

# Appendix 16.3

## Air Quality Modelling Results

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## Appendix 16.3 – Air Quality Modelling Results

### Local Air Quality Assessment Results

- 1.1.1 Annual mean concentrations from the local air quality assessment are presented in **Table 16.3.1** and **Table 16.3.2**.
- 1.1.2 NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> concentrations were predicted for the Base Year (2012) and Opening Year (2026) Do-Minimum and Do-Something scenarios.

Table 16.3.1: Annual mean NO<sub>2</sub> concentrations (µg m<sup>-3</sup>) at human health receptors for all assessed scenarios for Project 8 Stage 3 with DMRB impact magnitudes

Receptor ID	Annual Mean NO <sub>2</sub>			Impact Magnitude
	Base	DM	DS	
R1	2.6	1.9	1.9	IMPERCEPTIBLE
R2	2.7	1.9	1.9	IMPERCEPTIBLE
R3	2.8	1.9	1.9	IMPERCEPTIBLE
R4	2.8	1.9	1.9	IMPERCEPTIBLE
R5	2.9	2.0	2.0	IMPERCEPTIBLE
R6	3.4	2.1	2.1	IMPERCEPTIBLE
R7	2.7	1.9	1.9	IMPERCEPTIBLE
R8	3.7	2.3	2.3	IMPERCEPTIBLE
R9	3.9	2.4	2.4	IMPERCEPTIBLE
R10	3.6	2.3	2.4	IMPERCEPTIBLE
R11	4.0	2.6	2.7	IMPERCEPTIBLE
R12	3.8	2.8	2.8	IMPERCEPTIBLE
R13	4.6	3.9	3.9	IMPERCEPTIBLE
R14	3.8	3.2	3.2	IMPERCEPTIBLE
R15	3.1	2.3	2.3	IMPERCEPTIBLE
R16	3.4	2.9	2.9	IMPERCEPTIBLE
R17	2.7	2.1	2.1	IMPERCEPTIBLE
R18	2.6	2.6	2.6	IMPERCEPTIBLE
R19	2.8	2.4	2.4	IMPERCEPTIBLE
R20	2.7	2.1	2.1	IMPERCEPTIBLE
R21	2.6	2.1	2.1	IMPERCEPTIBLE
R22	2.6	2.4	2.4	IMPERCEPTIBLE
R23	4.6	2.6	2.7	IMPERCEPTIBLE
R24	4.8	2.6	2.8	IMPERCEPTIBLE
R25	4.9	2.7	2.9	IMPERCEPTIBLE
R26	5.1	2.7	3.0	IMPERCEPTIBLE
R27	7.8	3.8	4.3	SMALL INCREASE
R28	5.2	2.8	3.0	IMPERCEPTIBLE
R29	4.3	2.5	2.6	IMPERCEPTIBLE
R30	4.1	3.0	3.1	IMPERCEPTIBLE

Table 16.3.2: Annual mean  $PM_{10}$  and  $PM_{2.5}$  concentrations ( $\mu g m^{-3}$ ) at human health receptors for all assessed scenarios for Project 8 Stage 3 with DMRB impact magnitudes

Receptor ID	PM <sub>10</sub>					PM <sub>2.5</sub>				
	Base	DM	DS	Change (DS-DM)	Impact Magnitude	Base	DM	DS	Change (DS-DM)	Impact Magnitude
R1	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R2	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R3	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R4	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R5	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R6	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R7	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R8	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R9	7.5	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R10	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R11	7.6	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R12	7.6	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.7	4.6	0.0	IMPERCEPTIBLE
R13	7.7	7.4	7.4	0.0	IMPERCEPTIBLE	5.0	4.7	4.7	0.0	IMPERCEPTIBLE
R14	7.6	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.7	4.7	0.0	IMPERCEPTIBLE
R15	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R16	7.6	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.7	4.7	0.0	IMPERCEPTIBLE
R17	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R18	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R19	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R20	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R21	7.5	7.2	7.2	0.0	IMPERCEPTIBLE	4.8	4.6	4.6	0.0	IMPERCEPTIBLE
R22	7.5	7.3	7.3	0.0	IMPERCEPTIBLE	4.9	4.6	4.6	0.0	IMPERCEPTIBLE
R23	7.4	7.1	7.1	0.0	IMPERCEPTIBLE	4.6	4.4	4.4	0.0	IMPERCEPTIBLE
R24	7.4	7.1	7.1	0.0	IMPERCEPTIBLE	4.6	4.4	4.4	0.0	IMPERCEPTIBLE
R25	7.4	7.1	7.1	0.0	IMPERCEPTIBLE	4.7	4.4	4.4	0.0	IMPERCEPTIBLE
R26	7.4	7.1	7.1	0.0	IMPERCEPTIBLE	4.7	4.4	4.4	0.0	IMPERCEPTIBLE
R27	7.6	7.3	7.2	-0.1	IMPERCEPTIBLE	4.8	4.5	4.5	0.0	IMPERCEPTIBLE
R28	7.4	7.1	7.1	0.0	IMPERCEPTIBLE	4.7	4.4	4.4	0.0	IMPERCEPTIBLE
R29	7.3	7.1	7.1	0.0	IMPERCEPTIBLE	4.6	4.4	4.4	0.0	IMPERCEPTIBLE
R30	7.4	7.3	7.2	-0.1	IMPERCEPTIBLE	4.6	4.5	4.4	0.0	IMPERCEPTIBLE