

APPENDIX 14.8 – LIKELY SIGNIFICANT EFFECTS

Construction Phase

Table 14.8.1: Predicted 2025 NO₂ Annual Mean Concentrations

Receptor	NO ₂ Annual Mean Concentration (µg/m ³)		% Change of Objective	Concentration Change (µg/m ³)	Impact Descriptor
	Without Development	With Development			
R.01	15.8	15.9	0%	0.1	Negligible
R.02	14.7	14.8	0%	0.0	Negligible
R.03	20.4	20.6	0%	0.1	Negligible
R.04	20.2	20.3	0%	0.1	Negligible
R.05	19.5	19.5	0%	0.1	Negligible
R.06	17.8	17.9	0%	0.1	Negligible
R.07	18.4	18.5	0%	0.1	Negligible
R.08	18.1	18.2	0%	0.1	Negligible
R.09	18.3	18.5	1%	0.2	Negligible
R.10	25.4	25.7	1%	0.4	Negligible
R.11	20.2	20.3	0%	0.1	Negligible
R.12	27.8	28.0	0%	0.2	Negligible
R.13	30.9	31.1	1%	0.2	Negligible
R.14	26.0	26.2	0%	0.2	Negligible
R.15	23.6	23.7	0%	0.2	Negligible
R.16	26.0	26.2	0%	0.2	Negligible
R.17	24.4	24.6	0%	0.2	Negligible
R.18	18.9	19.0	0%	0.1	Negligible
R.19	23.2	23.4	0%	0.1	Negligible
R.20	18.4	18.4	0%	0.1	Negligible
R.21	18.0	18.0	0%	0.1	Negligible
R.22	22.7	22.8	0%	0.1	Negligible
R.23	19.4	19.6	0%	0.2	Negligible
R.24	20.1	20.3	1%	0.2	Negligible
R.25	19.7	19.9	1%	0.2	Negligible
R.26	19.0	19.2	0%	0.2	Negligible
R.27	19.8	20.0	1%	0.2	Negligible
R.28	15.5	15.6	0%	0.1	Negligible
R.30	20.0	20.3	1%	0.3	Negligible
C.01	18.9	19.1	0%	0.1	Negligible
C.02	22.2	22.5	1%	0.2	Negligible
C.03	18.8	18.9	0%	0.2	Negligible
C.04	19.1	19.3	0%	0.2	Negligible
C.05	26.3	26.5	1%	0.2	Negligible
C.06	23.6	23.7	0%	0.1	Negligible

Table 14.8.2: Predicted 2025 PM₁₀ Annual Mean Concentrations (µg/m³)

Receptor	PM ₁₀ Annual Mean Concentration		% Change of Objective	Concentration Change (µg/m ³)	Impact Descriptor
	Without Development	With Development			
R.01	17.3	17.3	0%	0.05	Negligible
R.02	16.6	16.6	0%	0.04	Negligible
R.03	20.4	20.5	0%	0.13	Negligible
R.04	20.1	20.2	0%	0.12	Negligible
R.05	19.2	19.2	0%	0.05	Negligible
R.06	18.3	18.3	0%	0.04	Negligible
R.07	17.9	17.9	0%	0.03	Negligible
R.08	17.8	17.8	0%	0.03	Negligible
R.09	21.5	21.7	0%	0.17	Negligible
R.10	25.4	25.7	1%	0.30	Negligible
R.11	20.5	20.6	0%	0.06	Negligible
R.12	25.9	26.0	0%	0.12	Negligible
R.13	27.9	28.1	0%	0.15	Negligible
R.14	24.7	24.8	0%	0.11	Negligible
R.15	23.2	23.3	0%	0.09	Negligible
R.16	24.8	24.9	0%	0.11	Negligible
R.17	23.8	23.9	0%	0.10	Negligible
R.18	18.4	18.4	0%	0.06	Negligible
R.19	21.4	21.5	0%	0.09	Negligible
R.20	18.0	18.1	0%	0.05	Negligible
R.21	20.8	20.9	0%	0.06	Negligible
R.22	19.4	19.6	0%	0.11	Negligible
R.23	18.3	18.4	0%	0.16	Negligible
R.24	19.0	19.2	0%	0.18	Negligible
R.25	18.7	18.9	0%	0.18	Negligible
R.26	18.3	18.5	0%	0.17	Negligible
R.27	18.8	19.0	0%	0.18	Negligible
R.28	15.6	15.7	0%	0.07	Negligible
R.30	17.7	17.9	0%	0.13	Negligible
C.01	18.1	18.1	0%	0.07	Negligible
C.02	19.5	19.6	0%	0.11	Negligible
C.03	18.0	18.1	0%	0.07	Negligible
C.04	21.5	21.6	0%	0.11	Negligible
C.05	21.2	21.3	0%	0.09	Negligible
C.06	20.0	20.1	0%	0.13	Negligible

Table 14.8.3: Predicted 2025 PM_{2.5} Annual Mean Concentrations (µg/m³)

Receptor	PM _{2.5} Annual Mean Concentration		% Change of Limit	Impact Descriptor
	Without Development	With Development		
R.01	10.6	10.6	0%	Negligible
R.02	10.2	10.2	0%	Negligible
R.03	12.1	12.2	0%	Negligible
R.04	12.0	12.1	0%	Negligible
R.05	11.5	11.5	0%	Negligible
R.06	11.0	11.1	0%	Negligible
R.07	10.8	10.8	0%	Negligible
R.08	10.8	10.8	0%	Negligible
R.09	12.0	12.1	0%	Negligible
R.10	14.1	14.3	1%	Negligible
R.11	11.8	11.8	0%	Negligible
R.12	14.7	14.8	0%	Negligible
R.13	15.8	15.9	0%	Negligible
R.14	14.1	14.1	0%	Negligible
R.15	13.2	13.3	0%	Negligible
R.16	14.1	14.2	0%	Negligible
R.17	13.5	13.6	0%	Negligible
R.18	11.3	11.3	0%	Negligible
R.19	12.9	13.0	0%	Negligible
R.20	11.1	11.1	0%	Negligible
R.21	11.8	11.9	0%	Negligible
R.22	11.8	11.9	0%	Negligible
R.23	11.2	11.3	0%	Negligible
R.24	11.6	11.7	0%	Negligible
R.25	11.4	11.5	0%	Negligible
R.26	11.2	11.3	0%	Negligible
R.27	11.5	11.6	0%	Negligible
R.28	9.8	9.8	0%	Negligible
R.30	10.7	10.8	0%	Negligible
C.01	10.9	11.0	0%	Negligible
C.02	11.7	11.8	0%	Negligible
C.03	10.9	10.9	0%	Negligible
C.04	12.0	12.0	0%	Negligible
C.05	12.3	12.4	0%	Negligible
C.06	12.1	12.2	0%	Negligible

Operational Phase

Table 14.8.4: Predicted 2025 NO₂ Annual Mean Concentrations (µg/m³)

Receptor	NO ₂ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
R.01	16.4	16.8	1%	Negligible
R.02	15.6	15.8	1%	Negligible
R.03	20.7	21.5	2-5%	Negligible
R.04	20.4	21.2	2-5%	Negligible
R.05	18.9	19.3	1%	Negligible
R.06	18.5	18.8	1%	Negligible
R.07	17.7	17.9	1%	Negligible
R.08	18.7	19.0	1%	Negligible
R.09	18.3	19.4	2-5%	Negligible
R.10	24.7	26.7	2-5%	Negligible
R.11	19.5	20.0	1%	Negligible
R.12	24.3	25.1	2-5%	Negligible
R.13	27.1	28.0	2-5%	Negligible
R.14	22.5	23.1	2-5%	Negligible
R.15	21.0	21.5	1%	Negligible
R.16	25.5	26.3	2-5%	Negligible
R.17	23.8	24.5	2-5%	Negligible
R.18	18.4	18.7	1%	Negligible
R.19	21.2	21.6	1%	Negligible
R.20	17.8	18.1	1%	Negligible
R.21	17.6	18.0	1%	Negligible
R.22	23.7	24.6	2-5%	Negligible
C.01	17.8	18.4	1%	Negligible
C.02	19.6	20.5	2-5%	Negligible
C.03	19.0	19.8	2-5%	Negligible
C.04	19.3	20.3	2-5%	Negligible
C.05	23.3	24.4	2-5%	Negligible
C.06	22.5	23.3	2-5%	Negligible

Table 14.8.5: Predicted 2025 PM₁₀ Annual Mean Concentrations (µg/m³)

Receptor	PM ₁₀ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
R.01	17.3	17.5	0%	Negligible
R.02	17.0	17.1	0%	Negligible
R.03	19.1	19.5	1%	Negligible

Receptor	PM ₁₀ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
R.04	18.9	19.3	1%	Negligible
R.05	18.1	18.3	0%	Negligible
R.06	18.1	18.2	0%	Negligible
R.07	17.5	17.6	0%	Negligible
R.08	17.8	17.9	0%	Negligible
R.09	20.2	20.8	1%	Negligible
R.10	22.6	23.8	2-5%	Negligible
R.11	19.9	20.0	0%	Negligible
R.12	21.5	21.8	1%	Negligible
R.13	22.6	22.9	1%	Negligible
R.14	20.9	21.1	1%	Negligible
R.15	20.3	20.5	0%	Negligible
R.16	22.0	22.3	1%	Negligible
R.17	21.4	21.7	1%	Negligible
R.18	17.1	17.2	0%	Negligible
R.19	18.2	18.4	0%	Negligible
R.20	16.9	17.0	0%	Negligible
R.21	19.7	19.8	0%	Negligible
R.22	18.5	19.1	1%	Negligible
C.01	17.6	17.7	0%	Negligible
C.02	18.0	18.3	1%	Negligible
C.03	17.9	18.2	1%	Negligible
C.04	20.7	21.1	1%	Negligible
C.05	19.6	19.9	1%	Negligible
C.06	18.1	18.6	1%	Negligible

Table 14.8.6: Predicted 2025 PM_{2.5} Annual Mean Concentrations (µg/m³)

Receptor	PM _{2.5} Annual Mean Concentration		% Change of Limit	Impact Descriptor
	Without Development	With Development		
R.01	10.7	10.8	0%	Negligible
R.02	10.5	10.6	0%	Negligible
R.03	11.5	11.8	1%	Negligible
R.04	11.5	11.7	1%	Negligible
R.05	11.0	11.1	0%	Negligible
R.06	11.0	11.0	0%	Negligible
R.07	10.7	10.7	0%	Negligible
R.08	10.8	10.9	0%	Negligible
R.09	11.3	11.6	2-5%	Negligible

Receptor	PM _{2.5} Annual Mean Concentration		% Change of Limit	Impact Descriptor
	Without Development	With Development		
R.10	12.5	13.2	2-5%	Negligible
R.11	11.4	11.5	1%	Negligible
R.12	12.3	12.5	1%	Negligible
R.13	12.9	13.1	1%	Negligible
R.14	11.9	12.1	1%	Negligible
R.15	11.7	11.8	1%	Negligible
R.16	12.6	12.7	1%	Negligible
R.17	12.2	12.4	1%	Negligible
R.18	10.7	10.7	0%	Negligible
R.19	11.3	11.4	1%	Negligible
R.20	10.5	10.6	0%	Negligible
R.21	11.2	11.3	0%	Negligible
R.22	11.4	11.7	2-5%	Negligible
C.01	10.7	10.8	0%	Negligible
C.02	11.0	11.1	1%	Negligible
C.03	10.9	11.0	1%	Negligible
C.04	11.5	11.7	1%	Negligible
C.05	11.3	11.5	1%	Negligible
C.06	11.2	11.4	1%	Negligible