

AECOM

PROJECT
NET ZERO TEESIDE PROJECT

Net Zero Teesside

APPLICANTS
NZE POWER LTD. AND NZNS STORAGE LTD.

KEY

- Site Boundary
- Power, Capture and Compressor Site
- CO₂ Gathering Network
- Ramsar Site
- Special Protection Area

CO₂ Gathering Network - Noise Distance Bands

Distance (m) - Level $L_{Aeq, T}$ (dB) - Significance

- 50 - 69 - IECS Receptor Value
- 100 - 62 - 10 dB above Saltholme measured daytime $L_{Aeq, T}$
- 150 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
- 250 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
- 350 - 52 - Equal to Saltholme measured daytime $L_{Aeq, T}$
- 575 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
- 825 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

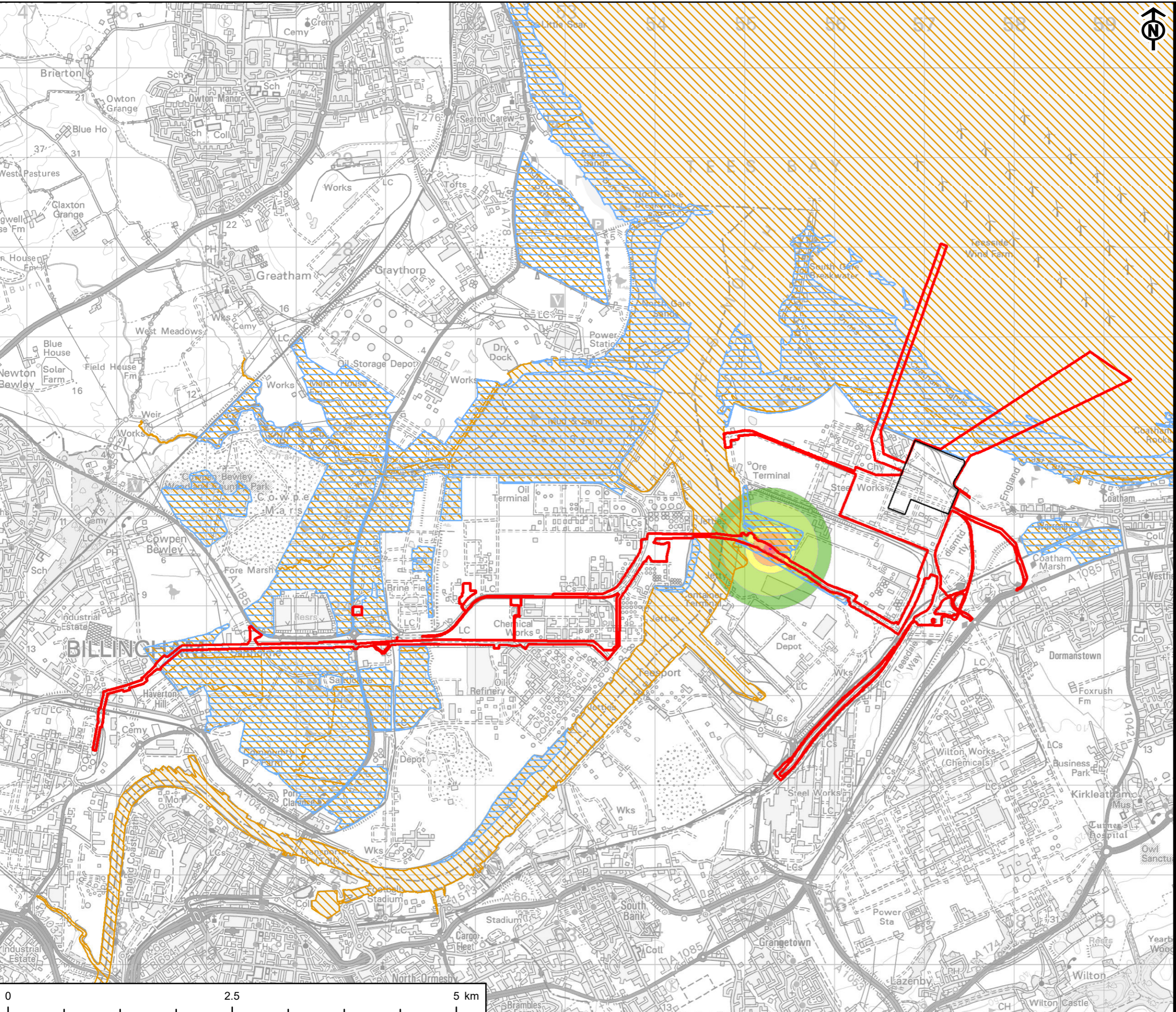
TITLE
FIGURE 11-3A
NOISE DISTANCE BANDS
CO₂ GATHERING NETWORK - CONSTRUCTION

REFERENCE
NZE_220422_ES_11-3A_v7

SHEET NUMBER
1 of 1

DATE
22/04/22

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APPLICANTS
NZN POWER LTD. AND NZNS STORAGE LTD.

KEY

- Site Boundary
- Power, Capture and Compressor Site
- CO₂ Gathering Network HDD Area
- Ramsar Site
- Special Protection Area

CO₂ Gathering Network HDD Area - Noise Distance Bands

Distance (m) - Level $L_{Aeq, T}$ (dB) -

- 65 - 69 - IECS Receptor Value
- 190 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
- 270 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
- 525 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
- 675 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

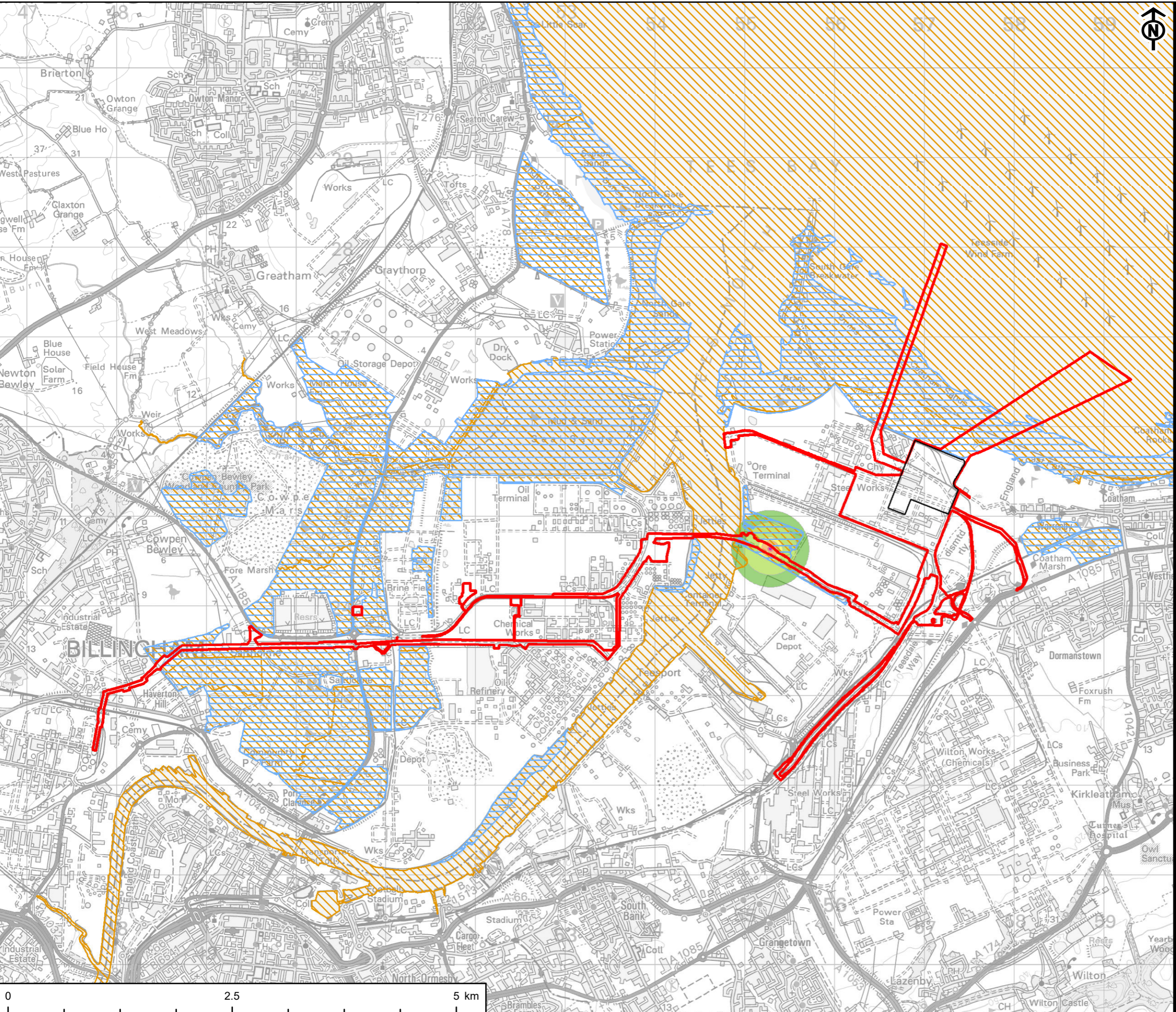
TITLE
FIGURE 11-3B
NOISE DISTANCE BANDS
HDD FOR CO₂ GATHERING NETWORK - CONSTRUCTION

REFERENCE
NZN_220422_ES_11-3B_v1

SHEET NUMBER
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KEY

- Site Boundary
- Power, Capture and Compressor Site
- CO₂ Gathering Network HDD Area
- Ramsar Site
- Special Protection Area

CO₂ Gathering Network HDD Area - Noise Distance Bands

Distance (m) - Level $L_{Aeq, T}$ (dB) -

- 24 - 69 - IECS Receptor Value
- 90 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
- 130 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
- 290 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
- 425 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
Noise level predictions made with barrier that completely hides the HDD sources from the receiver.

The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-3C
NOISE DISTANCE BANDS
HDD FOR CO₂ GATHERING NETWORK -
CONSTRUCTION WITH FULLY SCREENING
BARRIER

REFERENCE
Nzt_220422_ES_11-3C_v1

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