

## **Appendix 4: Supplementary Documents**

**Revised Redline**

**Winter Garden Plan**

**Playspace Plan**

**Revised Principal Public Realm Areas Map**

**Revised Indicative Demolition and Construction Programme**

**Wind Microclimate Note**

**Jolly's Green Ecology Addendum**

**Climate Change Note**

**Revised Cumulative ZVI**

**Air Quality Technical Notes**

## TECHNICAL NOTE – AIR QUALITY

## Response to EHO Comments

**Introduction**

Entran Limited were commissioned to undertake an air quality assessment for the proposed redevelopment of Aberfeldy Village in the London Borough of Tower Hamlets (LTBH).

In addition to the review undertaken by LBTH's consultants Temple Group, the air quality assessment has also been reviewed by the LBTH Principal Air Quality Officer (AQO) who has raised a number of comments.

This Technical Note therefore provides a response to the AQO comments received. The comments are presented below in italics and the response provided in blue text.

- 1. The monitoring you have undertaken does not follow Defra guidance, therefore it is not acceptable. You have provided just 3-monitoring periods in the summer, while it should be a minimum of 6 months in spring or autumn. Furthermore, I would have focused more along the Blackwall Tunnel Northern Approach Road, and I would have placed more diffusion tubes there.*

Response

The 3 months of monitoring was set out in the ES Scoping report and agreed in the LBTH Scoping Opinion, also with no reference made to the time of year. Given the Covid impact on traffic flows, this is the maximum possible time that representative monitoring could have been conducted for the application. Monitoring was also not just carried out in the summer months, it was carried out until mid-November which therefore also includes Autumn. In terms of monitoring locations, the monitoring undertaken, in combination with the Council's own monitoring is considered perfectly adequate to determine pollutant concentrations across the site where there may be relevant exposure.

- 2. ADMS Roads dispersion modelling did not use LAEI data. I would not call a robust baseline. I have just reviewed the new LAEI 2019 published by the GLA and air pollution concentration levels (NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub>) have not decreased around the Blackwall Tunnel Northern Approach Road.*

Response

The air quality assessment used background concentrations obtained from the Defra background concentration maps, which is typical for this type of assessment. These are based on 2018 monitoring and are considered to be robust and widely used in air quality assessments within the LBTH, London and across the UK.

The concentration of a pollutant comprises the contribution from explicit local emission sources such as a road or chimney-stack and the contribution that is transported into an area from further away. If all local sources were removed, all that would remain would be the contribution that is transported from further away which is termed the 'background' concentration.

The Defra background pollutant concentration maps are presented in 1km x 1km grid squares across the UK and have been produced explicitly for use as background concentrations in air quality assessments. The LAEI concentrations include local sources of emissions to air and provide concentrations in 20m x 20m grid squares. Figure 1 below illustrates the LAEI concentrations for annual mean NO<sub>2</sub> in the vicinity of the Site. Overlain onto the map are the road links included in the detailed model for the air quality assessment (shown in blue)

Figure 1: LAEI map to demonstrate road sources already included in data



As illustrated, the key road links that are included in detailed modelling for the assessment are included as sources in the LAEI concentration maps. If the LAEI concentrations were used as background concentrations, the overall pollutant concentrations would include double counting of emissions from the road links included in the model. It is therefore, considered that the LAEI concentrations would not be suitable for use as background concentrations within the assessment.

Defra background maps provide the most suitable concentrations to use as background concentrations in the assessment and the results of the modelling have been verified against local monitoring data to remove any uncertainties in the atmospheric input data and the model itself.

The predicted concentrations are considered to be robust. The air quality assessment has been subject to an independent review by Temple on behalf of the LBTH. No comment was made regarding the use of Defra background maps to source the background concentrations for the modelling, which again reinforces the approach taken for this assessment.

The use of Defra background maps to obtain background concentrations for use in air quality modelling assessments is commonplace and has been accepted in previous projects within the

LBTH. Some examples of projects where Entran Ltd and other consultants have undertaken air quality assessments within the LBTH where Defra background maps have been used to determine suitable background concentrations and been accepted by the Council include:

- Ensign House (Ref. PA/21/00952);
- Mulberry Place (Ref. PA/21/02182);
- Former Poplar Bus Depot (Ref. PA/19/02148/A1);
- Islay Wharf (Ref. PA/19/01760/A1);
- 25-37 Rothbury Road (Ref. 16/00441/FUL);
- Hepscott Road; and
- St Pauls Way.

The EHO has made the following recommendations:

1. No residential units on ground floor of buildings A1-2, B1-2, B3, C1-4, E103 on the Blackwall Tunnel Northern Approach Road site.

Response

There is no justification for this based on the predicted and measured concentrations at the Site. Mechanical ventilation is also proposed and NOx filtration can be added to these units if the Council still have concerns. Such mitigation is acceptable to other London authorities and other schemes in LBTH. The predicted concentrations have not been queried by Temple's review of the air quality assessment on behalf of the Council. This recommendation seems to be based on kerbside concentrations and not the relevant exposure concentrations at the proposed dwellings.

2. No private gardens in the buildings A1-2, B1-2, B3, C1-4, E103, but only landscape and a communal garden.

Response

There are no private gardens proposed.

3. No terraces and no balconies until the 3<sup>rd</sup> floor including in the buildings A1-2, B1-2, B3, C1-4, E103 (only openable winter gardens).

Response

Again, there is no justification for this recommendation and no evidence is provided to demonstrate this point. Only the short-term air quality objectives would be relevant in these locations.

4. Greenery / landscape / horizontal or living green walls to try to reduce air pollutants.



Response

A landscaping scheme is proposed and will be subject to further detailed design as the reserved matters applications come forward.

**Prepared by:**

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## TECHNICAL NOTE – AIR QUALITY

Prepared by: Dr Nick Davey

An air quality assessment was undertaken in October 2021 to support the planning application (PA/21/02377/A1) for a mixed use development at Aberfeldy Estate.

This Technical Note has been produced following correspondence from the Principal Air Quality Officer (PAQO) at the London Borough of Tower Hamlets (LBTH). The PAQO has requested that London Atmospheric Emissions Inventory (LAEI) be considered in terms of background concentrations for the ADMS Roads dispersion modelling. This has therefore been undertaken and reported below.

The estimated LAEI NO<sub>2</sub> background concentration for the Site for 2019 is 31.6 µg/m<sup>3</sup>, which was taken from grid location 538620, 181440. This concentration is considered to represent background conditions at the Site. A summary of predicted annual mean NO<sub>2</sub> concentrations at the selected sensitive receptor locations is presented in **Appendix A**. The concentrations include the LAEI NO<sub>2</sub> concentration of 31.6 µg/m<sup>3</sup>.

The results of the ADMS Roads dispersion modelling undertaken indicate that predicted concentrations of NO<sub>2</sub> within the Proposed Development using the LAEI background concentration are lower than those predicted in the original air quality assessment.

Predicted concentrations of NO<sub>2</sub> are below the relevant objectives within the Proposed Development for the year of opening. Future occupants of the Proposed Development would therefore not be exposed to NO<sub>2</sub> concentrations above the relevant objective levels. Furthermore, mechanical ventilation is proposed for the units which will further improve air quality within these dwellings.

The impact of the Proposed Development with regards new exposure to air quality is therefore considered to be negligible and the proposed uses are considered acceptable. Likewise, balconies /terraces are considered suitable as pollutant concentrations are predicted to be below the relevant short-term air quality objective.

This technical note does not affect the conclusions of the original air quality assessment and no additional mitigation is required.

The results of the modelling were verified against local monitoring data and are therefore considered to be robust. Additionally, monitoring for nitrogen dioxide has been undertaken at nine locations at the Site using passive diffusion tubes. Sampling was carried out from 13<sup>th</sup> July to 11<sup>th</sup> November 2021. The locations of the diffusion tubes are illustrated in Figure 1.

**Figure 1: Diffusion Tube Monitoring Locations**



A summary of the monthly concentrations measured at the nine monitoring locations is presented in Table 1. The data have been adjusted for laboratory bias using the 2020 national factor for Gradko diffusion tubes prepared using a 20% triethanolamine (TEA) in water solution.

**Table 1: Diffusion Tube Monitoring Results**

Site Name	Concentrations ( $\mu\text{g}/\text{m}^3$ )		
	13 <sup>th</sup> July to 20 <sup>th</sup> August	20 <sup>th</sup> August to 30 <sup>th</sup> September	30 <sup>th</sup> September to 11 <sup>th</sup> November
1	23.1	25.3	34.3
2	29.5	33.2	-
3	26.2	25.5	39.1
4	23.1	29.5	33.2
5	23.8	27.2	30.4
6	19.3	21.1	24.7
7	22.1	25.1	32.3
8	22.0	27.6	27.3
9	18.1	24.0	26.1

The results of the monitoring undertaken at the above locations also indicate that the AQS objective for NO<sub>2</sub> is currently being achieved at the Site and therefore reinforces the conclusions of both this and the original air quality assessment.

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**Appendix A – Predicted Annual Mean Pollutant Concentrations Based on LAEI Background Concentrations**

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration ( $\mu\text{g}/\text{m}^3$ )	
		2026	2031
Ground	P1 – Commercial	36.7	35.3
	P2 – Residential	36.9	35.4
	P3 – Residential	35.1	34.2
	P4 – Residential	34.8	33.9
	P5 – Commercial	36.4	35.0
	P6 – Commercial	38.0	36.2
	P7 – Commercial	36.4	35.0
	P8 – Residential	35.3	34.2
	P9 – Residential	37.8	36.0
	P10 – Residential	37.2	35.6
	P11 – Residential	36.3	34.9
	P12 – Residential	35.0	34.0
	P13 – Commercial	37.8	36.0
	P14 – Commercial	37.4	35.7
	P15 – Residential	34.6	33.7
	P16 – Residential	34.6	33.7
	P17 – Commercial	38.2	36.3
	P18 – Commercial	37.3	35.6
	P19 – Residential	34.7	33.8
	P20 – Residential	34.7	33.8
First	P1 – Commercial	36.1	34.9
	P2 – Residential	36.2	34.9
	P3 – Residential	34.8	33.9
	P4 – Residential	34.7	33.8
	P5 – Commercial	35.9	34.7
	P6 – Commercial	37.0	35.5
	P7 – Commercial	35.8	34.6
	P8 – Residential	35.0	34.1

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	36.9	35.3
	P10 – Residential	36.5	35.1
	P11 – Residential	35.8	34.6
	P12 – Residential	34.8	33.8
	P13 – Commercial	36.9	35.4
	P14 – Commercial	36.7	35.2
	P15 – Residential	34.5	33.6
	P16 – Residential	34.4	33.6
	P17 – Commercial	37.2	35.6
	P18 – Commercial	36.7	35.2
	P19 – Residential	34.6	33.7
	P20 – Residential	34.6	33.7
Second	P1 – Commercial	35.2	34.2
	P2 – Residential	35.3	34.2
	P3 – Residential	34.3	33.5
	P4 – Residential	34.3	33.6
	P5 – Commercial	35.1	34.1
	P6 – Commercial	35.6	34.5
	P7 – Commercial	35.0	34.0
	P8 – Residential	34.6	33.7
	P9 – Residential	35.6	34.4
	P10 – Residential	35.5	34.3
	P11 – Residential	35.0	34.0
	P12 – Residential	34.5	33.6
	P13 – Commercial	35.6	34.4
	P14 – Commercial	35.6	34.5
	P15 – Residential	34.2	33.4
	P16 – Residential	34.3	33.4
	P17 – Commercial	35.9	34.6
	P18 – Commercial	35.8	34.6

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	34.4	33.6
	P20 – Residential	34.4	33.6
Third	P1 – Commercial	34.4	33.6
	P2 – Residential	34.4	33.6
	P3 – Residential	33.9	33.2
	P4 – Residential	34.0	33.3
	P5 – Commercial	34.3	33.5
	P6 – Commercial	34.4	33.6
	P7 – Commercial	34.3	33.5
	P8 – Residential	34.1	33.4
	P9 – Residential	34.5	33.6
	P10 – Residential	34.5	33.6
	P11 – Residential	34.3	33.5
	P12 – Residential	34.1	33.3
	P13 – Commercial	34.5	33.6
	P14 – Commercial	34.6	33.7
	P15 – Residential	34.0	33.2
	P16 – Residential	34.0	33.3
	P17 – Commercial	34.7	33.8
	P18 – Commercial	34.9	33.9
	P19 – Residential	34.1	33.4
	P20 – Residential	34.2	33.4
4 <sup>th</sup>	P1 – Commercial	33.7	33.1
	P2 – Residential	33.6	33.0
	P3 – Residential	33.5	33.0
	P4 – Residential	33.6	33.0
	P5 – Commercial	33.6	33.1
	P6 – Commercial	33.6	33.0
	P7 – Commercial	33.7	33.1
	P8 – Residential	33.6	33.0

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	33.7	33.0
	P10 – Residential	33.7	33.1
	P11 – Residential	33.7	33.1
	P12 – Residential	33.7	33.1
	P13 – Commercial	33.7	33.0
	P14 – Commercial	33.9	33.2
	P15 – Residential	33.6	33.0
	P16 – Residential	33.7	33.1
	P17 – Commercial	33.9	33.2
	P18 – Commercial	34.2	33.4
	P19 – Residential	33.8	33.1
	P20 – Residential	33.9	33.2
5 <sup>th</sup>	P1 – Commercial	33.2	32.7
	P2 – Residential	33.1	32.7
	P3 – Residential	33.2	32.7
	P4 – Residential	33.2	32.8
	P5 – Commercial	33.2	32.7
	P6 – Commercial	33.1	32.6
	P7 – Commercial	33.2	32.8
	P8 – Residential	33.2	32.8
	P9 – Residential	33.1	32.7
	P10 – Residential	33.2	32.7
	P11 – Residential	33.3	32.8
	P12 – Residential	33.3	32.8
	P13 – Commercial	33.2	32.7
	P14 – Commercial	33.3	32.8
	P15 – Residential	33.3	32.8
	P16 – Residential	33.4	32.9
	P17 – Commercial	33.3	32.8
	P18 – Commercial	33.6	33.0

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	33.5	32.9
	P20 – Residential	33.6	33.0
6 <sup>th</sup>	P1 – Commercial	32.8	32.5
	P2 – Residential	32.8	32.4
	P3 – Residential	32.9	32.5
	P4 – Residential	32.9	32.5
	P5 – Commercial	32.8	32.4
	P6 – Commercial	32.8	32.4
	P7 – Commercial	32.9	32.5
	P8 – Residential	32.9	32.5
	P9 – Residential	32.8	32.4
	P10 – Residential	32.8	32.5
	P11 – Residential	32.9	32.5
	P12 – Residential	33.0	32.6
	P13 – Commercial	32.8	32.5
	P14 – Commercial	33.0	32.6
	P15 – Residential	33.1	32.6
	P16 – Residential	33.2	32.7
	P17 – Commercial	33.0	32.6
	P18 – Commercial	33.2	32.7
	P19 – Residential	33.2	32.7
	P20 – Residential	33.3	32.8
7 <sup>th</sup>	P1 – Commercial	32.6	32.3
	P2 – Residential	32.5	32.3
	P3 – Residential	32.7	32.4
	P4 – Residential	32.7	32.4
	P5 – Commercial	32.6	32.3
	P6 – Commercial	32.5	32.3
	P7 – Commercial	32.7	32.3
	P8 – Residential	32.7	32.3



Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	32.6	32.3
	P10 – Residential	32.6	32.3
	P11 – Residential	32.7	32.3
	P12 – Residential	32.8	32.4
	P13 – Commercial	32.6	32.3
	P14 – Commercial	32.7	32.4
	P15 – Residential	32.8	32.5
	P16 – Residential	33.0	32.5
	P17 – Commercial	32.7	32.4
	P18 – Commercial	32.9	32.5
	P19 – Residential	33.0	32.6
	P20 – Residential	33.1	32.6
8 <sup>th</sup>	P1 – Commercial	32.4	32.1
	P2 – Residential	32.4	32.1
	P3 – Residential	32.5	32.2
	P4 – Residential	32.5	32.2
	P5 – Commercial	32.4	32.2
	P6 – Commercial	32.4	32.2
	P7 – Commercial	32.5	32.2
	P8 – Residential	32.5	32.2
	P9 – Residential	32.4	32.2
	P10 – Residential	32.4	32.2
	P11 – Residential	32.5	32.2
	P12 – Residential	32.6	32.3
P13 – Commercial	32.5	32.2	
P14 – Commercial	32.6	32.3	
P15 – Residential	32.7	32.3	
P16 – Residential	32.8	32.4	
P17 – Commercial	32.6	32.3	
P18 – Commercial	32.7	32.4	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	32.8	32.4
	P20 – Residential	32.9	32.5
9 <sup>th</sup>	P1 – Commercial	32.2	32.0
	P2 – Residential	32.3	32.1
	P3 – Residential	32.4	32.1
	P4 – Residential	32.3	32.1
	P5 – Commercial	32.3	32.1
	P6 – Commercial	32.3	32.1
	P7 – Commercial	32.3	32.1
	P8 – Residential	32.3	32.1
	P9 – Residential	32.3	32.1
	P10 – Residential	32.3	32.1
	P11 – Residential	32.4	32.1
	P12 – Residential	32.4	32.2
P13 – Commercial	32.4	32.1	
P14 – Commercial	32.4	32.2	
P15 – Residential	32.5	32.2	
P16 – Residential	32.6	32.3	
P17 – Commercial	32.4	32.2	
P18 – Commercial	32.5	32.2	
P19 – Residential	32.6	32.3	
P20 – Residential	32.7	32.4	
10 <sup>th</sup>	P1 – Commercial	32.1	32.0
	P2 – Residential	32.2	32.0
	P3 – Residential	32.2	32.0
	P4 – Residential	32.2	32.0
	P5 – Commercial	32.2	32.0
	P6 – Commercial	32.2	32.0
	P7 – Commercial	32.2	32.0
	P8 – Residential	32.2	32.0

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	32.2	32.0
	P10 – Residential	32.2	32.0
	P11 – Residential	32.2	32.0
	P12 – Residential	32.3	32.1
	P13 – Commercial	32.3	32.1
	P14 – Commercial	32.3	32.1
	P15 – Residential	32.4	32.1
	P16 – Residential	32.5	32.2
	P17 – Commercial	32.3	32.1
	P18 – Commercial	32.4	32.2
	P19 – Residential	32.5	32.2
	P20 – Residential	32.5	32.2
11 <sup>th</sup>	P1 – Commercial	32.1	31.9
	P2 – Residential	32.1	31.9
	P3 – Residential	32.1	32.0
	P4 – Residential	32.1	32.0
	P5 – Commercial	32.1	31.9
	P6 – Commercial	32.1	32.0
	P7 – Commercial	32.2	32.0
	P8 – Residential	32.1	32.0
	P9 – Residential	32.1	32.0
	P10 – Residential	32.2	32.0
	P11 – Residential	32.2	32.0
	P12 – Residential	32.2	32.0
	P13 – Commercial	32.2	32.0
	P14 – Commercial	32.2	32.0
	P15 – Residential	32.3	32.1
	P16 – Residential	32.3	32.1
	P17 – Commercial	32.2	32.0
	P18 – Commercial	32.3	32.1

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	32.3	32.1
	P20 – Residential	32.4	32.2
12 <sup>th</sup>	P1 – Commercial	32.0	31.9
	P2 – Residential	32.0	31.9
	P3 – Residential	32.1	31.9
	P4 – Residential	32.1	31.9
	P5 – Commercial	32.0	31.9
	P6 – Commercial	32.1	31.9
	P7 – Commercial	32.1	31.9
	P8 – Residential	32.1	31.9
	P9 – Residential	32.1	31.9
	P10 – Residential	32.1	31.9
	P11 – Residential	32.1	31.9
	P12 – Residential	32.1	32.0
	P13 – Commercial	32.1	32.0
	P14 – Commercial	32.2	32.0
	P15 – Residential	32.2	32.0
	P16 – Residential	32.2	32.0
	P17 – Commercial	32.2	32.0
	P18 – Commercial	32.2	32.0
	P19 – Residential	32.2	32.0
	P20 – Residential	32.3	32.1
13 <sup>th</sup>	P1 – Commercial	32.0	31.8
	P2 – Residential	32.0	31.9
	P3 – Residential	32.0	31.9
	P4 – Residential	32.0	31.9
	P5 – Commercial	32.0	31.9
	P6 – Commercial	32.0	31.9
	P7 – Commercial	32.0	31.9
	P8 – Residential	32.0	31.9

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	32.0	31.9
	P10 – Residential	32.0	31.9
	P11 – Residential	32.0	31.9
	P12 – Residential	32.1	31.9
	P13 – Commercial	32.1	31.9
	P14 – Commercial	32.1	31.9
	P15 – Residential	32.1	31.9
	P16 – Residential	32.2	32.0
	P17 – Commercial	32.1	31.9
	P18 – Commercial	32.1	32.0
	P19 – Residential	32.2	32.0
	P20 – Residential	32.2	32.0
14 <sup>th</sup>	P1 – Commercial	31.9	31.8
	P2 – Residential	31.9	31.8
	P3 – Residential	31.9	31.8
	P4 – Residential	32.0	31.8
	P5 – Commercial	31.9	31.8
	P6 – Commercial	32.0	31.9
	P7 – Commercial	32.0	31.9
	P8 – Residential	32.0	31.8
	P9 – Residential	32.0	31.9
	P10 – Residential	32.0	31.9
	P11 – Residential	32.0	31.9
	P12 – Residential	32.0	31.9
P13 – Commercial	32.0	31.9	
P14 – Commercial	32.0	31.9	
P15 – Residential	32.0	31.9	
P16 – Residential	32.1	31.9	
P17 – Commercial	32.1	31.9	
P18 – Commercial	32.1	31.9	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	32.1	31.9
	P20 – Residential	32.1	32.0
15 <sup>th</sup>	P1 – Commercial	31.9	31.8
	P2 – Residential	31.9	31.8
	P3 – Residential	31.9	31.8
	P4 – Residential	31.9	31.8
	P5 – Commercial	31.9	31.8
	P6 – Commercial	31.9	31.8
	P7 – Commercial	31.9	31.8
	P8 – Residential	31.9	31.8
	P9 – Residential	31.9	31.8
	P10 – Residential	32.0	31.8
	P11 – Residential	32.0	31.8
	P12 – Residential	32.0	31.9
P13 – Commercial	32.0	31.8	
P14 – Commercial	32.0	31.9	
P15 – Residential	32.0	31.9	
P16 – Residential	32.0	31.9	
P17 – Commercial	32.0	31.9	
P18 – Commercial	32.0	31.9	
P19 – Residential	32.0	31.9	
P20 – Residential	32.1	31.9	
16 <sup>th</sup>	P1 – Commercial	31.9	31.8
	P2 – Residential	31.9	31.8
	P3 – Residential	31.9	31.8
	P4 – Residential	31.9	31.8
	P5 – Commercial	31.9	31.8
	P6 – Commercial	31.9	31.8
	P7 – Commercial	31.9	31.8
	P8 – Residential	31.9	31.8

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.9	31.8
	P10 – Residential	31.9	31.8
	P11 – Residential	31.9	31.8
	P12 – Residential	31.9	31.8
	P13 – Commercial	31.9	31.8
	P14 – Commercial	32.0	31.8
	P15 – Residential	32.0	31.8
	P16 – Residential	32.0	31.9
	P17 – Commercial	32.0	31.8
	P18 – Commercial	32.0	31.9
	P19 – Residential	32.0	31.9
	P20 – Residential	32.0	31.9
17 <sup>th</sup>	P1 – Commercial	31.8	31.7
	P2 – Residential	31.8	31.8
	P3 – Residential	31.8	31.8
	P4 – Residential	31.9	31.8
	P5 – Commercial	31.8	31.8
	P6 – Commercial	31.9	31.8
	P7 – Commercial	31.9	31.8
	P8 – Residential	31.9	31.8
	P9 – Residential	31.9	31.8
	P10 – Residential	31.9	31.8
	P11 – Residential	31.9	31.8
	P12 – Residential	31.9	31.8
P13 – Commercial	31.9	31.8	
P14 – Commercial	31.9	31.8	
P15 – Residential	31.9	31.8	
P16 – Residential	31.9	31.8	
P17 – Commercial	31.9	31.8	
P18 – Commercial	31.9	31.8	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )		
		2026	2031	
	P19 – Residential	31.9	31.8	
	P20 – Residential	32.0	31.8	
18 <sup>th</sup>	P1 – Commercial	31.8	31.7	
	P2 – Residential	31.8	31.7	
	P3 – Residential	31.8	31.7	
	P4 – Residential	31.8	31.7	
	P5 – Commercial	31.8	31.7	
	P6 – Commercial	31.8	31.8	
	P7 – Commercial	31.8	31.8	
	P8 – Residential	31.8	31.7	
	P9 – Residential	31.8	31.8	
	P10 – Residential	31.9	31.8	
	P11 – Residential	31.9	31.8	
	P12 – Residential	31.9	31.8	
19 <sup>th</sup>	P13 – Commercial	31.9	31.8	
	P14 – Commercial	31.9	31.8	
	P15 – Residential	31.9	31.8	
	P16 – Residential	31.9	31.8	
	P17 – Commercial	31.9	31.8	
	P18 – Commercial	31.9	31.8	
	P19 – Residential	31.9	31.8	
	P20 – Residential	31.9	31.8	
		P1 – Commercial	31.8	31.7
		P2 – Residential	31.8	31.7
		P3 – Residential	31.8	31.7
		P4 – Residential	31.8	31.7
P5 – Commercial		31.8	31.7	
P6 – Commercial		31.8	31.7	
P7 – Commercial		31.8	31.7	
P8 – Residential		31.8	31.7	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.8	31.7
	P10 – Residential	31.8	31.7
	P11 – Residential	31.8	31.7
	P12 – Residential	31.8	31.8
	P13 – Commercial	31.8	31.8
	P14 – Commercial	31.9	31.8
	P15 – Residential	31.8	31.8
	P16 – Residential	31.9	31.8
	P17 – Commercial	31.9	31.8
	P18 – Commercial	31.9	31.8
	P19 – Residential	31.9	31.8
	P20 – Residential	31.9	31.8
20 <sup>th</sup>	P1 – Commercial	31.8	31.7
	P2 – Residential	31.8	31.7
	P3 – Residential	31.8	31.7
	P4 – Residential	31.8	31.7
	P5 – Commercial	31.8	31.7
	P6 – Commercial	31.8	31.7
	P7 – Commercial	31.8	31.7
	P8 – Residential	31.8	31.7
	P9 – Residential	31.8	31.7
	P10 – Residential	31.8	31.7
	P11 – Residential	31.8	31.7
	P12 – Residential	31.8	31.7
P13 – Commercial	31.8	31.7	
P14 – Commercial	31.8	31.7	
P15 – Residential	31.8	31.7	
P16 – Residential	31.8	31.8	
P17 – Commercial	31.8	31.7	
P18 – Commercial	31.8	31.8	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	31.8	31.8
	P20 – Residential	31.8	31.8
21 <sup>st</sup>	P1 – Commercial	31.7	31.7
	P2 – Residential	31.8	31.7
	P3 – Residential	31.8	31.7
	P4 – Residential	31.8	31.7
	P5 – Commercial	31.8	31.7
	P6 – Commercial	31.8	31.7
	P7 – Commercial	31.8	31.7
	P8 – Residential	31.8	31.7
	P9 – Residential	31.8	31.7
	P10 – Residential	31.8	31.7
	P11 – Residential	31.8	31.7
	P12 – Residential	31.8	31.7
22 <sup>nd</sup>	P13 – Commercial	31.8	31.7
	P14 – Commercial	31.8	31.7
	P15 – Residential	31.8	31.7
	P16 – Residential	31.8	31.7
	P17 – Commercial	31.8	31.7
	P18 – Commercial	31.8	31.7
	P19 – Residential	31.8	31.7
	P20 – Residential	31.8	31.7
	P1 – Commercial	31.7	31.7
	P2 – Residential	31.7	31.7
	P3 – Residential	31.7	31.7
	P4 – Residential	31.7	31.7
P5 – Commercial	31.7	31.7	
P6 – Commercial	31.8	31.7	
P7 – Commercial	31.8	31.7	
P8 – Residential	31.7	31.7	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.8	31.7
	P10 – Residential	31.8	31.7
	P11 – Residential	31.8	31.7
	P12 – Residential	31.8	31.7
	P13 – Commercial	31.8	31.7
	P14 – Commercial	31.8	31.7
	P15 – Residential	31.8	31.7
	P16 – Residential	31.8	31.7
	P17 – Commercial	31.8	31.7
	P18 – Commercial	31.8	31.7
	P19 – Residential	31.8	31.7
	P20 – Residential	31.8	31.7
23 <sup>rd</sup>	P1 – Commercial	31.7	31.7
	P2 – Residential	31.7	31.7
	P3 – Residential	31.7	31.7
	P4 – Residential	31.7	31.7
	P5 – Commercial	31.7	31.7
	P6 – Commercial	31.7	31.7
	P7 – Commercial	31.7	31.7
	P8 – Residential	31.7	31.7
	P9 – Residential	31.7	31.7
	P10 – Residential	31.7	31.7
	P11 – Residential	31.7	31.7
	P12 – Residential	31.7	31.7
P13 – Commercial	31.7	31.7	
P14 – Commercial	31.8	31.7	
P15 – Residential	31.8	31.7	
P16 – Residential	31.8	31.7	
P17 – Commercial	31.8	31.7	
P18 – Commercial	31.8	31.7	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	31.8	31.7
	P20 – Residential	31.8	31.7
24 <sup>th</sup>	P1 – Commercial	31.7	31.7
	P2 – Residential	31.7	31.7
	P3 – Residential	31.7	31.7
	P4 – Residential	31.7	31.7
	P5 – Commercial	31.7	31.7
	P6 – Commercial	31.7	31.7
	P7 – Commercial	31.7	31.7
	P8 – Residential	31.7	31.7
	P9 – Residential	31.7	31.7
	P10 – Residential	31.7	31.7
	P11 – Residential	31.7	31.7
	P12 – Residential	31.7	31.7
25 <sup>th</sup>	P13 – Commercial	31.7	31.7
	P14 – Commercial	31.7	31.7
	P15 – Residential	31.7	31.7
	P16 – Residential	31.7	31.7
	P17 – Commercial	31.7	31.7
	P18 – Commercial	31.7	31.7
	P19 – Residential	31.7	31.7
	P20 – Residential	31.8	31.7
	P1 – Commercial	31.7	31.7
	P2 – Residential	31.7	31.7
	P3 – Residential	31.7	31.7
	P4 – Residential	31.7	31.7
P5 – Commercial	31.7	31.7	
P6 – Commercial	31.7	31.7	
P7 – Commercial	31.7	31.7	
P8 – Residential	31.7	31.7	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.7	31.7
	P10 – Residential	31.7	31.7
	P11 – Residential	31.7	31.7
	P12 – Residential	31.7	31.7
	P13 – Commercial	31.7	31.7
	P14 – Commercial	31.7	31.7
	P15 – Residential	31.7	31.7
	P16 – Residential	31.7	31.7
	P17 – Commercial	31.7	31.7
	P18 – Commercial	31.7	31.7
	P19 – Residential	31.7	31.7
	P20 – Residential	31.7	31.7
26 <sup>th</sup>	P1 – Commercial	31.7	31.6
	P2 – Residential	31.7	31.7
	P3 – Residential	31.7	31.7
	P4 – Residential	31.7	31.7
	P5 – Commercial	31.7	31.7
	P6 – Commercial	31.7	31.7
	P7 – Commercial	31.7	31.7
	P8 – Residential	31.7	31.7
	P9 – Residential	31.7	31.7
	P10 – Residential	31.7	31.7
	P11 – Residential	31.7	31.7
	P12 – Residential	31.7	31.7
P13 – Commercial	31.7	31.7	
P14 – Commercial	31.7	31.7	
P15 – Residential	31.7	31.7	
P16 – Residential	31.7	31.7	
P17 – Commercial	31.7	31.7	
P18 – Commercial	31.7	31.7	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )		
		2026	2031	
	P19 – Residential	31.7	31.7	
	P20 – Residential	31.7	31.7	
27 <sup>th</sup>	P1 – Commercial	31.7	31.6	
	P2 – Residential	31.7	31.6	
	P3 – Residential	31.7	31.6	
	P4 – Residential	31.7	31.6	
	P5 – Commercial	31.7	31.6	
	P6 – Commercial	31.7	31.6	
	P7 – Commercial	31.7	31.6	
	P8 – Residential	31.7	31.6	
	P9 – Residential	31.7	31.7	
	P10 – Residential	31.7	31.7	
	P11 – Residential	31.7	31.7	
	P12 – Residential	31.7	31.7	
28 <sup>th</sup>	P13 – Commercial	31.7	31.7	
	P14 – Commercial	31.7	31.7	
	P15 – Residential	31.7	31.7	
	P16 – Residential	31.7	31.7	
	P17 – Commercial	31.7	31.7	
	P18 – Commercial	31.7	31.7	
	P19 – Residential	31.7	31.7	
	P20 – Residential	31.7	31.7	
		P1 – Commercial	31.7	31.6
		P2 – Residential	31.7	31.6
		P3 – Residential	31.7	31.6
		P4 – Residential	31.7	31.6
P5 – Commercial		31.7	31.6	
P6 – Commercial		31.7	31.6	
P7 – Commercial		31.7	31.6	
P8 – Residential		31.7	31.6	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.7	31.6
	P10 – Residential	31.7	31.6
	P11 – Residential	31.7	31.6
	P12 – Residential	31.7	31.6
	P13 – Commercial	31.7	31.6
	P14 – Commercial	31.7	31.6
	P15 – Residential	31.7	31.6
	P16 – Residential	31.7	31.7
	P17 – Commercial	31.7	31.6
	P18 – Commercial	31.7	31.6
	P19 – Residential	31.7	31.7
	P20 – Residential	31.7	31.7
29 <sup>th</sup>	P1 – Commercial	31.7	31.6
	P2 – Residential	31.7	31.6
	P3 – Residential	31.7	31.6
	P4 – Residential	31.7	31.6
	P5 – Commercial	31.7	31.6
	P6 – Commercial	31.7	31.6
	P7 – Commercial	31.7	31.6
	P8 – Residential	31.7	31.6
	P9 – Residential	31.7	31.6
	P10 – Residential	31.7	31.6
	P11 – Residential	31.7	31.6
	P12 – Residential	31.7	31.6
P13 – Commercial	31.7	31.6	
P14 – Commercial	31.7	31.6	
P15 – Residential	31.7	31.6	
P16 – Residential	31.7	31.6	
P17 – Commercial	31.7	31.6	
P18 – Commercial	31.7	31.6	

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	31.7	31.6
	P20 – Residential	31.7	31.6
30 <sup>th</sup>	P1 – Commercial	31.6	31.6
	P2 – Residential	31.7	31.6
	P3 – Residential	31.7	31.6
	P4 – Residential	31.7	31.6
	P5 – Commercial	31.7	31.6
	P6 – Commercial	31.7	31.6
	P7 – Commercial	31.7	31.6
	P8 – Residential	31.7	31.6
	P9 – Residential	31.7	31.6
	P10 – Residential	31.7	31.6
	P11 – Residential	31.7	31.6
	P12 – Residential	31.7	31.6
31 <sup>st</sup>	P1 – Commercial	31.6	31.6
	P2 – Residential	31.6	31.6
	P3 – Residential	31.6	31.6
	P4 – Residential	31.6	31.6
	P5 – Commercial	31.6	31.6
	P6 – Commercial	31.6	31.6
	P7 – Commercial	31.7	31.6
	P8 – Residential	31.6	31.6



Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P9 – Residential	31.7	31.6
	P10 – Residential	31.7	31.6
	P11 – Residential	31.7	31.6
	P12 – Residential	31.7	31.6
	P13 – Commercial	31.7	31.6
	P14 – Commercial	31.7	31.6
	P15 – Residential	31.7	31.6
	P16 – Residential	31.7	31.6
	P17 – Commercial	31.7	31.6
	P18 – Commercial	31.7	31.6
	P19 – Residential	31.7	31.6
	P20 – Residential	31.7	31.6
32 <sup>nd</sup>	P1 – Commercial	31.6	31.6
	P2 – Residential	31.6	31.6
	P3 – Residential	31.6	31.6
	P4 – Residential	31.6	31.6
	P5 – Commercial	31.6	31.6
	P6 – Commercial	31.6	31.6
	P7 – Commercial	31.6	31.6
	P8 – Residential	31.6	31.6
	P9 – Residential	31.6	31.6
	P10 – Residential	31.6	31.6
	P11 – Residential	31.6	31.6
	P12 – Residential	31.6	31.6
	P13 – Commercial	31.6	31.6
	P14 – Commercial	31.6	31.6
	P15 – Residential	31.6	31.6
	P16 – Residential	31.6	31.6
	P17 – Commercial	31.6	31.6
	P18 – Commercial	31.6	31.6

Floor	Receptor Number	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		2026	2031
	P19 – Residential	31.6	31.6
	P20 – Residential	31.6	31.6