

Air Quality Bulletin

Southern Queensland

June 2025

DELIVERING
FOR QUEENSLAND



Queensland
Government

Prepared by: Air Quality Monitoring
Department of the Environment, Tourism
Science and Innovation.

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November 2025

Introduction

Air quality monitoring gathers information on the quality of the air environment. The objectives of the monitoring are to check compliance with ambient air quality guidelines, identify long-term trends in air quality, investigate local air quality concerns and assess the effectiveness of air quality management strategies.

Air quality monitoring was carried out by the Queensland Government at 18 sites in Southern Queensland during June 2025. Data from Ampol Refineries (Qld) Ltd's monitoring sites at Wynnum North, Wynnum West and Lytton along with the Department of Transport and Main Roads' monitoring sites at South Brisbane and at Coomera and Parkwood on the Gold Coast are also included.

Air pollutants monitored include carbon monoxide, ozone, nitrogen oxides, sulfur dioxide, visibility-reducing particles, PM₁₀ (particles less than 10µm in diameter) and PM_{2.5} (particles less than 2.5µm in diameter). Dustfall (dust particles that rapidly settle from the air due to their large size) and total suspended particulate (TSP) matter that can cause nuisance were also monitored.

Air quality summary tables

Tables 3 to 11 present summaries of air quality data for each month of the preceding 12 months. These tables show the month-to-month variation in air quality. A monthly entry is given when at least three-fifths of the maximum possible number of observations during the month are available. When data is not available for the entire month this is indicated by the abbreviation 'n.d.' (no data). A dash is inserted when less than three-fifths of the data are available. Where data is not recorded, the reason for the low data availability is summarised in Table 12 at the end of this bulletin.

Table 1. Air pollutants monitored at Southern Queensland ambient air quality monitoring sites.

	Nitrogen dioxide	Sulfur dioxide	Carbon monoxide	Ozone	PM ₁₀	PM _{2.5}	Visibility-reducing particles	TSP	Dustfall
Maryborough					✓	✓			
Nambour					✓	✓			
Mountain Creek	✓			✓	✓	✓	✓		
Deception Bay	✓			✓	✓	✓			
Deagon	✓			✓	✓	✓	✓		
Wynnum North (industry)	✓	✓			✓	✓			
Wynnum West (industry)		✓			✓	✓			
Lytton (industry)		✓			✓	✓			
Cannon Hill	✓			✓	✓	✓		✓	✓
Brisbane CBD					✓	✓	✓		
South Brisbane	✓		✓		✓	✓			
Woolloongabba	✓		✓		✓	✓			
Sherwood									✓
Rocklea	✓			✓	✓	✓	✓		
Springwood	✓	✓		✓	✓	✓			
North Maclean	✓			✓	✓	✓			
Southport	✓			✓	✓	✓			
Coomera	✓		✓		✓	✓			
Parkwood	✓		✓		✓	✓			
Raceview	✓	✓		✓	✓	✓	✓		
Mutdapilly	✓			✓	✓	✓			
Toowoomba (Brook St)									✓
Toowoomba (Mort St)									✓
Toowoomba (Tor St)					✓	✓			

Reporting Protocol

Data presented in this bulletin are based on clock hours. Hourly or other averages are constrained to start and finish on a clock hour.

Air quality summary graphs

Figures 1 to 27 summarise available air quality data for each day of June. Only the maximum recorded level for each day is used to show the day-to-day variation in air quality. Figures 28 and 29 show the averaged daily dust deposition rate for June.

Guidelines

Air quality measurements are compared against air quality objectives contained in the Environmental Protection (Air) Policy 2019 and the Environmental Protection (Air) Amendment Policy 2024 (in force from September 2024 or January 2025) (EPP (Air)) to assess whether pollutants levels could affect health and wellbeing. The EPP (Air) visibility objective is used to assess the impact of visibility-reducing particles on visual air quality. Limit values for TSP and dustfall specified in the Department of the Environment, Tourism, Science and Innovation (DETSI) guideline document. *Application requirements for activities with impacts to air* (Air Impacts Guideline) are used to assess dust nuisance effects. The relevant guidelines are shown in the air quality summary table for each pollutant.

Compliance with air quality guidelines

During June, measured pollutant levels did not exceed the relevant EPP (Air) air quality objectives, or DETSI dust nuisance limit values, at Queensland Government and industry air monitoring sites in Southern Queensland.

Table 2. Number of occasions during June 2025 when measured levels exceeded EPP (Air) objectives for carbon monoxide, ozone, nitrogen dioxide, sulfur dioxide, PM₁₀, PM_{2.5}, visibility-reducing particles and TSP, as well as the DETSI nuisance dust limit values for TSP and dustfall, at Queensland Government and industry air monitoring sites in Southern Queensland.

Air pollutant	Averaging period	Exceedences
Carbon monoxide	<i>EPP (Air)</i> 8-hour	0
Ozone	<i>EPP (Air)</i> 8-hour	0
Nitrogen dioxide	<i>EPP (Air)</i> Annual 1-hour	0 0
Sulfur dioxide	<i>EPP (Air)</i> 24-hour 1-hour	0 0
Visibility-reducing particles (refers to protecting aesthetic environment, not health and wellbeing)	<i>EPP (Air)</i> 1-hour	0
PM _{2.5}	<i>EPP (Air)</i> Annual 24-hour	0 0
PM ₁₀	<i>EPP (Air)</i> Annual 24-hour	0 0
TSP (24-hour period refers to dust nuisance, not health and wellbeing)	<i>EPP (Air)</i> Annual <i>DETSI limit</i> 24-hour	0 0
Dustfall (30-day period refers to dust nuisance, not health and wellbeing)	<i>DETSI limit</i> 30-day	0

Measured ambient concentrations

Carbon monoxide

Figure 1. Ambient concentrations of carbon monoxide at South Brisbane, Woolloongabba, Coomera and Parkwood sites. Daily maximum 8-hour average concentrations (ppm), June 2025.

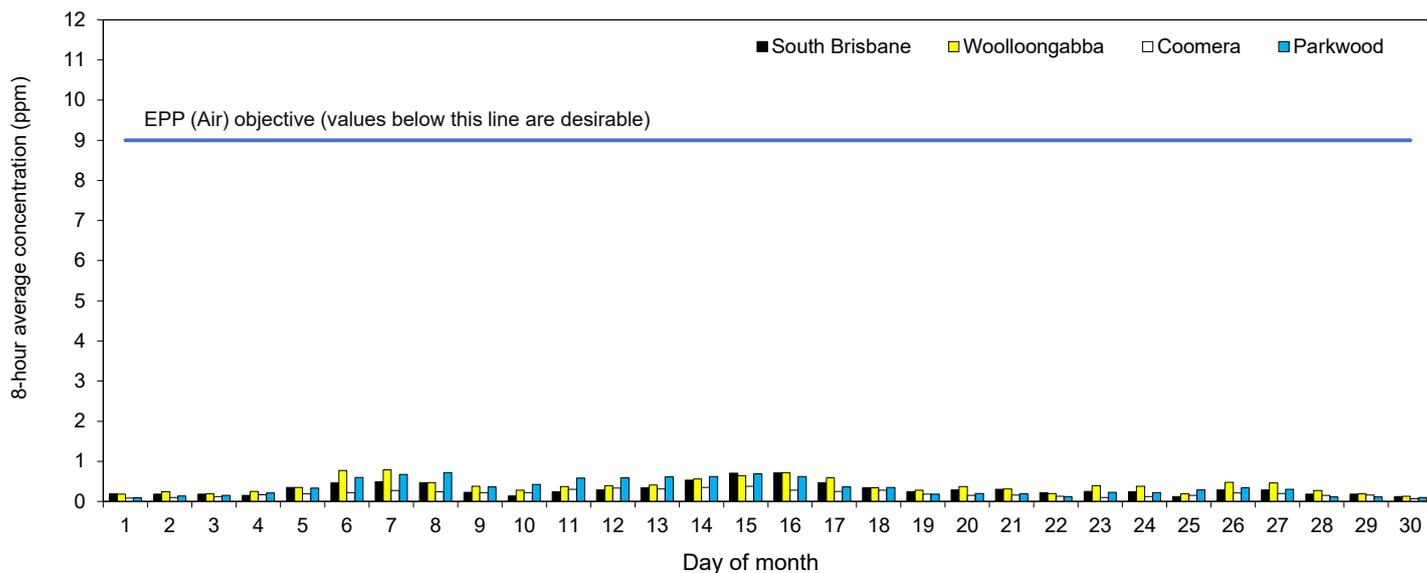


Table 3. Ambient concentrations of carbon monoxide. Monthly maximum 8-hour average concentrations (ppm), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
South Brisbane												
Maximum 8-hour	0.55	0.66	0.39	0.40	0.56	0.30	0.26	0.33	0.29	0.37	0.41	0.71
% I.A.	100	100	100	100	100	94	92	96	100	99	100	100
Woolloongabba												
Maximum 8-hour	0.41	0.46	0.41	0.32	0.36	0.26	0.30	0.28	0.30	0.44	0.45	0.79
% I.A.	100	99	100	88	100	100	100	100	100	100	100	100
Coomera												
Maximum 8-hour	0.26	0.24	0.27	0.14	0.15	0.11	0.11	0.11	0.15	0.22	-	0.38
% I.A.	100	100	100	100	100	100	99	100	96	100	10	99
Parkwood												
Maximum 8-hour	0.53	0.41	0.40	0.25	0.29	0.32	0.28	0.24	0.44	0.44	0.53	0.72
% I.A.	100	100	97	100	100	100	99	99	89	100	100	100
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
The EPP (Air) air quality objective for carbon monoxide is an 8-hour average of 9ppm.												

Ozone (photochemical oxidants)

Figure 2. Ambient concentrations of ozone at Mountain Creek, Deception Bay, Deagon and Cannon Hill sites. Daily maximum 8-hour average concentrations (ppm), June 2025.

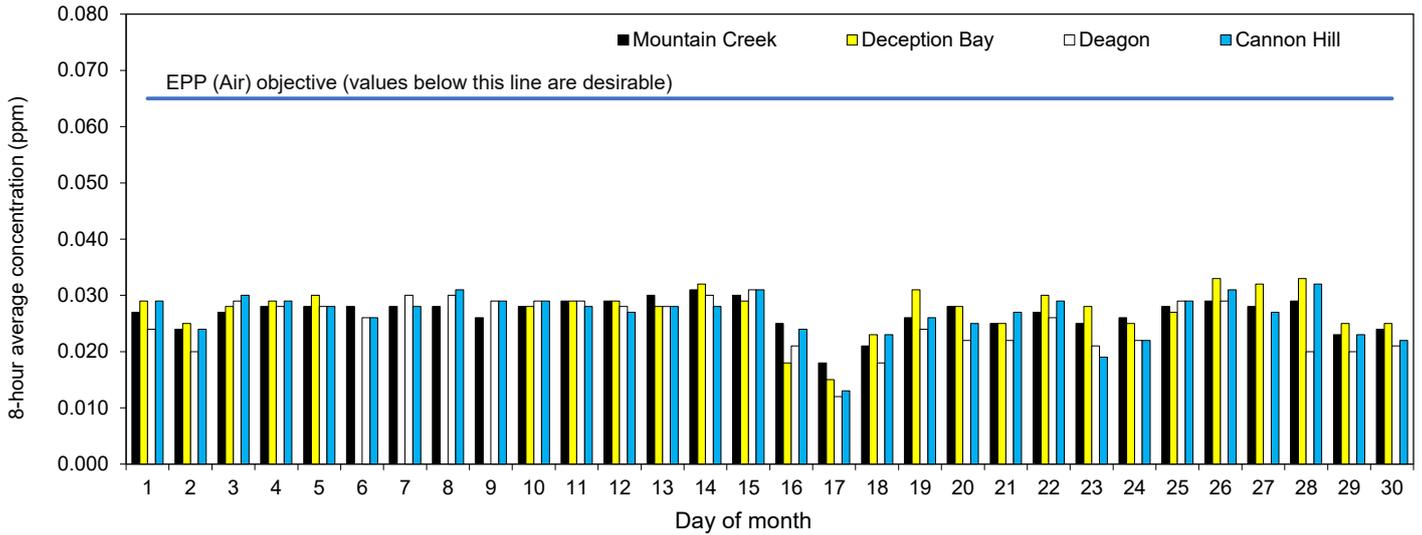


Figure 3. Ambient concentrations of ozone at Rocklea, Springwood and North Maclean sites. Daily maximum 8-hour average concentrations (ppm), June 2025.

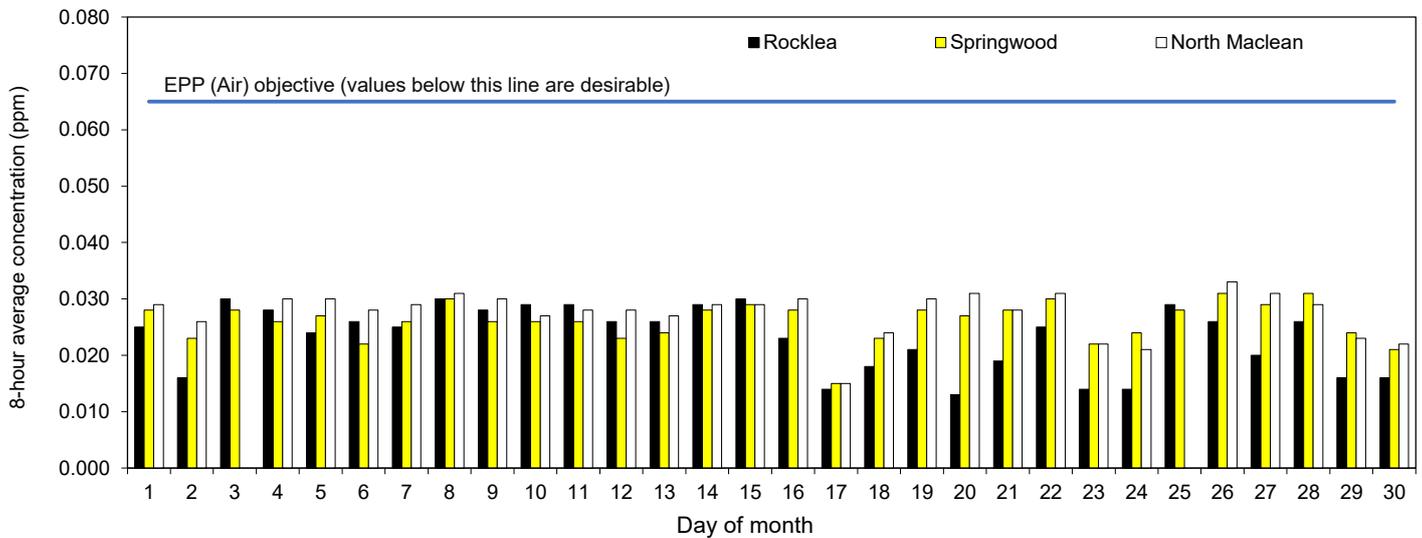


Figure 4. Ambient concentrations of ozone at Southport, Raceview and Mutdapilly sites. Daily maximum 8-hour average concentrations (ppm), June 2025.

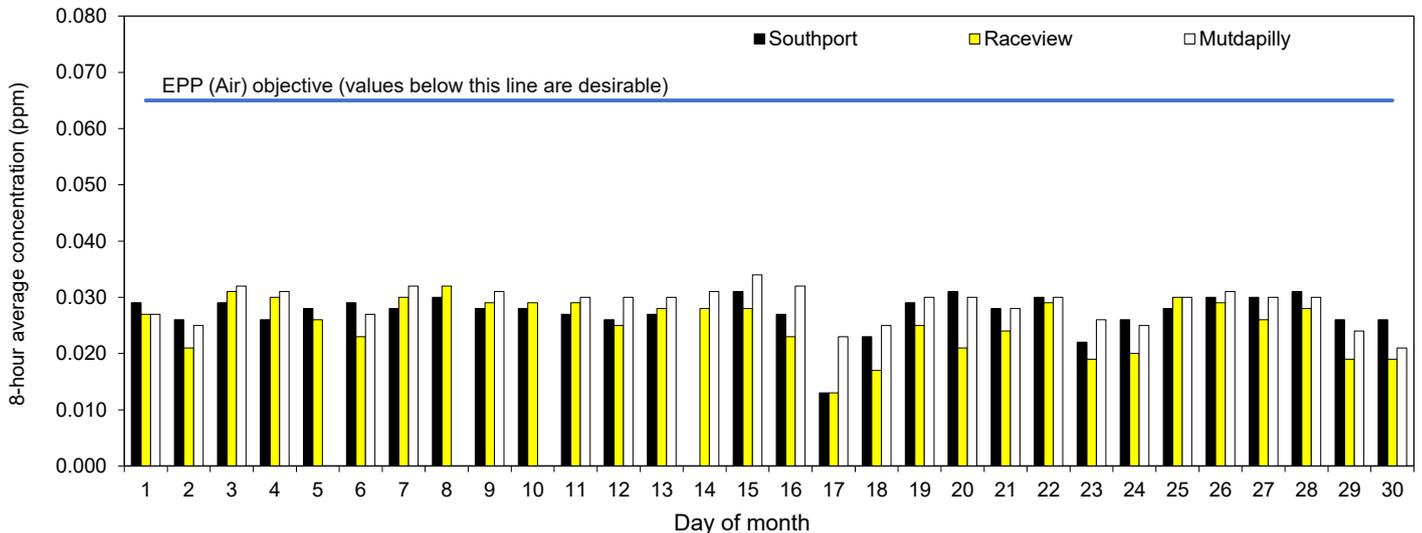


Table 4. Ambient concentrations of ozone. Monthly maximum 8-hour average concentrations (ppm), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Mountain Creek												
Maximum 8-hour	0.034	0.038	0.041	0.044	0.047	0.032	0.040	0.038	0.028	0.039	0.033	0.031
% I.A.	100	100	100	82	100	100	100	99	100	99	100	99
Deception Bay												
Maximum 8-hour	0.035	0.045	0.052	0.049	0.052	0.034	0.052	0.038	0.031	0.043	0.040	0.033
% I.A.	100	100	97	98	100	100	100	100	95	100	96	90
Deagon												
Maximum 8-hour	0.033	0.037	0.051	0.043	0.051	0.033	0.049	0.041	0.031	0.036	0.037	0.031
% I.A.	100	90	95	100	95	100	99	98	97	100	100	99
Cannon Hill												
Maximum 8-hour	0.032	0.041	0.047	0.042	0.054	0.036	0.044	0.038	0.036	0.042	0.039	0.032
% I.A.	100	100	99	99	99	100	99	99	99	100	99	100
Rocklea												
Maximum 8-hour	0.033	0.044	0.061	0.048	0.050	0.039	0.040	0.039	0.033	0.038	0.034	0.030
% I.A.	100	96	100	100	100	100	100	99	92	100	94	100
Springwood												
Maximum 8-hour	0.035	0.047	0.052	0.054	0.055	0.043	0.046	0.038	0.035	0.046	0.041	0.031
% I.A.	100	100	100	100	100	100	100	100	90	99	99	100
North Maclean												
Maximum 8-hour	0.036	0.054	0.063	0.056	0.054	0.041	0.044	0.034	0.039	0.042	0.039	0.033
% I.A.	99	99	99	100	100	91	94	99	99	95	100	98
Southport												
Maximum 8-hour	0.034	0.047	0.048	0.043	0.047	0.030	0.047	0.032	0.029	0.035	0.037	0.031
% I.A.	100	100	100	99	99	100	100	96	100	97	100	99
Raceview[†]												
Maximum 8-hour	n.d.	n.d.	n.d.	n.d.	n.d.	0.039	0.045	0.041	0.032	0.043	0.034	0.032
% I.A.	0	0	0	0	0	100	99	94	99	100	100	100
Mutdapilly												
Maximum 8-hour	0.036	0.047	0.059	0.051	0.053	0.045	0.053	0.038	0.032	0.042	0.039	0.034
% I.A.	99	97	100	99	98	98	98	99	99	98	93	93
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
[†] Ozone monitoring commenced at Raceview in December 2024.												
The EPP (A _{lr}) air quality objective for ozone is an 8-hour average of 0.065ppm.												

Nitrogen dioxide

Figure 5. Ambient concentrations of nitrogen dioxide at Mountain Creek, Deception Bay, Deagon and Wynnum North sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

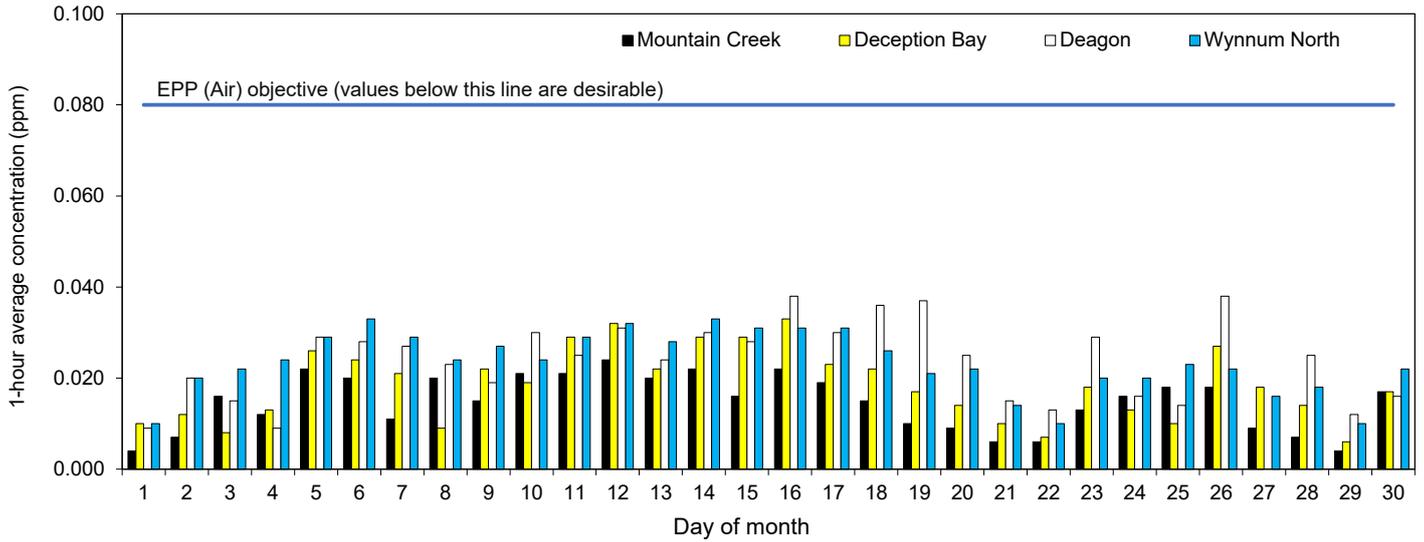


Figure 6. Ambient concentrations of nitrogen dioxide at Cannon Hill, South Brisbane, Woolloongabba and Rocklea sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

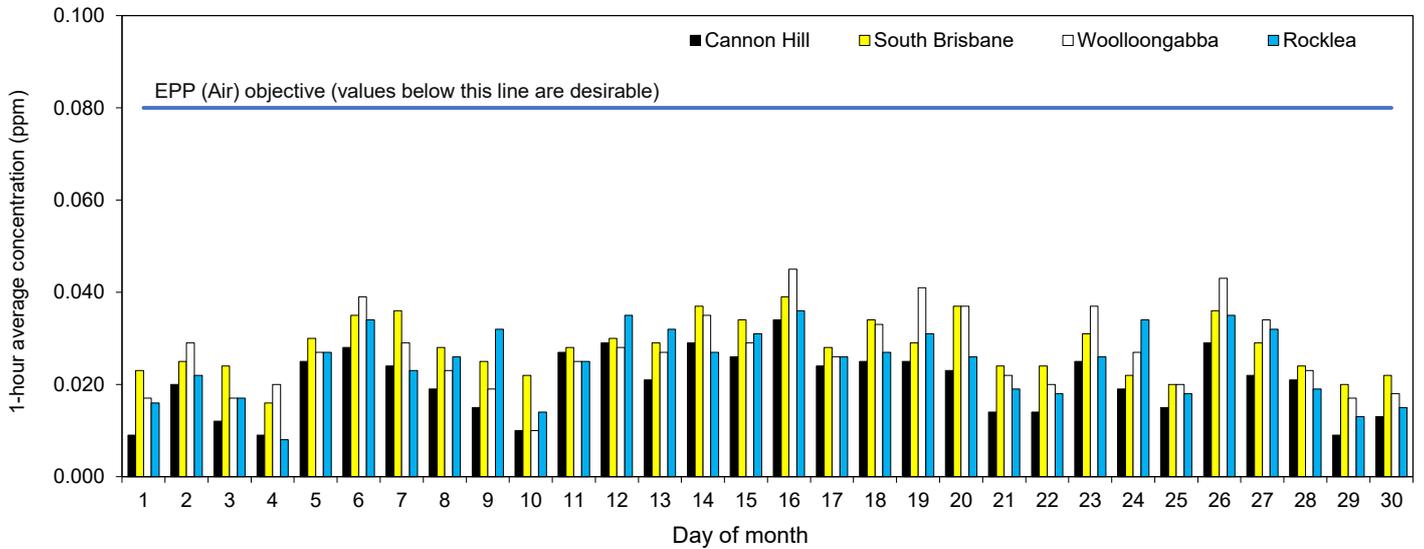


Figure 7. Ambient concentrations of nitrogen dioxide at Springwood, North Maclean, Southport and Coomera sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

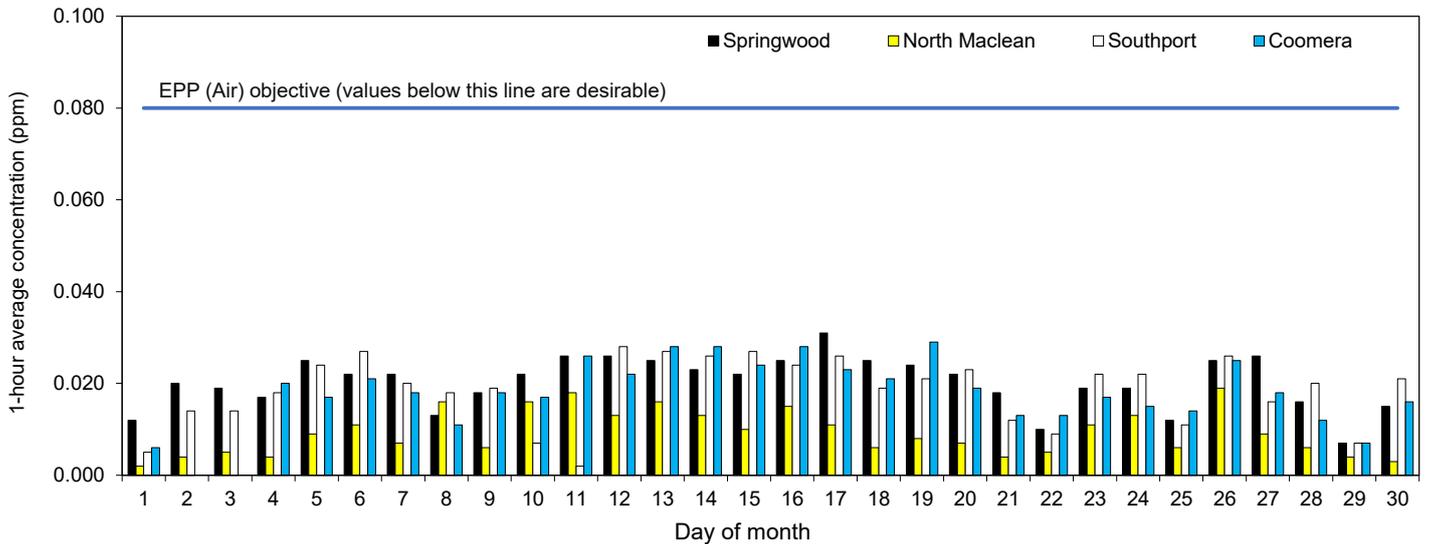


Figure 8. Ambient concentrations of nitrogen dioxide at Parkwood, Raceview and Mutdapilly sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

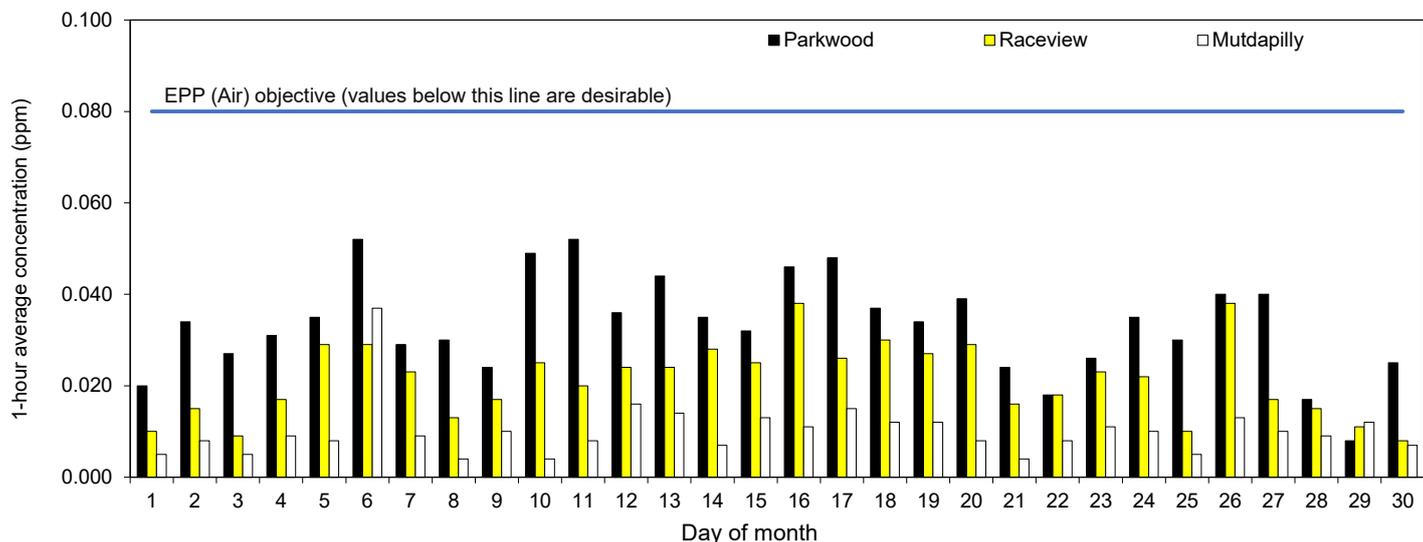


Table 5. Ambient concentrations of nitrogen dioxide. Annual average and monthly maximum 1-hour concentrations (ppm), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Mountain Creek												
Annual average:	0.003											
Maximum 1-hour	0.027	0.028	0.015	0.010	0.016	0.010	0.009	0.008	0.012	0.020	0.023	0.024
% I.A.	100	100	100	100	100	100	100	99	100	96	100	99
Deception Bay												
Annual average:	0.004											
Maximum 1-hour	0.029	0.033	0.026	0.020	0.014	0.011	0.013	0.011	0.012	0.024	0.036	0.033
% I.A.	100	100	97	98	100	97	100	100	96	100	100	100
Deagon												
Annual average:	0.007											
Maximum 1-hour	0.039	0.039	0.033	0.030	0.025	0.020	0.021	0.021	0.021	0.038	0.033	0.038
% I.A.	100	99	100	100	87	79	93	98	76	100	100	99
Wynnum North (industry-operated site)												
Annual average:	0.006											
Maximum 1-hour	0.034	0.033	0.031	0.023	0.022	0.017	0.018	0.015	0.017	0.034	0.037	0.033
% I.A.	95	95	94	94	80	95	95	90	68	95	91	95
Cannon Hill												
Annual average:	0.007											
Maximum 1-hour	0.035	0.038	0.028	0.020	0.027	0.018	0.021	0.015	0.025	0.030	0.032	0.034
% I.A.	100	100	96	86	99	100	99	99	99	100	100	100
South Brisbane												
Annual average:	0.013											
Maximum 1-hour	0.040	0.040	0.038	0.035	0.031	0.024	0.035	0.024	0.024	0.030	0.040	0.039
% I.A.	100	100	100	100	100	97	92	80	97	100	100	100
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
The EPP (Air) air quality objectives for nitrogen dioxide are an annual average of 0.015ppm and a 1-hour average of 0.080ppm.												

Table 5 (contd). Ambient concentrations of nitrogen dioxide. Annual average and monthly maximum 1-hour concentrations (ppm), July 2024 to June 2025.

Site		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Woolloongabba													
Annual average:	0.012												
Maximum 1-hour		0.035	0.039	0.034	0.041	0.032	0.027	0.030	0.022	0.024	0.035	0.047	0.045
% I.A.		100	97	100	99	100	100	100	100	100	100	100	100
Rocklea													
Annual average:	0.009												
Maximum 1-hour		0.035	0.034	0.032	0.030	0.030	0.021	0.020	0.018	0.019	0.028	0.032	0.036
% I.A.		100	100	100	100	100	100	100	100	92	100	94	100
Springwood													
Annual average:	0.005												
Maximum 1-hour		0.026	0.027	0.031	0.019	0.019	0.013	0.013	0.014	0.016	0.020	0.026	0.031
% I.A.		100	100	100	100	100	100	100	100	98	99	99	100
North Maclean													
Annual average:	0.002												
Maximum 1-hour		0.020	0.017	0.014	0.008	0.016	0.011	0.010	0.007	0.007	0.011	0.012	0.019
% I.A.		100	99	99	100	100	100	98	100	99	99	100	98
Southport													
Annual average:	0.004												
Maximum 1-hour		0.031	0.029	0.027	0.016	0.010	0.010	0.013	0.014	0.012	0.024	0.027	0.028
% I.A.		100	100	100	99	99	100	100	99	100	96	100	99
Coomera													
Annual average:	0.004												
Maximum 1-hour		0.030	0.026	0.026	0.016	0.014	0.011	0.015	0.013	0.012	0.020	0.032	0.029
% I.A.		100	100	100	100	100	100	99	100	96	100	99	97
Parkwood													
Annual average:	0.008												
Maximum 1-hour		0.049	0.038	0.042	0.030	0.024	0.018	0.026	0.033	0.023	0.034	0.044	0.052
% I.A.		100	100	100	100	100	100	99	98	96	100	100	100
Raceview[†]													
Annual average:	0.005												
Maximum 1-hour		n.d.	n.d.	n.d.	n.d.	n.d.	0.020	0.016	0.014	0.015	0.029	0.033	0.038
% I.A.		0	0	0	0	0	100	99	94	100	100	100	100
Mutdapilly													
Annual average:	0.003												
Maximum 1-hour		0.020	0.018	0.016	0.013	0.010	0.008	0.010	0.014	0.009	0.014	0.021	0.037
% I.A.		99	96	100	99	98	90	98	99	99	99	99	99
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.													
[†] Nitrogen dioxide monitoring commenced at Raceview in December 2024.													
The EPP (Air) air quality objectives for nitrogen dioxide are an annual average of 0.015ppm and a 1-hour average of 0.080ppm.													

Sulfur dioxide

Figure 9. Ambient concentrations of sulfur dioxide at Wynnum North, Wynnum West and Lytton sites. Daily 24-hour average concentrations (ppm), June 2025.

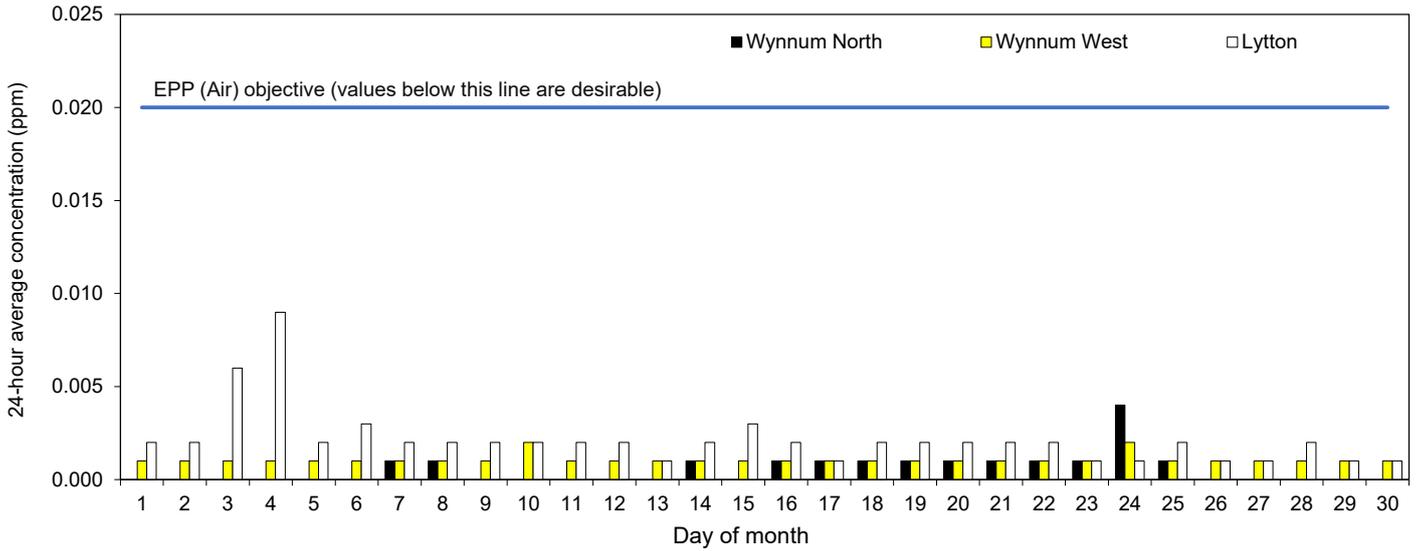


Figure 10. Ambient concentrations of sulfur dioxide at Springwood and Raceview sites. Daily 24-hour average concentrations (ppm), June 2025.

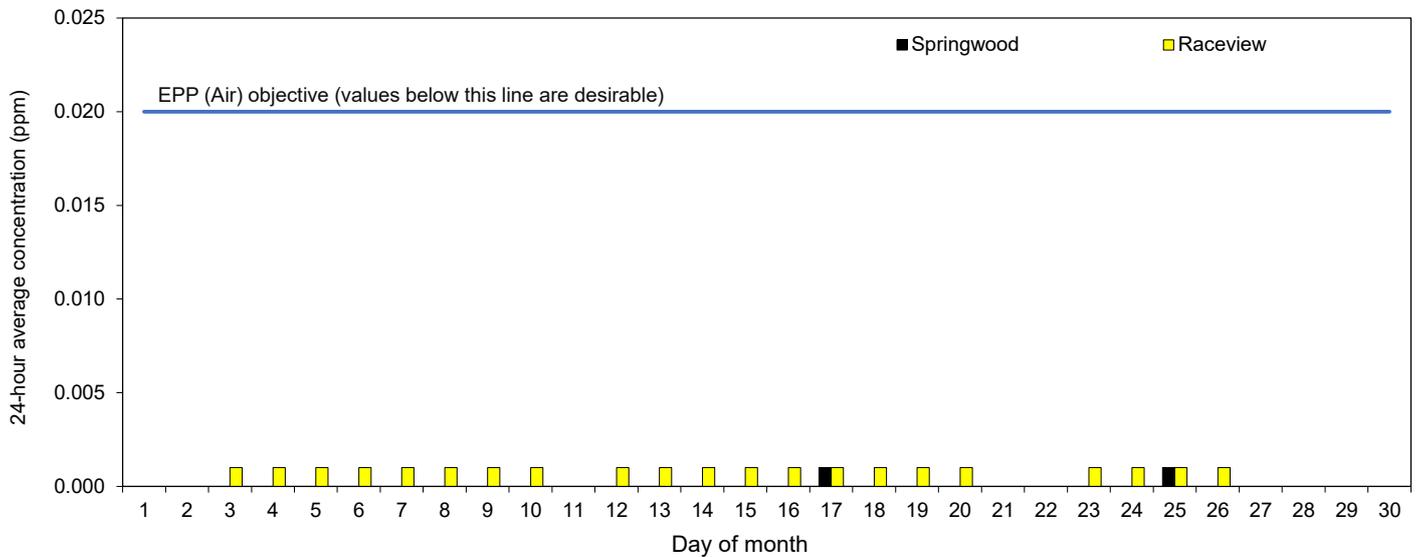


Figure 11. Ambient concentrations of sulfur dioxide at Wynnum North, Wynnum West and Lytton sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

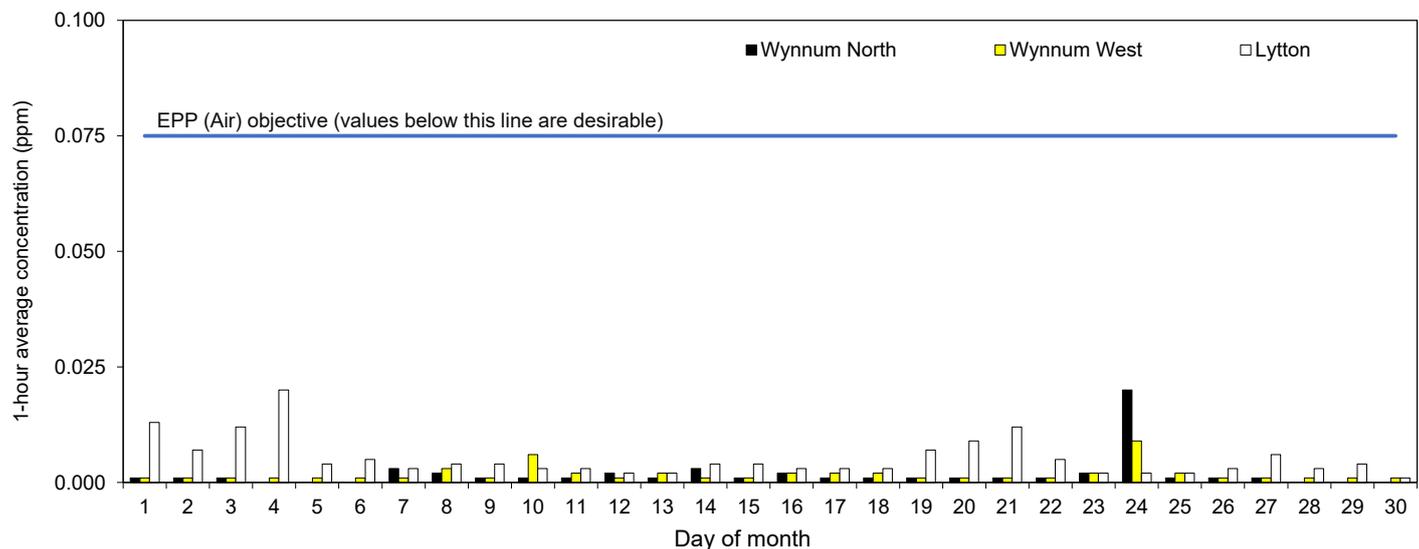


Figure 12. Ambient concentrations of sulfur dioxide at Springwood and Raceview sites. Daily maximum 1-hour average concentrations (ppm), June 2025.

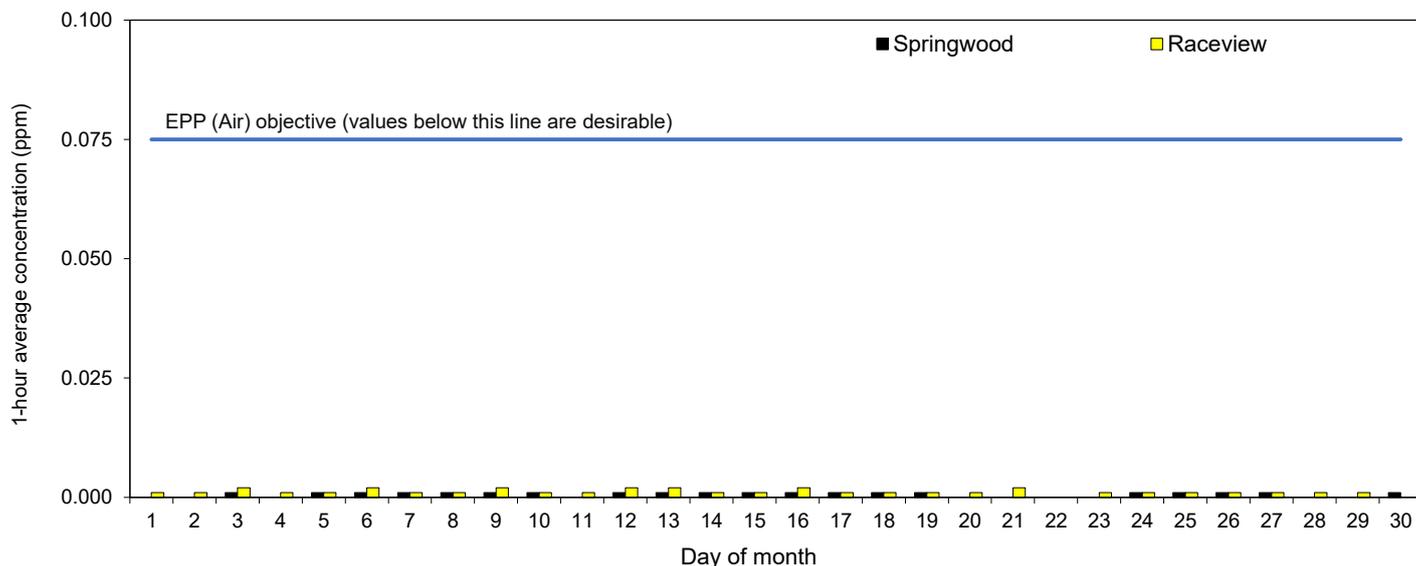


Table 6. Ambient concentrations of sulfur dioxide. Annual average and monthly maximum 24-hour and 1-hour average concentrations (ppm), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Wynnum North (industry-operated site)												
Annual average:	0.001											
Maximum 24-hour	0.002	0.009	0.009	0.007	0.013	0.005	0.005	0.001	0.001	0.001	0.002	0.004
Maximum 1-hour	0.008	0.050	0.067	0.026	0.034	0.049	0.037	0.008	0.013	0.012	0.017	0.020
% I.A.	95	96	95	95	84	95	95	90	67	96	94	95
Wynnum West (industry-operated site)												
Annual average:	0.001											
Maximum 24-hour	0.004	0.003	0.004	0.012	0.004	0.005	0.002	0.001	0.001	0.002	0.001	0.002
Maximum 1-hour	0.020	0.017	0.027	0.053	0.013	0.017	0.008	0.002	0.003	0.007	0.005	0.009
% I.A.	94	95	95	96	96	95	96	94	92	94	95	95
Lytton (industry-operated site)												
Annual average:	0.002											
Maximum 24-hour	0.013	0.002	0.007	0.010	0.003	0.010	0.011	0.003	0.019	0.006	0.018	0.009
Maximum 1-hour	0.056	0.006	0.047	0.022	0.012	0.045	0.026	0.014	0.067	0.025	0.051	0.020
% I.A.	91	90	90	94	93	90	90	88	62	89	89	96
Springwood												
Annual average:	<0.001											
Maximum 24-hour	0.001	0.001	0.001	0.001	0.002	<0.001	0.001	<0.001	0.001	0.001	0.001	0.001
Maximum 1-hour	0.002	0.004	0.004	0.007	0.004	0.002	0.001	0.001	0.002	0.002	0.004	0.001
% I.A.	100	100	100	99	100	100	100	100	98	99	99	100
Raceview[†]												
Annual average:	<0.001											
Maximum 24-hour	n.d.	n.d.	n.d.	n.d.	n.d.	0.001	0.001	<0.001	0.001	0.001	0.001	0.001
Maximum 1-hour	n.d.	n.d.	n.d.	n.d.	n.d.	0.002	0.002	0.002	0.003	0.003	0.005	0.002
% I.A.	0	0	0	0	0	100	92	94	97	100	100	100
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
[†] Sulfur dioxide monitoring commenced at Raceview in December 2024.												
The EPP (Air) air quality objectives for sulfur dioxide are a 24-hour average of 0.020ppm and a 1-hour average of 0.075ppm.												

Visibility-reducing particles

Figure 13. Ambient concentrations of visibility-reducing particle levels at Mountain Creek, Deagon and Brisbane CBD sites. Daily maximum 1-hour average light scattering coefficient (B_{sp}) values (Mm^{-1}), June 2025.

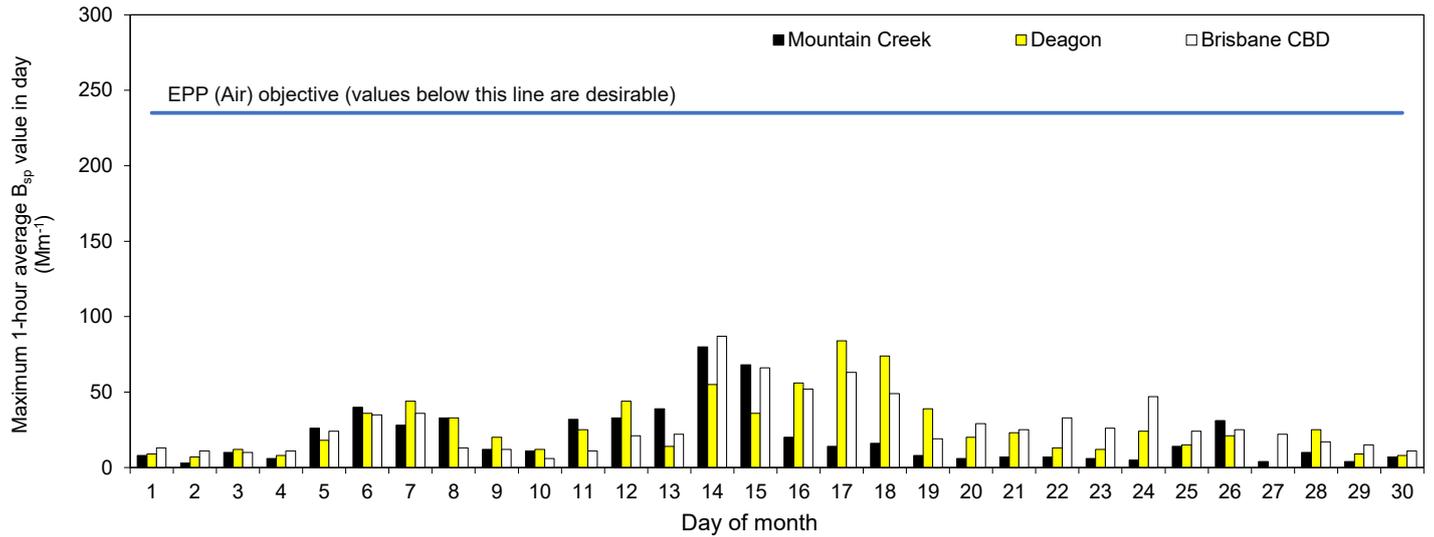


Figure 14. Ambient concentrations of visibility-reducing particle levels at Rocklea and Raceview sites. Daily maximum 1-hour average light scattering coefficient (B_{sp}) values (Mm^{-1}), June 2025.

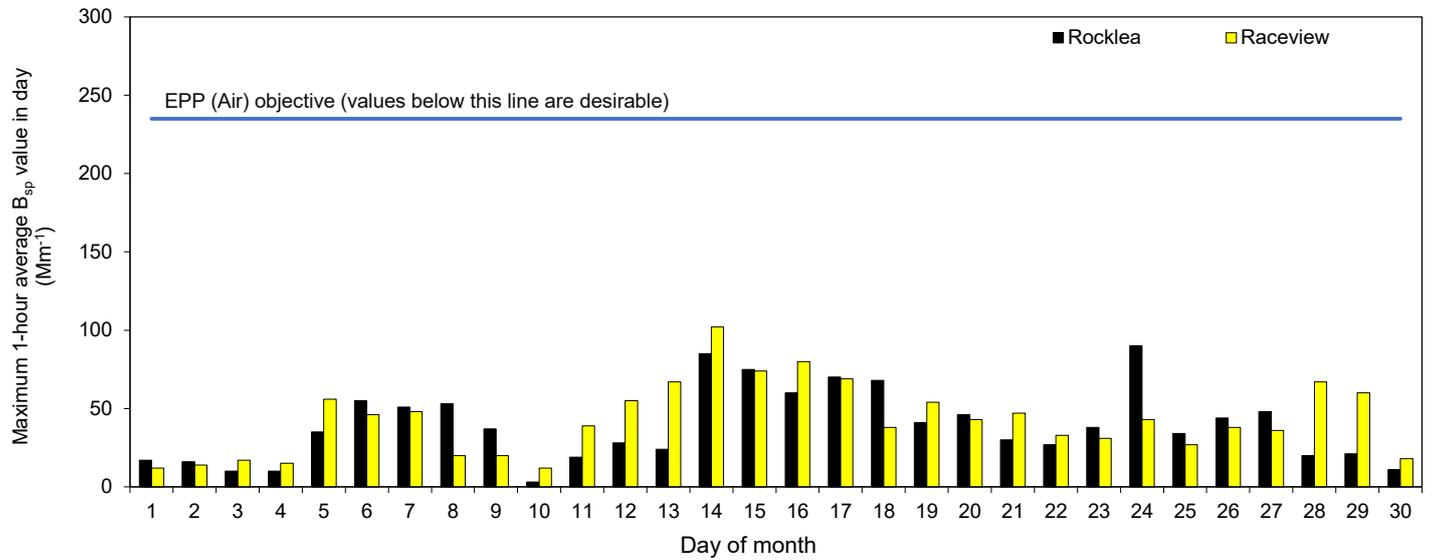


Table 7. Ambient visibility-reducing particle levels. Monthly maximum 1-hour light scattering coefficient (B_{sp}) values (Mm^{-1}), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Mountain Creek												
Maximum 1-hour	22	19	61	37	57	17	36	13	22	38	36	80
% I.A.	100	100	100	100	100	100	100	99	100	99	100	99
Deagon												
Maximum 1-hour	56	250	123	58	50	31	106	47	42	33	103	84
% I.A.	100	97	100	100	99	100	99	98	76	100	100	99
Brisbane CBD												
Maximum 1-hour	128	151	186	60	175	44	90	92	57	38	72	87
% I.A.	100	98	100	100	100	100	100	100	100	100	100	100
Rocklea												
Maximum 1-hour	120	190	283	104	71	50	68	70	57	139	80	90
% I.A.	100	100	100	100	100	100	100	100	92	100	95	100
Raceview[†]												
Maximum 1-hour	n.d.	n.d.	n.d.	n.d.	n.d.	49	42	54	52	81	62	102
% I.A.	0	0	0	0	0	100	99	86	83	100	100	100
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
[†] Visibility-reducing particles monitoring commenced at Raceview in December 2024.												
The EPP (Air) air quality objective for visibility-reducing particles is 20km visibility. This equates to light scattering coefficient values of $235Mm^{-1}$ or less.												

PM₁₀

Figure 15. Ambient concentrations of PM₁₀ at Maryborough, Nambour, Mountain Creek and Deception Bay sites. Daily 24-hour average concentrations ($\mu\text{g}/\text{m}^3$), June 2025.

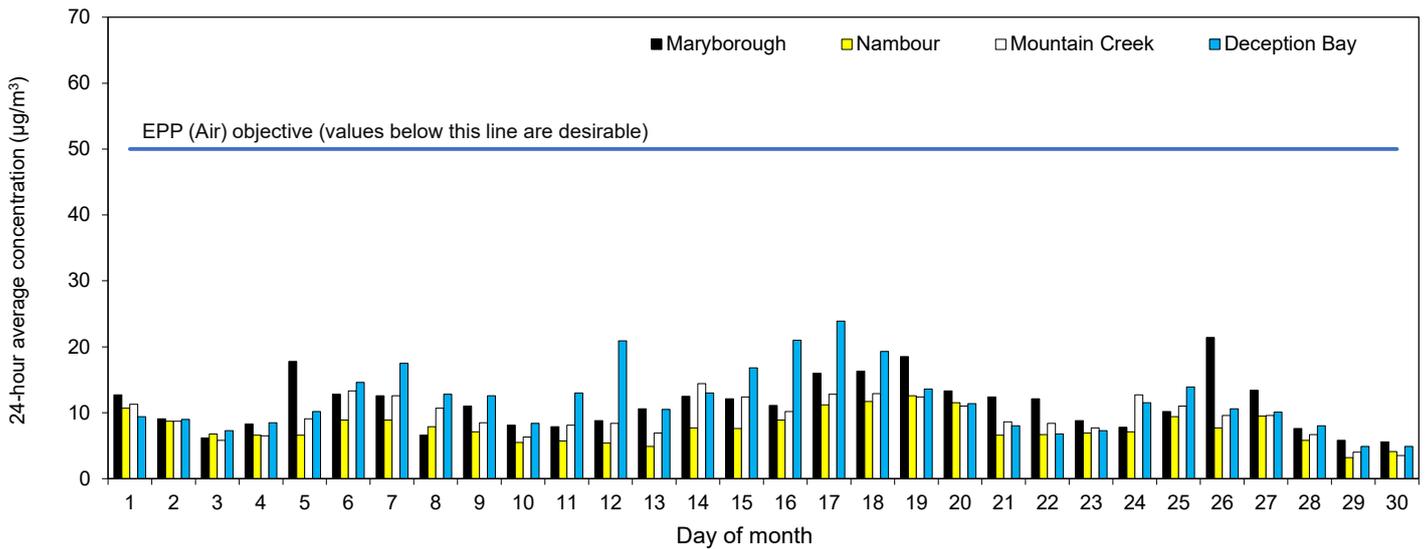


Figure 16. Ambient concentrations of PM₁₀ at Deagon, Brisbane CBD, South Brisbane and Woollongabba sites. Daily 24-hour average concentrations ($\mu\text{g}/\text{m}^3$), June 2025.

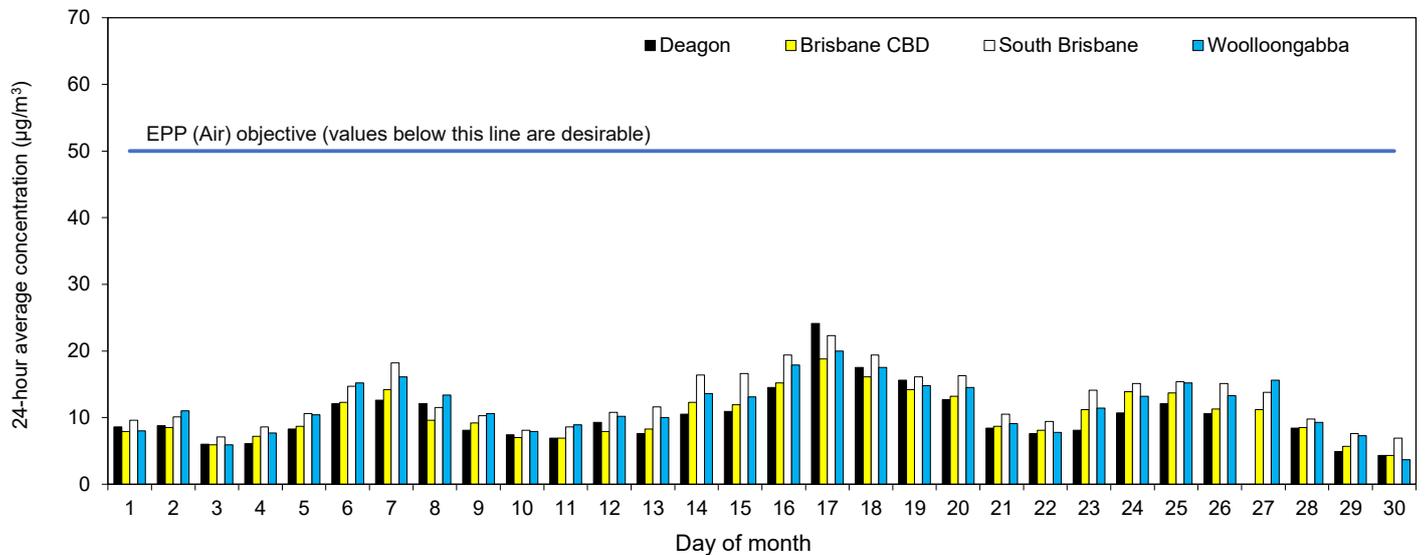


Figure 17. Ambient concentrations of PM₁₀ at Cannon Hill, Wynnum North, Wynnum West and Lytton sites. Daily 24-hour average concentrations ($\mu\text{g}/\text{m}^3$), June 2025.

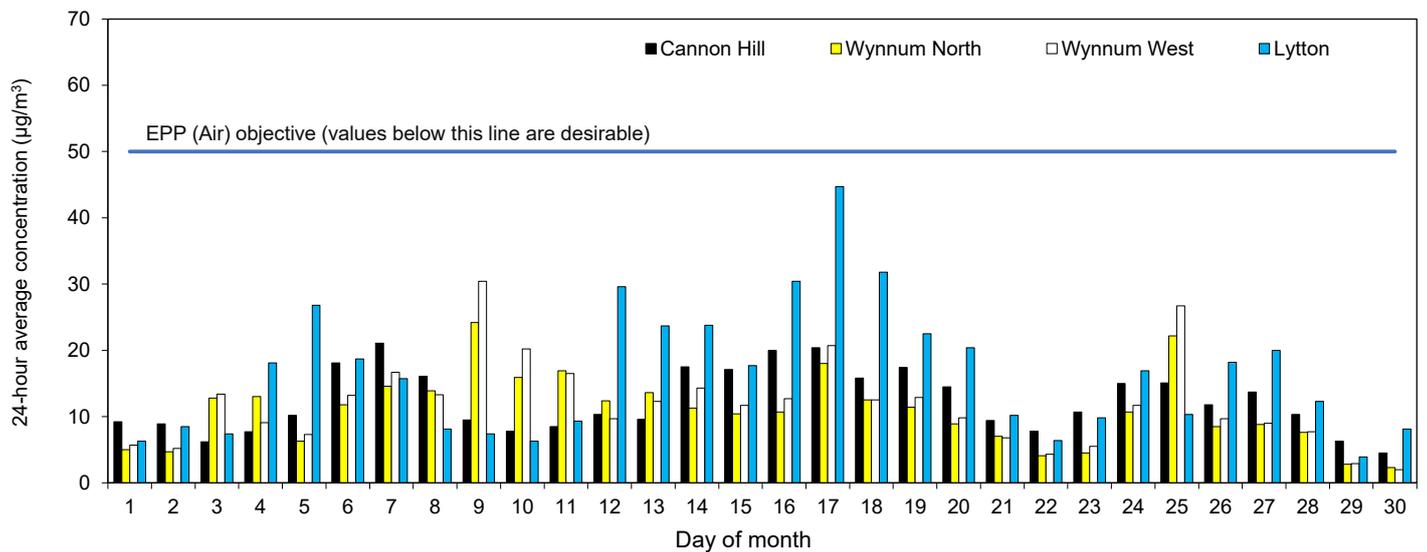


Figure 18. Ambient concentrations of PM₁₀ at Rocklea, North Maclean and Springwood sites. Daily 24-hour average concentrations (µg/m³), June 2025.

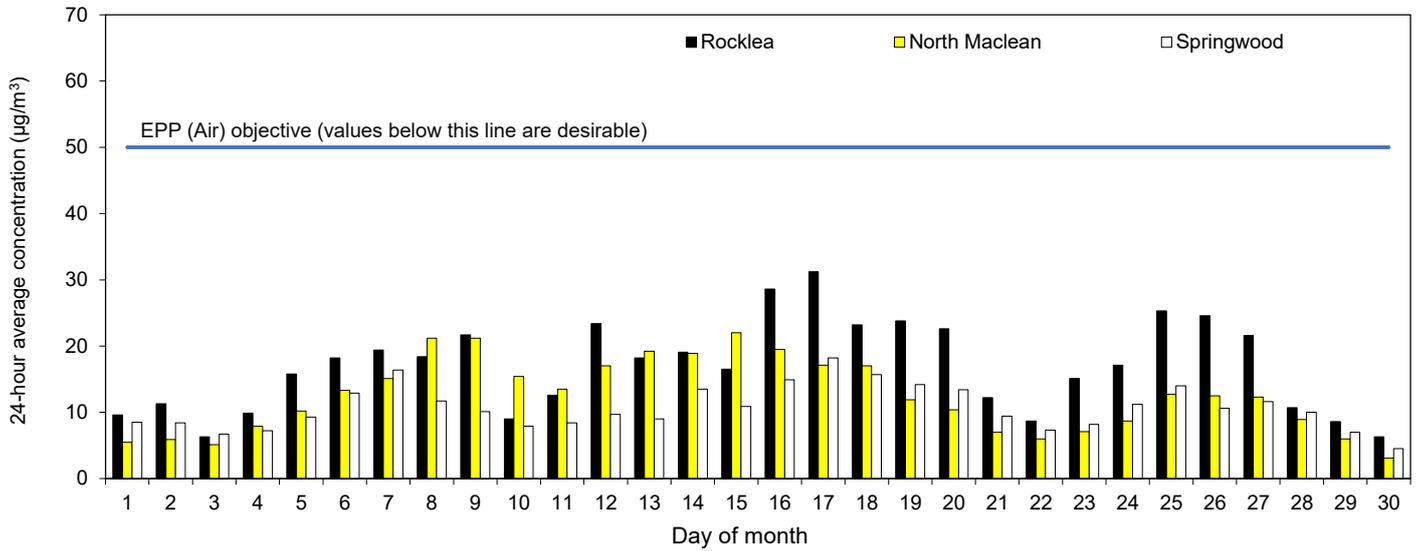


Figure 19. Ambient concentrations of PM₁₀ at Southport, Coomera and Parkwood sites. Daily 24-hour average concentrations (µg/m³), June 2025.

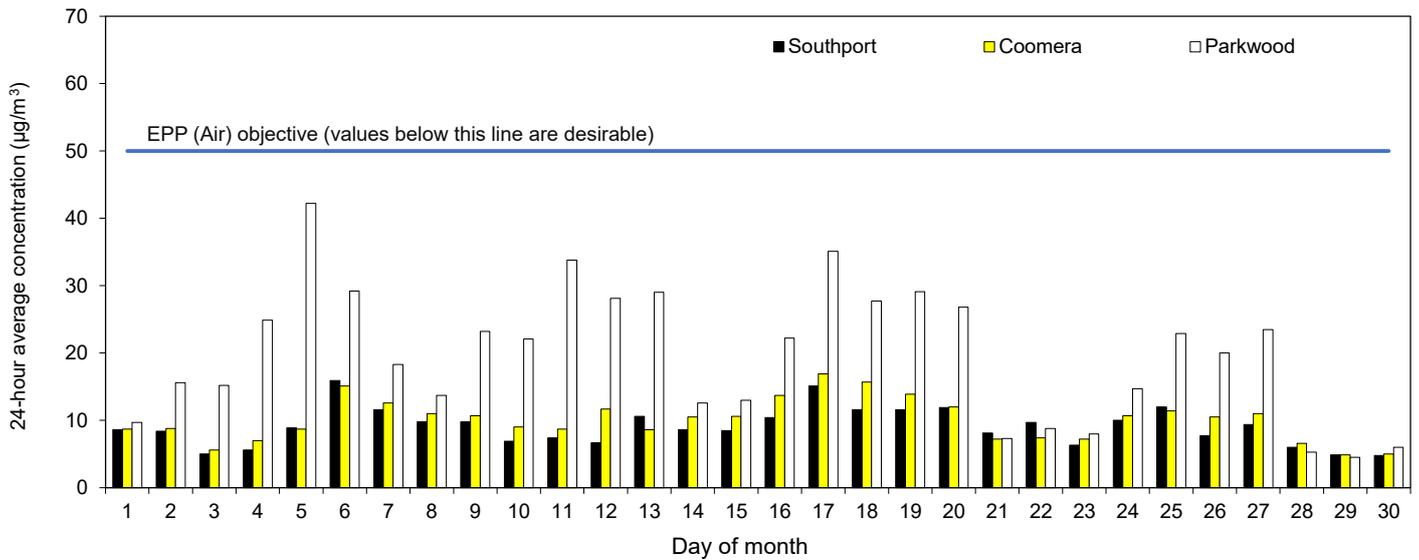


Figure 20. Ambient concentrations of PM₁₀ at Raceview, Mutdapilly and Toowoomba (Tor St) sites. Daily 24-hour average concentrations (µg/m³), June 2025.

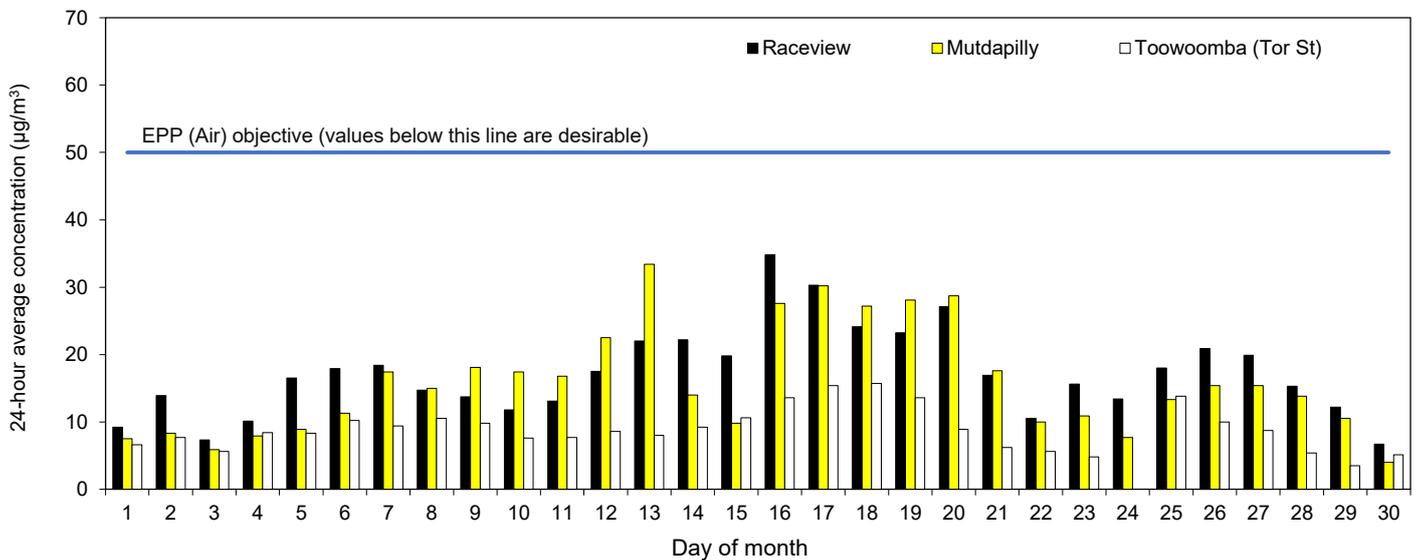


Table 8. Ambient concentrations of PM₁₀. Annual average and monthly maximum 24-hour concentrations (µg/m³), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Maryborough												
Annual average:	14.1											
Maximum 24-hour	30.1	20.4	31.1	24.8	-	28.7	27.9	23.3	25.6	18.5	29.1	21.4
% I.A.	100	100	100	100	54	95	100	100	93	99	99	100
Nambour												
Annual average:	13.1											
Maximum 24-hour	15.0	23.6	26.7	22.8	23.6	26.5	26.9	24.9	22.3	17.8	14.8	12.6
% I.A.	100	100	100	100	99	100	100	100	86	100	100	100
Mountain Creek												
Annual average:	14.3											
Maximum 24-hour	18.6	28.9	27.4	25.9	23.7	28.9	28.0	27.3	29.9	21.8	17.9	14.4
% I.A.	100	100	100	100	100	100	100	99	81	99	100	99
Deception Bay												
Annual average:	15.1											
Maximum 24-hour	23.1	30.3	33.6	23.7	26.0	26.1	29.2	27.0	24.2	19.9	19.1	23.9
% I.A.	100	100	93	98	100	100	100	100	81	100	100	100
Deagon												
Annual average:	14.1											
Maximum 24-hour	18.9	30.6	30.1	23.8	26.8	25.3	26.5	25.4	21.3	17.7	15.1	24.1
% I.A.	99	99	100	100	99	100	99	98	74	100	100	99
Brisbane CBD												
Annual average:	15.3											
Maximum 24-hour	22.1	37.8	36.0	24.8	34.2	27.4	28.8	27.7	21.3	19.5	21.2	18.8
% I.A.	100	100	100	100	100	100	100	100	89	100	100	100
South Brisbane												
Annual average:	15.8											
Maximum 24-hour	24.4	33.3	34.1	23.4	29.7	25.2	26.8	27.7	25.0	18.7	24.3	22.3
% I.A.	100	100	100	100	100	99	92	96	80	100	100	100
Woolloongabba												
Annual average:	16.1											
Maximum 24-hour	32.4	36.2	37.7	46.4	29.4	20.7	111.9	25.8	21.6	18.0	20.7	20.0
% I.A.	100	100	100	99	100	100	100	100	81	100	100	100
Cannon Hill												
Annual average:	15.0											
Maximum 24-hour	21.8	32.6	34.4	25.3	32.8	27.4	23.9	23.0	22.0	21.5	25.5	21.1
% I.A.	100	100	99	100	99	100	98	100	81	100	100	100
Wynnum North (industry-operated site)												
Annual average:	11.7											
Maximum 24-hour	20.8	30.5	26.6	24.8	22.4	18.0	30.4	20.2	25.6	19.4	27.4	24.2
% I.A.	98	100	96	96	85	99	86	77	70	95	91	99
Wynnum West (industry-operated site)												
Annual average:	13.4											
Maximum 24-hour	34.6	30.8	27.5	28.5	22.2	21.1	36.1	43.5	22.1	20.2	38.4	30.4
% I.A.	97	99	95	94	92	93	87	77	95	94	93	99
Lytton (industry-operated site)												
Annual average:	17.0											
Maximum 24-hour	37.0	35.6	42.4	32.5	21.2	23.8	45.6	33.1	26.9	31.9	37.7	44.7
% I.A.	98	100	91	85	97	93	81	73	67	94	91	99
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
The EPP (AIr) air quality objectives for PM ₁₀ are an annual average of 25µg/m ³ and a 24-hour average of 50µg/m ³ .												

Table 8 (contd). Ambient concentrations of PM₁₀. Annual average and monthly maximum 24-hour concentrations (µg/m³), July 2024 to June 2025.

Site		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Rocklea													
Annual average:	14.1												
Maximum 24-hour		27.0	33.9	30.3	24.2	26.0	21.9	21.9	34.1	20.0	20.5	28.8	31.3
% I.A.		100	99	100	100	82	99	100	100	92	100	95	100
North Maclean													
Annual average:	15.6												
Maximum 24-hour		31.0	48.8	74.4	35.7	30.8	19.7	21.1	19.9	18.1	15.8	17.9	22.0
% I.A.		100	100	99	100	100	100	99	100	80	99	100	98
Springwood													
Annual average:	15.8												
Maximum 24-hour		26.7	45.5	66.1	28.3	30.3	28.2	30.3	28.0	23.5	19.6	17.9	18.2
% I.A.		100	100	100	100	100	100	100	100	95	100	100	100
Southport													
Annual average:	14.3												
Maximum 24-hour		18.4	27.8	30.8	28.2	25.9	25.6	25.0	24.9	24.8	20.3	19.8	15.9
% I.A.		100	100	100	99	100	100	100	99	81	97	100	99
Coomera													
Annual average:	15.3												
Maximum 24-hour		20.3	31.8	38.2	27.1	31.1	25.5	26.2	26.4	24.6	18.4	21.8	16.9
% I.A.		100	100	100	100	100	100	99	100	81	100	100	100
Parkwood													
Annual average:	15.9												
Maximum 24-hour		53.7	30.8	58.3	42.1	35.6	13.2	20.1	29.5	33.1	28.8	37.6	42.2
% I.A.		100	100	100	100	100	100	99	99	81	100	100	100
Raceview[†]													
Annual average:	18.5												
Maximum 24-hour		n.d.	n.d.	n.d.	n.d.	n.d.	30.7	29.8	33.1	28.8	29.1	32.2	34.8
% I.A.		0	0	0	0	0	100	100	99	83	100	100	100
Mutdapilly													
Annual average:	18.3												
Maximum 24-hour		36.2	49.2	53.3	42.2	34.8	28.5	36.4	41.4	28.6	54	30.3	33.4
% I.A.		99	97	100	99	98	98	98	99	80	99	99	99
Toowoomba (Tor St)													
Annual average:	12.3												
Maximum 24-hour		20.2	38.1	27.7	21.6	25.2	20.0	36.6	18.0	15.2	15.4	18.3	15.7
% I.A.		100	100	100	100	100	100	100	94	98	100	100	97
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.													
[†] PM ₁₀ monitoring commenced at Raceview in December 2024.													
The EPP (Air) air quality objectives for PM ₁₀ are an annual average of 25µg/m ³ and a 24-hour average of 50µg/m ³ .													

PM_{2.5}

Figure 21. Ambient concentrations of PM_{2.5} at Maryborough, Nambour, Mountain Creek and Deception Bay sites. Daily 24-hour average concentrations (µg/m³), June 2025.

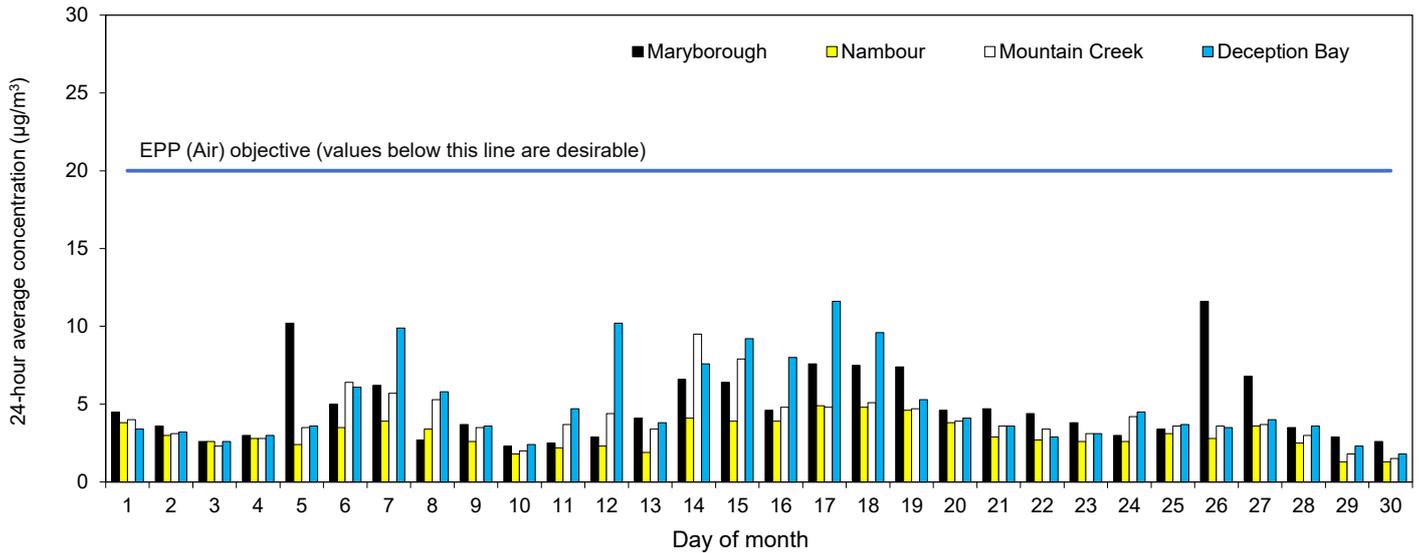


Figure 22. Ambient concentrations of PM_{2.5} at Deagon, Brisbane CBD, South Brisbane and Woolloongabba sites. Daily 24-hour average concentrations (µg/m³), June 2025.

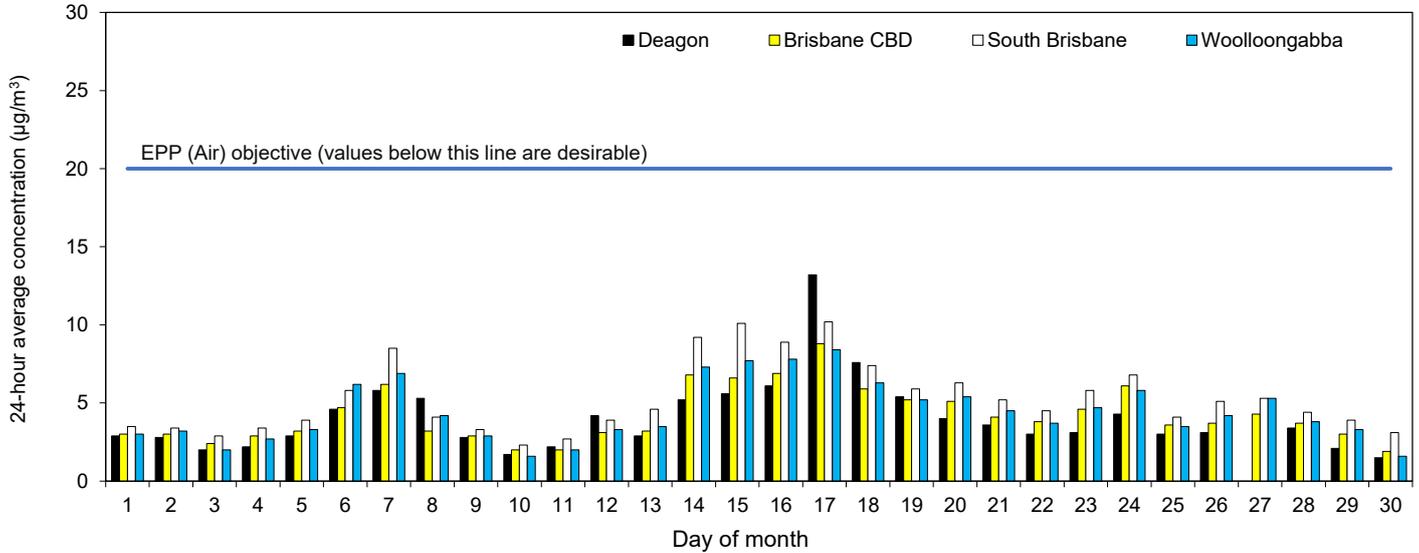


Figure 23. Ambient concentrations of PM_{2.5} at Cannon Hill, Wynnum North, Wynnum West and Lytton sites. Daily 24-hour average concentrations (µg/m³), June 2025.

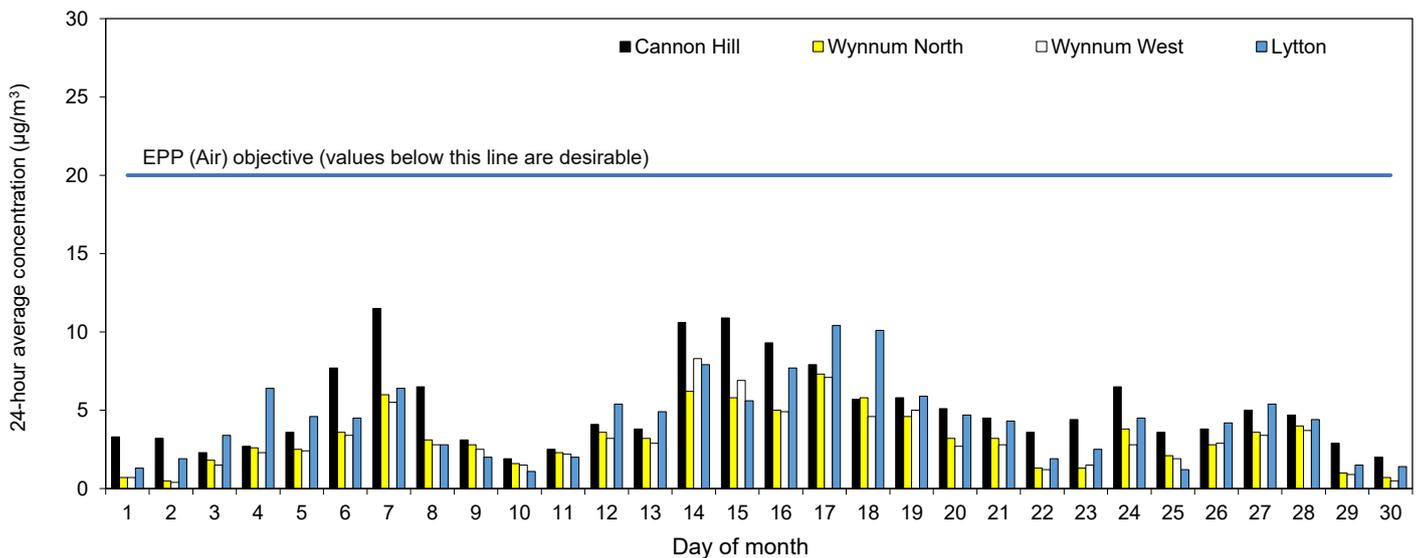


Figure 24. Ambient concentrations of PM_{2.5} at Rocklea, North Maclean and Springwood sites. Daily 24-hour average concentrations (µg/m³), June 2025.

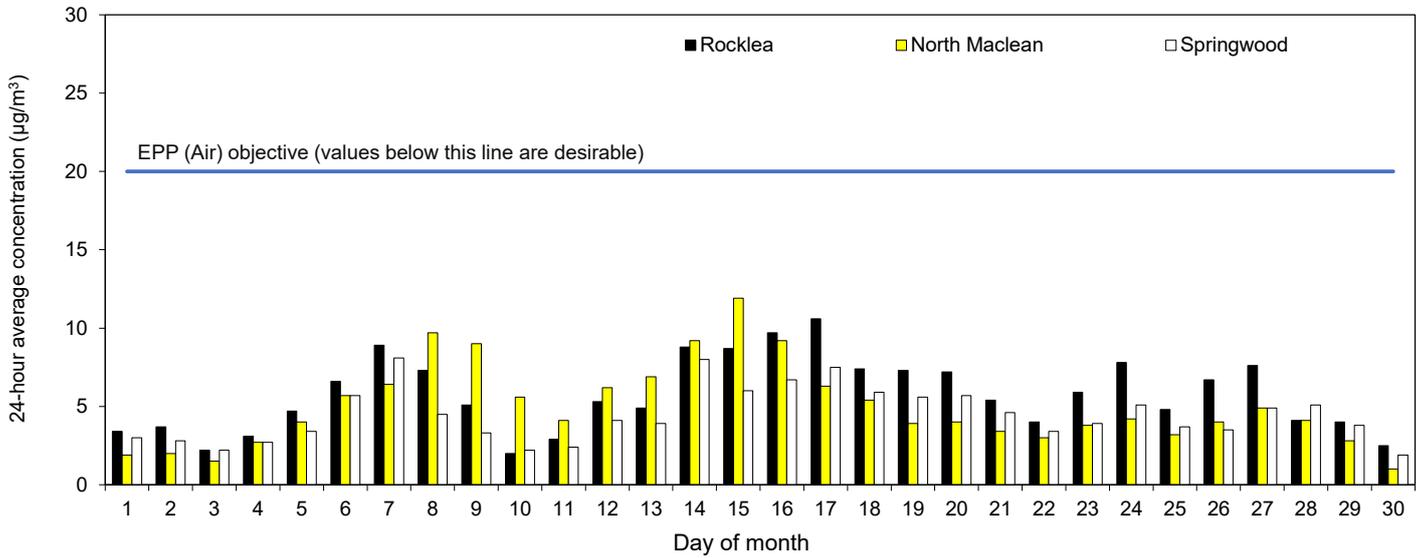


Figure 25. Ambient concentrations of PM_{2.5} at Southport, Coomera and Parkwood sites. Daily 24-hour average concentrations (µg/m³), June 2025.

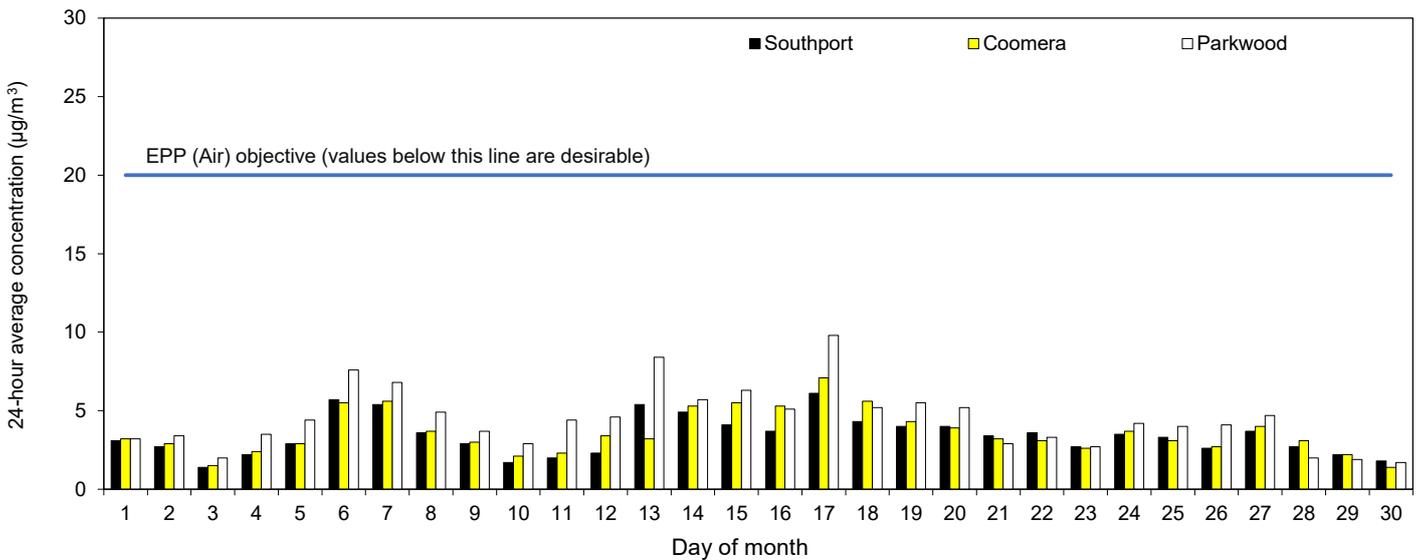


Figure 26. Ambient concentrations of PM_{2.5} at Raceview, Mutdapilly and Toowoomba (Tor St) sites. Daily 24-hour average concentrations (µg/m³), June 2025.

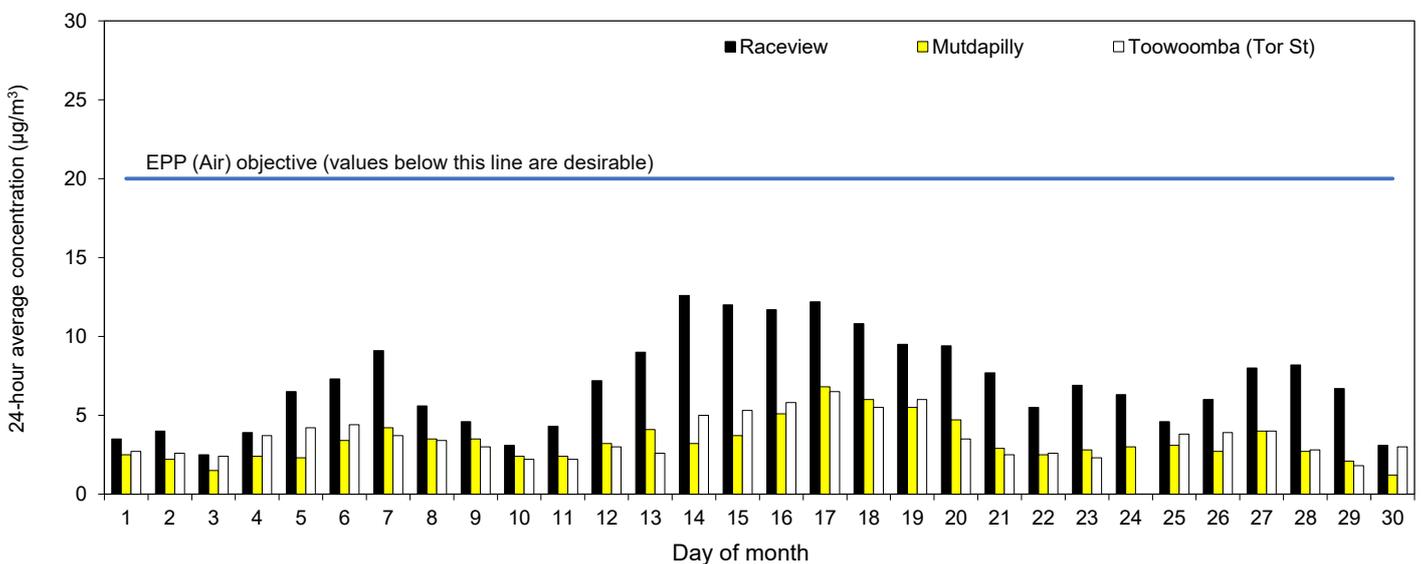


Table 9. Ambient concentrations of PM_{2.5}. Annual average and monthly maximum 24-hour concentrations (µg/m³), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Maryborough												
Annual average:	5.6											
Maximum 24-hour	19.2	13.5	13.7	10.8	-	9.4	9.5	7.6	9.2	6.8	20.2	11.6
% I.A.	100	100	100	100	54	95	100	100	93	99	99	100
Nambour												
Annual average:	4.7											
Maximum 24-hour	6.6	13.6	14.2	10.3	11.6	8.2	8.6	7.2	7.3	5.1	7.5	4.9
% I.A.	100	100	100	100	99	100	100	100	86	100	100	100
Mountain Creek												
Annual average:	5.3											
Maximum 24-hour	8.7	12.8	14.3	10.5	11.3	9.0	9.1	8.2	9.6	6.7	8.4	9.5
% I.A.	100	100	100	100	100	100	100	99	81	99	100	99
Deception Bay												
Annual average:	5.7											
Maximum 24-hour	12.7	16.6	21.8	11.0	11.4	8.1	9.2	8.4	8.3	7.8	9.9	11.6
% I.A.	100	100	93	98	100	100	100	100	81	100	100	100
Deagon												
Annual average:	5.4											
Maximum 24-hour	8.6	20.2	18.8	10.5	11.9	7.7	8.3	8.3	7.1	6.0	7.3	13.2
% I.A.	99	99	100	100	99	100	99	98	74	100	100	99
Brisbane CBD												
Annual average:	6.0											
Maximum 24-hour	10.9	21.6	20.2	12.7	16.0	8.7	9.0	8.6	7.2	7.4	8.9	8.8
% I.A.	100	100	100	100	100	100	100	100	89	100	100	100
South Brisbane												
Annual average:	6.1											
Maximum 24-hour	12.1	18.3	19.7	11.5	13.4	8.0	8.6	8.2	7.5	8.0	10.5	10.2
% I.A.	100	100	100	100	100	99	92	96	80	100	100	100
Woolloongabba												
Annual average:	5.4											
Maximum 24-hour	11.2	15.9	19.0	12.2	11.9	6.6	11.6	7.8	7.1	7.1	8.7	8.4
% I.A.	100	100	100	99	100	100	100	100	81	100	100	100
Cannon Hill												
Annual average:	5.6											
Maximum 24-hour	10.0	15.6	18.1	11.5	11.8	7.3	7.6	7.5	7.3	8.5	9.5	11.5
% I.A.	100	100	99	100	99	100	98	100	81	100	100	100
Wynnum North (industry-operated site)												
Annual average:	3.0											
Maximum 24-hour	5.0	13.9	13.4	7.5	8.7	5.0	6.1	3.1	5.9	6.3	9.6	7.3
% I.A.	98	100	99	99	86	100	86	77	70	95	91	99
Wynnum West (industry-operated site)												
Annual average:	3.0											
Maximum 24-hour	5.5	11.2	11.2	7.0	6.4	5.1	5.8	3.7	5.4	5.6	8.5	8.3
% I.A.	98	100	99	99	92	94	88	77	92	94	93	99
Lytton (industry-operated site)												
Annual average:	4.3											
Maximum 24-hour	8.9	13.7	13.2	8.7	7.1	7.0	7.5	5.7	7.2	7.3	11.0	10.4
% I.A.	99	100	94	90	97	97	81	73	67	94	91	99
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
The EPP (AIR) air quality objectives for PM _{2.5} are an annual average of 7µg/m ³ and a 24-hour average of 20µg/m ³ .												

Table 9 (contd). Ambient concentrations of PM_{2.5}. Annual average and monthly maximum 24-hour concentrations (µg/m³), July 2024 to June 2025.

Site		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Rocklea													
Annual average:	6.0												
Maximum 24-hour		15.6	18.6	19.1	12.5	13.5	7.7	8.8	6.6	7.9	11.1	10.2	10.6
% I.A.		100	99	100	100	82	99	100	100	92	100	95	100
North Maclean													
Annual average:	6.6												
Maximum 24-hour		16.6	27.2	47.7	23.0	15.0	7.4	8.0	6.4	7.8	6.9	9.0	11.9
% I.A.		100	100	99	100	100	100	99	100	80	99	100	98
Springwood													
Annual average:	6.1												
Maximum 24-hour		15.0	27.4	50.5	15.3	12.8	8.1	8.7	8.2	7.5	8.1	8.4	8.1
% I.A.		100	100	100	100	100	100	100	100	95	100	100	100
Southport													
Annual average:	5.2												
Maximum 24-hour		8.0	16.1	18.8	12.5	11.3	7.9	8.2	7.0	8.6	7.2	8.2	6.1
% I.A.		100	100	100	99	100	100	100	99	81	97	100	99
Coomera													
Annual average:	5.5												
Maximum 24-hour		9.4	17.2	20.7	13.8	12.9	7.8	8.4	7.0	7.5	7.3	8.6	7.1
% I.A.		100	100	100	100	100	100	99	100	81	100	100	100
Parkwood													
Annual average:	4.9												
Maximum 24-hour		6.4	17.3	20.9	12.0	13.0	5.6	8.0	7.0	8.1	8.3	10.3	9.8
% I.A.		100	100	100	100	100	100	99	99	81	100	100	100
Raceview[†]													
Annual average:	6.4												
Maximum 24-hour		n.d.	n.d.	n.d.	n.d.	n.d.	9.9	9.0	8.8	8.3	9.2	10.4	12.6
% I.A.		0	0	0	0	0	100	100	99	83	100	100	100
Mutdapilly													
Annual average:	5.9												
Maximum 24-hour		11.5	27.0	34.6	24.0	15.3	7.9	8.1	7.2	5.7	7.5	7.4	6.8
% I.A.		99	97	100	99	98	98	98	99	80	99	99	99
Toowoomba (Tor St)													
Annual average:	5.2												
Maximum 24-hour		8.7	25.2	16.4	11.0	14.6	7.0	23.9	5.8	4.9	6.1	10.3	6.5
% I.A.		100	100	100	100	100	100	100	94	98	100	100	97
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.													
[†] PM _{2.5} monitoring commenced at Raceview in December 2024.													
The EPP (Air) air quality objectives for PM _{2.5} are an annual average of 7µg/m ³ and a 24-hour average of 20µg/m ³ .													

TSP

Figure 27. Ambient concentrations of TSP at Cannon Hill site. Daily 24-hour average concentrations ($\mu\text{g}/\text{m}^3$), June 2025.

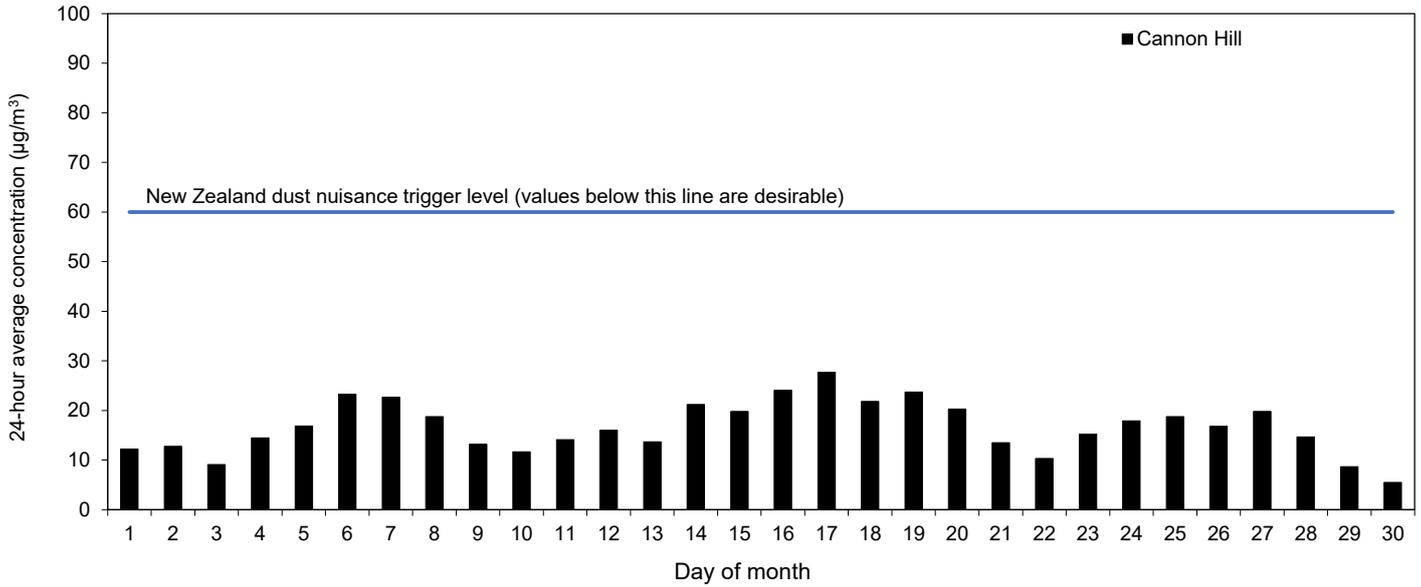


Table 10. Ambient concentrations of TSP. Annual average and monthly maximum 24-hour concentrations ($\mu\text{g}/\text{m}^3$), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Cannon Hill												
Annual average:	20.9											
Maximum 24-hour	30.5	47.7	45.4	34.0	44.8	47.2	40.1	37.9	31.6	32.8	35.8	27.7
% I.A.	100	100	99	99	95	95	99	99	81	100	100	99
% I.A. indicates instrument availability. - indicates less than three-fifths of the data are available. n.d. indicates no data are available.												
The EPP (Air) air quality objective for TSP is an annual average of $90\mu\text{g}/\text{m}^3$.												
The Department of the Environment, Tourism, Science and Innovation's Air Impacts Guideline recommends that short-term (24-hour) TSP concentrations be compared against the trigger levels provided in the New Zealand Ministry for the Environment's <i>Good Practice Guide for Assessing and Managing Dust</i> (2016) to assess dust nuisance impacts. The New Zealand dust nuisance trigger level for high sensitivity areas is a 24-hour average of $60\mu\text{g}/\text{m}^3$.												

Dustfall

Figure 28. Dust deposition rates at Cannon Hill (north), Cannon Hill (south) and Sherwood sites. Daily dust (insoluble solids fraction) deposition rate ($\text{mg}/\text{m}^2/\text{day}$), for month of June 2025.

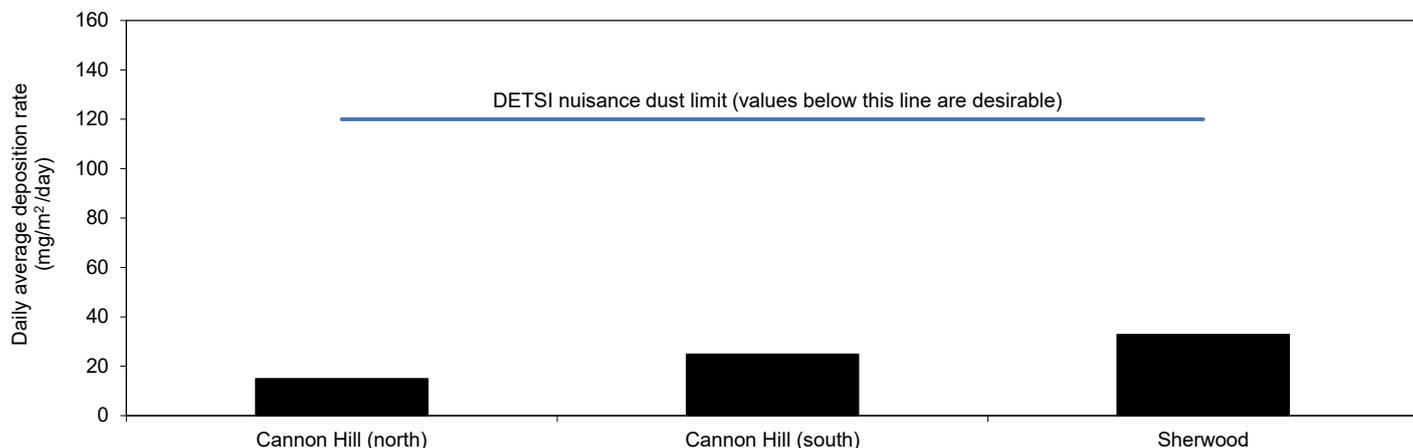


Figure 29. Dust deposition rates at Toowoomba (Brook St) and Toowoomba (Mort St) sites. Daily dust (insoluble solids fraction) deposition rate ($\text{mg}/\text{m}^2/\text{day}$), for month of June 2025.

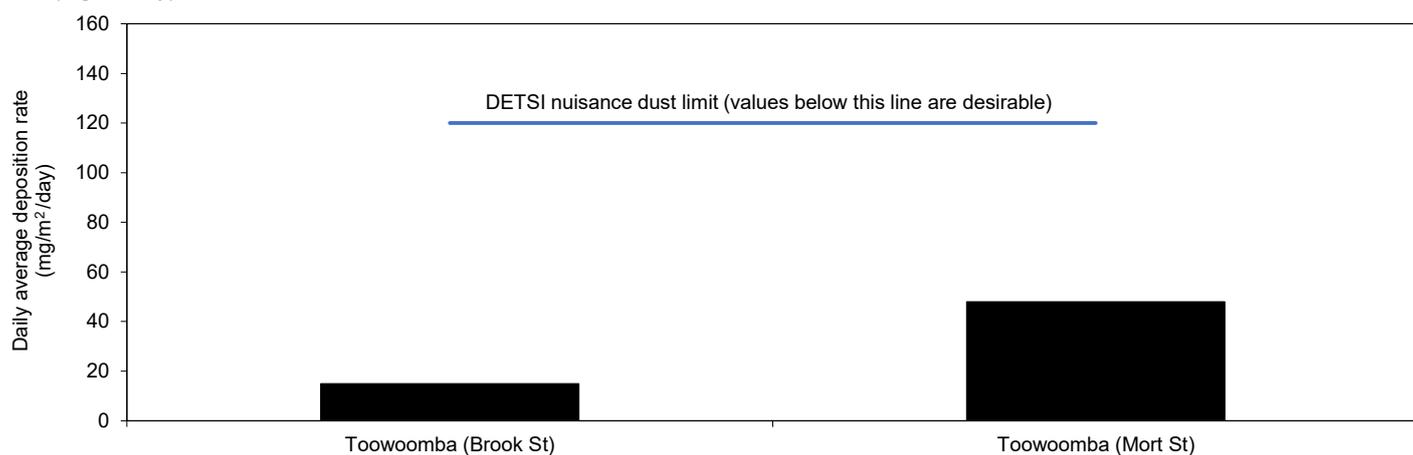


Table 11. Monthly average dust (insoluble fraction) deposition rate ($\text{mg}/\text{m}^2/\text{day}$), July 2024 to June 2025.

Site	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Cannon Hill (north)[†]												
Daily average	19	31	33	30	44	19	47	40	37	19	17	15
Cannon Hill (south)[†]												
Daily average	26	31	21	47	27	15	57	36	20	21	28	25
Sherwood												
Daily average	37	49	24	73	36	23	74	42	23	40	36	33
Toowoomba (Brook St)												
Daily average	50	35	163	n.d.	105	12	72	34	22	64	15	15
Toowoomba (Mort St)												
Daily average	87	39	43	53	116	178	90	78	52	49	<1	48

n.d. indicates no data are available.

[†] At Cannon Hill dustfall monitoring is carried out on both sides of the rail corridor.

The Department of the Environment, Tourism, Science and Innovation's Air Impacts Guideline recommends a dust deposition limit of $120\text{mg}/\text{m}^2/\text{day}$, averaged over one month, be used to assess dust nuisance.

There is a minimum dust deposition rate that can be determined with the sampling equipment and laboratory method used. Dust deposition rates below this minimum reporting value are preceded by a "<" sign in this table.

Data availability

When required, Table 12 summarises the reasons for data availability below the minimum criteria for reporting at Southern Queensland monitoring sites.

Table 12. Reasons for low data availability at Southern Queensland ambient air monitoring sites during June 2025.

Station	Air Pollutant	Cause
Nil		

Related air quality information

Current hourly air quality data is available online at <https://apps.des.qld.gov.au/air-quality/>.

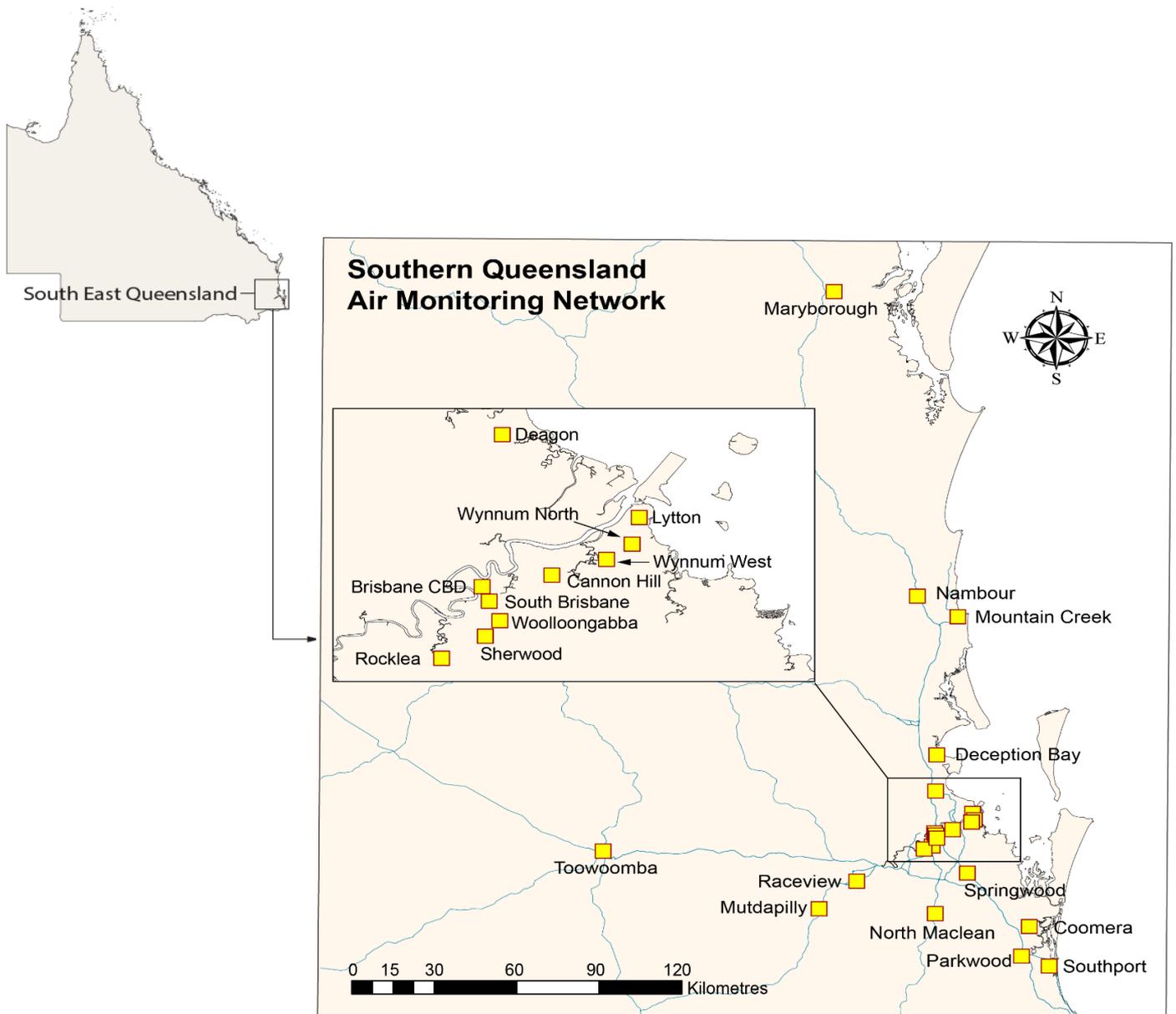
Additional information on air quality monitoring and related issues is also available from the above website.

Further information

For further information about the data presented in this bulletin or related publications, contact:

Air Quality Monitoring
 Coastal and Air Unit
 Science Division
 Department of the Environment, Tourism, Science and Innovation
 Ecosciences Precinct
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Figure 30. Southern Queensland ambient air quality monitoring site locations.



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