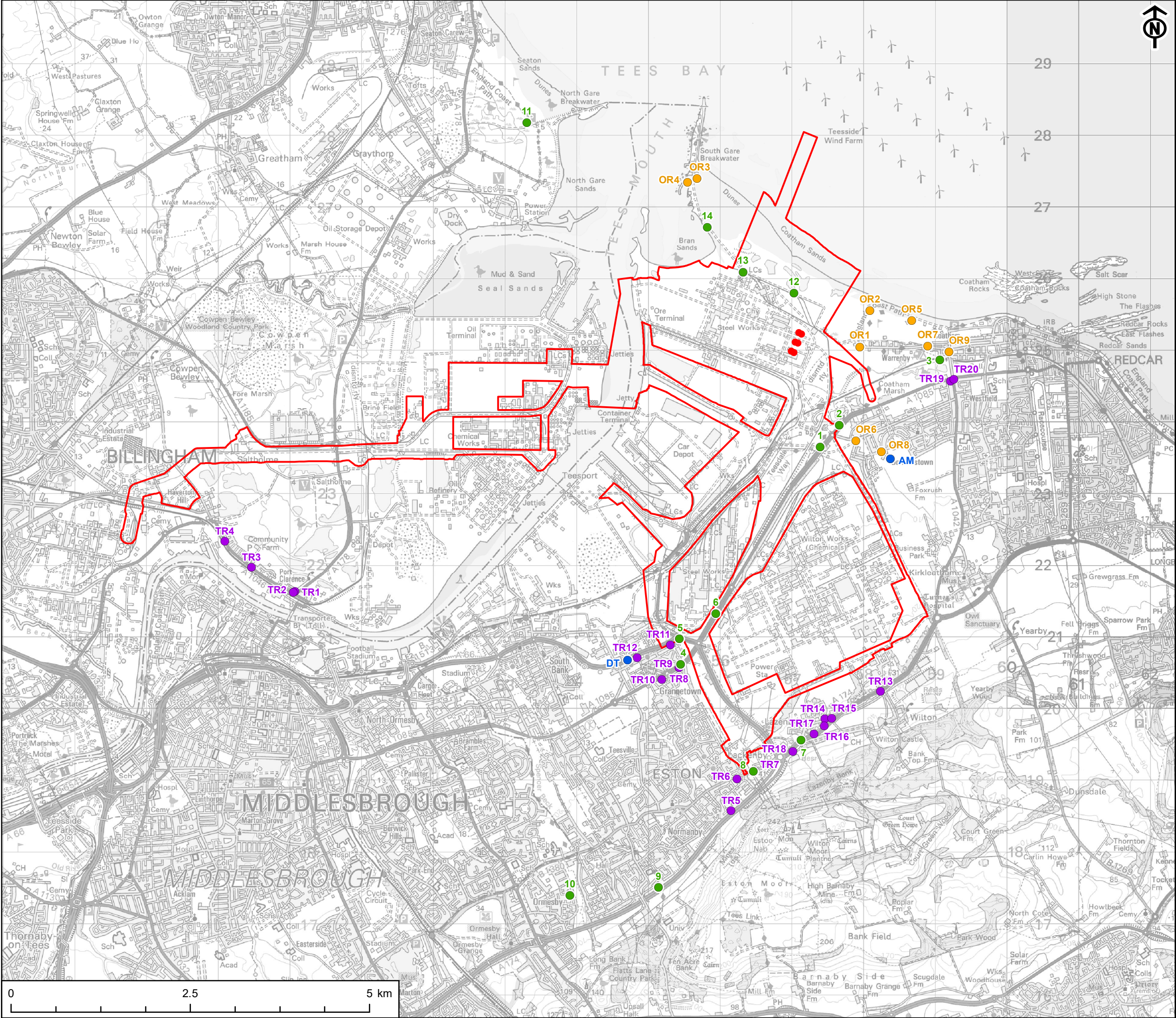




This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent. All dimensions are indicative and in metres unless otherwise noted. Do not scale this document.



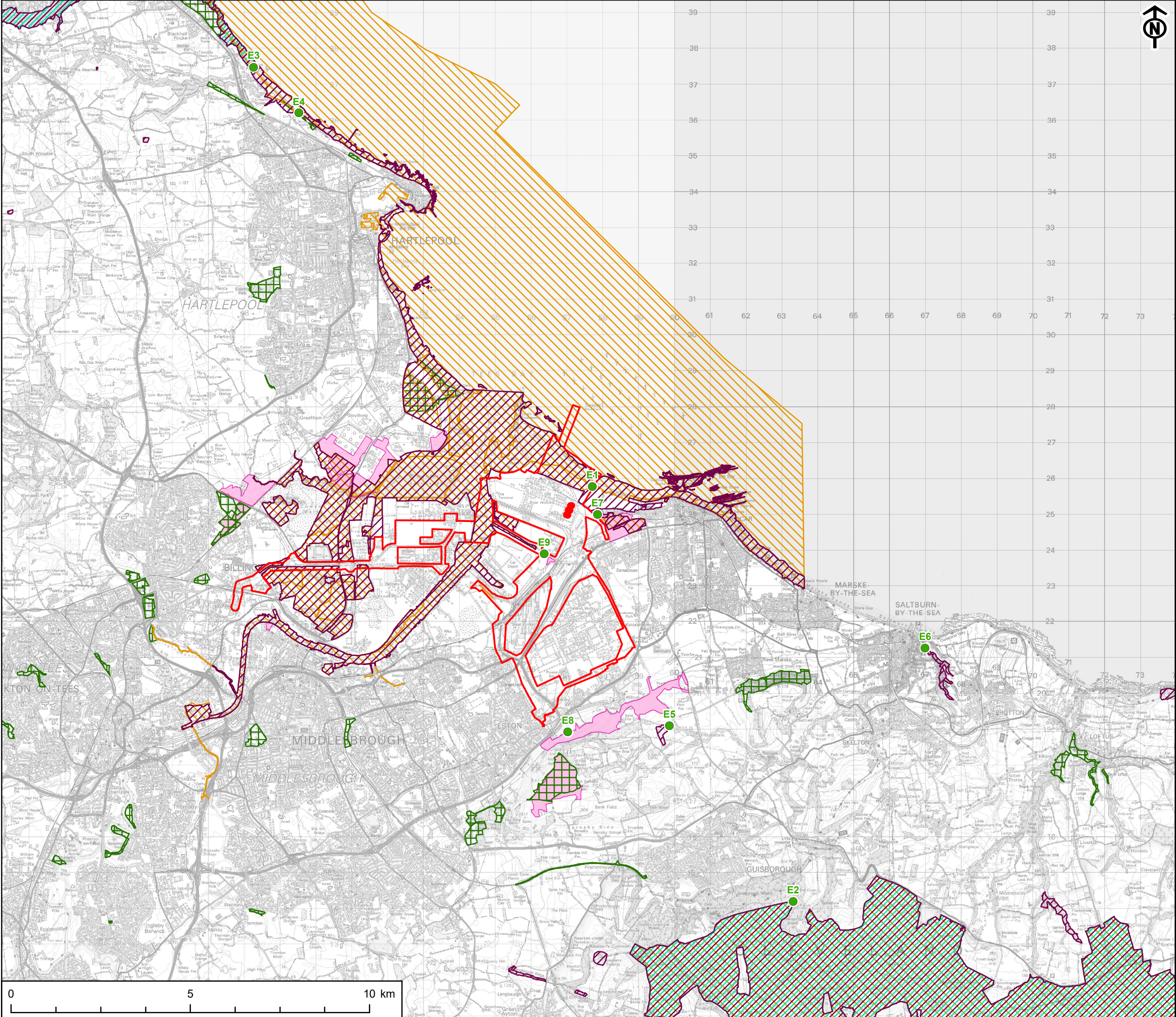
|         |                                                                                                                                                                                                                                                                                                                   |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT | NET ZERO TEESIDE                                                                                                                                                                                                                                                                                                  |
| CLIENT  | NZT POWER AND NZNS STORAGE                                                                                                                                                                                                                                                                                        |
| KEY     | <div><div>Site Boundary</div><div>Emission Source</div><div>Traffic Modelling Receptor</div><div>Operational Receptor</div><div>AECOM Diffusion Tube Monitoring</div><div>Local Authority Monitoring</div><div>AM - Domanstown Automatic Monitoring Station</div><div>DT - Council Diffusion Tube R27</div></div> |

TITLE  
FIGURE 8-1  
AIR QUALITY STUDY AREA  
HUMAN HEALTH RECEPTORS AND  
MONITORING

REFERENCE  
NZT\_200618\_PEI\_S\_8-1\_v4

|              |            |
|--------------|------------|
| SHEET NUMBER | DATE       |
| 1 of 1       | 18/06/2020 |





This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent. All dimensions are indicative and in metres unless otherwise noted. Do not scale this document.

PROJECT

NET ZERO TEESSIDE

CLIENT

NZT POWER AND NZNS STORAGE

KEY

Site Boundary

Emission Source

Ecological Receptor

E1 - Teessmouth and Cleveland Coast Ramsar, SPA, SSSI

E2 - North York Moors SAC, SPA, SSSI

E3 - Northumbria Coast Ramsar, SPA

E4 - Durham Coast SAC

E5 - Lovell Hill Pools SSSI

E6 - Saltburn Gill SSSI

E7 - Coatham Marsh

E8 - Wilton Woods

E9 - Eston Pumping Station

Site of Special Scientific Interest

Special Area of Conservation

Special Protection Area

Local Nature Reserve

Local Wildlife Site

TITLE

FIGURE 8-2  
AIR QUALITY STUDY AREA  
ECOLOGICAL RECEPTORS

REFERENCE

NZT\_200618\_PEI\_S\_8-2\_v4

SHEET NUMBER

1 of 1

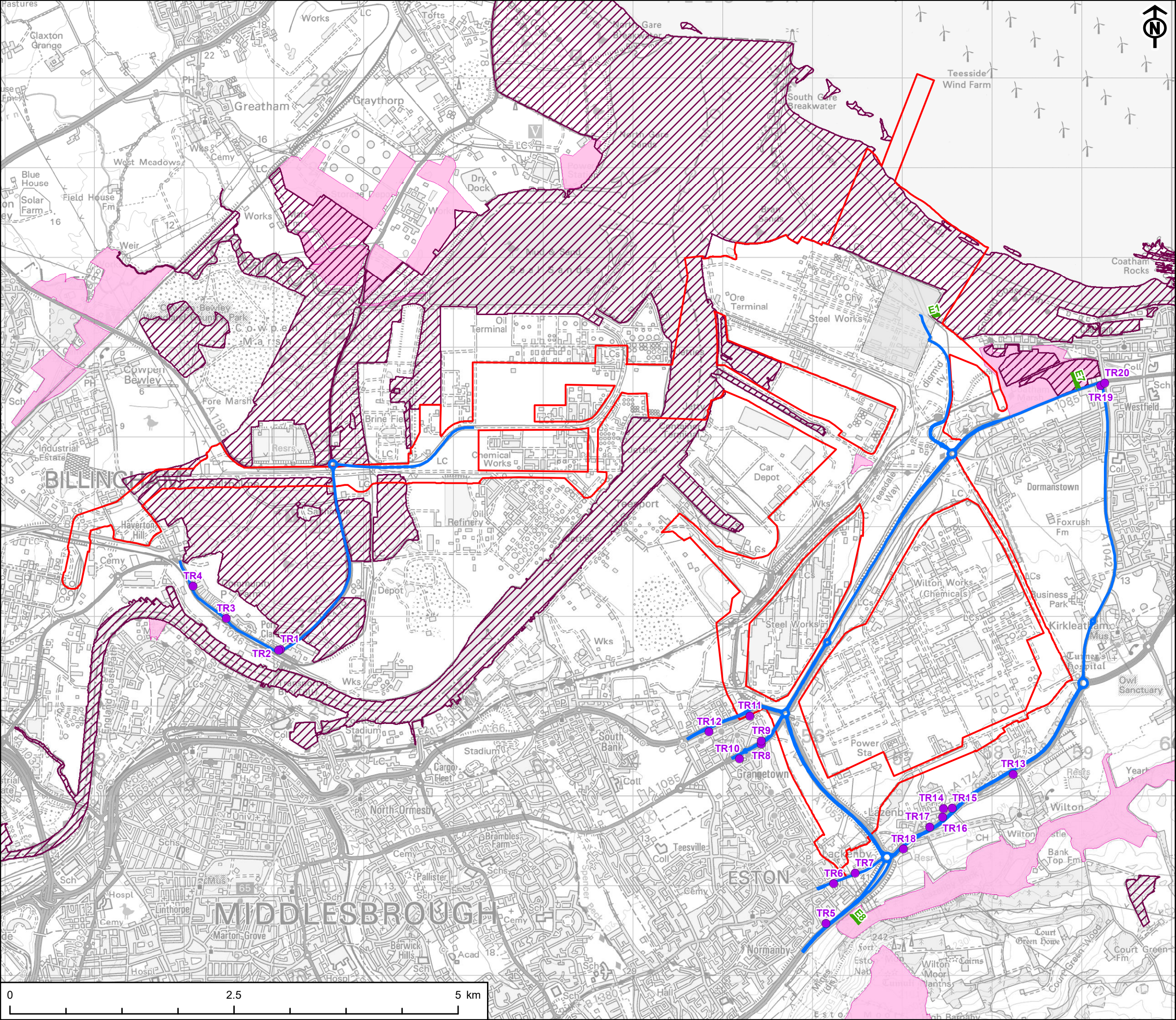
DATE

18/06/2020



Project Management Initials: RT Designer: LC Checked: AR Approved: HW

Scale @ A3 1:40,000

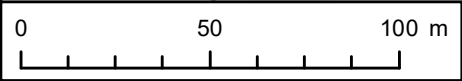
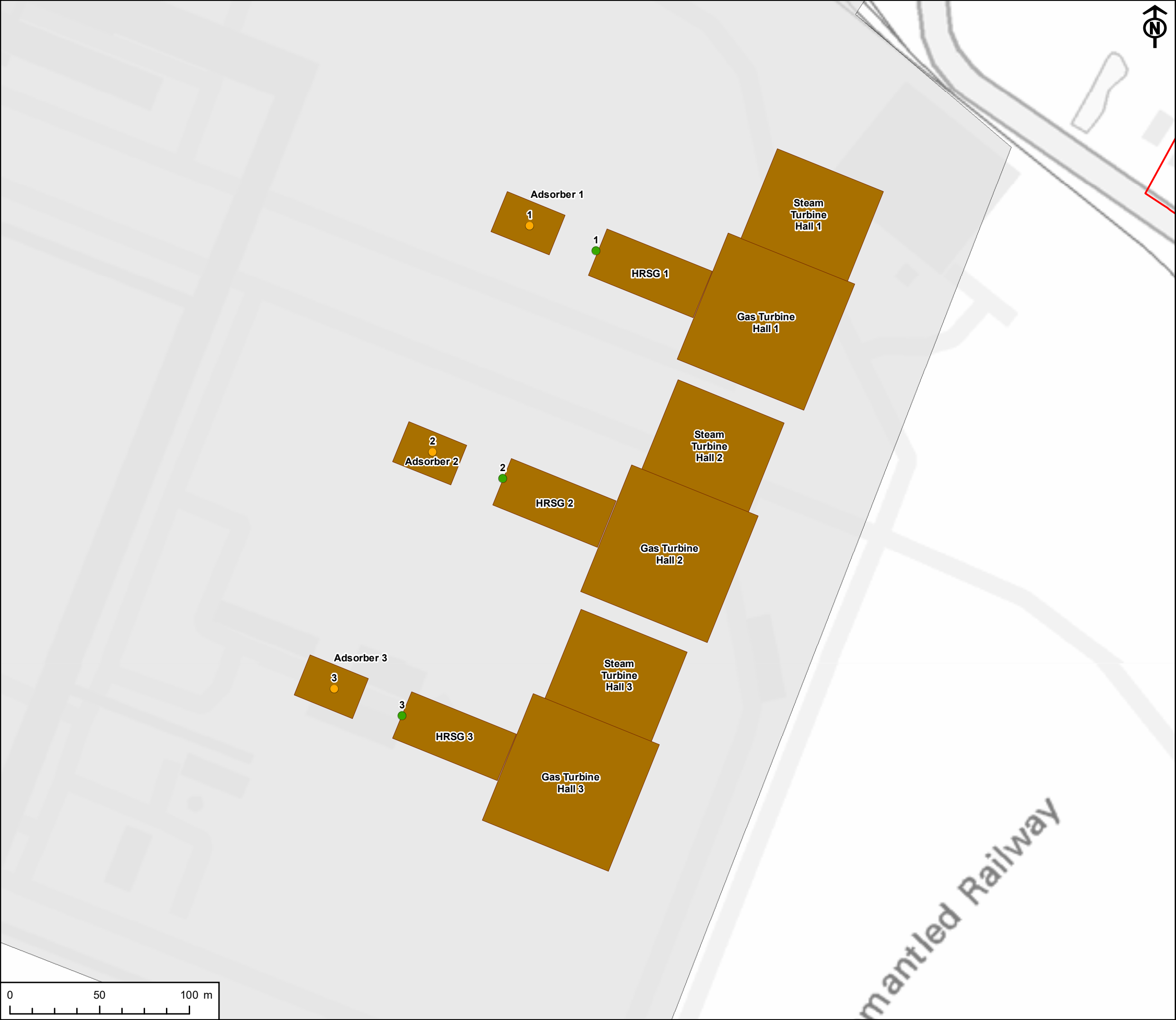


This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, for any party that uses or relies upon this drawing without AECOM's express written consent. All dimensions are indicative and in metres unless otherwise noted. Do not scale this document.



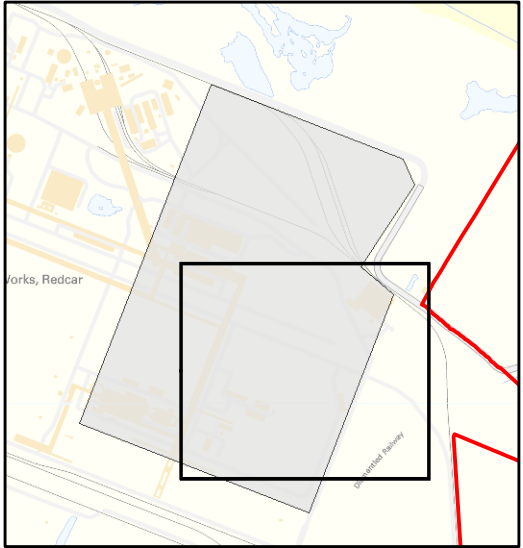
|                                                                                     |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
| PROJECT                                                                             |                                      |
| NET ZERO TEESSIDE                                                                   |                                      |
| CLIENT                                                                              |                                      |
| NZT POWER AND NZNS STORAGE                                                          |                                      |
| KEY                                                                                 |                                      |
|  | Site Boundary                        |
|  | Power, Capture and Compressor Site   |
|  | Traffic Modelling Receptor           |
|  | Ecological Receptor - Transect       |
| E1 - Teesmouth and Cleveland Coast SSSI                                             |                                      |
| E7 - Coatham Marsh                                                                  |                                      |
| E8 - Wilton Woods                                                                   |                                      |
|  | Modelled Road Network (Construction) |
|  | Site of Special Scientific Interest  |
|  | Local Wildlife Site                  |
| TITLE                                                                               |                                      |
| FIGURE 8-3                                                                          |                                      |
| AIR QUALITY STUDY AREA                                                              |                                      |
| CONSTRUCTION                                                                        |                                      |
| REFERENCE                                                                           |                                      |
| NZT_200618_PEI_S_8-3_v4                                                             |                                      |
| SHEET NUMBER                                                                        |                                      |
| 1 of 1                                                                              |                                      |
| DATE                                                                                |                                      |
| 18/06/2020                                                                          |                                      |





This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent. All dimensions are indicative and in metres unless otherwise noted. Do not scale this document.

|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
| PROJECT                                                                             |                                    |
| NET ZERO TEESSIDE                                                                   |                                    |
| CLIENT                                                                              |                                    |
| NZT POWER AND NZNS STORAGE                                                          |                                    |
| KEY                                                                                 |                                    |
|  | Site Boundary                      |
|  | Power, Capture and Compressor Site |
| Emission Source                                                                     |                                    |
|  | CCGT Stack                         |
|  | Carbon Capture Stack               |
|  | Building                           |
| TITLE                                                                               |                                    |
| FIGURE 8-4                                                                          |                                    |
| MODEL VISUALISATION                                                                 |                                    |
| REFERENCE                                                                           |                                    |
| NZT_200618_PEL_S_8-4_v5                                                             |                                    |
| SHEET NUMBER                                                                        | DATE                               |
| 1 of 1                                                                              | 18/06/2020                         |





# PROJECT NET ZERO TEESSIDE

CLIENT  
NZE POWER AND NZNS STORAGE

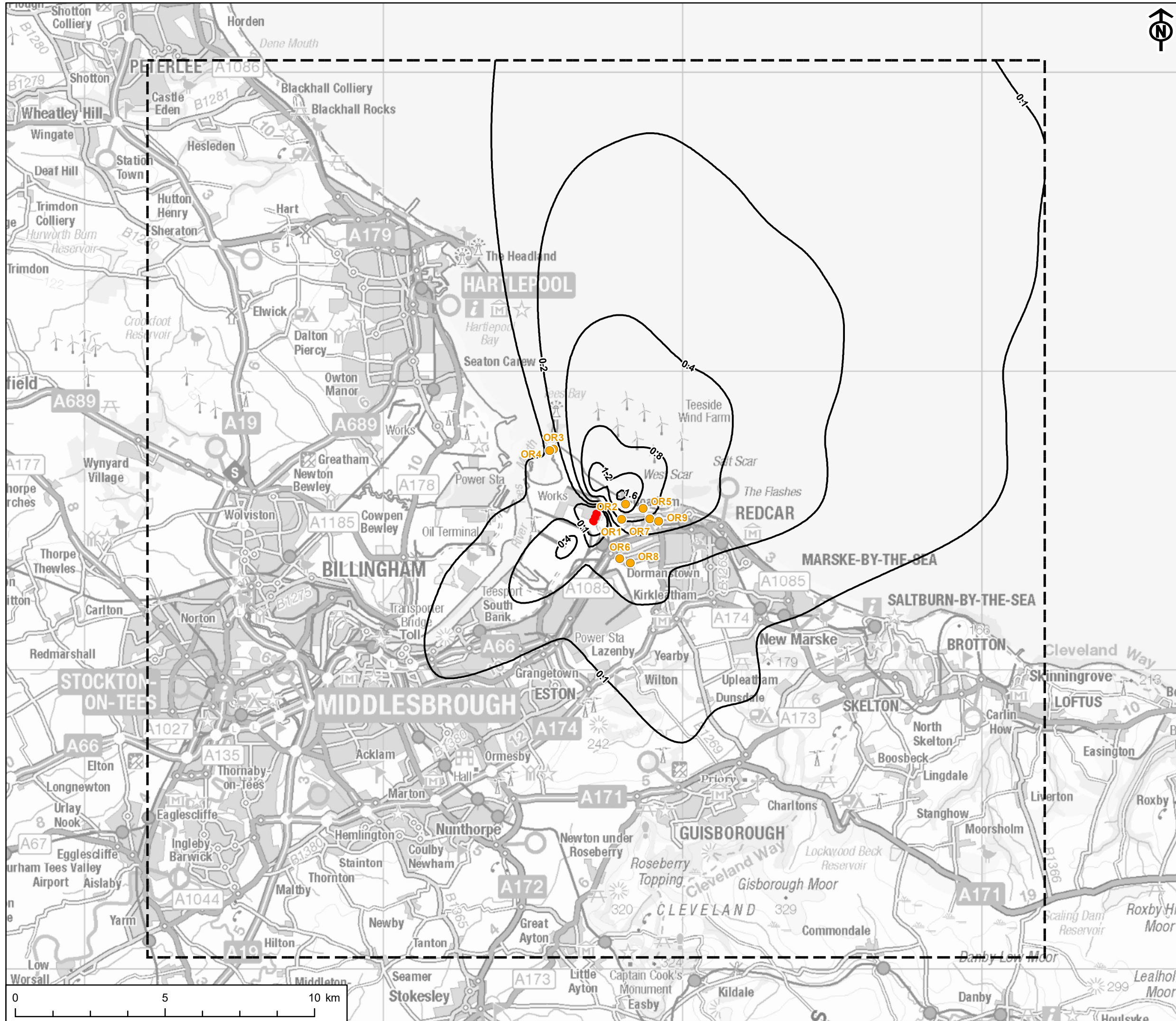
## KEY

 Study Area

— Annual Mean NO<sub>2</sub> PC (µg/m<sup>3</sup>)

- Emission Source

- Operational Receptor



**TITLE**

FIGURE 8-5  
ANNUAL MEAN NO<sub>2</sub> CONCENTRATIONS  
(µg/m<sup>3</sup>) FROM THE OPERATIONAL  
DEVELOPMENT  
2015 METEOROLOGICAL YEAR

## REFERENCE

NZT\_200618\_PEL\_S\_8-5\_v4

SHEET NUMBER

1 of 1

DATE \_\_\_\_\_

8/06/2020

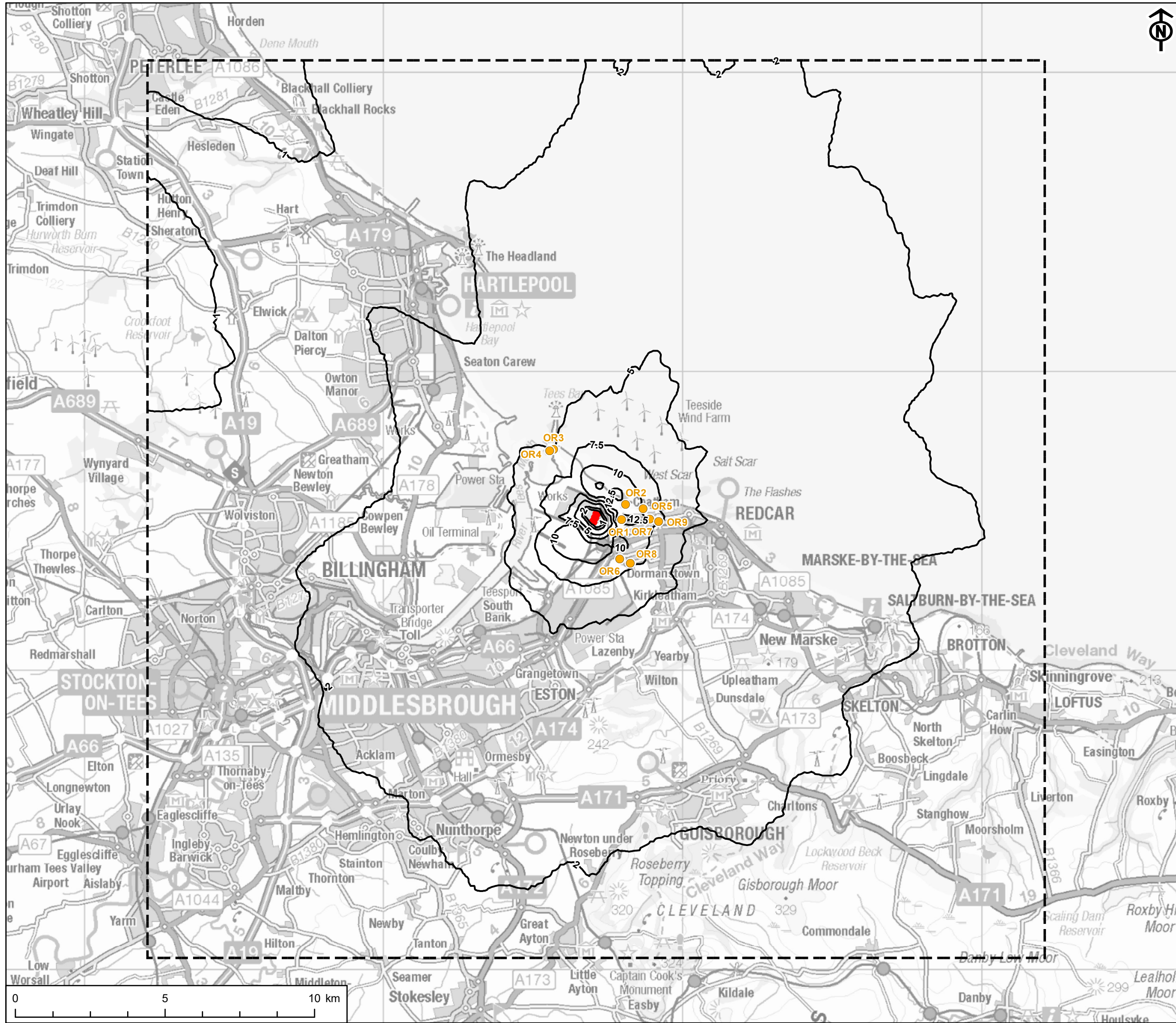
This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent.



**KEY**

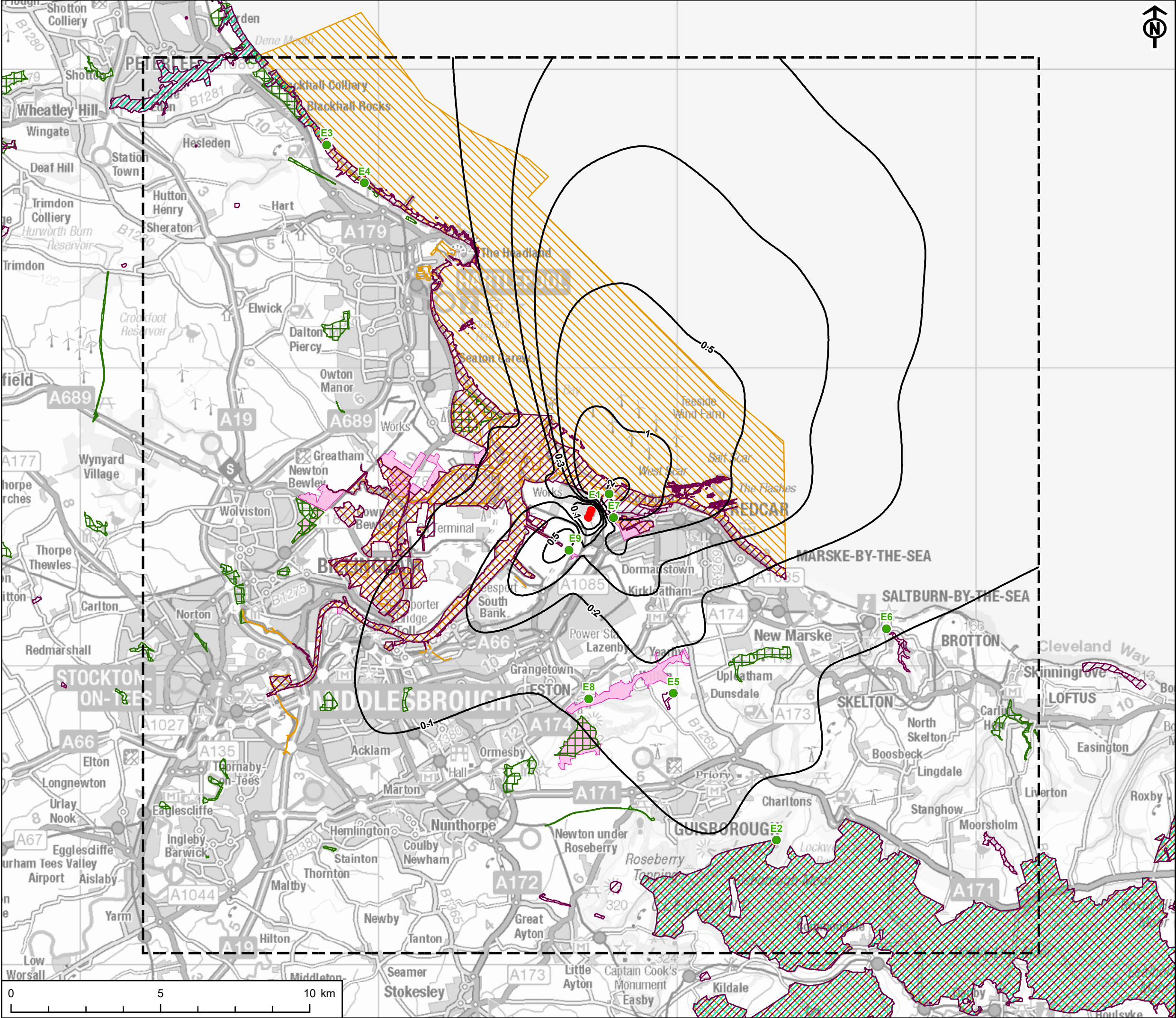
-  Study Area
-  99.79<sup>th</sup> percentile 1 hr Mean NO<sub>2</sub> PC (µg/m<sup>3</sup>)
-  Emission Source
-  Operational Receptor

|                         |            |
|-------------------------|------------|
| REFERENCE               |            |
| NZT_200618_PEI_S_8-6_v3 |            |
| SHEET NUMBER            | DATE       |
| 1 of 1                  | 18/06/2020 |



This drawing has been produced for the use of AECOMs client. It may not be used, modified or relied on by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOMs express written consent.





PROJECT  
NET ZERO TEESSIDE

CLIENT  
NZT POWER AND NZNS STORAGE

KEY

- Study Area
- Annual Mean NOx PC ( $\mu\text{g}/\text{m}^3$ )
- Emission Source
- Ecological Receptor
  - E1 - Teessmouth and Cleveland Coast Ramsar, SPA, SSSI
  - E2 - North York Moors SAC, SPA, SSSI
  - E3 - Northumbria Coast Ramsar, SPA
  - E4 - Durham Coast SAC
  - E5 - Lovell Hill Pools SSSI
  - E6 - Saltburn Gill SSSI
  - E7 - Coatham Marsh
  - E8 - Wilton Woods
  - E9 - Eston Pumping Station
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- Local Nature Reserve
- Local Wildlife Site

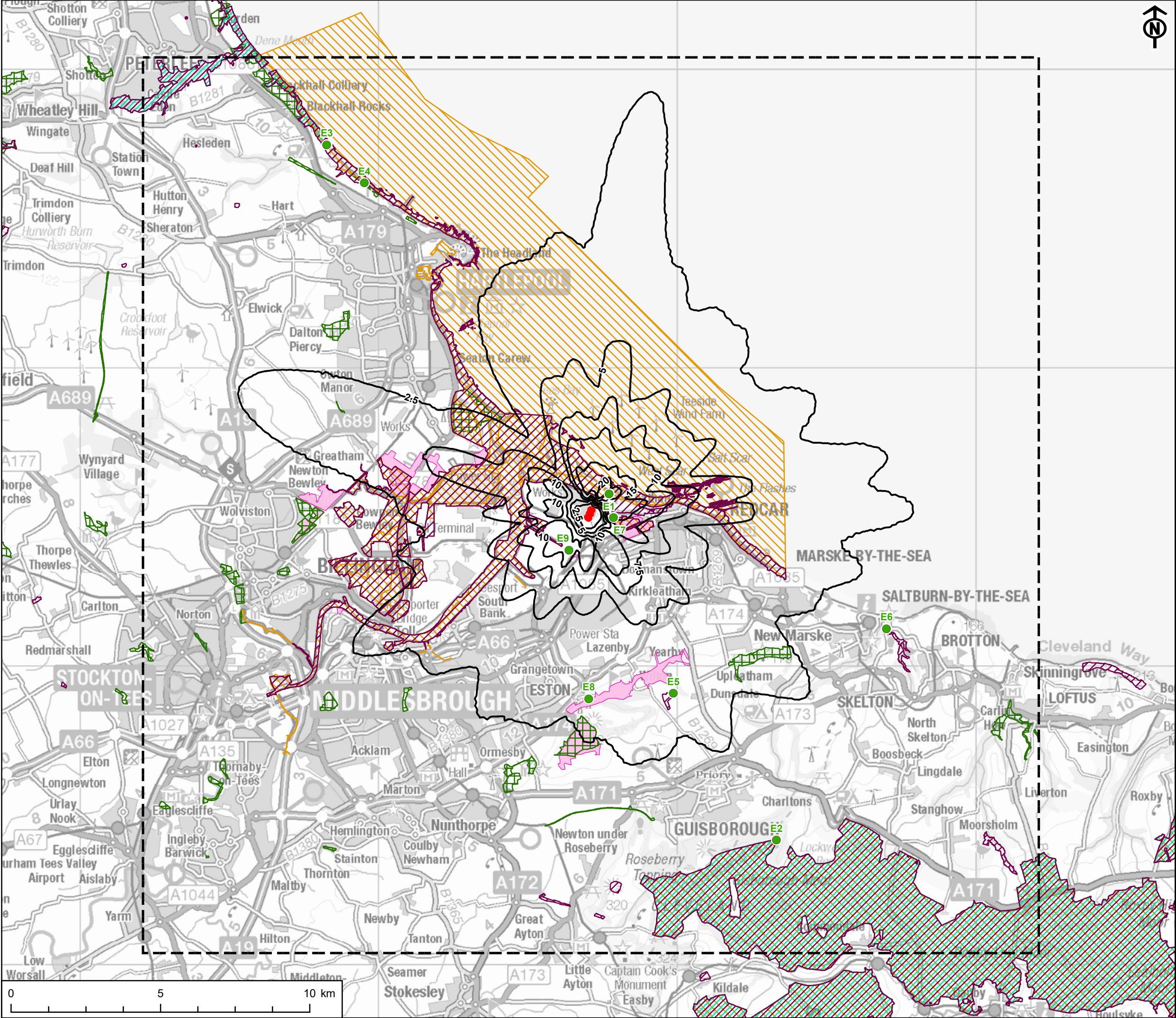
TITLE  
FIGURE 8-7  
ANNUAL MEAN NO<sub>x</sub> CONCENTRATIONS ( $\mu\text{g}/\text{m}^3$ ) FROM THE OPERATIONAL DEVELOPMENT  
2015 METEOROLOGICAL YEAR

REFERENCE  
NZT\_200618\_PEI\_S\_8-7\_v4

SHEET NUMBER  
1 of 1

DATE  
18/06/2020





This drawing has been produced for the use of AECOM's client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent. All dimensions are indicative and in metres unless otherwise noted. Do not scale this document.

PROJECT  
NET ZERO TEESSIDE

CLIENT  
NZT POWER AND NZNS STORAGE

- KEY
- Study Area
  - Max 24 hr Mean NOx PC ( $\mu\text{g}/\text{m}^3$ )
  - Emission Source
  - Ecological Receptor
    - E1 - Teesmouth and Cleveland Coast Ramsar, SPA, SSSI
    - E2 - North York Moors SAC, SPA, SSSI
    - E3 - Northumbria Coast Ramsar, SPA
    - E4 - Durham Coast SAC
    - E5 - Lovell Hill Pools SSSI
    - E6 - Saltburn Gill SSSI
    - E7 - Coatham Marsh
    - E8 - Wilton Woods
    - E9 - Eston Pumping Station
  - Site of Special Scientific Interest
  - Special Area of
  - Special Protection
  - Local Nature Reserve
  - Local Wildlife Site

TITLE  
FIGURE 8-8  
MAXIMUM 24 HOUR MEAN NOx  
CONCENTRATIONS ( $\mu\text{g}/\text{m}^3$ ) FROM THE  
OPERATIONAL DEVELOPMENT  
2016 METEOROLOGICAL YEAR

REFERENCE  
NZT\_200618\_PEI\_S\_8-8\_v4

SHEET NUMBER  
1 of 1

DATE  
18/06/2020



CLIENT  
NZT POWER AND NZNS STORAGE

 Study Area

— Nutrient N Deposition (kg N/ha/yr)

-  Emission Source
-  Bird Colony
-  Ecological Receptor

E1 - Teesmouth and Cleveland Coast  
Ramsar, SPA, SSSI

E2 - North York Moors SAC, SPA, SSSI

E3 - Northumbria Coast Ramsar, SPA, SSSI

E4 - Durham Coast SAC

E5 - Lovell Hill Pools SSSI

E6 - Saltburn Gill SSSI

E7 - Coatham Marsh

E8 - Wilton Woods

E9 - Eston Pumping Station

-  Site of Special Scientific Interest
-  Special Area of Conservation
-  Special Protection Area
-  Local Nature Reserve
-  Local Wildlife Site

**TITLE**

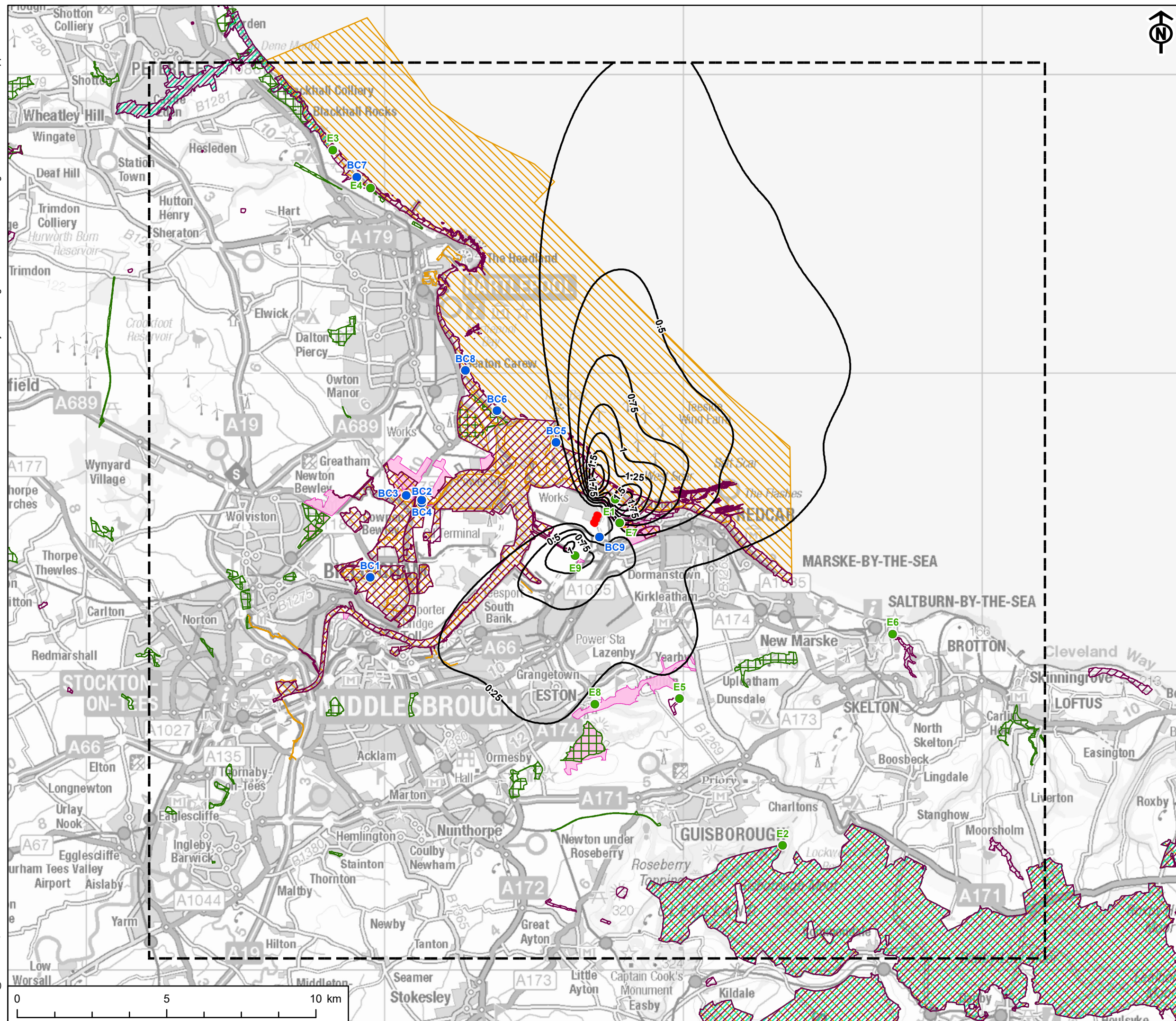
---

**FIGURE 8-9**  
**NUTRIENT NITROGEN DEPOSITION**  
**(kg N/ha/yr) FROM THE OPERATIONAL**  
**DEVELOPMENT**  
**2015 METEOROLOGICAL YEAR**

REFERENCE

NZT 200618 PEI S 8-9 v4

SHEET NUMBER 1 of 1 DATE 18/06/2020



This drawing has been produced for the use of AECOM client. It may not be used, modified or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility and denies any liability whatsoever, to any party that uses or relies upon this drawing without AECOM's express written consent.