

The Great Grid Upgrade

Sea Link

Sea Link

Volume 7: Other Documents

Document 7.5.6.1 Outline Air Quality Management Plan - Suffolk

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Contents

| | |
|---|------------|
| Executive Summary | 1 |
| 1. Introduction | 2 |
| 1.1 Overview | 2 |
| 1.2 The Proposed Project | 3 |
| 1.3 Legislation and Policy | 4 |
| 2. Emission Sources | 5 |
| 2.2 Fugitive Dust | 5 |
| 2.3 Vehicle Emissions | 5 |
| 2.4 NRMM Emissions | 5 |
| 3. Meteorological Conditions | 7 |
| 3.1 Overview | 7 |
| 4. Sensitive Receptors | 8 |
| 4.1 Human receptors | 8 |
| 4.2 Ecological receptors | 8 |
| 5. Mitigation Measures | 10 |
| 5.1 Overview | 10 |
| 5.2 Fugitive Dust | 10 |
| 5.3 Vehicle Emissions | 13 |
| 5.4 NRMM Emissions | 14 |
| 6. Proposed Air Quality Monitoring and Reporting | 15 |
| 6.1 Overview | 15 |
| 6.2 Visual Monitoring | 15 |
| 6.3 Air Quality Monitoring | 15 |
| 6.4 Site Logs | 17 |
| 7. Summary | 19 |
| References | 20 |
| Appendix A :Figures | A.1 |

| | |
|---|------------|
| Appendix B :Visual Inspection Site Log | B.1 |
|---|------------|

| | |
|-----------------------------------|------------|
| Appendix C :Complaints Log | C.1 |
|-----------------------------------|------------|

| | |
|--------------------------|----------|
| Executive Summary | 1 |
|--------------------------|----------|

| | |
|------------------------|----------|
| 1. Introduction | 2 |
|------------------------|----------|

| | |
|--------------|---|
| 1.1 Overview | 2 |
|--------------|---|

| | |
|--------------------------|---|
| 1.2 The Proposed Project | 3 |
|--------------------------|---|

| | |
|----------------------------|---|
| 1.3 Legislation and Policy | 4 |
|----------------------------|---|

| | |
|----------------------------|----------|
| 2. Emission Sources | 5 |
|----------------------------|----------|

| | |
|-------------------|---|
| 2.1 Fugitive Dust | 5 |
|-------------------|---|

| | |
|-----------------------|---|
| 2.2 Vehicle Emissions | 5 |
|-----------------------|---|

| | |
|--------------------|---|
| 2.3 NRMM Emissions | 5 |
|--------------------|---|

| | |
|-------------------------------------|----------|
| 3. Meteorological Conditions | 7 |
|-------------------------------------|----------|

| | |
|--------------|---|
| 3.1 Overview | 7 |
|--------------|---|

| | |
|-------------------------------|----------|
| 4. Sensitive Receptors | 8 |
|-------------------------------|----------|

| | |
|---------------------|---|
| 4.1 Human receptors | 8 |
|---------------------|---|

| | |
|--------------------------|---|
| 4.2 Ecological receptors | 8 |
|--------------------------|---|

| | |
|-------------------------------|-----------|
| 5. Mitigation Measures | 10 |
|-------------------------------|-----------|

| | |
|--------------|----|
| 5.1 Overview | 10 |
|--------------|----|

| | |
|-------------------|----|
| 5.2 Fugitive Dust | 10 |
|-------------------|----|

| | |
|-----------------------|----|
| 5.3 Vehicle Emissions | 13 |
|-----------------------|----|

| | |
|--------------------|----|
| 5.4 NRMM Emissions | 14 |
|--------------------|----|

| | |
|---|-----------|
| 6. Proposed Air Quality Monitoring and Reporting | 16 |
|---|-----------|

| | |
|--------------|----|
| 6.1 Overview | 16 |
|--------------|----|

| | |
|-----------------------|----|
| 6.2 Visual Monitoring | 16 |
|-----------------------|----|

| | |
|-------------------------------------|----|
| 6.3 Monitoring of Weather Forecasts | 16 |
|-------------------------------------|----|

| | |
|----------------------------|----|
| 6.4 Air Quality Monitoring | 17 |
|----------------------------|----|

| | |
|---------------|----|
| 6.5 Site Logs | 18 |
|---------------|----|

| | |
|-------------------|-----------|
| 7. Summary | 20 |
|-------------------|-----------|

References 21

Appendix A :Figures **A.1**

Appendix B :Visual Inspection Site Log **B.1**

Appendix C :Complaints Log **C.1**

Table of Tables

| | |
|---|----|
| Table 5.1 Construction dust mitigation measures | 10 |
| Table 6.1 Proposed monitoring locations | 18 |

Table of Plates

| | |
|--|---|
| Plate 3.1 Wind Rose from Wattisham Airfield (2023) | 7 |
|--|---|

Version History

| Date | Issue | Status | Description / Changes |
|-------------------|--------------|---------------|--|
| March 2025 | A | Final | For DCO submission |
| September 2025 | B | Final | Update to reflect S89(3) Procedural Decision from the Examining Authority |
| January 2026 | C | Final | Update to respond to points raised in ESC's Local Impact Report |
| <u>March 2026</u> | <u>D</u> | <u>Final</u> | <u>Update following updates to measures in the Register of Environmental Actions and Commitments</u> |

Executive Summary

- Ex1.1.1 The purpose of this Outline Air Quality Management Plan (oAQMP), which forms **Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk**, is to ensure emissions to air are mitigated effectively for the duration of the construction phase of the Suffolk Onshore Scheme. It also outlines the air quality monitoring that is proposed, which will be in place for the construction phase and will be used to ensure the proposed mitigation measures are working effectively.
- Ex1.1.2 This oAQMP has been informed by feedback received from stakeholders as part of the pre-application consultation. It should be noted that as this is an outline document, certain details will remain to be developed as the Proposed Project progresses into detailed design. The full details of all measures may not be available until after consent for the Proposed Project has been determined and these will be provided within the AQMP as necessary. However, the AQMP will need to be in accordance with this oAQMP. The production of an AQMP is secured via Requirement 6 of the DCO (**Application Document 3.1 draft Development Consent Order**).
- Ex1.1.3 It should also be noted that an equivalent oAQMP has been produced for the Kent Onshore Scheme (**Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent**).

1. Introduction

1.1 Overview

- 1.1.1 This oAQMP has been prepared to support the application for development consent for the Sea Link Project (referred to hereafter as the 'Proposed Project'). The purpose of the oAQMP is to ensure emissions to air are mitigated effectively for the duration of the construction phase of the Suffolk Onshore Scheme. It also outlines the air quality monitoring that is proposed, which will be in place for the construction phase and will be used to ensure the proposed mitigation measures are working effectively.
- 1.1.2 The oAQMP has been prepared with reference to the Institute of Air Quality Management (IAQM) Guidance on the Assessment of Dust from Demolition and Construction V2.2 2024 (Institute of Air Quality Management, 2024) and the IAQM Guidance on Monitoring in the Vicinity of Demolition and Construction Sites V1.1 2018 (Institute of Air Quality Management, 2018), and following consultation with East Suffolk Council (ESC) and Suffolk County Council (SCC).
- 1.1.3 This oAQMP should be read in conjunction with:
- **Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project;**
 - **Application Document 6.3.1.4.B Appendix 1.4.B Construction Plant Schedule;**
 - **Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality;** and
 - **Application Document 6.3.2.8.A Appendix 2.8.A Construction Dust Assessment and Methodology.**
- 1.1.4 It is supported by the following figures and plans:
- **Figure 1 (of this document) Sensitive Receptors and Proposed Monitoring Locations – Suffolk;**
 - **Figure titled Heavy Goods Vehicle (HGV) Routing Plan in Application Document 6.4.2.7 Traffic and Transport**
 - **Application Document 2.14.1 General Arrangement Plans – Suffolk;**
 - **Application Document 6.4.2.8 Air Quality;** and
- 1.1.5 It is supported by the following application documents:
- **Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan (CEMP);**
 - ~~Application Document 7.5.3.1 CEMP Appendix A Outline Code of Construction Practice;~~
 - ~~Application Document 7.5.3.2 CEMP Appendix B9.84 Register of Environmental Actions and Commitments (REAC);~~ and
 - **Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan - Suffolk.**

1.2 The Proposed Project

1.2.1 The Proposed Project is a proposal by National Grid Electricity Transmission plc (hereafter referred to as National Grid) to reinforce the transmission network in the South East of England and East Anglia. The Proposed Project is required to accommodate additional power flows generated from renewable and low carbon generation, as well as accommodating additional new interconnection with mainland Europe. This would be achieved by reinforcing the network with a High Voltage Direct Current (HVDC) Link between the proposed Friston substation in the Sizewell area of Suffolk and the existing Richborough to Canterbury 400kV overhead line close to Richborough in Kent. This reinforcement would be approximately 138 km long, comprising primarily of a HVDC offshore transmission link, with both HVDC and High Voltage Alternating Current (HVAC) onshore elements.

1.2.2 The Proposed Project would comprise the following elements:

The Suffolk Onshore Scheme

1.2.3 The element of the Proposed Project covered by this oAQMP is the Suffolk Onshore Scheme, which lies within the administrative area of ESC, which is a unitary authority within SCC.

1.2.4 The Suffolk Onshore Scheme would comprise:

- A connection from the existing transmission network via Friston Substation, including the substation itself. Friston Substation already has development consent as part of other third-party projects. If Friston Substation has already been constructed under another consent, only a connection into the substation would be constructed as part of the Proposed Project.
- A High Voltage Alternating Current (HVAC) underground cable of approximately 1.9 km in length between the proposed Friston Substation and a proposed converter station.
- A 2 GW High Voltage Direct Current (HVDC) converter station (including permanent access from the B1121 and a new bridge over the River Fromus) up to 26 m high plus external equipment (such as lightning protection, safety rails for maintenance works, ventilation equipment, aerials, similar small scale operational plant, or other roof treatment) near Saxmundham.
- A HVDC underground cable connection of approximately 10 km in length between the proposed converter station near Saxmundham, and a Transition Joint Bay (TJB) approximately 900 m inshore from a landfall point (below) where the cable transitions from onshore to offshore technology.
- A landfall on the Suffolk coast (between Aldeburgh and Thorpeness).

The Offshore Scheme:

- Approximately 122 km of subsea HVDC cable, running between the Suffolk landfall location (between Aldeburgh and Thorpeness), and the Kent landfall location at Pegwell Bay.

The Kent Onshore Scheme:

- A landfall point on the Kent coast at Pegwell Bay.
- A TJB approximately 800 m inshore to transition from offshore HVDC cable to onshore HVDC cable, before continuing underground for approximately 1.7 km to a new converter station (below).
- A 2 GW HVDC converter station (including a new permanent access off the A256), up to 28 m high plus external equipment such as lightning protection, safety rails for maintenance works, ventilation equipment, aerials, and similar small scale operational plant near Minster. A new substation would be located immediately adjacent.
- Removal of approximately 2.2 km of existing HVAC overhead line, and installation of two sections of new HVAC overhead line, together totalling approximately 3.5 km, each connecting from the substation near Minster and the existing Richborough to Canterbury overhead line.

1.2.5 The Proposed Project also includes modifications to sections of existing overhead lines in Suffolk (only if Friston Substation is not built pursuant to another consent) and Kent, diversions of third-party assets, and land drainage from the construction and operational footprint. It also includes opportunities for environmental mitigation and compensation. The construction phase will involve various temporary construction activities including overhead line diversions, use of temporary towers or masts, working areas for construction equipment and machinery, site offices, parking spaces, storage, accesses, bellmouths, and haul roads, as well as watercourse crossings and the diversion of public rights of way (PROWs) and other ancillary operations.

1.2.6 Further details regarding the Proposed Project, including the construction programme and the activities proposed during the construction phase are contained within **Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project**.

1.3 Legislation and Policy

1.3.1 All legislation and policy requirements relevant to this oAQMP are outlined in Section 8.2 in **Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality**.

2. Emission Sources

- 2.1.1 The construction phase of the Proposed Project has the potential to result in temporary air quality impacts due to construction vehicle, dust, and Non-Road Mobile Machinery (NRMM) emissions. The main sources of the emissions during the construction phase are summarised in the following sections and detailed in **Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality** and **Application Document 6.3.2.8.A Appendix 2.8.A Construction Dust Assessment and Methodology**.

2.22.1 Fugitive Dust

- 2.2.22.1.1 The undertaking of activities such as excavation, ground works, cutting, construction and storage of materials has the potential to result in fugitive dust emissions throughout the construction phase. Vehicle movements both on-site and on the local road network also have the potential to result in the re-suspension of dust from highway surfaces.
- 2.2.22.1.2 Construction activities could take place anywhere within the Order Limits, however, the main dust sources are likely to be the construction compounds and haul roads, as well as the re-suspension of dust from vehicles exiting these locations.

2.32.2 Vehicle Emissions

- 2.3.32.2.1 The primary construction vehicle routes to/from the Proposed Project would be via the A12 to the respective access points including the B1121 Main Road for access S-BM09 and the A1094 and B1069 Snape Road for accesses S-BM03 and S-BM04.
- 2.3.32.2.2 Other accesses include S-BM01 and S-BM02 (B1122 Leiston Road), S-BM11 (B1121 Saxmundham Road), S-BM10 (A1094 Aldeburgh Road), S-BM12 (B1119 Church Street) and S-BM13 (Thorpe Road) although these would experience less construction vehicle activity than the primary routes outlined above. No construction vehicles would be expected to use Grove Road. The HGV routes and bellmouth locations are presented in the Figure titled **Heavy Goods Vehicle (HGV) Routing Plan in Application Document 6.4.2.7 Traffic and Transport**.
- 2.3.32.2.3 The highest Heavy Duty Vehicle (HDV) flows are anticipated to be on the A12, on the B1121 Main Road (east of the A12) and on the A1094 (between A12 and B1069 Snape Road).

2.42.3 NRMM Emissions

- 2.4.42.3.1 Temporary construction compounds are required throughout the route to facilitate construction activities. These compounds store all materials necessary for the works, including plant, waste, cable ducts, cable drums and accessories. In addition to storage, compounds also provide a location for site offices, parking and welfare facilities for construction operatives.
- 2.4.42.3.2 The indicative location of the construction compounds for the Suffolk Onshore Scheme are illustrated on **Application Document 2.14.1 General Arrangement Plans - Suffolk**. In Suffolk, construction compounds are proposed adjacent to the B1121

bellmouth (construction compound S01), proposed Saxmundham Converter Station site (construction compounds S02, S03, S04 and S05), proposed Friston Substation site (construction compounds S06 and S07), along the proposed HVDC cable route (construction compounds S08 and S09) and proposed landfall site (construction compound S10). It should be noted that not all of the construction compounds S02, S03, S04 and S05 would be required for the Proposed Project's Saxmundham Converter Station site, but either S02, or S03, or a combination of both S04 and S05 would be used.

[2.4.32.3.3](#) It is understood that the Friston Substation and Saxmundham Converter Station site will be connected to the existing Distribution Network Operator system to provide an electricity supply to the sites, both temporarily during construction and permanently for operation. However, there may be a requirement for generators at the construction compounds and other NRMM will be operational throughout the construction phase as indicated in **Application document 6.3.1.4.B Appendix 1.4.B Construction Plant Schedule**.

3. Meteorological Conditions

3.1 Overview

3.1.1 Meteorological conditions (particularly wind speed, direction and rainfall) can significantly affect the dispersion of emissions from a construction site. Plate 3.1 presents a wind rose from Wattisham Airfield, which is just over 36 km southwest of the Suffolk Onshore Scheme. The wind rose indicates that the prevailing wind is from the southwest.

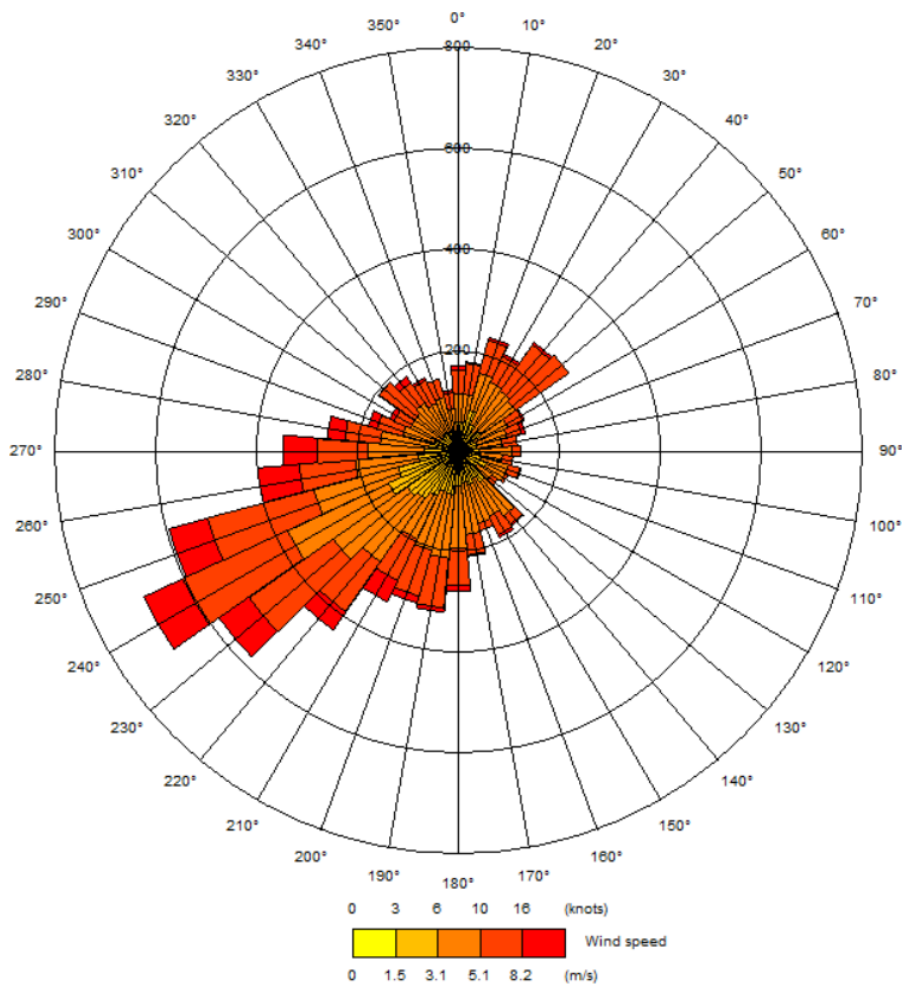


Plate 3.1 Wind Rose from Wattisham Airfield (2023)

4. Sensitive Receptors

4.1 Human receptors

4.1.1 There are a number of human receptors surrounding the Proposed Project. The town of Saxmundham is to the northwestern part of the Proposed Project. As well as residential properties, there are three schools in Saxmundham; Kelsale Church of England Primary School, Saxmundham Primary School and Saxmundham Free School. Kelsale Church of England Primary School is approximately 1.4 km northwest of the Order Limits. Saxmundham Primary School is approximately 1.1 km northwest of the Order Limits, and 350 m east of the A12, which is one of the proposed primary access routes. Saxmundham Free School is approximately 600 m northwest of the Order Limits and approximately 300 m east of the A12. Other notable communities in close proximity to the Order Limits or along proposed construction traffic routes include those in Knodishall, Aldeburgh, Aldringham, Friston, Sternfield and Benhall.

4.1.2 A small number of human receptors within 200 m of the proposed construction compounds, Friston Substation and Saxmundham Converter Station have been identified which include:

- Residential properties along Church Hill and Main Road, with the nearest property to the B1121 compound being 90 m southwest (Four Feathers, Main Road).
- There are no human receptors within 200 m of the Saxmundham Converter Station LoD, however, there is a residential property located 160 m to the west of the Saxmundham Converter Station construction compounds (Wood Farm) and 150 m to the north (Trust Farm).
- There are residential properties along Warren Hill Lane, with the closest being 145 m southwest of the landfall site construction compound (Kings Legend, Warren Hill Lane).

4.1.3 Details of human receptors in the vicinity of the Proposed Project are presented in **Figure 1 Sensitive Receptors and Proposed Monitoring Locations – Suffolk**.

4.2 Ecological receptors

4.2.1 There are a number of ecological receptors within the vicinity of the Proposed Project. These include Alde-Ore Estuary RAMSAR, Outer Thames Estuary Special Protection Area (SPA), Alde-Ore Estuary SPA, Sandlings SPA, Leiston – Aldeburgh Site of Special Scientific Interest (SSSI), Alde-Ore Estuary SSSI, Alde-Ore and Butley Estuaries Special Area of Conservation (SAC), The Haven Local Nature Reserve (LNR), Grove Wood Ancient Woodland (AW) and Wildlife Site, Benhall Green Meadows Wildlife Site, Great Wood AW and Wildlife Site, Knodishall Common Wildlife Site, Aldeburgh Golf Course Wildlife Site and Aldringham to Aldeburgh Disused Railway Line Wildlife Site.

4.2.2 A small number of ecological receptors within 200 m of the proposed construction compounds, Friston Substation and Saxmundham Converter Station have been identified which include:

- Benhall Green Meadows Wildlife Site is just under 200 m south of the B1121 compound; and
- Sandlings SPA and Leiston – Aldeburgh SSSI are 25 m to the north of the landfall site construction compound and Aldringham to Aldeburgh Disused Railway Line Wildlife Site is just less than 10 m to the east of the compound.

4.2.3 Details of ecological receptors in the vicinity of the Proposed Project and the assessment of the effects on the receptors are presented in **Figure 1 Sensitive Receptors and Proposed Monitoring Locations – Suffolk**.

5. Mitigation Measures

5.1 Overview

5.1.1 Measures relevant to the control and management of air quality impacts during construction are outlined in the following sections. ~~All measures~~ Measures presented have been included within **Application Document 7.5.3.1 ~~CEMP Appendix A Outline Code of Onshore Construction Practice~~ Environmental Management Plan (CEMP) submitted at Deadline 5 and Application Document 9.84 (B) Register of Environmental Actions and Commitments (REAC) [REP4-234]** where relevant.

5.2 Fugitive Dust

5.2.1 Table 5.1 presents the proposed construction dust mitigation measures for the Proposed Project. These are based on the IAQM construction dust guidance (IAQM, 2024) and have been adapted for the Proposed Project based on the risk of dust effects, as detailed in **Application Document 6.3.2.8.A Appendix 2.8.A Construction Dust Assessment and Methodology**.

Table 5.1 Construction dust mitigation measures

| Mitigation Measure | CoCPREAC Measure Reference Number |
|---|-----------------------------------|
| <u>Communications</u> | |
| The name and contact details for the Proposed Project will be displayed at the entrance to all compounds. This will include an emergency number. | GG09 |
| <u>Dust Management</u> | |
| Develop and implement an AQMP, approved by the Local Authority. | AQ01 |
| <u>Site Management</u> | |
| Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken. | GG27 |
| Make the complaints log available to the local authority when asked. | GG27 |
| Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site, and the action taken to resolve the situation in the log book. | GG24 and GG27 |
| Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated to minimise dust and particulate matter emissions and to understand the | AQ04 |

Mitigation Measure**CoGP^{REAC} Measure
Reference Number**

interactions of the off-site transport/deliveries which might be using the same strategic road network routes.

Monitoring

Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the Local Authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with cleaning to be provided if necessary.

AQ02

Carry out regular site inspections to monitor compliance with the AQMP, record inspection results, and make an inspection log available to the local authority when asked.

AQ02

Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.

AQ02

Agree dust deposition, dust flux, or real-time PM₁₀ continuous monitoring locations with the Local Authority. Where possible, commence baseline monitoring at least three months before work commences on site or, if it a large site, before work on a phase commences.

AQ02

Preparing and maintaining the site

Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.

GG10

Erect solid screens or barriers around dusty activities or the site boundary so that are at least as high as any stockpiles on site.

AQ03

Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.

AQ03

Avoid site runoff of water or mud.

GG15

Keep site fencing, barriers and scaffolding clean using wet methods.

AQ03

Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site, cover as described below.

AQ03

Earthworks and stockpiled soil will be protected by covering, seeding or using water suppression where appropriate.

GG19

Operating vehicle/machinery and sustainable travel

Ensure all vehicles switch off engines when not in use and when it is safe to do so.

GG12

| Mitigation Measure | CoGPREAC Measure Reference Number |
|--|-----------------------------------|
| Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable. | AQ04 |
| Impose and signpost a maximum speed limit of 15mph on surfaced and 10 mph on unsurfaced haul roads and work areas (if long haul routes are required, these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the Local Authority, where appropriate). | AQ04 |
| Produce a Construction Traffic Management and Travel Plan to manage the sustainable delivery of goods and materials. | GG02 |
| Implement a Construction Traffic Management and Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing). | GG02 |
| <u>Operations</u> | |
| Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems. | AQ05 |
| Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate. | AQ05 |
| Use enclosed chutes and conveyors and covered skips. | AQ05 |
| Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate. | AQ05 |
| Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods. | GG28 |
| <u>Waste Management</u> | |
| Bonfires and the burning of waste material will be prohibited. | GG20 |
| <u>Earthworks</u> | |
| Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable. | GG19 |
| Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. | AQ06 |
| Only remove the cover in small areas during work and not all at once. | AQ06 |
| <u>Construction</u> | |
| Avoid scabbling (roughening of concrete surfaces) if possible. | AQ07 |

| Mitigation Measure | CoGPREAC Measure Reference Number |
|---|-----------------------------------|
| Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place. | AQ07 |
| Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. | AQ07 |
| For smaller supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust. | AQ07 |
| <u>Trackout</u> | |
| Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. | GG18 |
| Avoid dry sweeping of large areas. | GG18 |
| Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport. | AQ08 |
| Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable. | AQ08 |
| Record all inspections of haul routes and any subsequent action in a site log book. | AQ08 |
| Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned where possible. | AQ08 |
| Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable). | GG17 |
| Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits. | GG16 |
| Access gates to be located at least 10 m from receptors where possible. | GG11 |

5.3 Vehicle Emissions

5.3.1 Several control measures relating to vehicle emissions have been included in the [CEMP](#) (~~Application Document 7.5.3.1 CEMP Appendix A Outline Code of Onshore Construction Practice~~) [Environmental Management Plan \(CEMP\) submitted at Deadline 5](#) including;

- GG12 - Plant and vehicles will conform to relevant applicable standards for the vehicle type as follows:

- Euro 4 (NOx) for petrol cars, vans and minibuses;
- Euro 6 (NOx and PM) for diesel cars, vans and minibuses; and
- Euro VI (NOx and PM) for lorries, buses, coaches and Heavy Goods Vehicles (excluding specialist abnormal indivisible loads).

Vehicles will be correctly maintained and operated in accordance with manufacturer's recommendations and in a responsible manner. All plant and vehicles will be required to switch off their engines when not in use and when it is safe to do so. In addition, plant and vehicles will conform to relevant applicable standards for the vehicle type.

- AQ04 - Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable. Impose and signpost a maximum speed limit on unsurfaced haul roads and work areas. Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated to minimise dust and particulate matter emissions and to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes.

5.3.2 Further measures relating to construction traffic have been included in Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan -Suffolk. Measures include encouraging the construction staff to use sustainable transport and monitoring HGV movements and compliance with HGV routes.

5.4 NRMM Emissions

5.4.1 Several control measures relating to NRMM emissions have been included in the ~~CEMP~~ (Application Document 7.5.3.1 ~~CEMP Appendix A~~ Outline ~~Code of Onshore Construction Practice~~) Environmental Management Plan (CEMP) submitted at Deadline 5 including;

- AQ04 - Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable. Impose and signpost a maximum speed limit on unsurfaced haul roads and work areas. Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated to minimise dust and particulate matter emissions and to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes.
- AQ09 - Ensure all equipment complies with the appropriate ~~Non-Road Mobile Machinery NRMM~~ standards. Use ~~stage~~ Stage 4 NRMM as a minimum and ~~stage~~ Stage 5 where possible. The use of Stage 4 equipment will be notified to the Local Planning Authority (LPA) in advance. Additionally, where possible, use ~~alternative~~ renewable energy to power NRMM.
- AQ13 – Site logs will include a list of NRMM being used, recording whether each item is Stage 5 or Stage 4 and the reason for any approved Stage 4 use. This log will be made available to the LPA upon request.
- GG10 - Any activity carried out or equipment located within a construction compound that may produce a noticeable nuisance, including but not limited to dust, noise, vibration and lighting, will be located away from sensitive receptors such as residential properties (where practicable) or designated ecological sites. Where it is not practicable to avoid proximity to sensitive receptors, appropriate mitigation

measures will be implemented to minimise any potential nuisance, and stakeholders will be given advanced notice of the proposed work, justification for the work and details of any proposed mitigation.

6. Proposed Air Quality Monitoring and Reporting

6.1 Overview

6.1.1 In accordance with measure AQ02, the contractor will carry out air quality monitoring throughout the construction phase of the Proposed Project. This data will be available to the public and local authorities and help determine if further mitigation is required to reduce air quality impacts from the Proposed Project.

6.2 Visual Monitoring

6.2.1 As recommended in the IAQM Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (Institute of Air Quality Management, 2018), and as set out in measure AQ02, an inspection for visible dust emissions in the vicinity of the construction works should be conducted at least once on each working day by the contractor at the various working locations. This should involve the following:

- Visual monitoring of dust deposition onto surfaces, and dispersion on and off site. There are likely to be many surfaces on and around the works boundary where it will be obvious that dust is being generated at a level where it is leading to visible surface soiling such as on plant foliage, car bonnets and roofs, windowsills and street furniture. Consideration will need to be given to the periods of time over which dust can accumulate, and whether surfaces were likely to have been clean before construction started.
- Visually surveying the site for evidence of dust release. For example, observing the movement of vehicles, construction activities and stockpiles.

6.2.2 Should there be drier periods of weather or should activities with increased potential for dust release be undertaken, the frequency of visual assessments will be increased, particularly if the prevailing wind is in a direction towards sensitive receptors. Should an increase in dust be observed, further mitigation may be required, which could include modifying or delaying dusty site activities.

6.2.3 The results of the inspection will be listed in a site log (see Appendix B).

6.3 Monitoring of Weather Forecasts

6.3.1 ~~Weather~~In accordance with measure AQ12, weather forecasts will be checked on a daily basis. Should periods of particularly dry or windy weather be forecast, dust mitigation measures would be reviewed and where possible high-risk activities will be rescheduled to minimise air quality impacts on sensitive receptors.

6.4 Air Quality Monitoring

- 6.4.1 Construction dust comprises particulate matter and the main pollutants of concern in relation to construction vehicle and NRMM emissions are nitrogen oxides (NO_x) (which includes nitrogen dioxide (NO₂)) and particulate matter. There are a wide range of monitoring techniques available to measure air pollutants/dust, ranging from active (powered) samplers to simpler passive (unpowered) samplers. For the Suffolk Onshore Scheme, portable active sensors, such as Zephyrs, are recommended. Zephyrs are a gas sensor measuring NO₂ and particulates, amongst other pollutants and have been approved as compliant with the Environment Agency Monitoring Certification Scheme (MCERTs) Performance Standards as an Indicative Ambient Particulate Monitor. The analysers can be connected to mains power supply or to a solar panel. Data can be uploaded remotely or downloaded directly to a computer using USB or Bluetooth. They are compact devices which can be attached to street furniture.
- 6.4.2 It is also proposed to install a meteorological mast at one of the monitoring locations so that the source can be identified should there be a pollution episode during the construction phase. The meteorological station will be capable of recording wind speed, direction, humidity and rainfall.
- 6.4.3 The Air Quality Management Plan In accordance with measure AQ14, the AQMP will be reviewed and updated throughout the construction phase of the Proposed Project as necessary, based on monitoring results.
- 6.4.4 The LPA would be provided with access to real-time monitoring data, in accordance with measure AQ02.

Baseline monitoring

- 6.4.46.4.5 A In accordance with measure AQ02, a period of baseline monitoring will be undertaken for a minimum period of three months prior to any construction activity taking place, if possible. The data will be used to determine baseline conditions.

Trigger thresholds

- 6.4.56.4.6 Following review of the baseline data, trigger thresholds will be agreed with the local authorities. Should concentrations exceed these thresholds, additional abatement controls may be required, or the site works may need to temporarily stop.
- 6.4.66.4.7 The IAQM Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (Institute of Air Quality Management, 2018) recommends a site action level of 190 µg/m³ averaged over a 1-hour period for PM₁₀. It is therefore proposed that this would be the provisional trigger threshold for PM₁₀. This would be reviewed following review of the baseline data.
- 6.4.76.4.8 The guidance does not include recommended site action levels for PM_{2.5}, NO₂ or NO_x. These would be determined following review of the baseline data.

Monitoring Locations

- 6.4.86.4.9 Monitoring locations for baseline and construction stage monitoring have been selected along construction routes and adjacent to site compounds where receptors are present.

6.4.96.4.10 **Figure 1 Sensitive Receptors and Proposed Monitoring Locations – Suffolk** and Table 6.1 present the selected monitoring locations. These have been agreed with ESC and Suffolk County Council in accordance with measure AQ02.

Table 6.1 Proposed monitoring locations

| Monitoring ID | Location | X | Y |
|---------------|---|--------|--------|
| Suffolk 1 | Stratford St Andrew AQMA | 635748 | 259998 |
| Suffolk 2 | South boundary of B1121 construction compound | 638668 | 262017 |
| Suffolk 3 | Wood Farm | 639411 | 262521 |
| Suffolk 4 | South boundary of landfall site construction compound | 646042 | 258393 |
| Suffolk 5 | North-east boundary of converter station construction compounds | 640253 | 262632 |

6.5 Site Logs

6.5.1 Duringin accordance with measures AQ02 and GG27, during the construction period, detailed site logs will be maintained by the contractor which will include the following:

- Any complaints from a local resident or business relating to alleged emissions from construction activities, including the date of the complaint, the nature of the complaint and any measures taken as a result of the complaint and copies of any correspondence between the complainant and the construction team. Complaints will be logged and investigated as soon as possible. An example complaints log is presented in Appendix B.
- The dates on which dust suppression techniques were utilised on site for dust mitigation purposes, detailing the location and duration.
- A list of HGVs accessing the construction compounds, with confirmation that they all meet the Euro VI standard.
- The dates and vehicle registration numbers of any construction vehicle or plant which is observed:
 - not covered when carrying materials with a dust generating potential;
 - avoiding/not utilising wheel washing facilities;
 - appearing to exceed the site speed limit;
 - not utilising the approved haul road routes; or

– emitting black exhaust smoke.

- A summary of the visual inspections undertaken over the week.
- A summary of the monitoring data undertaken over the week, including any periods of elevated concentrations, or if any of the trigger thresholds had been exceeded.
- Weather conditions.
- A list of NRMM being used, recording whether each item is Stage 5 or Stage 4 and the reason for any approved Stage 4 use (in accordance with ~~confirmation that they all meet stage IV/V emissions measure AQ13~~).

6.5.2 The site logs will be reviewed on a weekly basis by the contractor’s Environmental Manager and cross referenced against the construction activities to determine any correlation between particular activities and/or locations and any dust complaints.

6.5.3 Where complaints have arisen, mitigation measures will be reviewed to ensure they are performing as expected. New procedures or controls will be developed where problems continue to occur, and the oAQMP will be updated if required. Monitoring locations will also be reviewed and moved if required.

7. Summary

- 7.1.1 This oAQMP has been prepared to support the application for development consent for the Proposed Project. The purpose of the oAQMP is to ensure emissions to air are mitigated effectively for the duration of the construction phase of the Suffolk Onshore Scheme. It also outlines the air quality monitoring that is proposed and that will be in place for the construction phase and will be used to ensure the proposed mitigation measures are working effectively.
- 7.1.2 The proposed monitoring includes visual monitoring and air quality monitoring using portable active sensors at locations along construction routes and adjacent to site compounds where receptors are present. A period of baseline monitoring will be undertaken for a minimum period of three months prior to any construction activity taking place, if possible, to determine baseline conditions. It is also proposed to install a meteorological mast at one of the monitoring locations so that the source can be identified should there be a pollution episode during the construction phase. The AQMP will be reviewed and updated throughout the construction phase of the Proposed Project as necessary, based on monitoring results.
- 7.1.3 During the construction period, detailed site logs will be maintained by the contractor which will include details of any complaints received, non-compliance of mitigation measures, and a summary of visual inspections and air quality monitoring undertaken over the week. Where complaints have been received, mitigation measures will be reviewed to ensure they are performing as expected. New procedures or controls will be developed where problems continue to occur, and the oAQMP will be updated if required. Monitoring locations will also be reviewed and moved if required.

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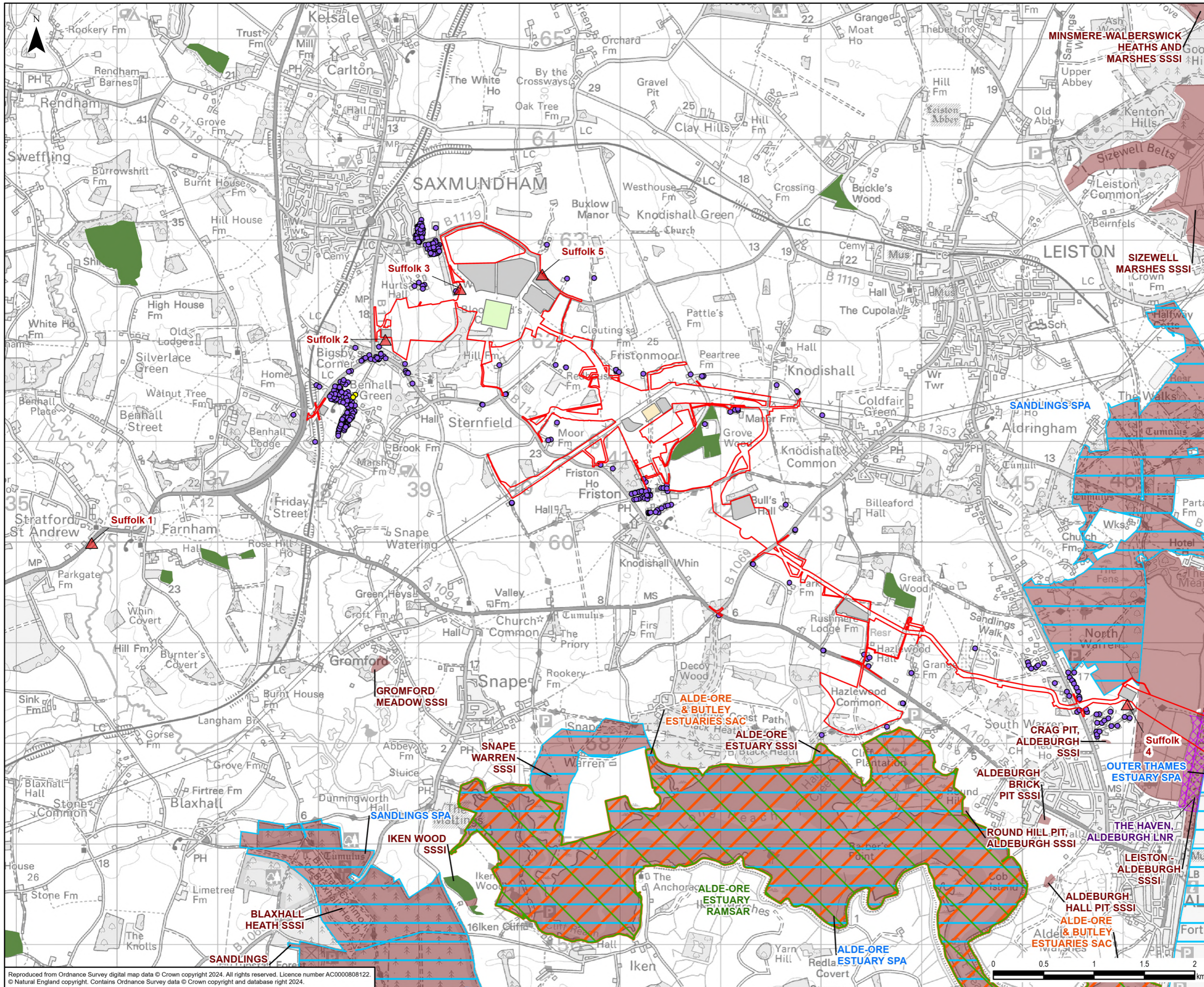
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Appendix A :Figures



- Legend**
- Order Limits
 - Substation
 - Converter Station
 - Construction Compound
 - ▲ Proposed Monitoring Location
- Human Receptors within 250m of the Order Limits**
- Education
 - Residential
- Special Area of Conservation (SAC)
 - Special Protection Area (SPA)
 - Site of Special Scientific Interest (SSSI)
 - Ramsar
 - Ancient Woodland (AW)
 - Local Nature Reserve (LNR)

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| Document Title: SENSITIVE RECEPTORS AND PROPOSED MONITORING LOCATIONS - SUFFOLK | | | | | |
| Creator: EB | Date: 08/01/2026 | Checker: DF | Date: 08/01/2026 | Approver: HD | Date: 08/01/2026 |
| Document Ref: FIGURE 1 | Scale: 1:35,000 | Format: A3 | Sheets: 1 | Rev: 0 | |

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Appendix B :Visual Inspection Site Log

B.1.1 A form including the following as a minimum should be used for recording results from visual inspection surveys. All fields should be completed in full.

Date of inspection

Monitoring undertaken by (name and position in company)

Observations (including inspection locations and meteorological conditions)

Signed

Date

Appendix C :Complaints Log

c.1.1 A form including the following as a minimum should be used for recording any complaints. All fields should be completed in full.

| | |
|--|-------------|
| Date of complaint | |
| | |
| Name, address and telephone number of complainant | |
| | |
| Details of complaint | |
| | |
| Date and time of air quality incident | |
| | |
| Description of air quality incident | |
| | |
| Meteorological conditions at time of incident | |
| | |
| Construction activities at time of incident | |
| | |
| Date and time of complaint follow-up call | |
| | |
| Action taken | |
| | |
| Details of any required amendments to Air Quality Management Plan | |
| | |
| Signed | Date |
| | |

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