

Appendix B-1

Construction Dust Assessment Methodology

Appendix B-1 – Air Quality – Construction Dust Assessment Methodology

Table B.1: Dust emission magnitude

Dust Emission Magnitude		
Small	Medium	Large
Demolition		
<ul style="list-style-type: none"> total building volume <20,000m³ construction material with low potential for dust release (e.g. metal cladding or timber) demolition activities <10m above ground demolition during wetter months 	<ul style="list-style-type: none"> total building volume 20,000 - 50,000m³ potentially dusty construction material demolition activities 10 - 20m above ground level 	<ul style="list-style-type: none"> total building volume >50,000m³ potentially dusty construction material (e.g. concrete) on-site crushing and screening demolition activities >20m above ground level
Earthworks		
<ul style="list-style-type: none"> total site area <2,500m² soil type with large grain size (e.g. sand) <5 heavy earth moving vehicles active at any one time formation of bunds <4m in height total material moved <10,000 tonnes earthworks during wetter months 	<ul style="list-style-type: none"> total site area 2,500m² - 10,000m² moderately dusty soil type (e.g. silt) 5 – 10 heavy earth moving vehicles active at any one time formation of bunds 4 - 8m in height total material moved 20,000 - 100,000 tonnes 	<ul style="list-style-type: none"> total site area >10,000m² potentially dusty soil type (e.g. clay, which will be prone to suspension when dry due to small particle size) >10 heavy earth moving vehicles active at any one time formation of bunds >8m in height total material moved >100,000 tonnes
Construction		
<ul style="list-style-type: none"> total building volume <25,000 m³ construction material with low potential for dust release (e.g. metal cladding or timber) 	<ul style="list-style-type: none"> total building volume 25,000 - 100,000m³ potentially dusty construction material (e.g. concrete) on-site concrete batching 	<ul style="list-style-type: none"> total building volume >100,000m³ on-site concrete batching sandblasting
Trackout		
<ul style="list-style-type: none"> <10 HDV (>3.5t) outward movements in any one day surface material with low potential for dust release unpaved road length <50m 	<ul style="list-style-type: none"> 10 – 50 HDV (>3.5t) outward movements in any one day moderately dusty surface material (e.g. high clay content) unpaved road length 50 – 100m; 	<ul style="list-style-type: none"> >50 HDV (>3.5t) outward movements in any one day potentially dusty surface material (e.g. high clay content) unpaved road length >100m

Table B.2: Sensitivity of the area to dust soiling effects

Receptor sensitivity	Number of receptors	Distance from the source (m)			
		< 20	< 50	< 100	< 350
High	> 100	High	High	Medium	Low
	10 – 100	High	Medium	Low	Low
	< 10	Medium	Low	Low	Low
Medium	> 1	Medium	Low	Low	Low
Low	> 1	Low	Low	Low	Low

Table B.3: Sensitivity of the area to human health impacts

Background PM ₁₀ concentrations (annual mean)	Number of receptors	Distance from the source (m)				
		< 20	< 50	< 100	< 200	< 350
High receptor sensitivity						
> 32µg/m ³	> 100	High	High	High	Medium	Low
	10 – 100			Medium	Low	
	< 10			Low	Low	
28 – 32µg/m ³	> 100	High	High	High	Medium	Low
	10 – 100			Medium	Low	
	< 10			Low	Low	
24 – 28µg/m ³	> 100	High	Medium	Low	Low	Low
	10 – 100					
	< 10					
< 24µg/m ³	> 100	Medium	Low	Low	Low	Low
	10 – 100	Low				
	< 10					
Medium receptor sensitivity						
> 32µg/m ³	> 10	High	Medium	Low	Low	Low

Background PM ₁₀ concentrations (annual mean)	Number of receptors	Distance from the source (m)				
		< 20	< 50	< 100	< 200	< 350
	< 10	Medium	Low			
28 – 32µg/m ³	>10	Medium	Low	Low	Low	Low
	1 -10	Low				
24 – 28µg/m ³	>10	Low	Low	Low	Low	Low
	1 -10					
< 24µg/m ³	>10	Low	Low	Low	Low	Low
	1 -10					
Low receptor sensitivity						
–	> 1	Low	Low	Low	Low	Low

Table B.4: Sensitivity of the area for ecological impacts

Receptor sensitivity	Distance from the source (m)	
	< 20	< 50
High	High	Medium
Medium	Medium	Low
Low	Low	Low

Table B.5: Risk of dust impacts

Sensitivity of area	Dust emission magnitude		
	Large	Medium	Small
Demolition			
High	High risk site	Medium risk site	Medium risk site
Medium	High risk site	Medium risk site	Low risk site
Low	Medium risk site	Low risk site	Negligible
Earthworks			
High	High risk site	Medium risk site	Low risk site
Medium	Medium risk site	Medium risk site	Low risk site
Low	Low risk site	Low risk site	Negligible
Construction			
High	High risk site	Medium risk site	Low risk site
Medium	Medium risk site	Medium risk site	Low risk site
Low	Low risk site	Low risk site	Negligible
Trackout			
High	High risk site	Medium risk site	Low risk site
Medium	Medium risk site	Low risk site	Negligible
Low	Low risk site	Low risk site	Negligible

Appendix B-2

Dispersion Modelling Results

Appendix B-2

Table B.1: Predicted Annual Mean NO₂ Concentrations and Impact Descriptor – Phase 1A

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1A		
S1	28.2	30.0	30.9	0.9	Slight adverse
S2	30.0	31.8	32.6	0.8	Slight adverse
S3	26.5	26.9	27.0	0.1	Negligible
S4	25.9	26.2	26.3	<0.1	Negligible
S5	28.5	28.9	28.9	<0.1	Negligible
S6	25.7	25.8	29.9	4.1	Slight adverse
S7	25.0	25.0	29.1	4.1	Slight adverse
S8	28.7	30.4	30.9	0.5	Negligible
S9	28.4	28.7	24.2	-4.6	Moderate beneficial
S10	29.2	29.5	24.6	-4.9	Moderate beneficial
S11	30.0	30.4	25.0	-5.4	Moderate beneficial
S12	26.3	26.5	26.4	<0.1	Negligible
S13	26.2	26.4	26.4	<0.1	Negligible
S14	27.1	26.7	26.6	<0.1	Negligible
S15	28.8	29.2	29.2	<0.1	Negligible
S16	28.4	28.8	28.8	<0.1	Negligible
S17	28.9	29.3	29.3	<0.1	Negligible
S18	28.5	28.9	28.9	<0.1	Negligible
S19	27.9	27.4	27.4	<0.1	Negligible
S20	26.8	26.8	26.8	<0.1	Negligible
S21	28.4	28.4	28.3	<0.1	Negligible
S22	28.4	28.5	28.5	<0.1	Negligible
S23	28.7	28.4	28.3	<0.1	Negligible
S24	31.1	31.5	27.0	-4.5	Moderate beneficial
S25	38.4	39.2	39.2	<0.1	Negligible

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1A		
S26	35.3	36.1	36.1	<0.1	Negligible
S27	37.4	38.3	38.3	<0.1	Negligible
S28	23.4	23.8	25.9	2.0	Negligible
S29	27.7	28.8	32.4	3.7	Moderate adverse
S30	24.1	24.2	25.5	1.3	Negligible
S31	24.4	24.6	24.6	<0.1	Negligible
S32	23.4	23.4	23.5	0.2	Negligible
S33	23.6	23.5	23.7	0.2	Negligible
S34	24.2	24.3	24.3	<0.1	Negligible
S35	25.2	25.4	25.4	<0.1	Negligible
S36	22.5	22.6	22.6	<0.1	Negligible
S37	26.6	26.8	26.8	<0.1	Negligible
S38	26.4	26.8	27.0	0.2	Negligible
S39	28.8	29.3	29.4	0.1	Negligible
S40	30.7	30.8	31.8	1.0	Slight adverse
S41	23.6	23.8	23.8	<0.1	Negligible
S42	23.92	24.1	24.1	<0.1	Negligible
S43	35.03	35.5	35.6	0.1	Negligible
S44	36	36.5	36.5	<0.1	Negligible
S45	33.45	34	34.0	<0.1	Negligible
S46	33.51	34.1	34.2	0.1	Negligible
S47	26.78	26.8	26.8	<0.1	Negligible

Table B.2: Predicted Annual Mean PM10 Concentrations and Impact Descriptor – Phase 1A

Receptor	Predicted Annual Mean PM ₁₀ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1A		
S1	20.2	20.5	20.5	0.1	Negligible
S2	20.5	20.7	20.8	0.1	Negligible
S3	20.0	20.1	20.1	<0.1	Negligible
S4	20.0	20.0	20.0	<0.1	Negligible
S5	20.4	20.5	20.5	<0.1	Negligible
S6	19.8	19.8	20.4	0.6	Negligible
S7	19.7	19.7	20.3	0.6	Negligible
S8	20.3	20.5	20.5	<0.1	Negligible
S9	20.2	20.3	19.6	-0.7	Negligible
S10	20.3	20.4	19.6	-0.8	Negligible
S11	20.5	20.5	19.7	-0.8	Negligible
S12	19.9	19.9	19.9	<0.1	Negligible
S13	19.9	19.9	19.9	<0.1	Negligible
S14	20.1	20.0	20.0	<0.1	Negligible
S15	20.4	20.5	20.5	<0.1	Negligible
S16	20.4	20.4	20.4	<0.1	Negligible
S17	20.4	20.5	20.5	<0.1	Negligible
S18	20.4	20.4	20.4	<0.1	Negligible
S19	20.1	20.1	20.1	<0.1	Negligible
S20	20.0	20.0	20.0	<0.1	Negligible
S21	20.2	20.2	20.2	<0.1	Negligible
S22	20.2	20.2	20.2	<0.1	Negligible
S23	20.4	20.3	20.3	<0.1	Negligible
S24	20.7	20.7	20.0	-0.7	Negligible
S25	22.0	22.2	22.2	<0.1	Negligible
S26	21.5	21.7	21.6	<0.1	Negligible

S27	21.9	22.0	22.0	<0.1	Negligible
S28	19.5	19.6	19.8	0.3	Negligible
S29	20.2	20.4	21.0	0.6	Negligible
S30	19.6	19.6	19.8	0.2	Negligible
S31	19.7	19.7	19.7	<0.1	Negligible
S32	19.5	19.5	19.5	<0.1	Negligible
S33	19.5	19.5	19.6	<0.1	Negligible
S34	19.6	19.6	19.6	<0.1	Negligible
S35	19.7	19.7	19.7	<0.1	Negligible
S36	19.4	19.4	19.4	<0.1	Negligible
S37	19.9	20.0	20.0	<0.1	Negligible
S38	20.0	20.1	20.1	<0.1	Negligible
S39	20.3	20.4	20.4	<0.1	Negligible
S40	20.5	20.5	20.6	0.1	Negligible
S41	19.5	19.6	19.6	<0.1	Negligible
S42	19.6	19.6	19.6	<0.1	Negligible
S43	21.5	21.6	21.6	<0.1	Negligible
S44	21.4	21.5	21.5	<0.1	Negligible
S45	21.3	21.4	21.4	<0.1	Negligible
S46	21.1	21.2	21.2	<0.1	Negligible
S47	20.0	20.0	20.0	<0.1	Negligible

**Table B.3: Predicted Annual Mean PM2.5 Concentrations and Impact Descriptor
– Phase 1A**

Receptor	Predicted Annual Mean PM _{2.5} Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1A		
S1	6.4	6.6	6.6	<0.1	Negligible
S2	6.6	6.7	6.8	<0.1	Negligible
S3	6.3	6.4	6.4	<0.1	Negligible
S4	6.3	6.3	6.3	<0.1	Negligible
S5	6.5	6.6	6.6	<0.1	Negligible
S6	6.2	6.2	6.6	0.4	Negligible
S7	6.1	6.2	6.5	0.4	Negligible
S8	6.5	6.6	6.6	<0.1	Negligible
S9	6.4	6.5	6.0	-0.4	Negligible
S10	6.5	6.6	6.1	-0.5	Negligible
S11	6.6	6.6	6.1	-0.5	Negligible
S12	6.3	6.3	6.3	<0.1	Negligible
S13	6.3	6.3	6.3	<0.1	Negligible
S14	6.4	6.3	6.3	<0.1	Negligible
S15	6.5	6.6	6.6	<0.1	Negligible
S16	6.5	6.6	6.6	<0.1	Negligible
S17	6.6	6.6	6.6	<0.1	Negligible
S18	6.5	6.6	6.6	<0.1	Negligible
S19	6.4	6.4	6.4	<0.1	Negligible
S20	6.3	6.3	6.3	<0.1	Negligible
S21	6.5	6.5	6.5	<0.1	Negligible
S22	6.5	6.5	6.5	<0.1	Negligible
S23	6.5	6.5	6.5	<0.1	Negligible
S24	6.7	6.8	6.3	-0.4	Negligible
S25	7.5	7.6	7.6	<0.1	Negligible
S26	7.2	7.3	7.3	<0.1	Negligible

S27	7.4	7.5	7.5	<0.1	Negligible
S28	6.0	6.0	6.2	0.2	Negligible
S29	6.4	6.5	6.9	0.3	Negligible
S30	6.1	6.1	6.2	0.1	Negligible
S31	6.1	6.1	6.1	<0.1	Negligible
S32	6.0	6.0	6.0	<0.1	Negligible
S33	6.0	6.0	6.0	<0.1	Negligible
S34	6.0	6.1	6.1	<0.1	Negligible
S35	6.1	6.1	6.1	<0.1	Negligible
S36	5.9	5.9	5.9	<0.1	Negligible
S37	6.3	6.3	6.3	<0.1	Negligible
S38	6.3	6.3	6.4	<0.1	Negligible
S39	6.5	6.5	6.5	<0.1	Negligible
S40	6.6	6.6	6.7	0.1	Negligible
S41	6.0	6.1	6.1	<0.1	Negligible
S42	6.1	6.1	6.1	<0.1	Negligible
S43	7.2	7.3	7.3	<0.1	Negligible
S44	7.2	7.2	7.2	<0.1	Negligible
S45	7.1	7.1	7.1	<0.1	Negligible
S46	6.9	7.0	7.0	<0.1	Negligible
S47	6.3	6.3	6.3	<0.1	Negligible

Table B.4: Predicted Annual Mean NO₂ Concentrations and Impact Descriptors – Phase 1B

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S1	28.2	30.0	30.0	-0.1	Negligible
S2	30.0	31.8	31.7	-0.1	Negligible
S3	26.5	26.9	26.9	<0.1	Negligible
S4	25.9	26.2	26.2	<0.1	Negligible
S5	28.5	28.9	28.9	<0.1	Negligible
S6	25.7	25.8	25.8	<0.1	Negligible
S7	25.0	25.0	25.0	<0.1	Negligible
S8	28.7	30.4	30.3	-0.1	Negligible
S9	28.4	28.7	28.6	-0.1	Negligible
S10	29.2	29.5	29.4	-0.1	Negligible
S11	30.0	30.4	30.2	-0.2	Negligible
S12	26.3	26.5	25.2	-1.3	Negligible
S13	26.2	26.4	25.5	-0.9	Negligible
S14	27.1	26.7	26.9	0.2	Negligible
S15	28.8	29.2	29.2	-0.1	Negligible
S16	28.4	28.8	28.7	-0.1	Negligible
S17	28.9	29.3	29.1	-0.2	Negligible
S18	28.5	28.9	28.8	-0.1	Negligible
S19	27.9	27.4	27.4	-0.1	Negligible
S20	26.8	26.8	25.9	-0.9	Negligible
S21	28.4	28.4	30.0	1.7	Negligible
S22	28.4	28.5	30.3	1.8	Negligible
S23	28.7	28.4	28.7	0.3	Negligible
S24	31.1	31.5	31.4	-0.1	Negligible
S25	38.4	39.2	39.0	-0.2	Negligible
S26	35.3	36.1	36.2	0.2	Negligible

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S27	37.4	38.3	38.4	0.2	Negligible
S28	23.4	23.8	23.8	<0.1	Negligible
S29	27.7	28.8	28.7	<0.1	Negligible
S30	24.1	24.2	24.2	<0.1	Negligible
S31	24.4	24.6	24.6	<0.1	Negligible
S32	23.4	23.4	23.3	<0.1	Negligible
S33	23.6	23.5	23.5	<0.1	Negligible
S34	24.2	24.3	24.3	<0.1	Negligible
S35	25.2	25.4	25.4	<0.1	Negligible
S36	22.5	22.6	22.6	<0.1	Negligible
S37	26.6	26.8	26.7	<0.1	Negligible
S38	26.4	26.8	26.8	<0.1	Negligible
S39	28.8	29.3	29.3	<0.1	Negligible
S40	30.7	30.8	30.7	-0.1	Negligible
S41	23.6	23.8	23.7	-0.1	Negligible
S42	23.92	24.1	24.1	<0.1	Negligible
S43	35.03	35.5	35.6	0.1	Negligible
S44	36	36.5	36.6	0.1	Negligible
S45	33.45	34	34.0	<0.1	Negligible
S46	33.51	34.1	34.1	<0.1	Negligible
S47	26.78	26.8	25.7	-1.1	Negligible

**Table B.5: Predicted Annual Mean PM10 Concentrations and Impact Descriptors
– Phase 1B**

Receptor	Predicted Annual Mean PM ₁₀ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S1	20.2	20.5	20.4	<0.1	Negligible
S2	20.5	20.7	20.7	<0.1	Negligible
S3	20.0	20.1	20.1	<0.1	Negligible
S4	20.0	20.0	20.0	<0.1	Negligible
S5	20.4	20.5	20.4	<0.1	Negligible
S6	19.8	19.8	19.8	<0.1	Negligible
S7	19.7	19.7	19.7	<0.1	Negligible
S8	20.3	20.5	20.5	<0.1	Negligible
S9	20.2	20.3	20.2	<0.1	Negligible
S10	20.3	20.4	20.4	<0.1	Negligible
S11	20.5	20.5	20.5	<0.1	Negligible
S12	19.9	19.9	19.7	-0.2	Negligible
S13	19.9	19.9	19.8	-0.1	Negligible
S14	20.1	20.0	20.0	<0.1	Negligible
S15	20.4	20.5	20.4	<0.1	Negligible
S16	20.4	20.4	20.4	<0.1	Negligible
S17	20.4	20.5	20.4	<0.1	Negligible
S18	20.4	20.4	20.4	<0.1	Negligible
S19	20.1	20.1	20.0	-0.1	Negligible
S20	20.0	20.0	19.8	-0.1	Negligible
S21	20.2	20.2	20.4	0.2	Negligible
S22	20.2	20.2	20.5	0.3	Negligible
S23	20.4	20.3	20.3	<0.1	Negligible
S24	20.7	20.7	20.7	<0.1	Negligible
S25	22.0	22.2	22.2	<0.1	Negligible
S26	21.5	21.7	21.7	<0.1	Negligible

Receptor	Predicted Annual Mean PM ₁₀ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S27	21.9	22.0	22.0	<0.1	Negligible
S28	19.5	19.6	19.6	<0.1	Negligible
S29	20.2	20.4	20.4	<0.1	Negligible
S30	19.6	19.6	19.6	<0.1	Negligible
S31	19.7	19.7	19.7	<0.1	Negligible
S32	19.5	19.5	19.5	<0.1	Negligible
S33	19.5	19.5	19.5	<0.1	Negligible
S34	19.6	19.6	19.6	<0.1	Negligible
S35	19.7	19.7	19.7	<0.1	Negligible
S36	19.4	19.4	19.4	<0.1	Negligible
S37	19.9	20.0	20.0	<0.1	Negligible
S38	20.0	20.1	20.1	<0.1	Negligible
S39	20.3	20.4	20.4	<0.1	Negligible
S40	20.5	20.5	20.5	<0.1	Negligible
S41	19.5	19.6	19.6	<0.1	Negligible
S42	19.6	19.6	19.6	<0.1	Negligible
S43	21.5	21.6	21.6	<0.1	Negligible
S44	21.4	21.5	21.5	<0.1	Negligible
S45	21.3	21.4	21.4	<0.1	Negligible
S46	21.1	21.2	21.1	<0.1	Negligible
S47	20.0	20.0	19.8	-0.2	Negligible

**Table B.6: Predicted Annual Mean PM2.5 Concentrations and Impact Descriptors
– Phase 1B**

Receptor	Predicted Annual Mean PM _{2.5} Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S1	6.4	6.6	6.6	<0.1	Negligible
S2	6.6	6.7	6.7	<0.1	Negligible
S3	6.3	6.4	6.4	<0.1	Negligible
S4	6.3	6.3	6.3	<0.1	Negligible
S5	6.5	6.6	6.6	<0.1	Negligible
S6	6.2	6.2	6.2	<0.1	Negligible
S7	6.1	6.2	6.1	<0.1	Negligible
S8	6.5	6.6	6.6	<0.1	Negligible
S9	6.4	6.5	6.5	<0.1	Negligible
S10	6.5	6.6	6.5	<0.1	Negligible
S11	6.6	6.6	6.6	<0.1	Negligible
S12	6.3	6.3	6.2	-0.1	Negligible
S13	6.3	6.3	6.2	-0.1	Negligible
S14	6.4	6.3	6.3	<0.1	Negligible
S15	6.5	6.6	6.6	<0.1	Negligible
S16	6.5	6.6	6.5	<0.1	Negligible
S17	6.6	6.6	6.6	<0.1	Negligible
S18	6.5	6.6	6.5	<0.1	Negligible
S19	6.4	6.4	6.4	<0.1	Negligible
S20	6.3	6.3	6.2	-0.1	Negligible
S21	6.5	6.5	6.6	0.1	Negligible
S22	6.5	6.5	6.6	0.2	Negligible
S23	6.5	6.5	6.5	<0.1	Negligible
S24	6.7	6.8	6.7	<0.1	Negligible
S25	7.5	7.6	7.6	<0.1	Negligible
S26	7.2	7.3	7.3	<0.1	Negligible

Receptor	Predicted Annual Mean PM _{2.5} Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	Phase 1B		
S27	7.4	7.5	7.5	<0.1	Negligible
S28	6.0	6.0	6.0	<0.1	Negligible
S29	6.4	6.5	6.5	<0.1	Negligible
S30	6.1	6.1	6.1	<0.1	Negligible
S31	6.1	6.1	6.1	<0.1	Negligible
S32	6.0	6.0	6.0	<0.1	Negligible
S33	6.0	6.0	6.0	<0.1	Negligible
S34	6.0	6.1	6.1	<0.1	Negligible
S35	6.1	6.1	6.1	<0.1	Negligible
S36	5.9	5.9	6.0	<0.1	Negligible
S37	6.3	6.3	6.3	<0.1	Negligible
S38	6.3	6.3	6.3	<0.1	Negligible
S39	6.5	6.5	6.5	<0.1	Negligible
S40	6.6	6.6	6.6	<0.1	Negligible
S41	6.0	6.1	6.0	<0.1	Negligible
S42	6.1	6.1	6.1	<0.1	Negligible
S43	7.2	7.3	7.3	<0.1	Negligible
S44	7.2	7.2	7.2	<0.1	Negligible
S45	7.1	7.1	7.1	<0.1	Negligible
S46	6.9	7.0	7.0	<0.1	Negligible
S47	6.3	6.3	6.2	-0.1	Negligible

Table B.7: Predicted Annual Mean NO₂ Concentrations and Impact Descriptors - DS

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S1	28.2	30.0	30.0	<0.1	Negligible
S2	30.0	31.8	31.8	<0.1	Negligible
S3	26.5	26.9	26.9	<0.1	Negligible
S4	25.9	26.2	26.2	<0.1	Negligible
S5	28.5	28.9	28.9	<0.1	Negligible
S6	25.7	25.8	25.8	<0.1	Negligible
S7	25.0	25.0	25.0	<0.1	Negligible
S8	28.7	30.4	30.4	<0.1	Negligible
S9	28.4	28.7	28.7	<0.1	Negligible
S10	29.2	29.5	29.5	<0.1	Negligible
S11	30.0	30.4	30.4	<0.1	Negligible
S12	26.3	26.5	26.3	-0.1	Negligible
S13	26.2	26.4	26.3	-0.1	Negligible
S14	27.1	26.7	26.6	-0.1	Negligible
S15	28.8	29.2	29.2	<0.1	Negligible
S16	28.4	28.8	28.8	<0.1	Negligible
S17	28.9	29.3	29.3	<0.1	Negligible
S18	28.5	28.9	28.9	<0.1	Negligible
S19	27.9	27.4	27.2	-0.2	Negligible
S20	26.8	26.8	26.7	-0.2	Negligible
S21	28.4	28.4	28.2	-0.1	Negligible
S22	28.4	28.5	28.4	-0.1	Negligible
S23	28.7	28.4	28.3	-0.1	Negligible
S24	31.1	31.5	31.5	<0.1	Negligible
S25	38.4	39.2	39.3	<0.1	Negligible
S26	35.3	36.1	36.0	-0.1	Negligible

Receptor	Predicted Annual Mean NO ₂ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S27	37.4	38.3	38.2	-0.1	Negligible
S28	23.4	23.8	23.8	<0.1	Negligible
S29	27.7	28.8	28.7	<0.1	Negligible
S30	24.1	24.2	24.2	<0.1	Negligible
S31	24.4	24.6	24.6	<0.1	Negligible
S32	23.4	23.4	23.4	<0.1	Negligible
S33	23.6	23.5	23.5	<0.1	Negligible
S34	24.2	24.3	24.3	<0.1	Negligible
S35	25.2	25.4	25.4	<0.1	Negligible
S36	22.5	22.6	22.6	0.1	Negligible
S37	26.6	26.8	26.8	<0.1	Negligible
S38	26.4	26.8	26.8	<0.1	Negligible
S39	28.8	29.3	29.3	<0.1	Negligible
S40	30.7	30.8	30.8	<0.1	Negligible
S41	23.6	23.8	23.8	<0.1	Negligible
S42	23.92	24.1	24.1	<0.1	Negligible
S43	35.03	35.5	35.5	<0.1	Negligible
S44	36	36.5	36.5	<0.1	Negligible
S45	33.45	34	34.0	<0.1	Negligible
S46	33.51	34.1	34.1	<0.1	Negligible
S47	26.78	26.8	26.7	-0.2	Negligible

**Table B.8: Predicted Annual Mean PM10 Concentrations and Impact Descriptors
- DS**

Receptor	Predicted Annual Mean PM ₁₀ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S1	20.2	20.5	20.5	<0.1	Negligible
S2	20.5	20.7	20.7	<0.1	Negligible
S3	20.0	20.1	20.1	<0.1	Negligible
S4	20.0	20.0	20.0	<0.1	Negligible
S5	20.4	20.5	20.5	<0.1	Negligible
S6	19.8	19.8	19.8	<0.1	Negligible
S7	19.7	19.7	19.7	<0.1	Negligible
S8	20.3	20.5	20.5	<0.1	Negligible
S9	20.2	20.3	20.3	<0.1	Negligible
S10	20.3	20.4	20.4	<0.1	Negligible
S11	20.5	20.5	20.5	<0.1	Negligible
S12	19.9	19.9	19.9	<0.1	Negligible
S13	19.9	19.9	19.9	<0.1	Negligible
S14	20.1	20.0	20.0	<0.1	Negligible
S15	20.4	20.5	20.5	<0.1	Negligible
S16	20.4	20.4	20.4	<0.1	Negligible
S17	20.4	20.5	20.5	<0.1	Negligible
S18	20.4	20.4	20.4	<0.1	Negligible
S19	20.1	20.1	20.0	<0.1	Negligible
S20	20.0	20.0	19.9	<0.1	Negligible
S21	20.2	20.2	20.2	<0.1	Negligible
S22	20.2	20.2	20.2	<0.1	Negligible
S23	20.4	20.3	20.3	<0.1	Negligible
S24	20.7	20.7	20.7	<0.1	Negligible
S25	22.0	22.2	22.2	<0.1	Negligible
S26	21.5	21.7	21.6	<0.1	Negligible

Receptor	Predicted Annual Mean PM ₁₀ Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S27	21.9	22.0	22.0	<0.1	Negligible
S28	19.5	19.6	19.6	<0.1	Negligible
S29	20.2	20.4	20.4	<0.1	Negligible
S30	19.6	19.6	19.6	<0.1	Negligible
S31	19.7	19.7	19.7	<0.1	Negligible
S32	19.5	19.5	19.5	<0.1	Negligible
S33	19.5	19.5	19.5	<0.1	Negligible
S34	19.6	19.6	19.6	<0.1	Negligible
S35	19.7	19.7	19.7	<0.1	Negligible
S36	19.4	19.4	19.4	<0.1	Negligible
S37	19.9	20.0	20.0	<0.1	Negligible
S38	20.0	20.1	20.1	<0.1	Negligible
S39	20.3	20.4	20.4	<0.1	Negligible
S40	20.5	20.5	20.5	<0.1	Negligible
S41	19.5	19.6	19.6	<0.1	Negligible
S42	19.6	19.6	19.6	<0.1	Negligible
S43	21.5	21.6	21.6	<0.1	Negligible
S44	21.4	21.5	21.5	<0.1	Negligible
S45	21.3	21.4	21.4	<0.1	Negligible
S46	21.1	21.2	21.1	<0.1	Negligible
S47	20.0	20.0	19.9	<0.1	Negligible

**Table B.9: Predicted Annual Mean PM2.5 Concentrations and Impact Descriptors
- DS**

Receptor	Predicted Annual Mean PM _{2.5} Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S1	6.4	6.6	6.6	<0.1	Negligible
S2	6.6	6.7	6.7	<0.1	Negligible
S3	6.3	6.4	6.4	<0.1	Negligible
S4	6.3	6.3	6.3	<0.1	Negligible
S5	6.5	6.6	6.6	<0.1	Negligible
S6	6.2	6.2	6.2	<0.1	Negligible
S7	6.1	6.2	6.2	<0.1	Negligible
S8	6.5	6.6	6.6	<0.1	Negligible
S9	6.4	6.5	6.5	<0.1	Negligible
S10	6.5	6.6	6.6	<0.1	Negligible
S11	6.6	6.6	6.6	<0.1	Negligible
S12	6.3	6.3	6.3	<0.1	Negligible
S13	6.3	6.3	6.3	<0.1	Negligible
S14	6.4	6.3	6.3	<0.1	Negligible
S15	6.5	6.6	6.6	<0.1	Negligible
S16	6.5	6.6	6.6	<0.1	Negligible
S17	6.6	6.6	6.6	<0.1	Negligible
S18	6.5	6.6	6.6	<0.1	Negligible
S19	6.4	6.4	6.4	<0.1	Negligible
S20	6.3	6.3	6.3	<0.1	Negligible
S21	6.5	6.5	6.5	<0.1	Negligible
S22	6.5	6.5	6.5	<0.1	Negligible
S23	6.5	6.5	6.5	<0.1	Negligible
S24	6.7	6.8	6.8	<0.1	Negligible
S25	7.5	7.6	7.6	<0.1	Negligible
S26	7.2	7.3	7.3	<0.1	Negligible

Receptor	Predicted Annual Mean PM _{2.5} Concentrations (µg/m ³)			Change in Concentration (µg/m ³)	Impact Descriptor
	Base	DM	DS		
S27	7.4	7.5	7.5	<0.1	Negligible
S28	6.0	6.0	6.0	<0.1	Negligible
S29	6.4	6.5	6.5	<0.1	Negligible
S30	6.1	6.1	6.1	<0.1	Negligible
S31	6.1	6.1	6.1	<0.1	Negligible
S32	6.0	6.0	6.0	<0.1	Negligible
S33	6.0	6.0	6.0	<0.1	Negligible
S34	6.0	6.1	6.1	<0.1	Negligible
S35	6.1	6.1	6.1	<0.1	Negligible
S36	5.9	5.9	6.0	<0.1	Negligible
S37	6.3	6.3	6.3	<0.1	Negligible
S38	6.3	6.3	6.3	<0.1	Negligible
S39	6.5	6.5	6.5	<0.1	Negligible
S40	6.6	6.6	6.6	<0.1	Negligible
S41	6.0	6.1	6.1	<0.1	Negligible
S42	6.1	6.1	6.1	<0.1	Negligible
S43	7.2	7.3	7.3	<0.1	Negligible
S44	7.2	7.2	7.2	<0.1	Negligible
S45	7.1	7.1	7.1	<0.1	Negligible
S46	6.9	7.0	7.0	<0.1	Negligible
S47	6.3	6.3	6.3	<0.1	Negligible