



## **Thurrock Flexible Generation Plant**

**Environmental Statement Volume 5  
Chapter 33: Summary of Further Mitigation, Residual Effects and Monitoring**

**Date:** April 2020

**Environmental Impact Assessment**

**Environmental Statement**

**Volume 5**

**Chapter 33**

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Report Number: OXF10872

Version: Final

Date: April 2020

This report is also downloadable from the Thurrock Flexible Generation Plant website at:  
<http://www.thurrockpower.co.uk>

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## Summary

This document summarises the environmental effects, proposed mitigation and monitoring, and residual effects predicted in the EIA process undertaken for Thurrock Flexible Generation Plant. Full details can be found in the individual topic chapters (Volume 3, Chapters 6 to 17) of this Environmental Statement.

## Qualifications

This document has been prepared by Senuri Mahamithawa, BSc in Biological Sciences and MSc in Environmental Technology, who has two years' experience.

This document has been checked by Tom Dearing, a Chartered Environmentalist and full Member of the Institute of Environmental Management and Assessment, who has nine years' experience of environmental impact assessment.

## 1. Introduction

### 1.1 Purpose of this chapter

- 1.1.1 This chapter of the Environmental Statement (ES) presents the summary of environmental effects, proposed mitigation and monitoring, and residual effects following the findings of Environmental Impact Assessment (EIA) work undertaken concerning potential impacts and significant effects of Thurrock Flexible Generation Plant.
- 1.1.2 Full details of the environmental assessment can be found in the individual topic chapters (Volume 3, Chapters 6 to 17) of this ES. A further summary of mitigation measures, detailing how each will be secured, is provided in Volume 6, Appendix 2.1.

Table 1.1: Summary of Further Mitigation, Residual Effects and Monitoring

| Description of impact  | Measures adopted as part of the project   | Magnitude of impact    | Sensitivity of receptor | Significance of effect  | Additional measures   | Residual effect   | Proposed monitoring  |
|--|---|------------------------|-------------------------|---|---|---|--|
| <b>Chapter 6: Landscape and Visual Resources</b>   |   |                        |                         |   |   |   |  |
| <b>Construction</b>  |   |                        |                         |   |   |   |  |
| Direct and indirect impacts on landscape resources and receptors   | None at the construction phase  | Minor to moderate      | Medium                  | Minor to moderate adverse (not significant in EIA terms)                      | None  | Minor to moderate adverse (not significant in EIA terms)                              | None   |
| Direct impact on visual resources and receptors  | None at the construction phase  | No change to major     | Low to high             | Negligible to major adverse (not significant to significant in EIA terms)     | None  | None to major adverse (not significant to significant in EIA terms)                   | None   |
| <b>Operation and maintenance</b>   |   |                        |                         |   |   |   |  |
| Direct and indirect impacts on landscape resources and receptors   | Built in landscape mitigation measures will form part of the proposed development (see Table 2.8 in Volume 3 Chapter 6) | Negligible to moderate | Low to medium           | Negligible to moderate adverse (not significant in EIA terms)                 | None  | Negligible to moderate adverse (not significant in EIA terms)                         | Five-year defects liability period   |
| Direct impact on visual resources and receptors  | Built in landscape mitigation measures will form part of the proposed development (see Table 2.8 in Volume 3 Chapter 6) | No change to major     | Low to high             | Negligible to major adverse (not significant to significant in EIA terms)     | None  | Negligible to major adverse (not significant to significant in EIA terms)             | Five-year defects liability period   |
| <b>Decommissioning</b>   |   |                        |                         |   |   |   |  |
| Direct and indirect impacts on landscape resources and receptors   | None at the decommissioning phase   | Negligible to moderate | Medium                  | Negligible to moderate adverse (not significant in EIA terms)                 | None  | Negligible to moderate adverse (not significant in EIA terms)                         | None   |
| Direct impact on visual resources and receptors  | None at the decommissioning phase   | Negligible to moderate | Low to high             | Negligible to moderate to major (not significant to significant in EIA terms) | None  | Negligible to moderate to major adverse (not significant to significant in EIA terms) | None   |
| <b>Chapter 7: Historic Environment</b>   |   |                        |                         |   |   |   |  |
| <b>Construction</b>  |   |                        |                         |   |   |   |  |
| Construction of Thurrock Flexible Generation Plant (including any stripping required for storage, compounds and accesses) could result in permanent loss of or damage to, heritage assets comprising buried archaeological remains | As set out in the Outline Written Scheme of Investigation   | Major (where present)  | Medium to high          | Moderate to major adverse (significant in EIA terms)                          | As set out in the Outline Written Scheme of Investigation<br>Possibility of refined design solutions (e.g. micro-siting or 'no dig' solutions for some aspects of the scheme) | Minor adverse (not significant in EIA terms)  | Monitoring during construction as set out in the Outline Written Scheme of Investigation |

| Description of impact  | Measures adopted as part of the project | Magnitude of impact | Sensitivity of receptor | Significance of effect                       | Additional measures | Residual effect                              | Proposed monitoring |
|--|---|---------------------|-------------------------|--|---------------------|--|---------------------|
| Temporary impacts on the setting of West Tilbury Earthworks Scheduled Monument                                   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Tilbury Fort Scheduled Monument  | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Gravesend Blockhouse Scheduled Monument                                      | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of New Tavern Fort Scheduled Monument   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Coalhouse Fort Scheduled Monument  | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Bowaters Farm Battery Scheduled Monument                                     | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Cliffe Fort Scheduled Monument   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of West Tilbury Conservation Area and designated assets therein                 | n/a                                     | Minor               | High                    | Moderate adverse (significant in EIA terms)  | None                | Moderate adverse (significant in EIA terms)  | None                |
| Temporary impacts on the setting of East Tilbury Conservation Area   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary effects on the setting of Grade II* Riverside Station as a result of noise and/or visual impact        | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary effects on the setting of Grade I St Mary's Church, and Grade II Chadwell House and Sleepers Farmhouse | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Grade II Buckland  | n/a                                     | Minor               | Medium                  | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |

| Description of impact  | Measures adopted as part of the project | Magnitude of impact | Sensitivity of receptor | Significance of effect                       | Additional measures | Residual effect                              | Proposed monitoring |
|--|---|---------------------|-------------------------|--|---------------------|--|---------------------|
| Construction works at Thurrock Flexible Generation Plant could result in impacts on the overall historic landscape | n/a                                     | Minor               | Medium                  | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| <b>Operation and maintenance</b>   |   |                     |                         |  |                     |  |                     |
| Loss of or damage to, heritage assets comprising buried archaeological remains                                     | n/a                                     | No change           | Medium                  | No change                                    | None                | No change                                    | None                |
| Long-term impacts on the settings of scheduled earthworks at West Tilbury  | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Tilbury Fort Scheduled Monument  | n/a                                     | Minor               | High                    | Moderate adverse (significant in EIA terms)  | None                | Moderate adverse (significant in EIA terms)  | None                |
| Long-term impacts on the setting of Gravesend Blockhouse Scheduled Monument  | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of New Tavern Fort Scheduled Monument   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Coalhouse Fort Scheduled Monument  | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Bowaters Farm Battery Scheduled Monument                                       | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Cliffe Fort Scheduled Monument   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of West Tilbury Conservation Area and designated assets therein                   | n/a                                     | Minor               | High                    | Moderate adverse (significant in EIA terms)  | None                | Moderate adverse (significant in EIA terms)  | None                |
| Long-term impacts on the setting of East Tilbury Conservation Area   | n/a                                     | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |

| Description of impact   | Measures adopted as part of the project                  | Magnitude of impact | Sensitivity of receptor | Significance of effect                       | Additional measures | Residual effect                              | Proposed monitoring |
|---|--|---------------------|-------------------------|--|---------------------|--|---------------------|
| Long-term impacts on the setting of Grade II* Riverside Station as a result of noise and/or visual impact                               | n/a  | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Grade I St Mary's Church, and Grade II Chadwell House and Sleepers Farmhouse                        | n/a  | Minor               | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Long-term impacts on the setting of Grade II Buckland   | n/a  | Minor               | Medium                  | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| The operation and maintenance of Thurrock Flexible Generation Plant could result in long-term impacts on the overall historic landscape | Landscape planting including the gapping up of hedgerows | Minor               | Medium                  | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| <b>Decommissioning</b>  |  |                     |                         |  |                     |  |                     |
| Temporary impacts on the setting of West Tilbury Earthworks Scheduled Monument  | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Tilbury Fort Scheduled Monument   | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Gravesend Blockhouse Scheduled Monument   | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of New Tavern Fort Scheduled Monument  | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Coalhouse Fort Scheduled Monument   | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Bowaters Farm Battery Scheduled Monument  | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |
| Temporary impacts on the setting of Cliffe Fort Scheduled Monument  | To be defined in decommissioning plan                    | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None                | Minor adverse (not significant in EIA terms) | None                |



| Description of impact   | Measures adopted as part of the project                                | Magnitude of impact | Sensitivity of receptor | Significance of effect                          | Additional measures | Residual effect                                 | Proposed monitoring |
|---|--|---------------------|-------------------------|---|---------------------|---|---------------------|
| Temporary impacts on the setting of West Tilbury Conservation Area and designated assets therein                                | To be defined in decommissioning plan                                  | Negligible          | High                    | Minor adverse (not significant in EIA terms)    | None                | Minor adverse (not significant in EIA terms)    | None                |
| Temporary impacts on the setting of East Tilbury Conservation Area  | To be defined in decommissioning plan                                  | Negligible          | High                    | Minor adverse (not significant in EIA terms)    | None                | Minor adverse (not significant in EIA terms)    | None                |
| Temporary effects on the setting of Grade II* Riverside Station as a result of noise and/or visual impact                       | To be defined in decommissioning plan                                  | Negligible          | High                    | Minor adverse (not significant in EIA terms)    | None                | Minor adverse (not significant in EIA terms)    | None                |
| Temporary effects on the setting of Grade I St Mary's Church, and Grade II Chadwell House and Sleepers Farmhouse                | To be defined in decommissioning plan                                  | Negligible          | High                    | Minor adverse (not significant in EIA terms)    | None                | Minor adverse (not significant in EIA terms)    | None                |
| Temporary impacts on the setting of Grade II Buckland   | To be defined in decommissioning plan                                  | Negligible          | Medium                  | Minor adverse (not significant in EIA terms)    | None                | Minor adverse (not significant in EIA terms)    | None                |
| Decommissioning works at Thurrock Flexible Generation Plant could result in temporary impacts on the overall historic landscape | To be defined in decommissioning plan                                  | Negligible          | Low                     | Negligible (not significant in EIA terms)       | None                | Negligible (not significant in EIA terms)       | None                |
| <b>Chapter 8: Land Use, Agriculture and Socio-economics</b>   |  |                     |                         |   |                     |   |                     |
| <b>Construction</b>   |  |                     |                         |   |                     |   |                     |
| <b>Agriculture</b>  |  |                     |                         |   |                     |   |                     |
| Impact on ALC including permanent loss of agricultural land   | None   | Major               | Medium to high          | Moderate adverse (not significant in EIA terms) | None                | Moderate adverse (not significant in EIA terms) | None                |
| Impact on farm holdings   | None   | Negligible          | Medium                  | Negligible (not significant in EIA terms)       | None                | Negligible (not significant in EIA terms)       | None                |
| <b>Other land uses</b>  |  |                     |                         |   |                     |   |                     |
| Permanent loss of Access Land (registered common land)  | Provision of replacement land and new permissive route for pedestrians | Minor               | Medium                  | Minor beneficial (not significant in EIA terms) | None                | Minor beneficial (not significant in EIA terms) | None                |
| Temporary disruption to Access Land (registered common land)  |  |                     |                         |   |                     |   |                     |

| Description of impact   | Measures adopted as part of the project                       | Magnitude of impact | Sensitivity of receptor                     | Significance of effect                                      | Additional measures   | Residual effect   | Proposed monitoring  |
|---|---|---------------------|---|---|---|---|--|
| Temporary disruption to public rights of way                    | Provision of temporary diversions/traffic management measures | Minor               | Thames Estuary Path (Medium)<br>FP200 (low) | Minor adverse (not significant in EIA terms)                | None  | Minor adverse (not significant in EIA terms)                | None   |
| Temporary disruption to national cycle network route 13 (NCR13) | Provision of traffic management measures                      | Minor               | High  | Minor adverse (not significant in EIA terms)                | None  | Minor adverse (not significant in EIA terms)                | None   |
| <b>Socio-economics</b>  |   |                     |   |   |   |   |  |
| Direct creation of jobs   | None  | Minor               | Low to medium                               | Minor to moderate beneficial (not significant in EIA terms) | None  | Minor to moderate beneficial (not significant in EIA terms) | None   |
| Indirect creation of jobs                                       | None  | Minor               | Low to medium                               | Minor to moderate beneficial (not significant in EIA terms) | None  | Minor to moderate beneficial (not significant in EIA terms) | None   |
| <b>Operation and maintenance</b>                                |   |                     |   |   |   |   |  |
| <b>Agriculture</b>  |   |                     |   |   |   |   |  |
| Impact on ALC   | None  | Moderate            | Medium                                      | Moderate adverse (not significant in EIA terms)             | None  | Moderate adverse (not significant in EIA terms)             | None   |
| Impact on farm holdings   | None  | Negligible          | Medium                                      | Negligible (not significant in EIA terms)                   | None  | Negligible (not significant in EIA terms)                   | None   |
| <b>Decommissioning</b>  |   |                     |   |   |   |   |  |
| <b>Socio-economics</b>  |   |                     |   |   |   |   |  |
| Creation of jobs  | None  | Minor               | Medium                                      | Minor to moderate beneficial (not significant in EIA terms) | None  | Minor to moderate beneficial (not significant in EIA terms) | None   |
| <b>Chapter 9: Ecology</b>                                       |   |                     |   |   |   |   |  |
| <b>Construction</b>   |   |                     |   |   |   |   |  |
| Permanent loss of grassland                                     | Minimising grassland loss where practicable                   | Major               | Medium                                      | Moderate adverse (significant in EIA terms)                 | Grassland creation in Zones E and F to provide greater area than permanently lost     | Moderate beneficial (significant in EIA terms)              | Vegetation monitoring to assess success of habitat creation        |
| Permanent loss of ditches                                       | Retention of ditches where practicable e.g. Zone A boundaries | Major               | Low   | Minor adverse (not significant in EIA terms)                | Ditch creation in Zone F to provide net gain of ditches                               | Minor beneficial (not significant in EIA terms)             | Vegetation monitoring to assess success of habitat creation        |
| Permanent loss of invertebrate habitat                          | Minimising grassland loss where practicable                   | Minor               | Medium                                      | Minor adverse (not significant in EIA terms)                | Invertebrate habitat creation in Zone F to provide greater area than permanently lost | Minor beneficial (not significant in EIA terms)             | Habitat condition monitoring to assess success of habitat creation |

| Description of impact                               | Measures adopted as part of the project  | Magnitude of impact | Sensitivity of receptor | Significance of effect                            | Additional measures  | Residual effect                                   | Proposed monitoring  |
|---|--|---------------------|-------------------------|---|--|---|--|
| Permanent loss of GCN habitat                       | If practicable, works could be timed to avoid the active GCN season, but if not a GCN licence may need to be applied for to include temporary fencing to exclude GCN from the works area within the vicinity of GCN ponds. | Minor               | Medium                  | Minor adverse (not significant in EIA terms)      | Fencing to exclude GCN from temporary works areas  | No change   | Monitoring of GCN ponds if required by licence application         |
| Permanent loss of reptile habitat                   | Minimising habitat loss where practicable  | Major               | Medium                  | Moderate adverse (significant in EIA terms)       | Reptile habitat creation in Zone F to provide greater area than permanently lost, translocation from works area  | Minor beneficial (not significant in EIA terms)   | Reptile population monitoring                                      |
| Permanent loss of breeding bird habitat             | Minimising habitat loss where practicable  | Minor               | Low                     | Minor adverse (not significant in EIA terms)      | Habitat creation in Zone F to provide greater area than permanently lost, particularly for Cetti's warbler   | Minor beneficial (not significant in EIA terms)   | Bird population monitoring   |
| Permanent loss of intertidal wintering bird habitat | Minimising habitat loss where practicable  | Negligible          | Medium                  | Negligible adverse (not significant in EIA terms) | Although saltmarsh creation not required to mitigate loss of habitat for birds, c1.1-1.3 ha of saltmarsh will be created through long-term sediment accretion on mudflats. Overall neutral effect. | Negligible adverse (not significant in EIA terms) | Habitat condition monitoring to assess success of habitat creation |
| Permanent loss of water vole habitat                | Minimising habitat loss where practicable  | Major               | Medium                  | Moderate adverse (significant in EIA terms)       | Water vole habitat creation in Zone F to provide net gain ditch habitat, enhancement of retained ditches and translocation from works area (if required)   | Minor beneficial (not significant in EIA terms)   | Water vole population monitoring                                   |
| Permanent loss of bat foraging habitat              | Minimising habitat loss where practicable  | Minor               | Low                     | Minor adverse (not significant in EIA terms)      | Habitat creation in Zones E and F to provide greater area than permanently lost  | Minor beneficial (not significant in EIA terms)   | n/a  |
| Permanent loss of badger habitat                    | Minimising habitat loss where practicable  | Minor               | Low                     | Negligible adverse (not significant in EIA terms) | Habitat creation in Zones E and F to provide greater area than permanently lost  | Minor beneficial (not significant in EIA terms)   | n/a  |
| Temporary loss of grassland                         | Minimising habitat loss where practicable  | Minor               | Low                     | Negligible adverse (not significant in EIA terms) | Grassland creation in Zone F to provide overall net gain in area   | Minor beneficial (not significant in EIA terms)   | Habitat condition monitoring to assess success of habitat creation |

| Description of impact   | Measures adopted as part of the project   | Magnitude of impact | Sensitivity of receptor | Significance of effect                            | Additional measures   | Residual effect                                   | Proposed monitoring  |
|---|---|---------------------|-------------------------|---|---|---|--|
| Temporary loss of ditches   | Minimising habitat loss where practicable   | Minor               | Low                     | Minor adverse (not significant in EIA terms)      | Restoration of ditch habitat  | No change   | Habitat condition monitoring to assess success of habitat creation                                       |
| Temporary loss of hedgerows   | Retention of hedgerows where practicable  | Minor               | Low                     | Minor adverse (not significant in EIA terms)      | Provision of replacement planting   | No change   | Habitat condition monitoring to assess success of habitat creation                                       |
| Temporary loss of reptile habitat   | Minimising habitat loss where practicable   | Minor               | Medium                  | Minor adverse (not significant in EIA terms)      | Translocation of reptiles and habitat restoration   | No change   | Reptile population monitoring  |
| Temporary loss of intertidal wintering bird habitat   | Minimising habitat loss where practicable   | Negligible          | Medium                  | Negligible adverse (not significant in EIA terms) | n/a   | Negligible adverse (not significant in EIA terms) | Monitoring of wintering birds during causeway use if barge deliveries overlap with wintering bird season |
| Temporary loss of water vole habitat  | Minimising habitat loss where practicable   | Minor               | Medium                  | Minor adverse (not significant in EIA terms)      | Habitat restoration post-construction   | No change   | Water vole population monitoring   |
| Temporary loss of bat habitat   | Minimising habitat loss where practicable   | Minor               | Low                     | Minor adverse (not significant in EIA terms)      | Replacement planting of hedgerows and installation of artificial hedgerows to close gaps while replacement planting matures | No change   | n/a  |
| Airborne pollutant effects on designated sites  | Measures to reduce dust generation and other emissions during construction as set out in CoCP | Negligible          | Medium                  | Negligible adverse (not significant in EIA terms) | n/a   | Negligible adverse (not significant in EIA terms) | n/a  |
| Airborne pollutant effects on habitat sites   | Measures to reduce dust generation and other emissions during construction as set out in CoCP | Negligible          | Medium                  | Negligible adverse (not significant in EIA terms) | n/a   | Negligible adverse (not significant in EIA terms) | n/a  |
| Runoff pollutant effects on designated sites  | Measures to manage discharges to surface water as set out in CoCP                             | Negligible          | High                    | Minor adverse (not significant in EIA terms)      | n/a   | Minor adverse (not significant in EIA terms)      | n/a  |
| Runoff pollutant effects on habitats  | Measures to manage discharges to surface water as set out in CoCP                             | Negligible          | Medium                  | Negligible adverse (not significant in EIA terms) | n/a   | Negligible adverse (not significant in EIA terms) | n/a  |
| Noise, lighting and visual disturbance effects on breeding and wintering birds from construction in terrestrial zones | Measures to minimise noise and lighting as set out in CoCP                                    | Minor               | Medium                  | Minor adverse (not significant in EIA terms)      | n/a   | Minor adverse (not significant in EIA terms)      | n/a  |

| Description of impact  | Measures adopted as part of the project   | Magnitude of impact | Sensitivity of receptor   | Significance of effect                                    | Additional measures   | Residual effect   | Proposed monitoring  |
|--|---|---------------------|---------------------------|---|---|---|--|
| Noise, lighting and visual disturbance effects on wintering intertidal birds from construction and use of the Zone G causeway in the intertidal zone | Measures to minimise noise and lighting as set out in CoCP                          | Minor               | Medium                    | Minor adverse (not significant in EIA terms)              | n/a   | Minor adverse (not significant in EIA terms)              | Monitoring of wintering birds during causeway use if barge deliveries overlap with wintering bird season |
| Lighting effects on foraging bats  | Measures to minimise lighting as set out in CoCP                                    | Negligible          | Medium                    | Negligible adverse (not significant in EIA terms)         | n/a   | Negligible adverse (not significant in EIA terms)         | n/a  |
| Permanent loss of grassland  | Minimising grassland loss where practicable   | Major               | Medium                    | Moderate adverse (significant in EIA terms)               | Grassland creation in Zones E and F to provide greater area than permanently lost | Moderate beneficial (significant in EIA terms)            | Vegetation monitoring to assess success of habitat creation  |
| <b>Operation and maintenance</b>   |   |                     |                           |   |   |   |  |
| Aerial emissions on designated sites during operation  | Refer to Volume 3, Chapter 12: Air quality  | Negligible          | Medium – Very high        | Negligible – Minor adverse (not significant in EIA terms) | n/a   | Negligible – Minor adverse (not significant in EIA terms) | n/a  |
| Surface water effects on designated sites and habitats during operation  | Refer to Volume 3, Chapter 15: Hydrology and flood risk                             | No change           | High                      | No change   | n/a   | No change   | n/a  |
| Noise and lighting effects on breeding birds during operation  | Access road unlit. Use of directional security lighting to minimise light spillage. | Negligible          | Medium                    | Negligible adverse (not significant in EIA terms)         | n/a   | Negligible adverse (not significant in EIA terms)         | n/a  |
| Noise and lighting effects on wintering birds during operation   | Access road unlit. Use of directional security lighting to minimise light spillage. | No change           | Medium (intertidal birds) | No change   | n/a   | No change   | n/a  |
| Lighting effects on bats during operation  | Access road unlit. Use of directional security lighting to minimise light spillage. | Negligible          | Medium                    | Negligible adverse (not significant in EIA terms)         | n/a   | Negligible adverse (not significant in EIA terms)         | n/a  |
| <b>Decommissioning</b>   |   |                     |                           |   |   |   |  |
| Impacts on designated sites  | To be provided in Decommissioning Plan  | Negligible          | Medium                    | Negligible adverse (not significant in EIA terms)         | n/a   | Negligible adverse (not significant in EIA terms)         | n/a  |
| Impacts on habitats  | To be provided in Decommissioning Plan  | Negligible          | Medium                    | Negligible adverse (not significant in EIA terms)         | n/a   | Negligible adverse (not significant in EIA terms)         | Monitoring requirement for habitats to be determined at decommissioning stage                            |
| Impacts on species   | To be provided in Decommissioning Plan  | Minor               | Medium                    | Minor adverse (not significant in EIA terms)              | n/a   | Minor adverse (not significant in EIA terms)              | Monitoring requirement for species to be determined at decommissioning stage                             |
| <b>Chapter 10: Traffic and Transport</b>   |   |                     |                           |   |   |   |  |
| <b>Construction</b>  |   |                     |                           |   |   |   |  |
| Driver Delay   | An Outline Construction Traffic Management Plan                                     | Negligible          | Negligible / Low          | Negligible (not significant in EIA terms)                 | None  | Negligible (not significant in EIA terms)                 | None   |

| Description of impact                  | Measures adopted as part of the project  | Magnitude of impact  | Sensitivity of receptor | Significance of effect   | Additional measures | Residual effect  | Proposed monitoring   |
|--|--|--|-------------------------|--|---------------------|--|---|
| Severance                              | (CTMP) and Outline Construction Worker Travel Plan (CWTP) have been developed to minimise the impacts of construction vehicle movements and to manage those movements in a manner that road safety is maintained.  | Negligible   | Negligible / Low        | Negligible (not significant in EIA terms)  | None                | Negligible (not significant in EIA terms)  | None  |
| Pedestrian Delay                       |  | Negligible   | Negligible / Low        | Negligible (not significant in EIA terms)  | None                | Negligible (not significant in EIA terms)  | None  |
| Pedestrian Amenity                     |  | Negligible (moderate on Station Road East Tilbury, during gas compound works only) | Negligible / Low        | Negligible (minor adverse on Station Road East Tilbury) (not significant in EIA terms) | None                | Negligible (minor adverse on Station Road East Tilbury) (not significant in EIA terms) | None  |
| Accidents and Road Safety              |  | Negligible   | Negligible / Low        | Negligible (not significant in EIA terms)  | None                | Negligible (not significant in EIA terms)  | None  |
| <b>Chapter 11: Noise and Vibration</b> |  |  |                         |  |                     |  |   |
| <b>Construction</b>                    |  |  |                         |  |                     |  |   |
| Noise from construction activity       | Application of Best Practicable Means; noise management measures detailed within the CoCP; and carrying out the majority of construction activities between the hours of 08:00-18:00 Monday to Friday and Saturday 08:00-13:00.  | Negligible   | Medium                  | Negligible to minor adverse (not significant in EIA terms)                             | None                | Negligible to minor adverse (not significant in EIA terms)                             | None  |
| Construction traffic noise             | n/a  | Minor  | Medium                  | Minor adverse (not significant in EIA terms)   | None                | Minor adverse (not significant in EIA terms)   | None  |
| <b>Operation and maintenance</b>       |  |  |                         |  |                     |  |   |
| Operation of the proposed development  | Noise mitigation measures to be incorporated into the detailed design, typical examples of which include enclosures surrounding the gas engines; high specification exhaust silencers; acoustically lagged external exhaust ductwork; enhanced air inlet/outlet silencers; and low noise air conditioning units. | Minor to moderate  | Medium                  | Minor to moderate adverse (determined not be significant in EIA terms)                 | None                | Minor to moderate adverse (determined not be significant in EIA terms)                 | Noise monitoring following commissioning to ensure compliance with the levels reported in this ES |
| <b>Decommissioning</b>                 |  |  |                         |  |                     |  |   |
| Noise from decommissioning activity    | Measures adopted would remain similar to the construction phase  | Negligible   | Medium                  | Negligible to minor adverse (not significant in EIA terms)                             | None                | Negligible to minor adverse (not significant in EIA terms)                             | None  |
| <b>Chapter 12: Air Quality</b>         |  |  |                         |  |                     |  |   |

| Description of impact   | Measures adopted as part of the project   | Magnitude of impact  | Sensitivity of receptor  | Significance of effect                          | Additional measures   | Residual effect                                 | Proposed monitoring   |
|---|---|--|--|---|---|---|---|
| <b>Construction</b>   |   |  |  |   |   |   |   |
| Increase in suspended particulate matter concentrations and deposited dust.                             | Best practice measures for a medium risk site as recommended in the IAQM dust guidance. The measures are listed in Table 2.20 in Volume 3 Chapter 12. | Large for construction, earthworks and trackout  | All low, medium and high sensitivity receptors within 350 m of the site boundary were considered. The sensitivity of the area was low or medium. | Negligible (not significant in EIA terms)       | None  | Negligible (not significant in EIA terms)       | Listed in Table 2.20 in Volume 3 Chapter 12, and includes visual checks of dust, monitoring of dust complaints and potentially quantitative monitoring of dust. |
| Increase in traffic-related emissions   | None  | Negligible   | Specific to each receptor  | Negligible (not significant in EIA terms)       | None  | Negligible (not significant in EIA terms)       | None  |
| <b>Operation and maintenance</b>  |   |  |  |   |   |   |   |
| Increase in NO <sub>2</sub> concentrations  | None  | Negligible to moderate   | Specific to each receptor  | Minor adverse (not significant in EIA terms)    | None  | Minor adverse (not significant in EIA terms)    | As required by Environmental Permit. No additional monitoring proposed.   |
| <b>Decommissioning</b>  |   |  |  |   |   |   |   |
| If plant is deconstructed - Increase in suspended particulate matter concentrations and deposited dust. | Assumed to be the same as for the construction phase  | Large for construction, earthworks and trackout (assumed to be the same as for the construction phase) | All low, medium and high sensitivity receptors within 350 m of the site boundary were considered.  | Negligible (not significant in EIA terms)       | None  | Negligible (not significant in EIA terms)       | None  |
| If operation of plant is ongoing - Increase in NO <sub>2</sub> concentrations                           | None  | Negligible to moderate   | Specific to each receptor  | Minor adverse (not significant in EIA terms)    | None  | Minor adverse (not significant in EIA terms)    | As required by Environmental Permit. No additional monitoring proposed.   |
| <b>Chapter 13: Human Health</b>   |   |  |  |   |   |   |   |
| <b>Construction</b>   |   |  |  |   |   |   |   |
| Human health effects from changes to air quality  | As per Chapter 12: Air Quality  | Negligible   | High   | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality                              | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality  |
| Human health effects from changes in noise exposure   | As per Chapter 11: Noise and Vibration  | Negligible   | High   | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration                      | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration  |
| Human health effects from changes to transport nature and flow rate                                     | As per Chapter 10: Traffic and Transport  | Negligible   | High   | Minor adverse (not significant in EIA terms)    | As per Chapter 10: Traffic and Transport                    | Minor adverse (not significant in EIA terms)    | As per Chapter 10: Traffic and Transport  |
| Human health effects from changes from income and employment generation                                 | As per Chapter 8: Land Use, Agriculture and Socio-Economics   | Negligible   | High   | Minor beneficial (not significant in EIA terms) | As per Chapter 8: Land Use, Agriculture and Socio-Economics | Minor beneficial (not significant in EIA terms) | As per Chapter 8: Land Use, Agriculture and Socio-Economics   |

| Description of impact   | Measures adopted as part of the project   | Magnitude of impact                                      | Sensitivity of receptor | Significance of effect                          | Additional measures  | Residual effect                                 | Proposed monitoring  |
|---|---|--|-------------------------|---|--|---|--|
| Human health effects from changes in access to and use of open space for recreation and physical activity | As per Chapter 8: Land Use, Agriculture and Socio-Economics                                   | Negligible   | High                    | Minor adverse (not significant in EIA terms)    | As per Chapter 8: Land Use, Agriculture and Socio-Economics  | Minor adverse (not significant in EIA terms)    | As per Chapter 8: Land Use, Agriculture and Socio-Economics  |
| <b>Operation and maintenance</b>  |   |  |                         |   |  |   |  |
| Human health effects from changes to air quality  | As per Chapter 12: Air Quality  | Negligible   | High                    | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality   | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality   |
| Human health effects from changes in noise exposure   | As per Chapter 11: Noise and Vibration  | Negligible   | High                    | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration   | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration   |
| <b>Decommissioning</b>  |   |  |                         |   |  |   |  |
| Human health effects from changes to air quality  | As per Chapter 12: Air Quality  | Negligible   | High                    | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality   | Minor adverse (not significant in EIA terms)    | As per Chapter 12: Air Quality   |
| Human health effects from changes in noise exposure   | As per Chapter 11: Noise and Vibration  | Negligible   | High                    | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration   | Minor adverse (not significant in EIA terms)    | As per Chapter 11: Noise and Vibration   |
| Human health effects from changes from income and employment generation                                   | As per Chapter 8: Land Use, Agriculture and Socio-Economics                                   | Negligible   | High                    | Minor beneficial (not significant in EIA terms) | As per Chapter 8: Land Use, Agriculture and Socio-Economics  | Minor beneficial (not significant in EIA terms) | As per Chapter 8: Land Use, Agriculture and Socio-Economics  |
| <b>Chapter 14: Climate Change</b>   |   |  |                         |   |  |   |  |
| <b>Construction</b>   |   |  |                         |   |  |   |  |
| Direct and indirect emission of greenhouse gases  | Measures in CoCP to reduce emissions from construction plant and embodied carbon in materials | Negligible   | High                    | Negligible (not significant in EIA terms)       | Good practice goals to seek a lean design and minimise embodied carbon                                       | Negligible (not significant in EIA terms)       | None   |
| <b>Operation and maintenance</b>  |   |  |                         |   |  |   |  |
| Direct and indirect emission of greenhouse gases  | CCR land Exhaust gas energy recovery system   | -13 MtCO <sub>2</sub> e to -17 MtCO <sub>2</sub> e (net) | High                    | Beneficial (significant in EIA terms)           | Possible future use of CCS or hydrogen/ ammonia supply   | Beneficial (significant in EIA terms)           | Required by GHG Emissions Permit or equivalent to be determined following Brexit transition period |
| <b>Decommissioning</b>  |   |  |                         |   |  |   |  |
| Direct and indirect emission of greenhouse gases if operation continues                                   | n/a   | Up to 1.2 MtCO <sub>2</sub> e/annum                      | High                    | Adverse (significant in EIA terms)              | GHG emission abatement would be required for compatibility with legislated target for national GHG emissions | Negligible (not significant in EIA terms)       | As required by regulatory regime at the time   |



| Description of impact  | Measures adopted as part of the project  | Magnitude of impact | Sensitivity of receptor | Significance of effect                       | Additional measures   | Residual effect                              | Proposed monitoring |
|--|--|---------------------|-------------------------|--|---|--|---------------------|
| Climate change risks if operation continues  | n/a  | Low                 | Low                     | Negligible (not significant in EIA terms)    | Consideration to higher average and peak temperatures is given when sizing the cooling systems for normal operation | Negligible (not significant in EIA terms)    | None                |
| <b>Chapter 15: Hydrology and Flood Risk</b>  |  |                     |                         |  |   |  |                     |
| <b>Construction</b>  |  |                     |                         |  |   |  |                     |
| The construction of permanent assets may lead to increased flood risk                    | Construction measures, surface water drainage scheme, best practice measures (see Table 2.6 in Volume 3 Chapter 15)          | Negligible          | Low                     | Negligible (not significant in EIA terms)    | None  | Negligible (not significant in EIA terms)    | None                |
| Temporary construction may lead to increased flood risk                                  | Construction measures, surface water drainage scheme, best practice measures (see Table 2.6 in Volume 3 Chapter 15)          | Negligible          | Low                     | Negligible (not significant in EIA terms)    | None  | Negligible (not significant in EIA terms)    | None                |
| Construction may cause risk of leaks and spills to surface watercourses                  | Construction measures (see Table 2.6 in Volume 3 Chapter 15).  | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None  | Minor adverse (not significant in EIA terms) | None                |
| The impacts of trenchless construction techniques may affect major surface watercourses  | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15). | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None  | Minor adverse (not significant in EIA terms) | None                |
| The impacts of open cut, temporary bridging and culverts may affect surface watercourses | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15)  | Negligible          | High                    | Minor adverse (not significant in EIA terms) | None  | Minor adverse (not significant in EIA terms) | None                |
| The construction of permanent assets may affect field drainage and irrigation            | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15)  | Minor               | High                    | Minor adverse (not significant in EIA terms) | None  | Minor adverse (not significant in EIA terms) | None                |
| Temporary construction may affect field drainage and irrigation                          | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15). | Minor               | Medium                  | Minor adverse (not significant in EIA terms) | None  | Minor adverse (not significant in EIA terms) | None                |

| Description of impact   | Measures adopted as part of the project  | Magnitude of impact | Sensitivity of receptor | Significance of effect  | Additional measures | Residual effect   | Proposed monitoring  |
|---|--|---------------------|-------------------------|---|---------------------|---|--|
| <b>Operation and maintenance</b>  |  |                     |                         |   |                     |   |  |
| The impacts of operation and maintenance may lead to increased flood risk.  | Operational measures to reduce flood risk (see Table 2.6 in Volume 3 Chapter 15)   | Negligible          | Low to Medium           | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| The impact of flexible generation plant operation and maintenance may affect main or ordinary surface watercourses  | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15)  | Negligible          | High                    | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| The impact of pipeline maintenance may affect main or ordinary surface watercourses                                 | Surface water drainage scheme, pollution prevention measures, best practice measures (see Table 2.6 in Volume 3 Chapter 15)  | Negligible          | High                    | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| <b>Decommissioning</b>  |  |                     |                         |   |                     |   |  |
| The impacts of decommissioning may affect temporary flood risk.   | Decommissioning measures (see Table 2.6 in Volume 3 Chapter 15)  | Minor               | Low                     | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| The impacts of decommissioning may affect main surface watercourses.  | Decommissioning measures (see Table 2.6 in Volume 3 Chapter 15)  | Negligible          | High                    | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| The impacts of decommissioning may affect ordinary watercourses.  | Decommissioning measures (see Table 2.6 in Volume 3 Chapter 15)  | Negligible          | High                    | Minor adverse (not significant in EIA terms)                  | None                | Minor adverse (not significant in EIA terms)                  | None   |
| <b>Chapter 16: Geology, Hydrogeology and Ground Conditions</b>  |  |                     |                         |   |                     |   |  |
| <b>Construction</b>   |  |                     |                         |   |                     |   |  |
| Potential for earthworks to mobilise unexpected ground contamination or create preferential pathways to groundwater | Adherence to good environmental practices. Implementation of a discovery strategy which will form part of the remediation strategy (see Table 2.6 in Volume 3 Chapter 16). Piling to be undertaken in accordance with recommendations of a Piling Risk Assessment. | Minor               | Low to very high        | Negligible to moderate adverse (not significant in EIA terms) | None                | Negligible to moderate adverse (not significant in EIA terms) | Groundwater and ground gas monitoring (during further investigation prior to construction) |

| Description of impact   | Measures adopted as part of the project  | Magnitude of impact                            | Sensitivity of receptor | Significance of effect   | Additional measures | Residual effect   | Proposed monitoring |
|---|--|--|-------------------------|--|---------------------|---|---------------------|
| Potential for construction activity to cause soil or groundwater contamination  | Adherence to good environmental practices (see Table 2.6 in Volume 3 Chapter 16)   | Negligible                                     | Low to very high        | Negligible to minor adverse (not significant in EIA terms)                           | None                | Negligible to minor adverse (not significant in EIA terms)          | None                |
| <b>Operation and maintenance</b>  |  |  |                         |  |                     |   |                     |
| Pollution of soils and/or Controlled Waters   | The development will be operated in accordance with an Environmental Permit and will have a managed surface drainage system with oil interceptors, bunding and spill kits in case of accidents | Negligible                                     | Low to very high        | Negligible to minor adverse (not significant in EIA terms)                           | None                | Negligible to minor adverse (not significant in EIA terms)          | None                |
| <b>Decommissioning</b>  |  |  |                         |  |                     |   |                     |
| Impacts of decommission may cause contamination of Secondary Aquifers, the Principal Aquifer and drainage ditches   | Adherence to good environmental practices (see Table 2.6 in Volume 3 Chapter 16)   | Negligible                                     | Low to very high        | Negligible to minor adverse (not significant in EIA terms)                           | None                | Negligible to minor adverse (not significant in EIA terms)          | None                |
| <b>Chapter 17: Marine Environment</b>   |  |  |                         |  |                     |   |                     |
| <b>Construction</b>   |  |  |                         |  |                     |   |                     |
| Changes in flow conditions through the construction, presence and operation of the causeway may have effects on seabed sediments and maritime infrastructure              | n/a  | Minor  | Negligible              | Negligible (not significant in EIA terms)  | None                | Negligible (not significant in EIA terms)                           | None                |
| Changes in sediment transport processes through the construction, presence and operation of the causeway may have effects on seabed sediments and maritime infrastructure | n/a  | Negligible (Gravesend Reach); Locally moderate | Low                     | Negligible (Gravesend Reach) or locally minor adverse (not significant in EIA terms) | None                | Negligible and locally minor adverse (not significant in EIA terms) | None                |
| Temporary habitat loss/disturbance during construction activities may have effects on marine ecology receptors  | n/a  | Minor  | Low                     | Minor adverse (not significant in EIA terms)   | None                | Minor adverse (not significant in EIA terms)                        | None                |

| Description of impact   | Measures adopted as part of the project   | Magnitude of impact | Sensitivity of receptor | Significance of effect                               | Additional measures   | Residual effect   | Proposed monitoring   |
|---|---|---------------------|-------------------------|--|---|---|---|
| Increases in SSC and associated deposition during construction activities (including dredging) may have effects on water quality and marine ecology receptors | n/a   | Negligible          | Low                     | Negligible (not significant in EIA terms)            | None  | Negligible (not significant in EIA terms)   | None  |
| Release of sediment bound contaminants during dredging operations may have effects on water quality and marine ecology receptors                              | n/a   | Minor               | Low                     | Minor adverse (not significant in EIA terms)         | None  | Minor adverse (not significant in EIA terms)  | None  |
| Underwater noise during construction (e.g. dredging activities) may have effects on marine ecology receptors  | n/a   | Negligible          | Low                     | Negligible (not significant in EIA terms)            | None  | Negligible (not significant in EIA terms)   | None  |
| Accidental release of pollution (e.g. due to spillage) may have effects on water quality and marine ecology receptors   | Measures relating to pollution prevention (see Table 2.10 in Volume 3 Chapter 17) | Minor               | Low                     | Minor adverse (not significant in EIA terms)         | None  | Minor adverse (not significant in EIA terms)  | None  |
| <b>Operation and maintenance</b>  |   |                     |                         |  |   |   |   |
| Long term/permanent habitat loss due to presence of causeway  | n/a   | Minor               | High                    | Minor to moderate adverse (significant in EIA terms) | Measures to encourage expansion of saltmarsh habitat across the intertidal mudflat to offset localised loss of intertidal habitats (see Saltmarsh Enhancement and Maintenance Plan; application document A8.10) | Minor adverse (short term) (not significant in EIA terms).<br>Neutral to minor beneficial (long term) (not significant in EIA terms). | Post construction monitoring of saltmarsh habitats (see Saltmarsh Enhancement and Maintenance Plan; application document A8.10) |
| Changes in flow conditions through the presence of the causeway   | n/a   | Negligible          | Low                     | Negligible (not significant in EIA terms)            | None  | Negligible (not significant in EIA terms)   | None  |
| Changes in sediment transport processes through the presence of the causeway  | n/a   | Negligible          | Negligible              | Negligible (not significant in EIA terms)            | None  | Negligible (not significant in EIA terms)   | None  |