2.1 **Table 26-1** summarises the likely significant environmental effects of the Facility that have been identified following implementation of mitigation embedded in the design of the Facility and other impact avoidance measures as detailed in the topic specific chapters of the ES. Where, having taken into account these measures, an impact remains, the table sets out any additionally required mitigation measures that have also been identified in those chapters and then provides a summary of the residual environmental effect.

### 26.3 Mitigation

26.3.1 As referenced in **paragraph 26.2.1**, mitigation measures have been identified and explained in detail in the topic specific chapters of the ES. They have also been included in the Register of Environmental Actions and Commitments (REAC) which forms part of the application for the Facility (document reference 7.6).

Table 26-1 Summary of ES Topic Impacts

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
<b>Construction</b>							
<b>Chapter 8 Cultural Heritage</b>	Direct impact to potential buried archaeological remains.	66: Prehistoric peat deposits and historic alluvium	High	High	Major adverse	Archaeological evaluation and recording	Minor adverse (not significant)
		90: The Haven Mudbanks	Low	High	Major adverse	Archaeological evaluation and recording	Minor adverse (not significant)
		91: Foreshore remains	High	High	Major adverse	Archaeological evaluation and recording.	Minor adverse (not significant)
		96: Buried archaeological features	High	High	Major adverse	Archaeological evaluation and recording	Minor adverse (not significant)
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Negligible	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
		5: Slippery Gowt Sluice	High	Negligible	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
		6: Maud Foster Sluice	High	Negligible	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
		7: Parish Church of St Nicholas	High	Negligible	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
		26: St	High	Negligible	Minor	Standard construction	Minor

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Botolph's Church			adverse	hours & practices	adverse (not significant)
		31: Skirbeck Conservation Area	Medium	Low	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
		33: Wyberton Conservation Area	Medium	Negligible	Minor adverse	Standard construction hours & practices	Minor adverse (not significant)
	Direct impact upon above ground heritage asset	65: The 'Roman Bank'	Medium	Medium	Minor adverse	Archaeological monitoring	Minor adverse (not significant)
	Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Medium	Moderate adverse	Public information board (enhancement)	Minor adverse (not significant)
<b>Chapter 9 Landscape and Visual Impact</b>	Landscape – Construction Phase Impacts	Proposed Site and Environs	Low	Low medium adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
		B1 - Bicker to Wyberton Settled Fen	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse
		B3 - Wrangle to Cowbridge Settled Fen	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		C1 – Welland to Haven Reclaimed Saltmarsh	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual – Construction Phase Impacts	View 2; Looking south west from Church Green Road near Fishtoft.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
		View 3; Looking west from Footpath (Fish/3/1) at Fishtoft.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 4; Looking north west from Scalp Road, near property Appleside.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 6; Looking north west from Footpath	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Fish/13/10 at junction with Footpath Fish/13/9 on the north bank of The Haven.					
		View 7; Looking north west from the junction of Footpaths Fish/13/2, Fish/13/5 and Fish/13/7 on the north bank of The Haven.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 8; Looking south from Footpath Bost/13/3 near St Nicholas's Church, Skirbeck	High	Medium high adverse	Moderate major adverse	Embedded mitigation	Moderate major adverse



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Conservation Area and properties off The Featherworks / Skirbeck Gardens.					
		View 9; Looking north from Footpath Bost/14/8.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 10; Looking east from Marsh Lane near property Cremorne and opposite property Coronation Villa.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
		View 11; Looking east from near properties along	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Wyberton Low Road (also Sustrans Route 1 / North Sea Cycle Route).					
		View 13; Looking north from Silt Pit Lane near property Silt Pit Farm.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 14; Looking north east from Church Lane at Wyberton Park near property Denemere	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 15; Looking north from near properties off	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Rowdyke Road.					
		View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 17; Looking north from Frampton Roads.	High	Low adverse	Minor adverse	Embedded Mitigation	Minor adverse
		View 18; Looking east from Chain Bridge	High	Negligible adverse	Minor negligible adverse	Embedded Mitigation	Minor negligible adverse
<b>Chapter 10 Noise and Vibration</b>	Increased Noise on Sensitive Receptors from On-Site Construction	Residential	Medium	No impact to Medium	Negligible adverse to Moderate adverse	Best Practice Measures (BPM)	Negligible adverse
	Increased Noise on Sensitive Receptors from Off-Site Construction Traffic	Residential	Medium	No impact to Major adverse	Negligible to Major adverse	Traffic Management Plan	Minor adverse
	Construction Vibration	Residential	Medium	No impact	Negligible to	Best Practice	Negligible

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
					Minor adverse	Measures (BPM)	adverse
<b>Chapter 11 Contaminat ed Land, Land Use and Hydrogeolo gy</b>	Impact on Human Health, Including Construction Workers and General Public During Any Excavations and Construction Related Activities	Human Health	High	Low	Minor	Further investigation to assess ground gas risk and vapour risk	Minor adverse
	Impact on Groundwater Quality from construction related activities	Groundwa ter	Medium	Low	Minor	None required	Minor adverse
	Impact on Groundwater Quantity from construction related activities	Groundwa ter	Medium	Low	Minor	None required	Minor adverse
	Impact on Surface Water Quality from general earthworks and construction related activities	Surface waters	Medium	Low	Minor	None required	Minor adverse
	Impact on soil quality	Soil quality	High	Negligible	Minor	None required	Minor adverse
	Loss of Best Most Versatile (BMV) agricultural land	Land Use	High	Negligible	Minor	None required	Minor adverse
<b>Chapter 12 Terrestrial Ecology</b>	Impacts to habitats	All types	Medium	Low	Minor adverse	Embedded mitigation – implementation of landscape mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
						planting. Minimal loss of habitats through site design.	
	Statutory Designated Sites (acid/nitrogen deposition)	Havenside Local Nature Reserve (LNR)	Medium	Medium	Moderate adverse	Implementation of mitigation measures to control acid/nitrogen deposition such as, but not limited to, dust management measures.	Minor adverse
	Impact to foraging and commuting bats	Bats (foraging and commuting only)	High	Low (further reduction to negligible over time as hedgerows are established)	Moderate adverse	Embedded mitigation - replacement planting of hedgerows that require removal and enhancing retained hedgerows through increasing their existing species diversity or in-filling any gaps, as part of the landscape mitigation planting strategy. All temporary lighting to be designed line with the BCT Bats and Lighting in the UK guidance (2018). This to include the use of directional lighting	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
						during construction. Construction phase lighting will be limited to permitted working hours in low light conditions, with lower-level security lighting outside of these times. Ensure that dark corridors remain in place during the construction phase. Installation of bat boxes within suitable trees that will be retained.	
	Impacts to Reptiles	Reptiles	Medium	Medium	Moderate adverse	Precautionary methods of working during construction, including tool box talk, habitat manipulation and ecological supervision.	Minor adverse
	Impact to bird populations	Bird populations (loss of habitat and in turn loss of nesting opportunities)	Medium	Low	Minor adverse	Embedded mitigation - removal of vegetation outside of nesting bird season.  Pre-work checks for nesting sites if vegetation requires removal during	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
						nesting bird season.  Implementation of landscape mitigation planting scheme.	
	Impact to terrestrial invertebrates	Terrestrial invertebrates	Low	Low	Minor adverse	Embedded mitigation - integration of habitat for invertebrate species into Facility design (e.g. varied planting regime to provide sheltered elevated temperatures for invertebrates, foraging areas and nectar and pollen for flower-dependent invertebrates.	Minor adverse
	Impact to badgers	Badgers	Low	No impact	No effect	Pre-construction surveys to confirm badgers remain absent.	No effect
	Impact to water voles	Water voles	High	No impact	No effect	Pre-construction surveys to confirm water voles remain absent.	No effect
	Impact to otters	Otters	High	No impact	No effect	Pre-construction surveys to confirm otters remain absent.	No effect

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
<b>Chapter 13 Surface Water, Flood Risk and Drainage Strategy</b>	Direct disturbance of surface watercourses	Internal Drainage Board (IDB) drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
	Increased sediment supply	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
	Accidental release of contaminants	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
	Changes to surface water runoff and flood risk	IDB drains	Medium	Negligible	Minor adverse	An existing attenuation pond will be used before discharging via surface water ditches at a controlled rate into the IDB drain adjacent to the Site.	Negligible
<b>Chapter 14 Air Quality</b>	Construction phase dust and particulate matter	Human and ecological receptors	Dust soiling: low  Human health: low	Large	Assessment methodology does not assign significance before mitigation	Best practice mitigation measures to be detailed within a CoCP	Not significant
	Road traffic emissions	Human receptors	High	Moderate adverse at one receptor, slight adverse at	Minor adverse	Use of Euro VI vehicles during construction	Minor adverse



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
				one receptor, negligible at 37 receptors			
		Ecological receptors	High	Insignificant at The Wash SAC, SPA, SSSI and Ramsar and South Forty Foot Drain LWS. Above the threshold of insignificance at other sites.	Not significant at The Wash SAC, SPA, SSSI and Ramsar and South Forty Foot Drain LWS. Significance of effects on other sites is detailed in <b>Chapter 12 Terrestrial Ecology</b> .		Not significant at The Wash SAC, SPA, SSSI and Ramsar and South Forty Foot Drain LWS. Significance of effects on other sites is detailed in <b>Chapter 12 Terrestrial Ecology</b> .
	Odour emissions from capital dredging	Human receptors	High	Slight adverse at two receptors, negligible at five receptors.	Not significant	None required	Not significant
<b>Chapter 15 Marine Sediment and Water</b>	Impacts on suspended solids concentrations associated with capital dredging	Water Quality	Medium	Low	Minor adverse	None required	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
<b>Quality</b>	Impacts on water quality associated with release of sediment contamination	Water Quality	Medium	Negligible	Minor adverse	None required	Minor adverse
	Impacts on water quality associated with using concrete in the marine environment	Water Quality	Medium	Negligible			
<b>Chapter 16 Estuarine Processes</b>	Changes in suspended sediment concentrations due to capital dredging of the berthing areas	The Wash European Marine Site (EMS) and Havenside LNR	N/A	N/A	No effect	N/A	No effect
	Changes in estuary-bed level due to capital dredging of the berthing areas	The Wash EMS and Havenside LNR	N/A	N/A	Negligible effect	N/A	Negligible effect
	Changes to the wave regime (ship wash) and erosion / Accretion patterns due to construction vessel movements	The Wash EMS and Havenside LNR	N/A	N/A	Negligible effect	N/A	Negligible effect
<b>Chapter 17 Marine and Coastal Ecology</b>	Loss of and/or change to estuarine habitats and associated species within the footprint of the wharf and dredging area	Mudflats	Low	Medium	Minor adverse	Material removed to be restricted to minimum. The design of the quay wall and wharf has been set to minimise the volume	Minor adverse
		Saltmarshes	Medium	Medium	Moderate adverse		Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect	
						of capital dredging required. Biodiversity net gain measures in place to create habitat which would offset the loss of habitat for birds.		
	Increased suspended sediment concentrations from capital dredging, with potential for sediment-bound contaminants to be released	Fish	Medium	Medium	Moderate adverse	For fish, dredging will be limited to being undertaken during non-sensitive periods. No mitigation for benthic receptors is necessary.	Minor adverse	
		Benthic fauna	Low	Low	Minor adverse		Minor adverse	
	Disturbance due to human activity/increased human presence (excluding underwater noise, but including airborne noise)	Birds	Medium	Low to Medium	Moderate adverse	The noisiest activities to be undertaken during non-sensitive periods (May-Sep). Monitoring and adherence to thresholds during construction to be undertaken.	Minor adverse	
	Underwater noise (piling and dredging)	Underwater noise from piling and dredging works (permanent auditory injury and	Fish	Medium	Negligible to Low	Minor adverse	Marine mammal watcher and soft-start procedures for piling undertaken in high tides.	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	temporary auditory injury; Permanent Threshold Shift (PTS) and Temporary Threshold Shift (TTS)).						
	Underwater noise from piling and dredging works (permanent auditory injury; PTS).	Harbour seal	High	Negligible	Minor adverse		Minor adverse
	Underwater noise from piling and dredging works (temporary auditory injury; TTS).	Harbour seal	Medium	Negligible	Minor adverse		Minor adverse

ES Chapter	Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Underwater noise from an increase in vessels	Harbour seal	Low	Negligible	Negligible	Slow speed (max. 4 knots) to be kept for all vessels. Vessel movements to be incorporated in to recognised vessel routes.  Best practice measures to minimise the disturbance (such as an observer on board each vessel, looking out for marine mammals as the vessel makes its way through The Wash and up The Haven).	Negligible
		Disturbance at harbour seal haul-out sites	Harbour seal	High	Negligible	Minor adverse		Minor adverse
		Increased collision risk (impact zone includes The Wash as a transit area)	Harbour seal	Low	Medium	Minor adverse		Minor adverse
	Increased emissions to air and deposition on marine and estuarine habitats		Marine and coastal habitats	Medium	Negligible	Negligible	N/A	Negligible
<b>Chapter 18 Navigation al Issues</b>	Capital dredging at the proposed wharf	Port of Boston and Pilots	High	Low		Moderate adverse	Publication of a Navigational Management Plan (NMP) and Notice to Mariners (NtM) as required.	Minor adverse
		Fishermen	Medium			Minor adverse		Negligible
		Other Commercial Users	Medium					

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Recreational Users	Low				
	Construction of the proposed wharf	Port of Boston and Pilots	High	Low	Moderate adverse	Publication of a NMP and NtM as required.	Minor adverse
		Fishermen	Medium		Minor adverse		Negligible
		Other Commercial Users	Medium				
		Recreational Users	Low				
	Installation of scour protection	Port of Boston and Pilots	Medium	Very low	Minor adverse	Publication of a NMP and NtM as required.	Negligible
		Fishermen	Low		Negligible		
		Other Commercial Users	Low				
		Recreational Users	Very low				
	Presence of lighting during construction	All	High	Medium	Major adverse	Careful design of lighting structures to minimise spill, glare and skyglow. Use of passive lighting.	Minor adverse
	Increase in shipping traffic and use of the turning circle during construction.	All	Low	Low	Minor adverse	Publication of a NMP and NtM as required.	Negligible

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
<b>Chapter 19 Traffic and Transport</b>	Peak WCS - Impact Pedestrian Severance	Links 1, 2, 3, 4, 10.	Low to High	Very low	Negligible - Minor	N/A	Negligible - Minor
	Peak WCS -Pedestrian Amenity	Link 7	Medium	Very low	Minor	N/A	Minor
		Links 1, 2, 3, 4, 5.	Low – Medium	Low - Medium	Minor	N/A	Minor
		Link 10	Low	Medium	Minor	N/A	Minor
		6	High	Very Low	Minor	N/A	Minor
	Peak WCS -PRoW Closures	Boston Public Footpath No. 14.	High	Low	Moderate	Utilise traffic lights or banksmen to monitor crossing of section 14/11 during construction period.	Minor
	Peak WCS - Road Safety	Cluster 1	Very low	High	Minor	N/A	Minor
		Cluster 2	Very low	Low	Negligible	N/A	Negligible
		Cluster 3	Medium	Low	Minor	N/A	Minor
	Peak WCS - Driver Delay	Junction 1	Low	Low	Negligible	N/A	Negligible
		Junction 2	Medium	Low	Minor	N/A	Minor
		Junction 3	Low	Medium	Minor	N/A	Minor
		Junction 4	Medium	Medium	Minor	N/A	Minor
<b>Chapter 20 Socio- Economics</b>	Employment	Area of Impact (AOI)	Medium	Beneficial	Moderate	N/A	Beneficial, Moderate

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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Housing Market	AOI	Low	Negligible	Negligible	N/A	Negligible
	Primary Education	3 km of Application Site	Medium	Negligible	Negligible	N/A	Negligible
	Secondary Education	5 km of Application Site	Medium	Adverse	Minor	Effective mitigation through the commitment of BBC to deliver a new secondary school in Boston, as identified in the SEELP Infrastructure Delivery Plan.	Negligible
	Health	5 km of Application Site	Medium	Negligible	Negligible	N/A	Negligible
	Tourism	AOI	Low	Negligible	Negligible	N/A	Negligible
<b>Chapter 21 Climate Change</b>	GHG emissions during construction	Global atmosphere	The assessment approach does not consider the sensitivity of the receptor, which is the global	N/A	Not likely to represent a significant net CO <sub>2</sub> emissions contribution	N/A	Not significant



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
			atmosphere.				
<b>Chapter 22 Health Impact Assessment</b>	Outdoor Amenity (i.e. physical activity and access to biodiversity)	Site-specific and local populations	Low	Medium	Not significant	N/A	Not significant
	Journey times, reduced access and/or safety	Site-specific and local populations	Medium	Small	Not significant	N/A	Not significant
	Air quality	Site-specific and local populations	Medium	Small	Not significant	N/A	Not significant
	Noise	Site-specific and local populations	Low	Medium	Not significant	N/A	Not significant
	Ground and/or water contamination	Site-specific populations	Low	Small	Not significant	N/A	Not significant
	Climate change and flood risk	Site-specific and local populations	Low	Small	Not significant	N/A	Not significant
	Employment and Education	Site-specific, local and Greater Lincolnshire Local	Medium	Medium (beneficial)	Not significant (or beneficial)	N/A	Not significant

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Enterprise Partnership (GLLEP) populations					
<b>Chapter 23 Waste Assessment Report</b>	Impacts associated with inert waste from construction	East Midlands inert waste landfill capacity	Negligible	Negligible	Negligible (No effect)	N/A	No effect
	Impacts associated with non-hazardous waste from construction	East Midlands non-hazardous landfill capacity	Medium	Negligible	Negligible (No effect)	N/A	No effect
	Impacts associated with hazardous waste from construction	National (England) hazardous Landfill Capacity	Negligible	Negligible	Negligible (No effect)	N/A	No effect
<b>Chapter 24 Major Accidents and Risk Management</b>	Geophysical Landslide/ Instability	Construction workers	(Likelihood) Very unlikely	Medium	Minor	N/A	Not significant
	Tidal Flooding	Construction workers  Offsite residents or commercial workers	(Likelihood) Very unlikely	Medium	Minor	N/A	Not significant

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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		The Wash (Special Protection Area (SPA), Ramsar, Special Area of Conservation (SAC) and Site of Special Scientific Interest (SSSI))	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
		Havenside Local Nature Reserve (LNR)	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
		Off-site designated heritage assets (Scheduled Monument, Grade I Listed Building)	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant

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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Best and Most Versatile (BMV) soils	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
	Climatological Extreme temperatures	Construction workers  Off-site residents / commercial workers	(Likelihood) Very unlikely	Medium	Minor	N/A	
		The Wash (SPA, Ramsar, SAC and SSSI)	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
		BMV soils	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
		Major accidents Widespread electricity failure and infrastructure failures	Construction workers  Off-site residents / commercial workers	(Likelihood) Not significant	Not significant	Not significant	N/A
	The Wash (SPA, Ramsar, SAC and SSSI)		(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant

Project Related



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		BMV soils	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
	Major accidents Infrastructure failure	Construction workers  Off-site residents / commercial workers	(Likelihood) Extremely unlikely	Medium	Negligible	N/A	Not significant
		The Wash (SPA, Ramsar, SAC and SSSI)	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
		BMV soils	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
	Major accidents Transport accidents (vessel to vessel and ship grounding)	Construction workers  Other ship crews	(Likelihood) Very Unlikely	Not significant	Minor	N/A	Not significant
		The Wash (SPA, Ramsar,	(Likelihood) Very Unlikely	Low	Negligible	N/A	Not significant

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		SAC and SSSI)					
<b>Operation</b>							
<b>Chapter 8 Cultural Heritage</b>	Direct impact to potential buried archaeological remains	No further impact					
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Negligible	Minor adverse	N/A	Minor adverse (not significant)
		5: Slippery Gowt Sluice	High	Negligible	Minor adverse	N/A	Minor adverse (not significant)
		6: Maud Foster Sluice	High	Negligible	Minor adverse	N/A	Minor adverse (not significant)
		7: Parish Church of St Nicholas	High	Negligible	Minor adverse	N/A	Minor adverse (not significant)
		26: St Botolph's Church	High	Negligible	Minor adverse	N/A	Minor adverse (not significant)
		31: Skirbeck Conservati on Area	Medium	Low	Minor adverse	N/A	Minor adverse (not significant)

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		33: Wyberton Conservati on Area	Medium	Negligible	Negligible adverse	N/A	Minor adverse (not significant)
	Direct impact upon above ground heritage asset	No further impact					
	Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Medium	Moderate adverse	Public information board (enhancement)	Minor adverse (not significant)
<b>Chapter 9 Landscape and Visual Impact</b>	Landscape – Year 1 Impacts; and Landscape – Year 15 Impacts	Proposed Site and Environs	Low	Medium adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
		B1 - Bicker to Wyberton Settled Fen	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse
		B3 - Wrangle to Cowbridge Settled Fen	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse
		C1 – Welland to Haven Reclaimed Saltmarsh	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Outline of the Effects of Proposed Lighting on Landscape Character	All receptors	Medium	Low medium adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual – Year 1 Effects	View 2; Looking south west from Church Green Road near Fishtoft.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
		View 3; Looking west from Footpath (Fish/3/1) at Fishtoft.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 4; Looking north west from Scalp Road, near property Appleside.	High	Negligible adverse	Low medium adverse	Embedded mitigation	Low medium adverse
		View 6; Looking north west from Footpath Fish/13/10	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		at junction with Footpath Fish/13/9 on the north bank of The Haven.					
		View 7; Looking north west from the junction of Footpaths Fish/13/2, Fish/13/5 and Fish/13/7 on the north bank of The Haven.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
		View 8; Looking south from Footpath Bost/13/3 near St Nicholas's Church, Skirbeck Conservati	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		on Area and properties off The Featherworks / Skirbeck Gardens.					
		View 9; Looking north from Footpath Bost/14/8.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 10; Looking east from Marsh Lane near property Cremorne and opposite property Coronation Villa.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
		View 11; Looking east from near properties along Wyberton	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Low Road (also Sustrans Route 1 / North Sea Cycle Route).					
		View 13; Looking north from Silt Pit Lane near property Silt Pit Farm.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 14; Looking north east from Church Lane at Wyberton Park near property Denemere	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 15; Looking north from near properties off Rowdyke	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Road.					
		View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 17; Looking north from Frampton Roads.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 18; Looking east from Chain Bridge.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual – Year 15 Impacts	View 2; Looking south west from Church Green Road near Fishtoft.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
		View 3; Looking west from Footpath (Fish/3/1)	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		at Fishtoft.					
		View 4; Looking north west from Scalp Road, near property Appleside.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 6; Looking north west from Footpath Fish/13/10 at junction with Footpath Fish/13/9 on the north bank of The Haven.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 7; Looking north west from the junction of Footpaths Fish/13/2,	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse

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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Fish/13/5 and Fish/13/7 on the north bank of The Haven.					
		View 8; Looking south from Footpath Bost/13/3 near St Nicholas's Church, Skirbeck Conservation Area and properties off The Featherworks / Skirbeck Gardens.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
		View 9; Looking north from Footpath Bost/14/8.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		View 10; Looking east from Marsh Lane near property Cremorne and opposite property Coronation Villa.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 11; Looking east from Slippery Gowt Lane alongside properties off Wyberton Low Road (near Sustrans Route 1 / North Sea Cycle Route)	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		View 13; Looking north from Silt Pit Lane near property Silt Pit Farm.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 14; Looking north east from Church Lane at Wyberton Park near property Denemere.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
		View 15; Looking north from near properties off Rowdyke Road.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 16; Looking north east from properties off	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Causeway.					
		View 17; Looking north from Frampton Roads.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
		View 18; Looking east from Chain Bridge.	High	Negligible adverse	Minor negligible adverse	Embedded Mitigation	Minor negligible adverse
<b>Chapter 10 Noise and Vibration</b>	Increased Daytime Noise on Sensitive Receptors from The Boston Alternative Energy Facility	Residential	Medium	No Impact to Major	Negligible to Major adverse	BPM, Noise attenuation from engineering, enhanced cladding and enclosure design, procurement of quieter design plant.	Negligible to Minor adverse
	Increased Night time Noise on Sensitive Receptors from The Boston Alternative Energy Facility	Residential	Medium	No Impact to Major	Negligible to Major Adverse	BPM, Noise attenuation from engineering, enhanced cladding and enclosure design, procurement of quieter design plant.	Negligible to Minor adverse
	Increased Noise on Sensitive Receptors from Off-Site	Residential	Medium	No Impact to Negligible	Negligible adverse	N/A	Negligible adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Operational Traffic						
	Operational Vessel Movements	Residential	Medium	No Impact to Negligible	Negligible adverse	N/A	Negligible adverse
	Operational Vibration	Residential	Medium	No Impact to Negligible	Negligible adverse	N/A	Negligible adverse
<b>Chapter 11 Contaminated Land, Land Use and Hydrogeology</b>	Impact on Human Health and Controlled waters Including Workers and Public During Operation as a result of residual contaminants present within the ground	Human Health Groundwater Surface waters	Medium to High	Negligible	Negligible to Minor	None required	Negligible to Minor adverse
	Impact on human health and controlled waters during Operation from as a result of new sources of contamination being introduced	Human Health Groundwater Surface waters	Medium to High	Negligible	Negligible to Minor	None required	Negligible to Minor adverse
<b>Chapter 12 Terrestrial Ecology</b>	Non-statutory Designated Sites (acid/nitrogen deposition)	LWS (Havenside , South Forty Foot Drain and Slippery Gowt Sea Bank)	Medium	Medium	Moderate adverse	Implementation of mitigation measures to control acid/nitrogen deposition such as, but not limited to, dust management measures.	Minor adverse
	Disturbance effects associated	Disturbance to	High	Negligible	Minor adverse	None required.	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Maintenance Activities	Habitats and Species from Maintenance Activities					
	Disturbance to Fauna from Operational Lighting and Noise	Disturbance to Fauna from Operational Lighting and Noise	High	Low	Moderate adverse	<p>Use of low pressure sodium lighting located away from areas used by bird/bat species. All lights will also be designed in accordance with the BCT guidance relating to artificial lighting.</p> <p>Attenuating and reducing the operational noise from dominant noise sources, upgrading the sound reduction index of stated buildings and partial or full enclosure screening through natural topography or intervening buildings.</p>	Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
<b>Chapter 13 Surface Water, Flood Risk and Drainage Strategy</b>	Changes to surface water runoff and flood risk	IDB drains	Medium	Negligible	Minor adverse	An existing attenuation pond will be used before discharging via surface water ditches at a controlled rate into the IDB drain adjacent to the Site.	Negligible
	Supply of fine sediment and other contaminants	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
<b>Chapter 14 Air Quality Assessment</b>	Stack, road traffic and vessel emissions	Human receptors	High	Few receptors experienced slight to substantial adverse impacts. Most receptors experienced Negligible effects.	Minor adverse	None required	Minor adverse
		Ecological receptors	High	Impacts above the threshold of insignificance.	Significance of effects on designated sites is detailed in Chapter 12 Terrestrial Ecology and Chapter 17	See Chapter 12 Terrestrial Ecology and Chapter 17 Marine and Coastal Ecology.	Chapter 12 Terrestrial Ecology and Chapter 17 Marine and Coastal Ecology.

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
					Marine and Coastal Ecology.		
	Odour emissions from RDF processing	Human receptors	High	Negligible	Not significant	None required	Not significant
	Transboundary impacts	Human and ecological receptors	High	Negligible	Not significant	None required	Not significant
<b>Chapter 15 Marine Sediment and Water Quality</b>	Impacts on suspended solids concentrations and chemical contaminants associated with maintenance dredging.	Water Quality	Medium	Negligible	Minor adverse	None required	Minor adverse
<b>Chapter 16 Estuarine Processes</b>	Changes to the tidal current regime and erosion/accretion patterns due to the presence of the wharf and berthing areas.	The Wash EMS	N/A	N/A	No effect	N/A	No effect
		Havenside LNR	N/A	N/A	Negligible effect	N/A	Negligible effect
	Changes to the wave regime (ship wash) due to the increase in vessel traffic.	The Wash EMS and Havenside LNR	N/A	N/A	Negligible effect	N/A	Negligible effect
	Changes in suspended sediment concentrations due to maintenance dredging of the berthing areas.	The Wash EMS and Havenside LNR	N/A	N/A	No effect	N/A	No effect

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Changes in estuary-bed level due to maintenance dredging of the berthing areas.	The Wash EMS and Havenside LNR	N/A	N/A	Negligible effect	N/A	Negligible effect
<b>Chapter 17 Marine and Coastal Ecology</b>	Habitat alteration due to hydrodynamic changes.	Intertidal and subtidal habitats	Low	Medium	Minor adverse	Dredging works to be minimised according to best practice and monitor the seabed and habitat level through regular bathymetric and habitat surveys.	Minor adverse
	Changes in vessel traffic and movement leading to increased ship wash, underwater noise, disturbance and collision risk.	Increased risk of invasive species with ballast water	Negligible	Negligible	Negligible	Shipping to be kept to a minimum, as necessary. Risk of invasive species to be managed through the Navigational Management Plan.  Best practice measures to minimise the disturbance (such as an observer on board each vessel, looking out for marine mammals as the vessel makes its way through The Wash and up The Haven).	Negligible
		Intertidal habitats (increased ship wash)	Medium	Low	Minor adverse		Minor adverse
		Birds (visual disturbance)	Medium	Low	Minor adverse		Minor adverse
		Disturbance from vessels – fish species	Medium	Low	Minor adverse		Minor adverse

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Disturbance from vessels – harbour seal	Low	Negligible	Negligible	Slow speed (max. 4 knots) to be kept for all vessels. Vessel movements to be incorporated in to recognised vessel routes.	Negligible
		Disturbance at harbour seal haul-out sites	High	Negligible	Minor adverse		Minor adverse
		Increased risk of collisions for marine mammals (impact zone includes the Wash as a transit area)	Low	Medium	Minor adverse	Slow speed (max. 4 knots) to be kept for all vessels. Vessel movements to be incorporated in to recognised vessel routes.	Minor adverse
	Increased levels of suspended sediments due to maintenance dredging.	Fish (migration and behaviour)	Medium	Negligible	Minor adverse	Given that the maintenance dredging will form part of the existing wider maintenance programme, and the nature of the predicted impacts, no specific measures are considered necessary.	Minor adverse
		Benthic fauna	Low	Negligible	Negligible		Negligible

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Beaching of vessels at low tide.	Benthic fauna	Low	Low	Minor adverse	No mitigation was deemed necessary.	Minor adverse
	Increased emissions to air and deposition on marine and estuarine habitats.	Marine and coastal habitats	Medium	Low	Minor adverse	Continuous monitoring of emissions from the stack.	Negligible
<b>Chapter 18 Navigation al Issues</b>	Increase in the number of vessels using The Haven	Port of Boston and Pilots	Medium	Medium	Moderate adverse	Publication of an NMP with clear procedures and communication methods and use of messaging boards.	Minor adverse
		Fishermen	High		Major adverse		Moderate adverse
		Other Commercial Users	Medium		Moderate adverse		Minor adverse
		Recreational Users	Low		Low		Minor adverse
	Presence and operation of the wharf	All	Low	Low	Minor adverse	Publication of an NMP with clear procedures and communication methods.	Negligible
	Increased use of the turning circle	Port of Boston and Pilot	Medium	Medium	Moderate adverse	Publication of an NMP with clear procedures and communication methods and use of messaging boards.	Minor adverse
		Fishermen	High		Major adverse		Moderate adverse
		Other Commercial Users	Medium		Moderate adverse		Minor adverse
		Recreational Users	Low		Minor adverse		Negligible
	Maintenance dredging	All	Low	Low	Minor adverse	Publication of NtM.	Negligible



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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	at the facility						
	Presence of lighting	All	High	Medium	Major adverse	Careful design of lighting structures to minimise spill, glare and skyglow. Use of passive lighting.	Minor adverse
	Accidental release of materials (i.e. RDF bales)	All	Low	Low	Minor adverse	Catch-screen or net below the crane arm.	Negligible
<b>Chapter 19 Traffic and Transport</b>	Pedestrian Severance	Link 10	Low	Low	Negligible	N/A	Negligible
	Pedestrian Amenity	Link 10	Low	Very Low	Negligible	N/A	Negligible
	PRoW Closures	Boston Public Footpath No. 14	High	Low	Minor	N/A	Minor
	Road Safety	Cluster 1	Very low	High	Minor	N/A	Minor
		Cluster 2, 3.	Very low	Low	Negligible	N/A	Negligible
	Driver Delay	Junctions 1, 2, 3, 4.	Very low	Low – High	Negligible – Minor	N/A	Negligible – Minor
<b>Chapter 20 Socio- Economics</b>	Employment	AOI	Medium	High	Major beneficial	N/A	Minor beneficial
	Housing Market	AOI	Low	Negligible	Negligible	N/A	Negligible
	Primary Education	3 km of Application Site	Medium	Negligible	Negligible	N/A	Negligible
	Secondary Education	5 km of Application Site	Medium	Negligible	Negligible	N/A	Negligible

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	Health	5 km of Application Site	Medium	Negligible	Negligible	N/A	Negligible
	Tourism	AOI	Low	Negligible	Negligible	N/A	Negligible
	Energy Security/Reliability	AOI	Medium/High	Beneficial	Moderate-Substantial	N/A	Beneficial, Moderate-Substantial
<b>Chapter 21 Climate Change</b>	Green House Gas (GHG) emissions from the Facility	Global atmosphere	The assessment approach does not consider the sensitivity of the receptor, which is the global atmosphere.	N/A	Does not represent a significant net CO <sub>2</sub> emissions contribution, therefore does not affect the UK's ability to meet 2050 carbon targets.	N/A	Not significant
	Impact of climate change on the Facility	The vulnerability of the Facility and associated infrastructure to increased temperatures, drought and flood	The Application Site is considered to have a low sensitivity to increased temperatures, drought	Moderate	Low	Implementation and maintenance of surface water drainage strategy.	Not significant

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		risk.	and flood risk.				
<b>Chapter 22 Health</b>	Outdoor Amenity (i.e. physical activity and access to biodiversity)	Site-specific and local populations	Low	Medium	Not significant	N/A	Not significant
	Journey times, reduced access and/or safety	Site-specific and local populations	Medium	Small	Not significant	N/A	Not significant
	Air quality	Site-specific and local populations	Low	Medium	Not significant	N/A	Not significant
	Noise	Site-specific and local populations	Low	Medium	Not significant	N/A	Not significant
	Ground and/or water contamination	Site-specific populations	Low	Small	Not significant	N/A	Not significant
	Climate change and flood risk	Site-specific and local populations	Low	Small	Not significant	N/A	Not significant
	Employment and Education	Site-specific, local and Greater Lincolnshire Local	Medium	Medium (beneficial)	Not significant (or beneficial)	N/A	Not significant

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Enterprise Partnership (GLLEP) populations					
<b>Chapter 23 Waste Assessment Report</b>	Impacts associated with residual non-hazardous material during operation	N/A	N/A	N/A	No effect	N/A	No effect
	Impacts associated with residual hazardous material during operation	National (England) hazardous Landfill Capacity	Negligible	Negligible	Negligible (No effect)	N/A	No effect
<b>Chapter 24 Major Accidents and Risk Management</b>	Tidal Flooding	Operational workers  Offsite residents or commercial workers	(Likelihood) Very unlikely	Medium	Minor	N/A	Not significant
		The Wash (Special Protection Area (SPA), Ramsar, Special Area of Conservation (SAC) and Site of	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant

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ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Special Scientific Interest (SSSI)					
		Havenside Local Nature Reserve (LNR)	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
		Off-site designated heritage assets (Scheduled Monument, Grade I Listed Building)	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
		Best and Most Versatile (BMV) soils	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
	Climatological Extreme temperatures	Operational workers  Off-site residents / commercial workers	(Likelihood) Very unlikely	Medium	Minor	N/A	
		The Wash	(Likelihood)	Low	Negligible	N/A	Not

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		(SPA, Ramsar, SAC and SSSI)	Extremely unlikely				significant
		BMV soils	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
	Major accidents Widespread electricity failure and infrastructure failures	Operational workers  Off-site residents / commercial workers	(Likelihood) Not significant	Not significant	Not significant	N/A	Not significant
		The Wash (SPA, Ramsar, SAC and SSSI)	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
		BMV soils	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
	Major accidents  Infrastructure failure	Operational workers  Off-site residents / commercial workers	(Likelihood) Extremely unlikely	Medium	Negligible	N/A	Not significant

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		The Wash (SPA, Ramsar, SAC and SSSI)	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
		BMV soils	(Likelihood) Extremely unlikely	Low	Negligible	N/A	Not significant
	Major accidents  Transport accidents (vessel to vessel and ship grounding)	Operational workers	(Likelihood) Very Unlikely	Not significant	Minor	N/A	Not significant
		Other ship crews	(Likelihood) Very Unlikely	Low	Negligible	N/A	Not significant
<b>Decommissioning</b>							
<b>Chapter 8 Cultural Heritage</b>	Direct impact to potential buried archaeological remains	66: Prehistoric peat deposits and historic alluvium	High	Negligible	Minor adverse	Previous works during construction will have mitigated	Minor adverse (not significant)
		90: The Haven	High	Negligible	Minor adverse	Previous works during construction	Minor adverse (not significant)

ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
		Mudbanks				will have mitigated	significant)
		91: Foreshore remains	High	Negligible	Minor adverse	Previous works during construction will have mitigated	Minor adverse (not significant)
		96: Buried archaeological features	High	Negligible	Minor adverse	Previous works during construction will have mitigated	Minor adverse (not significant)
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Low (positive)	Minor beneficial	N/A	Minor beneficial
		5: Slippery Gowt Sluice	High	Negligible (positive)	Negligible beneficial	N/A	Negligible beneficial
		6: Maud Foster Sluice	High	Low (positive)	Minor beneficial	N/A	Minor beneficial
		7: Parish Church of St Nicholas	High	Low (positive)	Negligible beneficial	N/A	Negligible beneficial
		26: St Botolph's Church	High	Low (positive)	Negligible beneficial	N/A	Negligible beneficial
		31: Skirbeck Conservation Area	Medium	Low (positive)	Negligible beneficial	N/A	Negligible beneficial
		33: Wyberton Conservation Area	Medium	Low (positive)	Negligible beneficial	N/A	Negligible beneficial
Direct impact upon above ground heritage	No effect						



ES Chapter	Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Effect
	asset						
	Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Low (positive)	Minor beneficial	N/A	Minor beneficial
<b>Chapter 18 Navigation al Issues</b>	Increase in the number of vessels on The Haven	Port of Boston and Pilots, Fishermen, Other Commercial Users and Recreational Users.	High	Low	Moderate adverse	Publication of a Decommissioning Plan.	Minor adverse
		Fishermen	Medium		Minor adverse		Negligible
		Other Commercial Users	Medium				
		Recreational Users	Low				
<b>All other chapters</b>	No additional effects are anticipated during the decommissioning phase than those identified during construction.						