



Transurban Queensland

AirportlinkM7 Ambient Air Quality Monitoring Report

June 2018

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ENVIRONMENTAL MONITORING TECHNOLOGIES

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Glossary

The following terms and abbreviations may be found throughout this report:

AQMS – Air Quality Monitoring Station
EPA – Environment Protection Authority
NO – Nitric Oxide
NO₂ – Nitrogen Dioxide
NO_x – Nitrogen Oxides
CO – Carbon Monoxide
PM₁₀ – Particulate matter of 10 microns or less aerodynamic equivalent size
PM_{2.5} – Particulate matter of 2.5 microns or less aerodynamic equivalent size
TSP – Total Suspended Particulate
HVAS – High Volume Air Sampler
ppm – Parts Per Million
µg/m³ – micrograms per cubic meter
AHS – Aviation High School
KSHS – Kedron State High School
LS – Lewis Street
ALOC – Airportlink Operation Centre
CS – Cartwright St

Executive Summary

Exceedance Reporting

There were no readings over the relevant Air Quality Standards during the reporting period. It should be noted that the yearly averages are cumulative from the 1st of January and are an indication only until the December report.

AirportlinkM7 AQMS Exceedance Reporting June 2018							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences June 2018				
			Station 1 (AHS)	Station 2 (KSHS)	Station 3 (LS)	Station 4 (ALOC)	Station 5 (CS)
Carbon Monoxide	8 hour (rolling average)	8 ppm	0	0	0	0	0
Nitrogen dioxide	1 hour	0.120 ppm	0	0	0	0	0
	1 year	0.030 ppm	0	0	0	0	0
PM2.5	24 hour	25 µg/m ³	0	0	0	0	0
	1 year	8 µg/m ³	0	0	0	0	0
PM10	24 hour	50 µg/m ³	0	0	0	0	0
	1 Year	50 µg/m ³	0	0	0	0	0
TSP	1 Year	90 µg/m ³	0	0	0	0	0

Table 1 Exceedance Reporting

Maximum allowed concentration criteria are as specified in Condition 19(k) of the Conditions of Approval.

Introduction

Norditech Pty Ltd was appointed by Ventia Pty Limited in February 2015 to operate, maintain and report on the AirportlinkM7 Air Quality Monitoring Network.

The AirportlinkM7 Air Quality Monitoring Network consists of five sites located in close proximity to key locations of the Airportlink project and is a requirement of the Conditions of Approval issued by the Coordinator General.

The addresses of the two parties are as follows

AirportlinkM7
PO Box 412
Lutwyche QLD 4030

Norditech Pty Ltd
Unit 36/70 Holbeche Rd
Arndell Park NSW 2148

Monitoring

Site Locations

AirportlinkM7 Site Location Coordinates		
	Latitude	Longitude
Station 1 (Aviation High School)	-27° 24' 46.5084"	153° 3' 48.0744"
Station 2 (Kedron State High School)	-27° 24' 47.5344"	153° 2' 17.8476"
Station 3 (Lewis Street)	-27° 24' 39.5532"	153° 3' 18.18"
Station 4 (Airportlink Operation Centre)	-27° 24' 43.2252"	153° 1' 58.3104"
Station 5 (Cartwright Street)	-27° 26' 22.5852"	153° 2' 5.784"

Table 2 Site Location Coordinates

Station Instrumentation Details

Each station continuously monitors the following pollutants:

- NO (Nitrogen Oxide)
- NO₂ (Nitrogen Dioxide)
- NO_x (Total Oxides of Nitrogen)
- CO (Carbon Monoxide)
- PM₁₀
- PM_{2.5}
- TSP (Samples on a 1 in 6 day cycle)

Monthly validated data for each site are provided in the following Microsoft® Excel™ spreadsheet

- 201806 ALM7 Monthly Validated Data Spreadsheet.xlsx
 - Sheet 1 – 5 minute average data
 - Sheet 2 – 1 hour average data
 - Sheet 3 – 8 hour average data
 - Sheet 4 – 24 hour average data

Instrumentation Details								
Parameter	Units	Uncertainty	Method	Station 1	Station 2	Last Calibration Date		
NO NO ₂ NO _x	ppm	2.78%	AS 3580.5.1	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
CO	ppm	2.56%	AS 3580.7.1	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	31/05/2018	31/05/2018	31/05/2018	31/05/2018	31/05/2018
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	31/05/2018	31/05/2018	31/05/2018	31/05/2018	31/05/2018
TSP	µg/m ³	7.34%	AS 3580.9.3	31/05/2018	31/05/2018	31/05/2018	31/05/2018	31/05/2018

Table 3 Instrumentation Details

* These sites have TEOMs installed operating under method AS 3580.9.8

Data Logging

Data are recorded to a WinAQMS data logger located at each site at 5 minute averaging periods, calculated from 10 second samples. All data are retrieved periodically, approximately on an hourly basis, over a private 3G network, to a central WinCollect database, where data validation is performed to remove any data not deemed as valid prior to reporting. Data validation is performed as per the relevant standard, and/or as per the instrument manufacturers recommended guidelines.

All averages greater than 5 minute averages are calculated from the 5 minute average data set. 75% valid data must be available to calculate re-averaged data. For example, to calculate a 1hr average from 5 minute data, there must be a minimum of 9 out of 12 valid 5 minute average data points available.

Annual averages start from January 1st and contain the average of the current year's data.

All data is recorded to Australian Eastern Standard Time.

Data capture rates are calculated as per the following formula:

$$\text{Data Capture Rate \%} = \frac{\text{Available data points}}{\text{Total data points}} * 100$$

where:

Available data points = total number of 5 minute averages for the reporting period in which valid data was recorded

Total data points = total number of 5 minute averages for the reporting period inclusive of invalid data

Results

Station 1 (Aviation High School)

Summary

Station 1 Aviation High School Ambient AQMS Summary June 2018						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.039	13/06/2018 17:00	96.8
NO ₂	ppm	0.030	12 Months	0.006	--	95.9
CO	ppm	8	8 Hours	0.6	25/06/2018 01:00	77.0
PM _{2.5}	µg/m3	25	24 Hours	15.1	24/06/2018	91.9
PM _{2.5}	µg/m3	8	12 Months	5.3	--	93.2
PM ₁₀	µg/m3	50	24 Hours	20.4	24/06/2018	74.7
PM ₁₀	µg/m3	50	12 Months	15.2	--	94.2
TSP	µg/m3	--	24 Hours	32.0	13/06/2018	100.0
TSP	µg/m3	90	12 Months	25.4	--	100.0

Table 4 Station 1 Monthly Summary

Graphical Representations

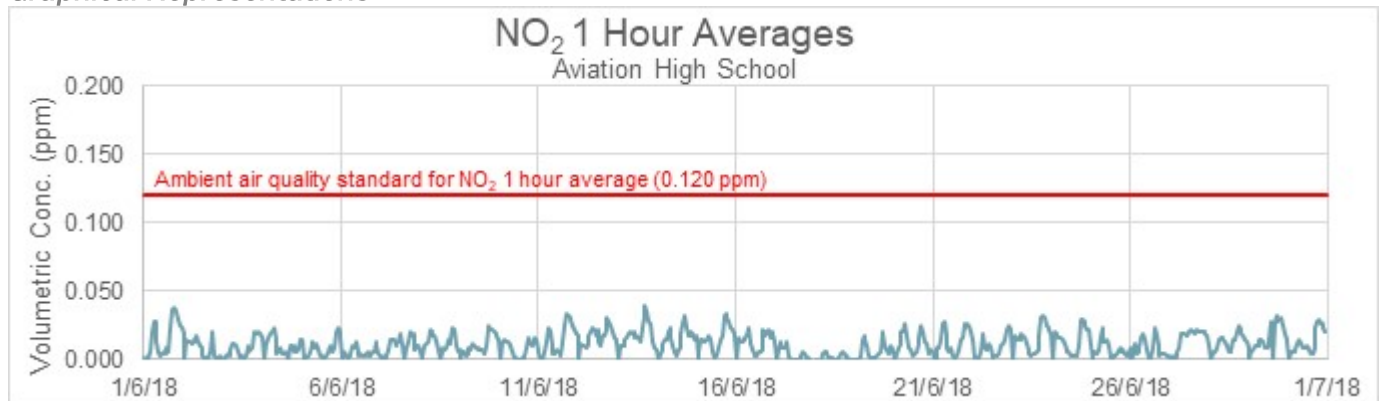


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

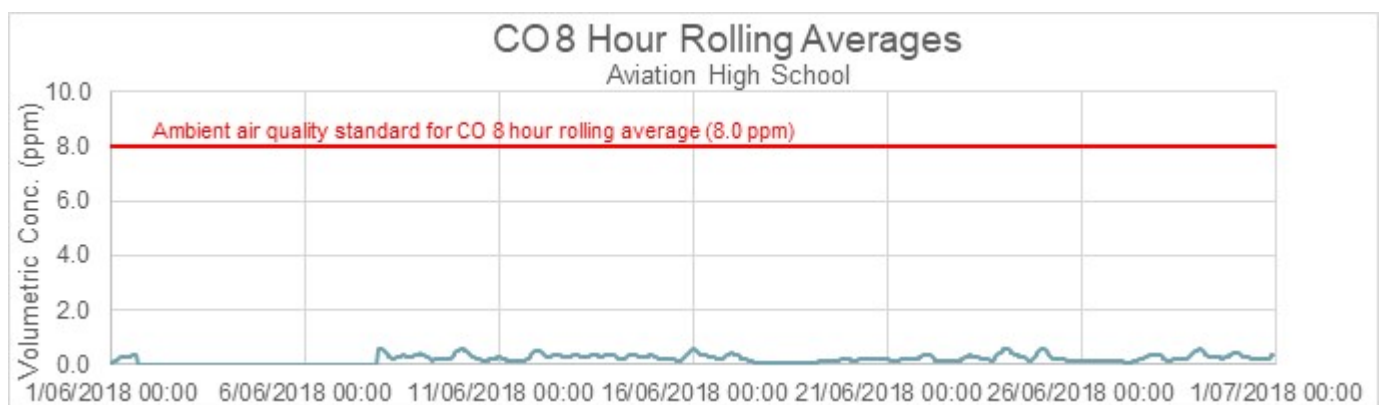


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

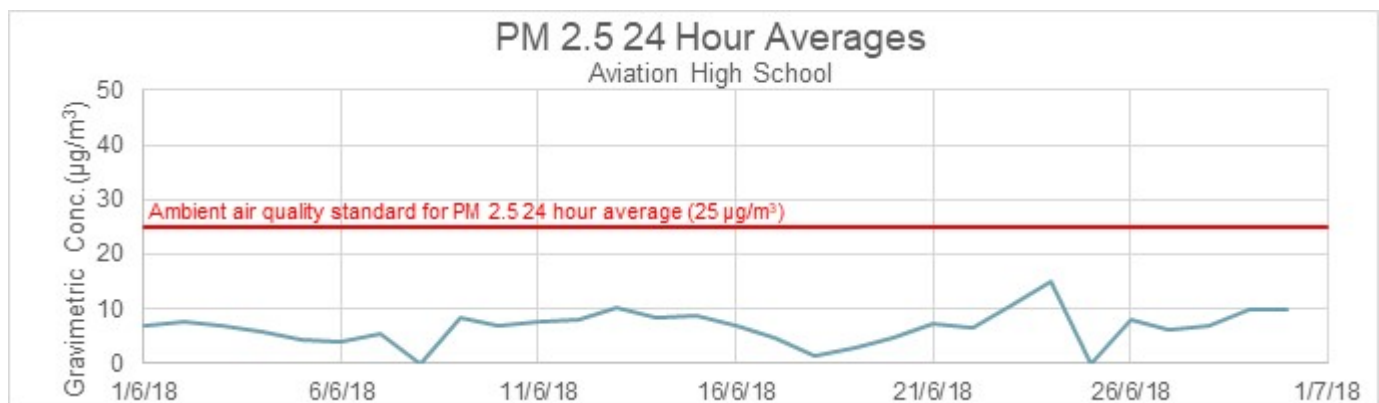


Figure 3 Station 1 PM2.5 24hr averages

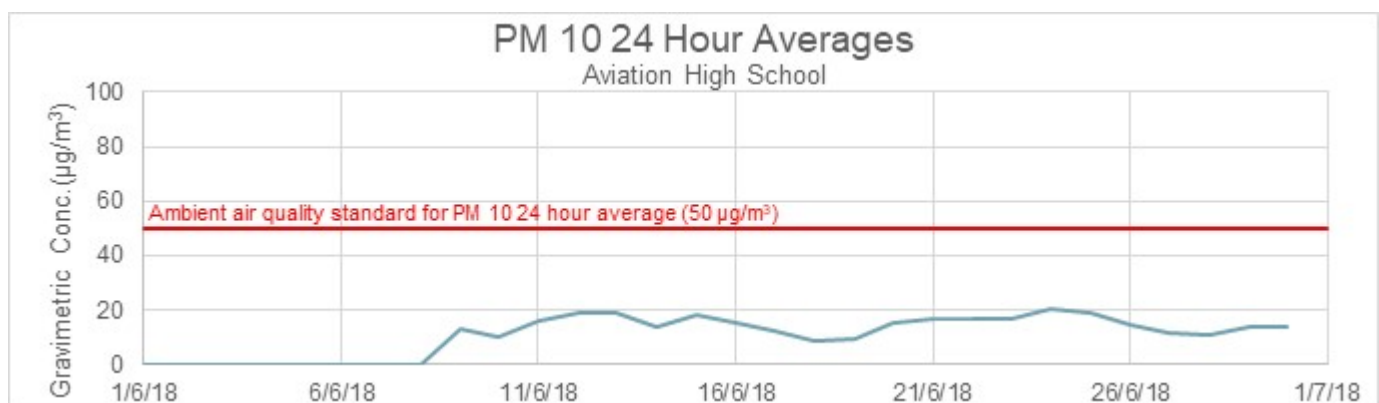


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary June 2018						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2018	0.016	0.001	0.038	18:00	0	97.2
2/06/2018	0.009	0.001	0.021	18:00	0	97.2
3/06/2018	0.009	0.001	0.021	19:00	0	97.2
4/06/2018	0.011	0.004	0.024	07:00	0	92.4
5/06/2018	0.008	0.001	0.023	22:00	0	97.2
6/06/2018	0.006	0.001	0.016	00:00	0	97.2
7/06/2018	0.011	0.002	0.020	18:00	0	92.4
8/06/2018	0.012	0.003	0.024	20:00	0	95.5
9/06/2018	0.012	0.003	0.024	18:00	0	97.2
10/06/2018	0.009	0.000	0.016	18:00	0	97.2
11/06/2018	0.014	0.000	0.033	17:00	0	97.2
12/06/2018	0.018	0.009	0.031	18:00	0	97.2
13/06/2018	0.019	0.009	0.039	17:00	0	97.2
14/06/2018	0.015	0.003	0.032	17:00	0	97.2
15/06/2018	0.016	0.001	0.034	18:00	0	97.2
16/06/2018	0.014	0.003	0.023	08:00	0	97.2
17/06/2018	0.004	-0.001	0.013	03:00	0	97.2
18/06/2018	0.002	-0.002	0.006	17:00	0	97.2
19/06/2018	0.007	-0.001	0.021	17:00	0	97.2
20/06/2018	0.011	0.003	0.027	07:00	0	97.2
21/06/2018	0.013	0.000	0.028	07:00	0	97.2
22/06/2018	0.010	0.000	0.025	22:00	0	97.2
23/06/2018	0.016	0.003	0.032	19:00	0	97.2
24/06/2018	0.014	0.002	0.030	19:00	0	97.2
25/06/2018	0.008	0.002	0.023	07:00	0	97.2
26/06/2018	0.008	0.001	0.024	15:00	0	97.2
27/06/2018	0.015	0.000	0.022	13:00	0	97.2
28/06/2018	0.013	0.005	0.025	18:00	0	97.2
29/06/2018	0.017	0.006	0.033	17:00	0	94.8
30/06/2018	0.013	0.005	0.029	19:00	0	97.2

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 5 Station 1 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary June 2018								
Date	24 hr Avg (ppm)	1 hr Aves			8 hr Rolling Aves		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
¹ 1/06/2018	-	0.1	0.4	13:00	0.3	16:00	0	60.4
¹ 2/06/2018	-	-	-	-	-	-	0	0.0
¹ 3/06/2018	-	-	-	-	-	-	0	0.0
¹ 4/06/2018	-	-	-	-	-	-	0	0.0
¹ 5/06/2018	-	-	-	-	-	-	0	0.0
¹ 6/06/2018	-	-	-	-	-	-	0	0.0
¹ 7/06/2018	-	0.5	0.7	18:00	0.6	23:00	0	34.7
8/06/2018	0.3	0.1	0.5	21:00	0.5	00:00	0	94.8
9/06/2018	0.3	0.2	0.7	19:00	0.5	23:00	0	96.5
10/06/2018	0.2	0.1	0.5	00:00	0.6	01:00	0	96.5
11/06/2018	0.3	0.1	0.7	21:00	0.5	23:00	0	96.5
12/06/2018	0.3	0.2	0.5	07:00	0.5	01:00	0	96.5
13/06/2018	0.3	0.2	0.5	17:00	0.4	20:00	0	96.5
14/06/2018	0.3	0.1	0.6	07:00	0.4	11:00	0	96.5
15/06/2018	0.3	0.1	0.7	19:00	0.5	23:00	0	96.5
16/06/2018	0.3	0.1	0.5	22:00	0.5	00:00	0	96.5
17/06/2018	0.1	0.1	0.3	03:00	0.4	00:00	0	96.5
18/06/2018	0.1	0.0	0.1	07:00	0.1	00:00	0	96.5
19/06/2018	0.2	0.1	0.3	18:00	0.2	23:00	0	96.5
20/06/2018	0.2	0.1	0.4	07:00	0.2	11:00	0	96.5
21/06/2018	0.2	0.1	0.6	21:00	0.4	23:00	0	96.5
22/06/2018	0.2	0.1	0.4	22:00	0.4	01:00	0	96.5
23/06/2018	0.3	0.1	0.7	20:00	0.5	23:00	0	96.5
24/06/2018	0.4	0.1	0.8	20:00	0.6	01:00	0	96.5
25/06/2018	0.2	0.1	0.3	00:00	0.6	01:00	0	96.5
26/06/2018	0.1	0.1	0.2	08:00	0.1	00:00	0	96.5
27/06/2018	0.2	0.1	0.5	18:00	0.4	20:00	0	96.5
28/06/2018	0.3	0.1	0.8	20:00	0.5	23:00	0	96.5
29/06/2018	0.3	0.2	0.5	20:00	0.6	02:00	0	94.1
30/06/2018	0.3	0.2	0.6	23:00	0.4	01:00	0	96.5

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument fault

Table 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM _{2.5} Summary June 2018						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2018	6.8	-0.4	18.9	22:00	0	91.7
2/06/2018	7.8	-0.5	16.6	00:00	0	95.8
3/06/2018	7.1	2.2	21.0	23:00	0	91.7
4/06/2018	5.8	1.5	13.6	00:00	0	87.5
5/06/2018	4.4	-1.7	7.0	02:00	0	100.0
6/06/2018	3.9	0.3	6.7	07:00	0	91.7
7/06/2018	5.3	1.3	11.0	21:00	0	83.3
¹ 8/06/2018	-	3.1	11.0	08:00	0	70.8
9/06/2018	8.4	2.0	19.8	20:00	0	83.3
10/06/2018	7.0	0.2	15.7	02:00	0	87.5
11/06/2018	7.6	2.2	21.5	20:00	0	100.0
12/06/2018	7.9	5.0	14.2	11:00	0	91.7
13/06/2018	10.2	5.0	19.0	07:00	0	91.7
14/06/2018	8.3	5.0	13.0	18:00	0	83.3
15/06/2018	8.8	5.0	15.8	21:00	0	95.8
16/06/2018	6.9	-2.0	20.4	21:00	0	91.7
17/06/2018	4.6	-0.8	13.4	00:00	0	100.0
18/06/2018	1.3	-1.8	4.8	19:00	0	100.0
19/06/2018	3.0	0.0	6.7	22:00	0	100.0
20/06/2018	4.7	-0.7	10.0	18:00	0	100.0
21/06/2018	7.2	3.0	15.9	22:00	0	100.0
22/06/2018	6.5	3.1	12.6	23:00	0	95.8
23/06/2018	10.6	1.0	30.1	21:00	0	95.8
24/06/2018	15.1	4.0	30.3	19:00	0	91.7
¹ 25/06/2018	-	4.9	27.6	01:00	0	58.3
26/06/2018	7.9	3.1	37.9	19:00	0	100.0
27/06/2018	6.4	3.0	12.0	21:00	0	100.0
28/06/2018	6.9	2.0	16.7	21:00	0	95.8
29/06/2018	10.0	5.0	17.9	21:00	0	87.5
30/06/2018	9.8	3.2	17.6	23:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument fault

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM ₁₀ Summary June 2018						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
¹ 1/06/2018	-	-	-	-	0	0.0
¹ 2/06/2018	-	-	-	-	0	0.0
¹ 3/06/2018	-	-	-	-	0	0.0
¹ 4/06/2018	-	-	-	-	0	0.0
¹ 5/06/2018	-	-	-	-	0	0.0
¹ 6/06/2018	-	-	-	-	0	0.0
¹ 7/06/2018	-	-	-	-	0	0.0
¹ 8/06/2018	-	4.1	14.5	20:00	0	45.8
9/06/2018	12.8	7.5	25.3	20:00	0	100.0
10/06/2018	10.1	4.1	18.3	18:00	0	100.0
11/06/2018	15.8	5.6	40.6	22:00	0	100.0
12/06/2018	18.8	9.1	30.0	09:00	0	100.0
13/06/2018	18.7	9.2	28.3	07:00	0	100.0
14/06/2018	13.8	7.4	23.1	07:00	0	100.0
15/06/2018	18.5	9.0	26.8	16:00	0	100.0
16/06/2018	15.5	6.3	24.6	20:00	0	100.0
17/06/2018	12.4	8.5	19.2	11:00	0	100.0
18/06/2018	8.8	6.2	20.0	14:00	0	100.0
19/06/2018	9.2	6.4	15.8	07:00	0	100.0
20/06/2018	15.1	5.8	25.6	17:00	0	100.0
21/06/2018	16.6	10.6	25.6	19:00	0	100.0
22/06/2018	16.5	12.4	20.7	17:00	0	100.0
23/06/2018	16.8	6.2	34.8	20:00	0	100.0
24/06/2018	20.4	6.9	42.2	18:00	0	100.0
25/06/2018	19.2	14.1	31.6	00:00	0	100.0
26/06/2018	14.5	3.6	24.7	14:00	0	100.0
27/06/2018	11.5	3.2	19.5	12:00	0	100.0
28/06/2018	10.7	4.7	22.6	20:00	0	100.0
29/06/2018	13.6	7.2	37.8	14:00	0	95.8
30/06/2018	13.6	6.2	23.4	22:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument fault

Table 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary June 2018						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.034	01/06/2018 19:00	76.4
NO ₂	ppm	0.030	12 Months	0.008	--	92.5
CO	ppm	8	8 Hours	0.5	02/06/2018 01:00	76.2
PM _{2.5}	µg/m3	25	24 Hours	10.9	30/06/2018	78.9
PM _{2.5}	µg/m3	8	12 Months	7.0	--	91.5
PM ₁₀	µg/m3	50	24 Hours	17.0	13/06/2018	78.9
PM ₁₀	µg/m3	50	12 Months	14.9	--	93.4
TSP	µg/m3	--	24 Hours	33.2	25/06/2018	100.0
TSP	µg/m3	90	12 Months	25.0	--	96.7

Table 9 Station 2 Monthly Summary

Graphical Representations

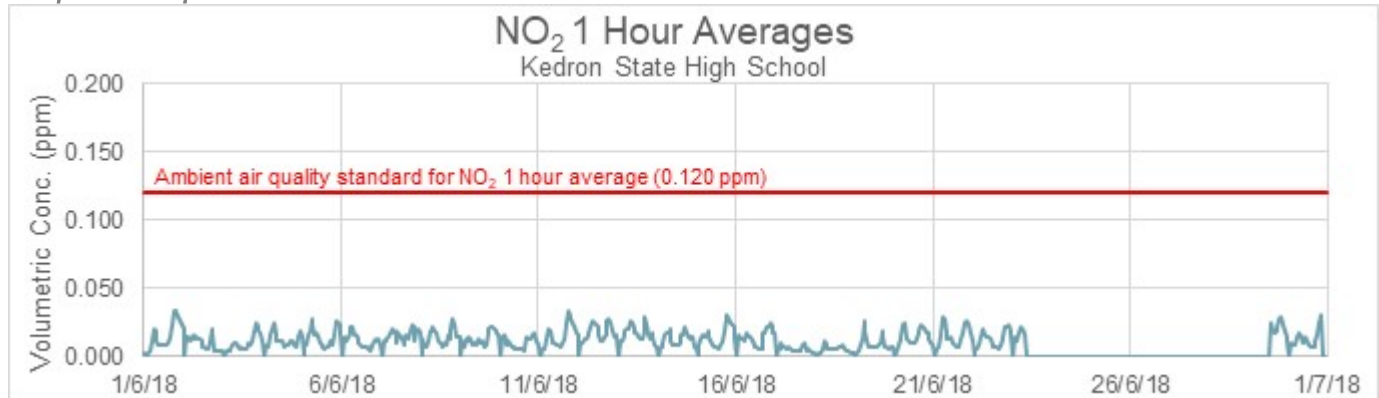


Figure 5 Station 2 Dioxide 1hr averages

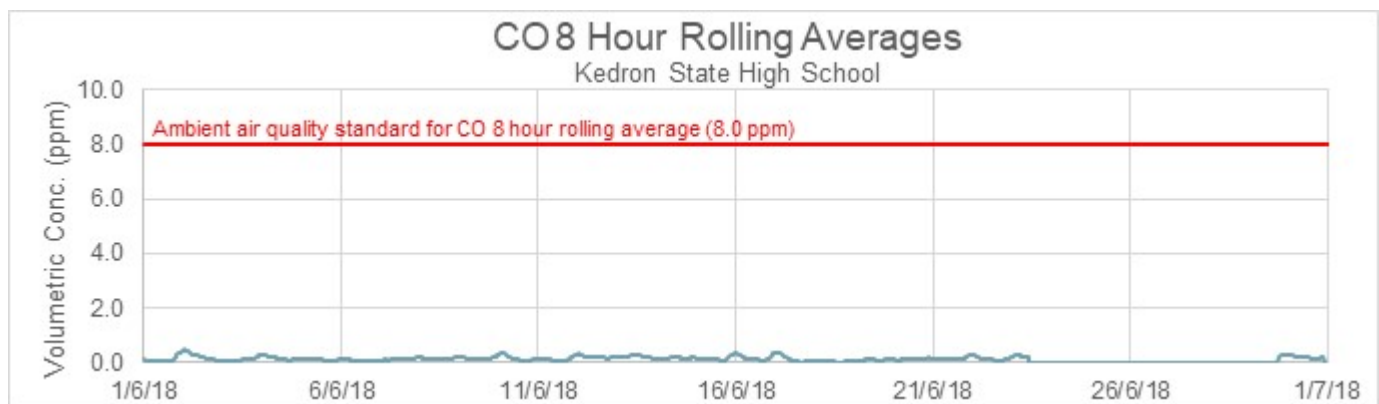


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

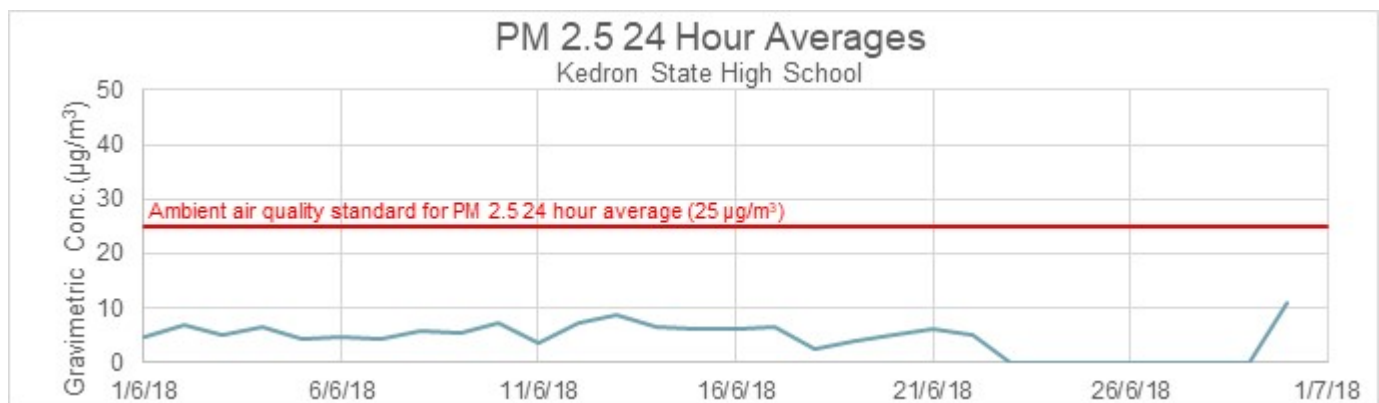


Figure 7 Station 2 PM2.5 24hr averages

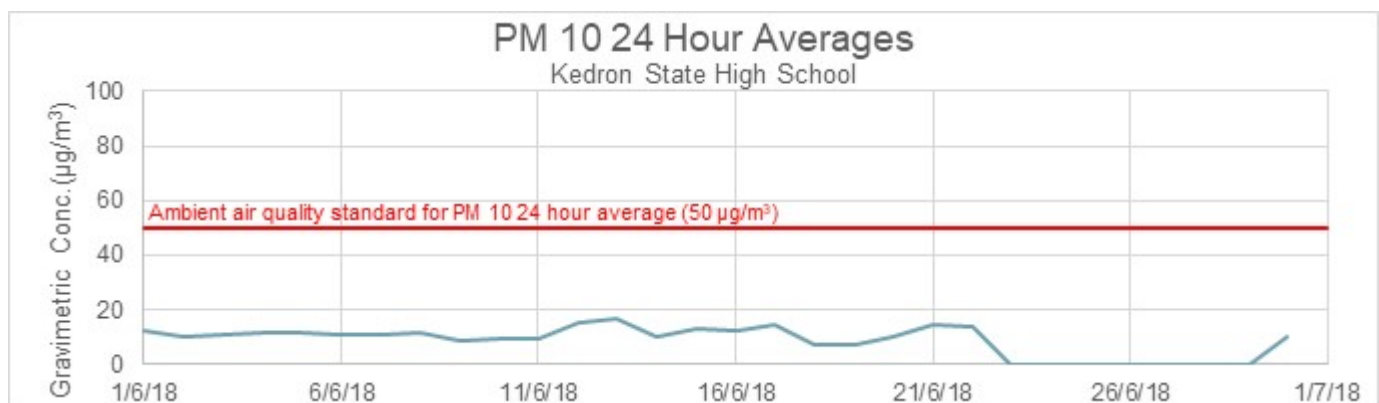


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary June 2018						
Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/06/2018	0.015	0.003	0.034	19:00	0	96.5
2/06/2018	0.011	0.003	0.021	00:00	0	96.9
3/06/2018	0.010	0.004	0.025	20:00	0	96.9
4/06/2018	0.012	0.007	0.025	07:00	0	96.9
5/06/2018	0.015	0.006	0.027	06:00	0	96.5
6/06/2018	0.012	0.005	0.022	07:00	0	96.9
7/06/2018	0.015	0.009	0.023	19:00	0	96.9
8/06/2018	0.015	0.007	0.028	20:00	0	96.9
9/06/2018	0.014	0.007	0.022	20:00	0	96.9
10/06/2018	0.011	0.005	0.018	21:00	0	96.9
11/06/2018	0.015	0.005	0.034	18:00	0	96.9
12/06/2018	0.018	0.011	0.028	19:00	0	96.9
13/06/2018	0.017	0.009	0.029	17:00	0	96.5
14/06/2018	0.013	0.007	0.022	17:00	0	96.9
15/06/2018	0.015	0.005	0.031	19:00	0	96.5
16/06/2018	0.014	0.005	0.024	21:00	0	96.9
17/06/2018	0.006	0.003	0.017	00:00	0	97.2
18/06/2018	0.005	0.002	0.012	06:00	0	96.9
19/06/2018	0.009	0.002	0.026	06:00	0	96.9
20/06/2018	0.014	0.004	0.025	07:00	0	97.2
21/06/2018	0.015	0.005	0.029	06:00	0	96.9
22/06/2018	0.013	0.006	0.023	22:00	0	96.5
¹ 23/06/2018	-	0.011	0.022	05:00	0	34.7
¹ 24/06/2018	-	-	-	-	0	0.0
¹ 25/06/2018	-	-	-	-	0	0.0
¹ 26/06/2018	-	-	-	-	0	0.0
¹ 27/06/2018	-	-	-	-	0	0.0
¹ 28/06/2018	-	-	-	-	0	0.0
¹ 29/06/2018	-	0.014	0.029	20:00	0	42.4
30/06/2018	0.013	0.007	0.030	20:00	0	85.4

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to data logger fault

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary June 2018								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/06/2018	0.2	0.0	0.6	19:00	0.4	23:00	0	96.2
2/06/2018	0.2	0.0	0.3	00:00	0.5	01:00	0	96.5
3/06/2018	0.2	0.1	0.4	21:00	0.3	23:00	0	96.5
4/06/2018	0.1	0.1	0.3	07:00	0.3	01:00	0	96.5
5/06/2018	0.1	0.0	0.3	22:00	0.1	23:00	0	96.2
6/06/2018	0.1	0.0	0.1	07:00	0.1	01:00	0	96.5
7/06/2018	0.1	0.1	0.3	19:00	0.2	23:00	0	96.5
8/06/2018	0.2	0.1	0.3	19:00	0.2	23:00	0	96.5
9/06/2018	0.2	0.1	0.4	20:00	0.3	23:00	0	96.5
10/06/2018	0.1	0.1	0.3	00:00	0.3	02:00	0	96.5
11/06/2018	0.2	0.1	0.4	20:00	0.3	23:00	0	96.5
12/06/2018	0.2	0.1	0.3	09:00	0.3	01:00	0	96.5
13/06/2018	0.2	0.1	0.5	08:00	0.3	11:00	0	96.2
14/06/2018	0.2	0.1	0.4	07:00	0.2	12:00	0	96.5
15/06/2018	0.2	0.0	0.5	18:00	0.3	23:00	0	96.2
16/06/2018	0.2	0.0	0.5	23:00	0.3	01:00	0	96.5
17/06/2018	0.1	0.0	0.5	00:00	0.4	01:00	0	96.9
18/06/2018	0.0	0.0	0.1	17:00	0.0	00:00	0	96.5
19/06/2018	0.1	0.0	0.3	06:00	0.1	08:00	0	96.5
20/06/2018	0.1	0.1	0.3	07:00	0.2	22:00	0	96.9
21/06/2018	0.2	0.1	0.4	21:00	0.3	23:00	0	96.5
22/06/2018	0.1	0.1	0.3	22:00	0.3	01:00	0	96.2
¹ 23/06/2018	-	0.2	0.3	00:00	0.3	03:00	0	34.7
¹ 24/06/2018	-	-	-	-	-	-	0	0.0
¹ 25/06/2018	-	-	-	-	-	-	0	0.0
¹ 26/06/2018	-	-	-	-	-	-	0	0.0
¹ 27/06/2018	-	-	-	-	-	-	0	0.0
¹ 28/06/2018	-	-	-	-	-	-	0	0.0
¹ 29/06/2018	-	0.2	0.4	20:00	0.3	23:00	0	42.0
30/06/2018	0.2	0.1	0.3	19:00	0.3	01:00	0	85.4

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to data logger gfault

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM2.5 Summary

Station 2 KSHS Ambient AQMS Particulate PM2.5 Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	4.7	1.8	12.8	23:00	0	100.0
2/06/2018	7.0	2.1	13.5	08:00	0	100.0
3/06/2018	4.9	2.6	8.2	20:00	0	100.0
4/06/2018	6.6	1.8	13.7	00:00	0	100.0
5/06/2018	4.4	1.7	10.3	08:00	0	100.0
6/06/2018	4.8	1.4	7.9	10:00	0	100.0
7/06/2018	4.4	2.2	8.4	20:00	0	100.0
8/06/2018	5.9	1.6	13.3	20:00	0	100.0
9/06/2018	5.3	1.4	11.0	23:00	0	100.0
10/06/2018	7.3	1.8	16.0	00:00	0	100.0
11/06/2018	3.7	1.3	8.1	22:00	0	100.0
12/06/2018	7.3	3.6	13.5	10:00	0	100.0
13/06/2018	8.7	2.4	21.7	10:00	0	100.0
14/06/2018	6.6	2.6	14.1	08:00	0	100.0
15/06/2018	6.4	1.8	10.9	06:00	0	100.0
16/06/2018	6.1	0.8	16.8	02:00	0	100.0
17/06/2018	6.6	1.5	17.7	02:00	0	100.0
18/06/2018	2.6	1.1	6.7	20:00	0	100.0
19/06/2018	4.0	1.5	9.2	20:00	0	100.0
20/06/2018	5.3	1.6	10.2	22:00	0	100.0
21/06/2018	6.1	1.9	12.4	16:00	0	100.0
22/06/2018	5.3	1.9	9.0	23:00	0	100.0
¹ 23/06/2018	-	6.9	12.6	02:00	0	37.5
¹ 24/06/2018	-	-	-	-	0	0.0
¹ 25/06/2018	-	-	-	-	0	0.0
¹ 26/06/2018	-	-	-	-	0	0.0
¹ 27/06/2018	-	-	-	-	0	0.0
¹ 28/06/2018	-	-	-	-	0	0.0
¹ 29/06/2018	-	4.5	20.5	20:00	0	41.7
30/06/2018	10.9	3.4	22.7	20:00	0	87.5

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to data logger fault

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	12.7	5.8	22.6	21:00	0	100.0
2/06/2018	10.1	3.8	16.3	00:00	0	100.0
3/06/2018	11.1	5.3	22.4	22:00	0	100.0
4/06/2018	11.4	3.7	16.9	08:00	0	100.0
5/06/2018	11.4	7.3	25.4	23:00	0	100.0
6/06/2018	11.2	5.5	16.7	10:00	0	100.0
7/06/2018	10.8	3.8	22.7	20:00	0	100.0
8/06/2018	12.0	6.2	18.2	12:00	0	100.0
9/06/2018	8.9	3.3	16.7	08:00	0	100.0
10/06/2018	9.3	2.0	18.6	00:00	0	100.0
11/06/2018	9.3	3.4	23.9	22:00	0	100.0
12/06/2018	15.5	7.9	23.2	16:00	0	100.0
13/06/2018	17.0	8.6	29.3	10:00	0	100.0
14/06/2018	10.5	3.6	17.8	18:00	0	100.0
15/06/2018	12.9	8.9	17.7	22:00	0	100.0
16/06/2018	12.2	6.4	19.0	23:00	0	100.0
17/06/2018	14.5	7.8	24.9	00:00	0	100.0
18/06/2018	7.4	3.3	18.0	00:00	0	100.0
19/06/2018	7.4	2.9	12.9	20:00	0	100.0
20/06/2018	10.0	2.5	22.5	16:00	0	100.0
21/06/2018	14.3	9.3	19.6	22:00	0	100.0
22/06/2018	14.1	9.5	17.0	14:00	0	100.0
¹ 23/06/2018	-	7.3	15.1	02:00	0	37.5
¹ 24/06/2018	-	-	-	-	0	0.0
¹ 25/06/2018	-	-	-	-	0	0.0
¹ 26/06/2018	-	-	-	-	0	0.0
¹ 27/06/2018	-	-	-	-	0	0.0
¹ 28/06/2018	-	-	-	-	0	0.0
¹ 29/06/2018	-	9.6	20.2	22:00	0	41.7
30/06/2018	10.1	6.7	15.7	10:00	0	87.5

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to data logger fault

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary June 2018						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.033	01/06/2018 18:00	93.1
NO ₂	ppm	0.030	12 Months	0.009	--	89.7
CO	ppm	8	8 Hours	0.8	24/06/2018 01:00	92.6
PM _{2.5}	µg/m3	25	24 Hours	16.0	24/06/2018	94.2
PM _{2.5}	µg/m3	8	12 Months	7.0	--	91.1
PM ₁₀	µg/m3	50	24 Hours	26.7	24/06/2018	94.4
PM ₁₀	µg/m3	50	12 Months	17.2	--	88.0
TSP	µg/m3	--	24 Hours	31.0	25/06/2018	100.0
TSP	µg/m3	90	12 Months	23.0	--	100.0

Table 14 Station 3 Monthly Summary

Graphical Representations

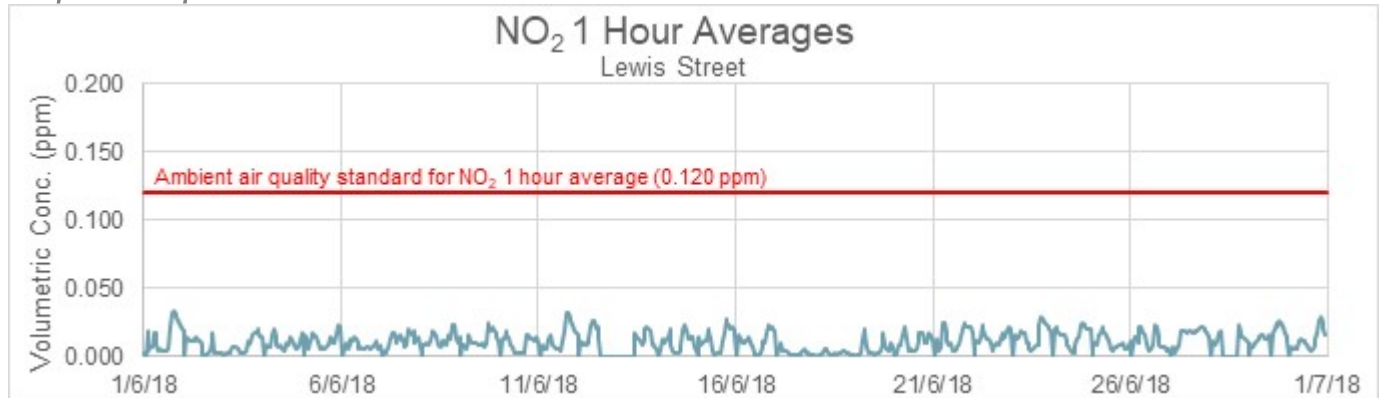


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

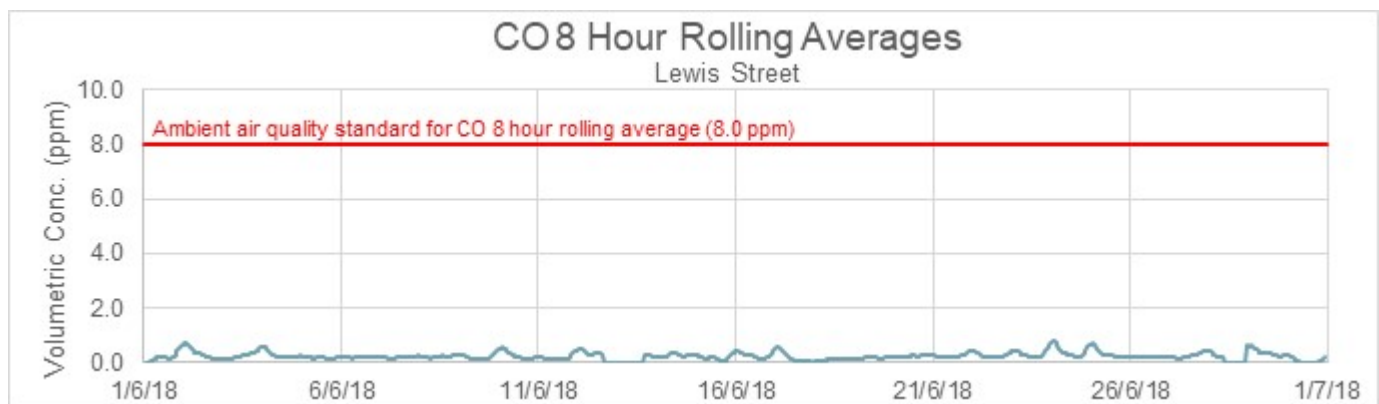


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

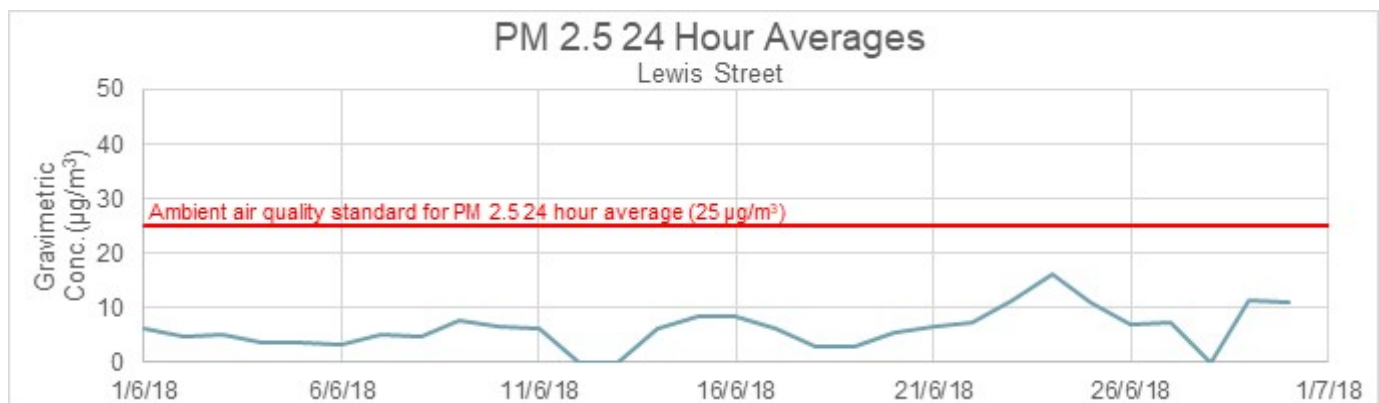


Figure 11 Station 3 PM2.5 24hr averages

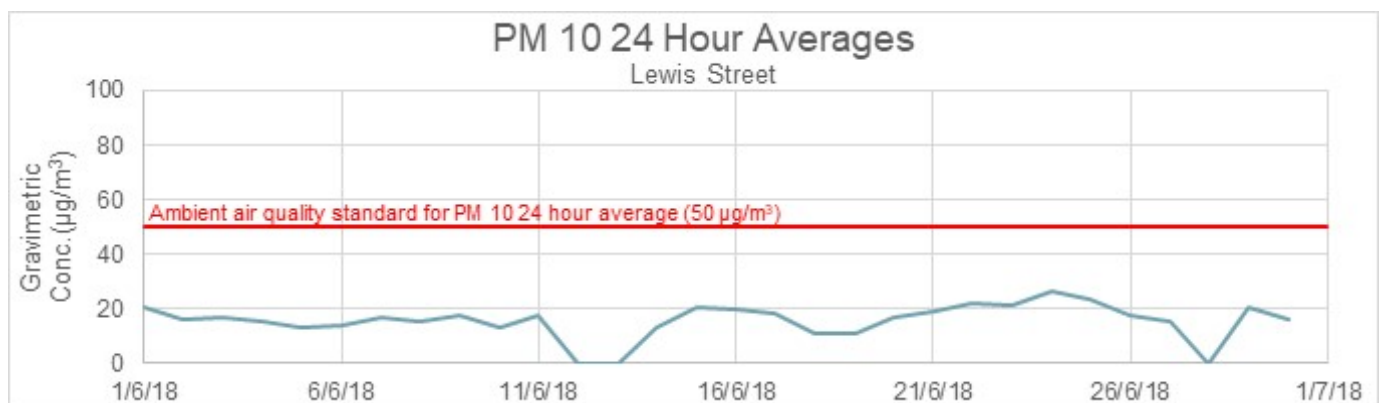


Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary June 2018						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2018	0.015	0.003	0.033	18:00	0	97.2
2/06/2018	0.009	0.001	0.019	00:00	0	97.2
3/06/2018	0.008	0.002	0.020	21:00	0	97.2
4/06/2018	0.010	0.005	0.020	07:00	0	97.2
5/06/2018	0.012	0.005	0.023	22:00	0	97.2
6/06/2018	0.009	0.005	0.020	00:00	0	97.2
7/06/2018	0.012	0.003	0.020	17:00	0	97.2
8/06/2018	0.013	0.007	0.023	21:00	0	97.2
9/06/2018	0.013	0.006	0.025	17:00	0	97.2
10/06/2018	0.010	0.002	0.019	04:00	0	97.2
11/06/2018	0.014	0.004	0.032	17:00	0	97.2
¹ 12/06/2018	-	0.009	0.027	09:00	0	56.9
¹ 13/06/2018	-	0.008	0.022	18:00	0	56.3
14/06/2018	0.011	0.003	0.023	17:00	0	97.2
15/06/2018	0.013	0.002	0.027	18:00	0	97.2
16/06/2018	0.011	0.001	0.023	20:00	0	97.2
17/06/2018	0.004	0.001	0.019	00:00	0	97.2
18/06/2018	0.002	0.001	0.006	07:00	0	97.2
19/06/2018	0.006	0.001	0.020	06:00	0	97.2
20/06/2018	0.011	0.003	0.022	07:00	0	97.2
21/06/2018	0.014	0.004	0.025	19:00	0	97.2
22/06/2018	0.014	0.005	0.023	06:00	0	97.2
23/06/2018	0.016	0.004	0.029	18:00	0	97.2
24/06/2018	0.016	0.003	0.025	19:00	0	97.2
25/06/2018	0.011	0.005	0.021	07:00	0	97.2
26/06/2018	0.012	0.004	0.023	15:00	0	97.2
27/06/2018	0.016	0.003	0.021	20:00	0	97.2
² 28/06/2018	-	0.008	0.023	18:00	0	56.6
29/06/2018	0.016	0.008	0.026	19:00	0	94.8
30/06/2018	0.012	0.005	0.029	20:00	0	97.2

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to WinAQMS fault

² Loss of data due to power interruption

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary June 2018								
Date	24 hr Avg (ppm)	1 hr Aves			8 hr Rolling Aves		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2018	0.3	0.1	0.9	20:00	0.6	23:00	0	96.5
2/06/2018	0.2	0.1	0.5	00:00	0.7	01:00	0	96.5
3/06/2018	0.4	0.1	0.8	22:00	0.6	23:00	0	96.5
4/06/2018	0.2	0.2	0.4	00:00	0.6	01:00	0	96.5
5/06/2018	0.2	0.1	0.3	22:00	0.2	00:00	0	96.5
6/06/2018	0.2	0.1	0.3	21:00	0.2	23:00	0	96.5
7/06/2018	0.2	0.1	0.3	20:00	0.2	23:00	0	96.5
8/06/2018	0.2	0.1	0.4	20:00	0.3	23:00	0	96.5
9/06/2018	0.3	0.1	0.6	22:00	0.4	23:00	0	96.5
10/06/2018	0.2	0.1	0.6	00:00	0.6	02:00	0	96.5
11/06/2018	0.2	0.1	0.7	21:00	0.5	23:00	0	96.9
¹ 12/06/2018	-	0.2	0.4	09:00	0.5	01:00	0	56.6
¹ 13/06/2018	-	0.2	0.3	11:00	0.3	18:00	0	56.3
14/06/2018	0.3	0.2	0.6	07:00	0.3	10:00	0	96.9
15/06/2018	0.2	0.0	0.5	19:00	0.4	23:00	0	96.9
16/06/2018	0.3	0.1	0.7	22:00	0.5	23:00	0	96.9
17/06/2018	0.1	0.0	0.6	00:00	0.6	01:00	0	96.9
18/06/2018	0.1	0.1	0.2	18:00	0.2	23:00	0	96.9
19/06/2018	0.2	0.1	0.3	06:00	0.2	12:00	0	96.9
20/06/2018	0.3	0.2	0.4	07:00	0.3	22:00	0	96.9
21/06/2018	0.3	0.2	0.7	22:00	0.4	23:00	0	96.9
22/06/2018	0.3	0.2	0.6	22:00	0.4	01:00	0	96.9
23/06/2018	0.4	0.2	1.1	21:00	0.7	23:00	0	96.9
24/06/2018	0.4	0.1	1.0	22:00	0.8	01:00	0	96.9
25/06/2018	0.3	0.2	0.5	00:00	0.7	01:00	0	96.9
26/06/2018	0.2	0.2	0.3	16:00	0.2	00:00	0	96.9
27/06/2018	0.3	0.1	0.5	19:00	0.4	23:00	0	96.9
² 28/06/2018	-	0.2	0.8	21:00	0.6	23:00	0	55.6
29/06/2018	0.3	0.1	0.5	00:00	0.6	02:00	0	94.4
30/06/2018	0.1	-0.1	0.4	23:00	0.3	00:00	0	96.9

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to WinAQMS fault

² Loss of data due to power interruption

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM _{2.5} Summary June 2018						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2018	6.3	0.4	22.5	21:00	0	95.8
2/06/2018	4.7	-1.9	15.5	00:00	0	100.0
3/06/2018	5.0	-1.0	12.7	20:00	0	100.0
4/06/2018	3.6	0.0	12.6	00:00	0	100.0
5/06/2018	3.6	-2.7	8.8	22:00	0	100.0
6/06/2018	3.4	0.3	5.8	01:00	0	95.8
7/06/2018	4.9	-0.8	10.7	19:00	0	100.0
8/06/2018	4.6	0.4	7.0	17:00	0	95.8
9/06/2018	7.6	0.2	27.7	21:00	0	100.0
10/06/2018	6.6	1.2	13.8	00:00	0	95.8
11/06/2018	6.3	0.2	17.5	21:00	0	100.0
¹ 12/06/2018	-	2.2	14.0	09:00	0	58.3
¹ 13/06/2018	-	2.3	10.7	11:00	0	54.2
14/06/2018	6.0	2.1	12.1	09:00	0	100.0
15/06/2018	8.3	2.2	18.5	19:00	0	100.0
16/06/2018	8.5	0.2	29.2	21:00	0	100.0
17/06/2018	6.0	1.1	24.2	02:00	0	100.0
18/06/2018	2.9	-1.5	6.4	23:00	0	100.0
19/06/2018	2.8	0.5	5.0	21:00	0	95.8
20/06/2018	5.6	1.3	11.7	17:00	0	100.0
21/06/2018	6.4	2.7	12.6	23:00	0	100.0
22/06/2018	7.4	2.4	17.2	21:00	0	87.5
23/06/2018	11.5	1.5	41.6	21:00	0	100.0
24/06/2018	16.0	1.5	34.0	20:00	0	100.0
25/06/2018	11.1	4.2	19.0	02:00	0	95.8
26/06/2018	6.9	1.3	11.0	08:00	0	100.0
27/06/2018	7.2	4.0	14.6	23:00	0	95.8
² 28/06/2018	-	4.2	17.5	21:00	0	58.3
29/06/2018	11.5	4.3	21.9	20:00	0	95.8
30/06/2018	11.0	3.3	21.6	23:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to WinAQMS fault

² Loss of data due to power interruption

Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM ₁₀ Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	20.4	11.5	39.8	21:00	0	100.0
2/06/2018	15.7	9.7	25.5	00:00	0	100.0
3/06/2018	16.9	6.0	29.0	16:00	0	95.8
4/06/2018	15.5	10.5	25.7	13:00	0	100.0
5/06/2018	13.0	8.0	19.8	10:00	0	100.0
6/06/2018	13.6	7.3	22.5	16:00	0	100.0
7/06/2018	16.9	2.3	34.5	18:00	0	95.8
8/06/2018	15.6	8.0	25.0	10:00	0	100.0
9/06/2018	17.7	11.1	36.3	20:00	0	100.0
10/06/2018	13.5	7.1	22.2	05:00	0	100.0
11/06/2018	17.5	7.3	33.3	21:00	0	100.0
¹ 12/06/2018	-	10.0	40.1	10:00	0	58.3
¹ 13/06/2018	-	10.1	31.6	11:00	0	54.2
14/06/2018	12.9	8.9	23.5	17:00	0	95.8
15/06/2018	20.3	9.2	41.0	22:00	0	100.0
16/06/2018	20.0	10.0	40.0	21:00	0	100.0
17/06/2018	18.1	11.0	35.0	00:00	0	95.8
18/06/2018	10.7	6.3	16.8	13:00	0	95.8
19/06/2018	11.1	6.0	16.9	08:00	0	100.0
20/06/2018	16.6	7.1	27.6	19:00	0	100.0
21/06/2018	18.9	11.1	28.2	10:00	0	100.0
22/06/2018	21.8	15.4	37.6	11:00	0	100.0
23/06/2018	21.1	9.2	56.1	21:00	0	100.0
24/06/2018	26.7	13.7	50.8	20:00	0	100.0
25/06/2018	23.8	15.3	32.6	11:00	0	100.0
26/06/2018	17.8	9.1	31.5	09:00	0	100.0
27/06/2018	15.4	3.1	76.3	15:00	0	100.0
¹ 28/06/2018	-	8.0	36.6	19:00	0	54.2
29/06/2018	20.4	8.0	48.9	15:00	0	91.7
30/06/2018	16.4	10.1	30.0	23:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to WinAQMS fault

² Loss of data due to power interruption

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary June 2018						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.040	11/06/2018 18:00	97.1
NO ₂	ppm	0.030	12 Months	0.011	--	97.0
CO	ppm	8	8 Hours	0.5	29/06/2018 00:00	96.7
PM _{2.5}	µg/m3	25	24 Hours	14.7	24/06/2018	99.6
PM _{2.5}	µg/m3	8	12 Months	6.4	--	98.5
PM ₁₀	µg/m3	50	24 Hours	25.5	12/06/2018	99.9
PM ₁₀	µg/m3	50	12 Months	20.6	--	99.2
TSP	µg/m3	--	24 Hours	37.7	25/06/2018	100.0
TSP	µg/m3	90	12 Months	26.5	--	100.0

Table 19 Station 4 Monthly Summary

Graphical Representations

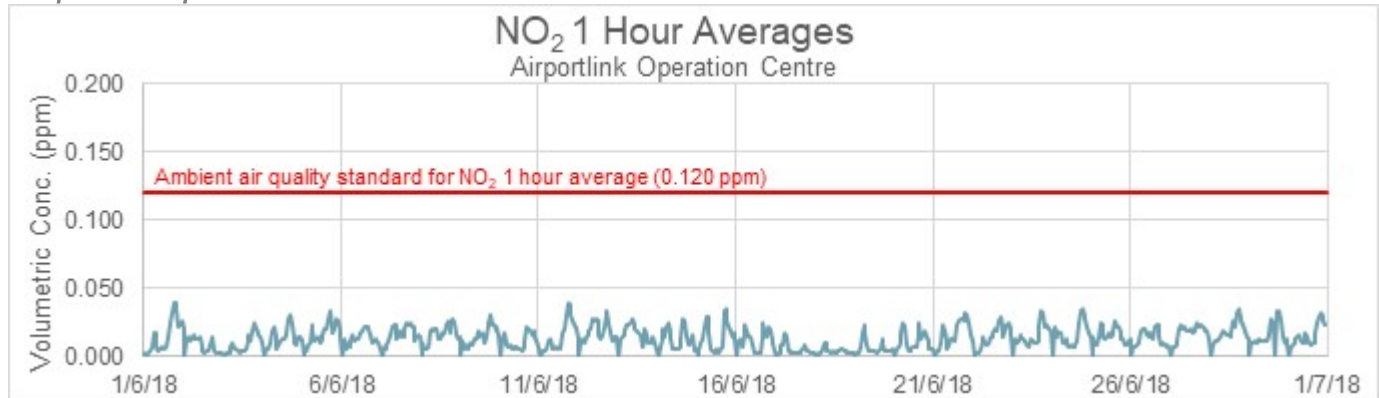


Figure 13 Station 4 Nitrogen Dioxide 1hr averages

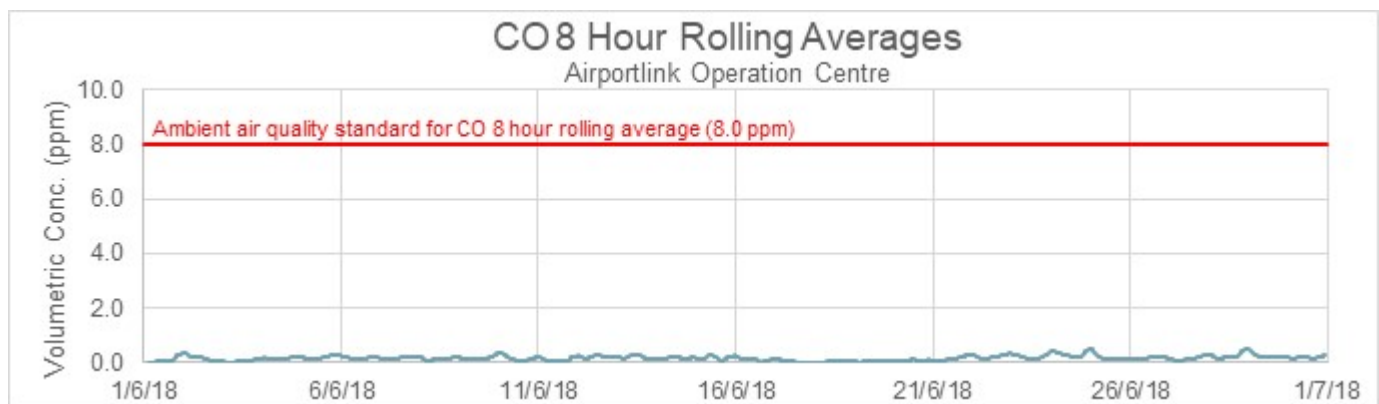


Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

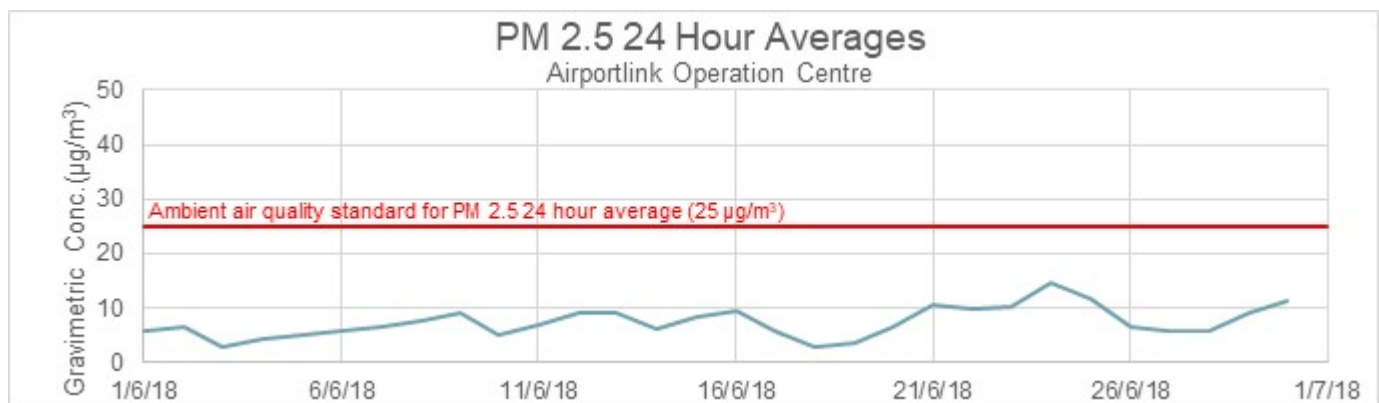


Figure 15 Station 4 PM2.5 24hr averages

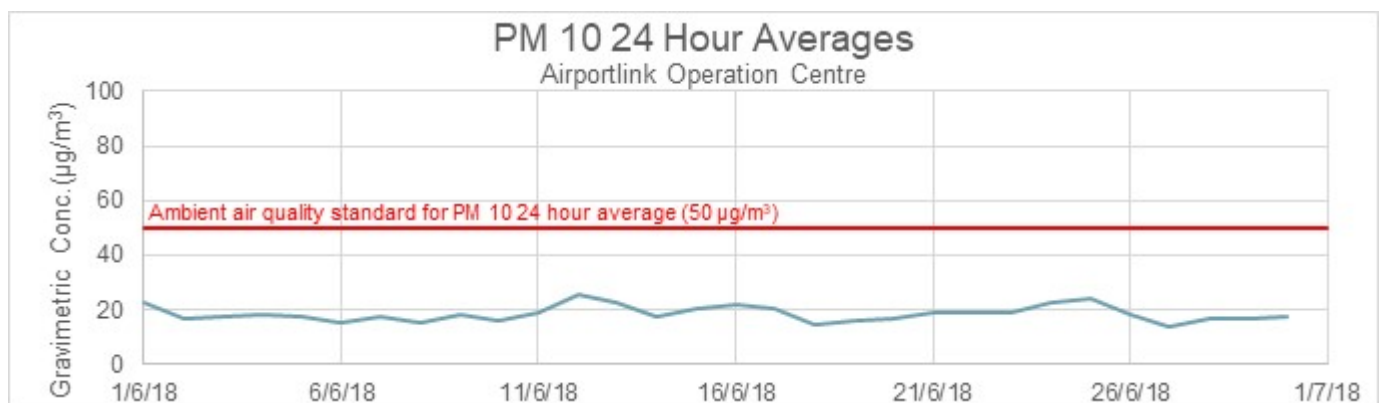


Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary June 2018

Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2018	0.015	0.002	0.039	19:00	0	97.2
2/06/2018	0.010	0.003	0.020	00:00	0	97.2
3/06/2018	0.009	0.002	0.025	19:00	0	97.2
4/06/2018	0.014	0.006	0.031	17:00	0	97.2
5/06/2018	0.017	0.005	0.034	17:00	0	97.2
6/06/2018	0.014	0.006	0.022	16:00	0	97.2
7/06/2018	0.017	0.006	0.025	16:00	0	97.2
8/06/2018	0.017	0.005	0.028	20:00	0	97.2
9/06/2018	0.015	0.005	0.030	19:00	0	97.2
10/06/2018	0.011	0.005	0.022	17:00	0	97.2
11/06/2018	0.015	0.004	0.040	18:00	0	97.2
12/06/2018	0.019	0.010	0.033	18:00	0	97.2
13/06/2018	0.017	0.007	0.027	09:00	0	97.2
14/06/2018	0.013	0.005	0.028	16:00	0	97.2
15/06/2018	0.014	0.003	0.035	18:00	0	97.2
16/06/2018	0.012	0.002	0.024	17:00	0	97.2
17/06/2018	0.005	0.002	0.017	06:00	0	97.2
18/06/2018	0.004	0.002	0.010	07:00	0	97.2
19/06/2018	0.007	0.002	0.024	06:00	0	97.2
20/06/2018	0.011	0.004	0.025	06:00	0	97.2
21/06/2018	0.017	0.004	0.032	20:00	0	97.2
22/06/2018	0.015	0.003	0.030	17:00	0	96.9
23/06/2018	0.016	0.007	0.034	18:00	0	97.2
24/06/2018	0.017	0.007	0.034	19:00	0	97.2
25/06/2018	0.016	0.008	0.026	15:00	0	97.2
26/06/2018	0.014	0.007	0.024	16:00	0	97.2
27/06/2018	0.018	0.007	0.024	17:00	0	97.2
28/06/2018	0.018	0.008	0.035	18:00	0	97.2
29/06/2018	0.017	0.009	0.033	17:00	0	94.4
30/06/2018	0.016	0.007	0.032	20:00	0	97.2

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary June 2018								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/06/2018	0.1	0.0	0.5	19:00	0.3	23:00	0	96.5
2/06/2018	0.1	0.0	0.3	00:00	0.4	01:00	0	96.5
3/06/2018	0.1	0.0	0.2	19:00	0.2	23:00	0	96.5
4/06/2018	0.2	0.1	0.4	17:00	0.2	22:00	0	96.5
5/06/2018	0.2	0.1	0.5	17:00	0.3	22:00	0	96.5
6/06/2018	0.2	0.1	0.3	16:00	0.3	00:00	0	96.5
7/06/2018	0.2	0.1	0.3	16:00	0.2	20:00	0	96.9
8/06/2018	0.1	0.0	0.2	17:00	0.2	00:00	0	96.9
9/06/2018	0.2	0.1	0.5	19:00	0.3	23:00	0	96.9
10/06/2018	0.1	0.0	0.3	00:00	0.4	01:00	0	96.9
11/06/2018	0.1	0.0	0.4	19:00	0.2	23:00	0	96.9
12/06/2018	0.2	0.1	0.4	07:00	0.3	12:00	0	96.9
13/06/2018	0.2	0.0	0.5	08:00	0.3	12:00	0	96.9
14/06/2018	0.2	0.1	0.6	07:00	0.2	09:00	0	96.9
15/06/2018	0.2	0.1	0.5	06:00	0.3	23:00	0	96.9
16/06/2018	0.1	0.0	0.3	07:00	0.3	00:00	0	96.9
17/06/2018	0.0	0.0	0.1	06:00	0.2	00:00	0	96.9
18/06/2018	0.0	0.0	0.1	07:00	0.0	12:00	0	96.9
19/06/2018	0.1	0.0	0.2	06:00	0.1	12:00	0	96.9
20/06/2018	0.1	0.0	0.2	06:00	0.1	12:00	0	96.9
21/06/2018	0.2	0.0	0.4	21:00	0.3	22:00	0	96.9
22/06/2018	0.2	0.1	0.5	17:00	0.4	23:00	0	96.5
23/06/2018	0.2	0.1	0.5	19:00	0.4	23:00	0	96.9
24/06/2018	0.3	0.1	0.7	19:00	0.5	23:00	0	96.9
25/06/2018	0.2	0.1	0.2	00:00	0.5	01:00	0	96.9
26/06/2018	0.2	0.1	0.3	17:00	0.2	17:00	0	96.9
27/06/2018	0.2	0.0	0.4	19:00	0.3	23:00	0	96.9
28/06/2018	0.3	0.1	0.7	20:00	0.5	23:00	0	96.9
29/06/2018	0.2	0.1	0.3	00:00	0.5	00:00	0	94.1
30/06/2018	0.2	0.1	0.4	22:00	0.3	23:00	0	96.9

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM _{2.5} Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	5.8	-1.5	19.1	21:00	0	100.0
2/06/2018	6.7	1.9	18.4	00:00	0	100.0
3/06/2018	2.9	-2.9	10.9	20:00	0	100.0
4/06/2018	4.3	1.1	8.0	07:00	0	100.0
5/06/2018	5.1	1.2	9.9	09:00	0	100.0
6/06/2018	5.9	3.2	10.8	13:00	0	100.0
7/06/2018	6.6	2.2	15.8	17:00	0	100.0
8/06/2018	7.7	4.2	13.7	22:00	0	100.0
9/06/2018	9.1	3.2	20.4	11:00	0	100.0
10/06/2018	5.3	1.1	14.2	23:00	0	100.0
11/06/2018	6.8	2.2	10.9	21:00	0	100.0
12/06/2018	9.0	5.0	15.6	08:00	0	100.0
13/06/2018	9.1	3.3	24.3	09:00	0	100.0
14/06/2018	6.2	2.1	11.7	09:00	0	100.0
15/06/2018	8.3	4.1	19.9	08:00	0	100.0
16/06/2018	9.6	5.1	17.5	22:00	0	100.0
17/06/2018	5.8	1.2	14.6	09:00	0	100.0
18/06/2018	2.7	-2.0	8.8	09:00	0	100.0
19/06/2018	3.7	-1.0	10.6	09:00	0	100.0
20/06/2018	6.6	1.5	11.8	14:00	0	100.0
21/06/2018	10.6	5.0	18.8	21:00	0	100.0
22/06/2018	9.7	4.1	16.0	12:00	0	91.7
23/06/2018	10.3	-0.5	25.5	23:00	0	100.0
24/06/2018	14.7	8.0	26.7	21:00	0	100.0
25/06/2018	11.7	4.0	23.9	02:00	0	100.0
26/06/2018	6.7	1.2	12.5	07:00	0	100.0
27/06/2018	5.7	-1.0	15.5	21:00	0	100.0
28/06/2018	5.9	1.1	9.9	14:00	0	100.0
29/06/2018	9.1	0.2	20.5	20:00	0	95.8
30/06/2018	11.2	6.0	20.7	23:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	23.0	15.0	32.3	21:00	0	100.0
2/06/2018	16.9	10.1	28.3	12:00	0	100.0
3/06/2018	17.5	10.1	26.7	12:00	0	100.0
4/06/2018	18.5	11.1	30.4	13:00	0	100.0
5/06/2018	17.4	10.0	26.5	17:00	0	100.0
6/06/2018	15.2	7.2	22.5	16:00	0	100.0
7/06/2018	17.5	8.3	30.6	19:00	0	100.0
8/06/2018	15.7	12.2	20.9	14:00	0	100.0
9/06/2018	18.2	11.2	26.8	22:00	0	100.0
10/06/2018	15.9	7.3	25.5	00:00	0	100.0
11/06/2018	19.4	8.2	30.5	13:00	0	100.0
12/06/2018	25.5	12.3	40.9	10:00	0	100.0
13/06/2018	23.0	12.9	45.2	10:00	0	100.0
14/06/2018	17.7	8.3	30.0	13:00	0	100.0
15/06/2018	20.5	13.9	28.5	15:00	0	100.0
16/06/2018	21.6	12.4	33.3	23:00	0	100.0
17/06/2018	20.5	12.3	34.8	12:00	0	100.0
18/06/2018	14.9	6.3	26.9	12:00	0	100.0
19/06/2018	16.1	8.0	22.0	12:00	0	100.0
20/06/2018	17.0	7.7	29.6	19:00	0	100.0
21/06/2018	19.2	13.1	26.9	21:00	0	100.0
22/06/2018	19.0	13.4	25.5	19:00	0	100.0
23/06/2018	18.6	11.2	32.5	20:00	0	100.0
24/06/2018	22.4	13.3	34.5	20:00	0	100.0
25/06/2018	24.2	17.3	32.5	12:00	0	100.0
26/06/2018	18.4	6.9	29.1	17:00	0	100.0
27/06/2018	13.7	6.2	20.7	21:00	0	100.0
28/06/2018	16.4	7.4	27.6	20:00	0	100.0
29/06/2018	17.0	7.1	46.5	15:00	0	95.8
30/06/2018	17.3	11.0	29.3	20:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary June 2018						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.043	01/06/2018 18:00	65.1
NO ₂	ppm	0.030	12 Months	0.010	--	91.7
CO	ppm	8	8 Hours	0.6	17/06/2018 01:00	92.0
PM _{2.5}	µg/m3	25	24 Hours	16.9	24/06/2018	91.8
PM _{2.5}	µg/m3	8	12 Months	5.9	--	97.1
PM ₁₀	µg/m3	50	24 Hours	25.8	25/06/2018	95.8
PM ₁₀	µg/m3	50	12 Months	19.0	--	98.1
TSP	µg/m3	--	24 Hours	32.1	25/06/2018	100.0
TSP	µg/m3	90	12 Months	22.4	--	100.0

Table 24 Station 5 Monthly Summary

Graphical Representations

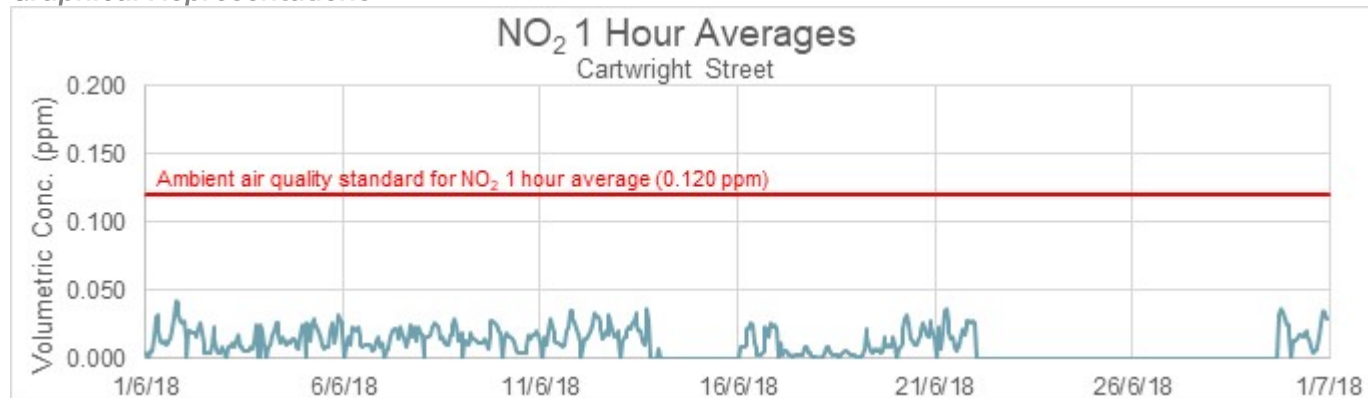


Figure 17 Station 5 Dioxide 1hr averages

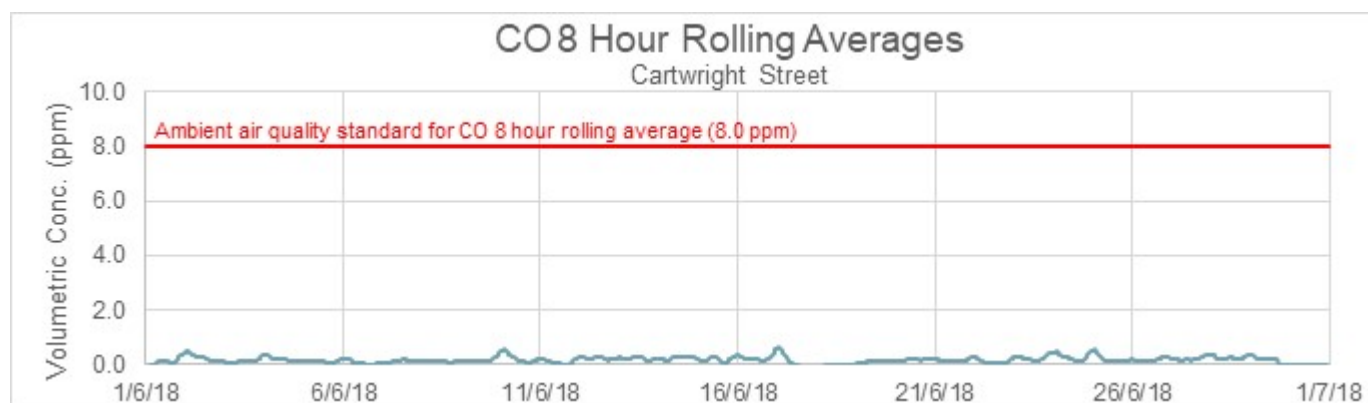


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

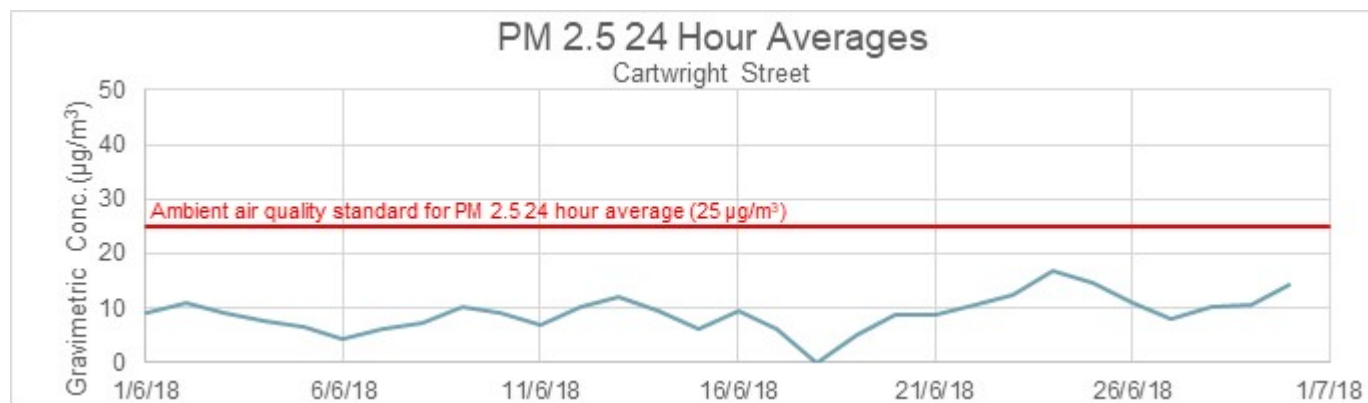


Figure 19 Station 5 PM2.5 24hr averages

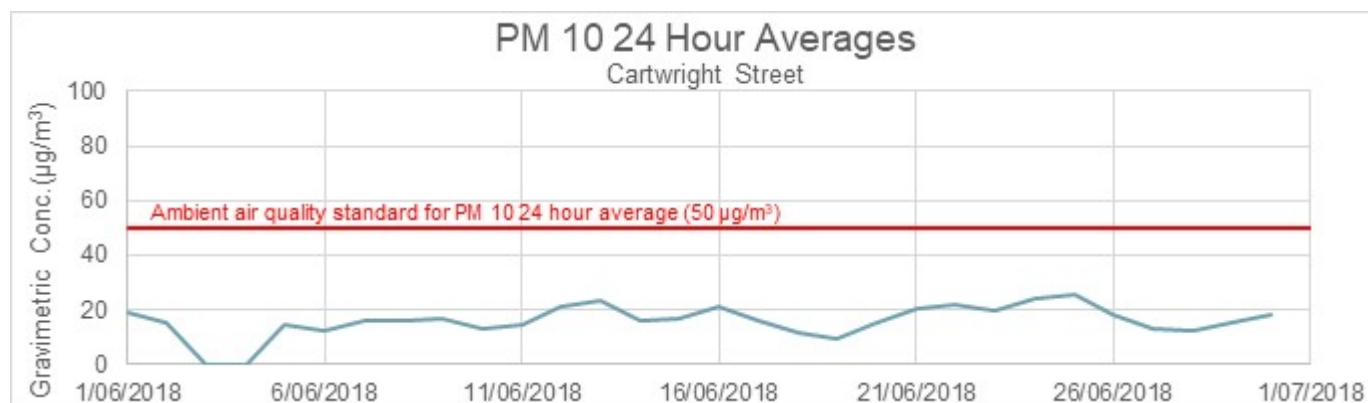


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary June 2018						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2018	0.020	0.004	0.043	18:00	0	97.2
2/06/2018	0.013	0.004	0.026	09:00	0	97.2
3/06/2018	0.012	0.005	0.025	22:00	0	92.7
4/06/2018	0.014	0.007	0.026	08:00	0	97.2
5/06/2018	0.019	0.007	0.032	21:00	0	97.2
6/06/2018	0.014	0.005	0.024	06:00	0	95.5
7/06/2018	0.016	0.006	0.025	17:00	0	97.2
8/06/2018	0.018	0.010	0.029	20:00	0	97.2
9/06/2018	0.016	0.007	0.028	18:00	0	97.2
10/06/2018	0.013	0.004	0.020	21:00	0	97.2
11/06/2018	0.019	0.009	0.035	19:00	0	95.8
12/06/2018	0.020	0.008	0.033	09:00	0	97.2
13/06/2018	0.021	0.010	0.037	17:00	0	78.8
¹ 14/06/2018	-	0.008	0.008	00:00	0	3.8
¹ 15/06/2018	-	-	-	-	0	0.0
16/06/2018	0.015	0.003	0.026	08:00	0	93.1
17/06/2018	0.005	0.001	0.021	00:00	0	97.2
18/06/2018	0.003	0.001	0.009	07:00	0	95.5
19/06/2018	0.008	0.001	0.022	06:00	0	97.2
20/06/2018	0.018	0.007	0.032	07:00	0	97.2
21/06/2018	0.019	0.006	0.036	07:00	0	97.2
¹ 22/06/2018	-	0.026	0.026	00:00	0	4.2
¹ 23/06/2018	-	-	-	-	0	0.0
¹ 24/06/2018	-	-	-	-	0	0.0
¹ 25/06/2018	-	-	-	-	0	0.0
¹ 26/06/2018	-	-	-	-	0	0.0
¹ 27/06/2018	-	-	-	-	0	0.0
¹ 28/06/2018	-	-	-	-	0	0.0
¹ 29/06/2018	-	0.024	0.037	19:00	0	31.9
30/06/2018	0.018	0.005	0.035	20:00	0	97.2

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument failure from faulty shelter air conditioner

Table 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary June 2018								
Date	24 hr Avg (ppm)	1 hr Aves			8 hr Rolling Aves		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2018	0.2	0.0	0.8	19:00	0.4	23:00	0	96.5
2/06/2018	0.2	0.0	0.4	08:00	0.5	01:00	0	96.5
3/06/2018	0.2	0.1	0.5	21:00	0.3	23:00	0	96.5
4/06/2018	0.2	0.1	0.4	07:00	0.4	01:00	0	96.5
5/06/2018	0.1	0.0	0.4	21:00	0.2	23:00	0	96.9
6/06/2018	0.0	0.0	0.1	00:00	0.2	01:00	0	96.9
7/06/2018	0.1	0.1	0.2	11:00	0.2	13:00	0	96.9
8/06/2018	0.1	0.0	0.2	07:00	0.2	12:00	0	96.9
9/06/2018	0.2	0.1	0.7	19:00	0.4	23:00	0	96.9
10/06/2018	0.2	0.0	0.5	00:00	0.5	02:00	0	96.9
11/06/2018	0.1	0.0	0.4	19:00	0.3	23:00	0	96.9
12/06/2018	0.2	0.1	0.4	08:00	0.3	01:00	0	96.9
13/06/2018	0.2	0.0	0.5	07:00	0.3	10:00	0	96.9
14/06/2018	0.2	0.0	0.6	07:00	0.3	13:00	0	95.5
15/06/2018	0.2	0.0	0.5	06:00	0.3	23:00	0	96.5
16/06/2018	0.3	0.1	0.9	23:00	0.6	23:00	0	96.9
17/06/2018	0.0	-0.2	0.5	00:00	0.6	01:00	0	96.9
18/06/2018	0.0	0.0	0.1	07:00	0.0	23:00	0	95.1
19/06/2018	0.1	0.1	0.2	23:00	0.2	23:00	0	96.9
20/06/2018	0.2	0.1	0.5	07:00	0.2	23:00	0	96.9
21/06/2018	0.2	0.1	0.5	21:00	0.3	23:00	0	95.8
22/06/2018	0.1	0.0	0.4	21:00	0.3	00:00	0	95.8
23/06/2018	0.3	0.1	0.7	20:00	0.5	23:00	0	94.8
24/06/2018	0.3	0.1	0.8	19:00	0.5	23:00	0	96.9
25/06/2018	0.2	0.1	0.3	00:00	0.6	01:00	0	96.9
26/06/2018	0.2	0.1	0.3	15:00	0.3	21:00	0	96.9
27/06/2018	0.3	0.1	0.5	19:00	0.4	23:00	0	95.8
28/06/2018	0.2	0.1	0.6	20:00	0.4	00:00	0	94.8
¹ 29/06/2018	-	0.1	0.3	10:00	0.3	01:00	0	59.0
¹ 30/06/2018	-	-	-	-	-	-	0	0.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to temperature instability

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM _{2.5} Summary June 2018						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/06/2018	9.0	-6.0	20.8	19:00	0	79.2
2/06/2018	11.1	5.2	16.8	09:00	0	91.7
3/06/2018	9.1	-5.0	20.4	09:00	0	91.7
4/06/2018	7.5	3.0	18.3	12:00	0	83.3
5/06/2018	6.4	-14.1	24.0	10:00	0	79.2
6/06/2018	4.2	-5.3	14.0	09:00	0	95.8
7/06/2018	6.2	0.1	13.7	20:00	0	100.0
8/06/2018	7.2	4.2	10.7	04:00	0	100.0
9/06/2018	10.1	3.5	25.9	22:00	0	100.0
10/06/2018	9.3	-11.0	18.5	00:00	0	83.3
11/06/2018	7.1	2.0	16.6	21:00	0	100.0
12/06/2018	10.1	-13.3	18.8	09:00	0	87.5
13/06/2018	12.0	4.8	23.9	11:00	0	91.7
14/06/2018	9.5	1.7	22.9	12:00	0	95.8
15/06/2018	6.4	-9.7	24.2	19:00	0	91.7
16/06/2018	9.5	-12.0	26.0	21:00	0	79.2
17/06/2018	6.1	-9.0	21.6	22:00	0	83.3
¹ 18/06/2018	-	-12.0	20.1	04:00	0	58.3
19/06/2018	5.2	-11.5	12.7	10:00	0	100.0
20/06/2018	8.8	4.3	13.7	23:00	0	100.0
21/06/2018	8.8	2.5	19.0	17:00	0	95.8
22/06/2018	10.7	5.4	17.7	20:00	0	95.8
23/06/2018	12.6	-6.0	27.6	22:00	0	100.0
24/06/2018	16.9	-1.0	37.6	20:00	0	87.5
25/06/2018	14.6	4.0	22.0	00:00	0	91.7
26/06/2018	11.1	5.1	21.5	13:00	0	100.0
27/06/2018	8.0	-0.8	19.5	23:00	0	100.0
28/06/2018	10.3	-0.9	17.9	11:00	0	100.0
29/06/2018	10.6	-15.0	24.0	12:00	0	91.7
30/06/2018	14.1	7.1	24.0	23:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument fault

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM ₁₀ Summary June 2018						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2018	19.1	10.1	44.9	04:00	0	100.0
2/06/2018	15.1	6.3	28.0	09:00	0	100.0
¹ 3/06/2018	-	7.0	24.1	12:00	0	66.7
¹ 4/06/2018	-	9.2	28.6	16:00	0	33.3
5/06/2018	14.8	7.2	24.6	22:00	0	100.0
6/06/2018	12.1	4.2	20.7	10:00	0	100.0
7/06/2018	16.0	6.3	32.5	18:00	0	100.0
8/06/2018	16.0	8.0	28.6	10:00	0	100.0
9/06/2018	16.8	7.3	26.5	20:00	0	100.0
10/06/2018	13.3	6.2	24.2	00:00	0	100.0
11/06/2018	14.5	5.0	26.8	19:00	0	100.0
12/06/2018	21.4	7.1	42.3	10:00	0	100.0
13/06/2018	23.5	3.8	41.9	19:00	0	100.0
14/06/2018	16.3	2.3	37.0	11:00	0	100.0
15/06/2018	16.4	-10.0	47.0	18:00	0	100.0
16/06/2018	21.4	4.3	65.0	10:00	0	100.0
17/06/2018	16.4	8.0	34.7	13:00	0	100.0
18/06/2018	11.5	4.9	19.8	12:00	0	83.3
19/06/2018	9.7	0.6	19.7	10:00	0	100.0
20/06/2018	15.6	3.3	23.7	09:00	0	100.0
21/06/2018	20.2	5.5	39.1	18:00	0	100.0
22/06/2018	21.7	8.9	40.4	18:00	0	100.0
23/06/2018	20.0	-5.2	41.5	12:00	0	100.0
24/06/2018	24.4	8.7	53.1	20:00	0	100.0
25/06/2018	25.8	13.6	37.7	12:00	0	95.8
26/06/2018	18.4	3.4	36.3	13:00	0	100.0
27/06/2018	13.1	1.5	27.8	22:00	0	100.0
28/06/2018	12.6	-8.5	32.8	11:00	0	100.0
29/06/2018	15.3	-10.6	41.8	11:00	0	95.8
30/06/2018	18.2	8.3	30.8	23:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

¹ Loss of data due to instrument fault

Table 28 Station 5 PM₁₀ Monthly Summary

TSP High Volume Air Sampler Results

Total Suspended Particulate High Volume Air Sampler results are presented in Table 29 below. The HVAS are run on a one in six day cycle.

The Coordinator General's criterion of 90 $\mu\text{g}/\text{m}^3$ was not exceeded during the reporting period at any of the five sites.

TSP Results June 2018					
Sample Date	Station 1 AHS ($\mu\text{g}/\text{m}^3$)	Station 2 KSHS ($\mu\text{g}/\text{m}^3$)	Station 3 LS ($\mu\text{g}/\text{m}^3$)	Station 4 ALOC ($\mu\text{g}/\text{m}^3$)	Station 5 CS ($\mu\text{g}/\text{m}^3$)
01/06/2018	31	26	29	27	21
7/06/2018	17	22	18	21	16
13/06/2018	32	32	29	34	31
19/06/2018	18	14	15	15	14
25/06/2018	29	33	31	38	32
Monthly Average	25.5	25.3	24.3	27.0	23.1
Annual Average	25.4	25.0	23.0	26.5	22.4

Table 29 TSP High Volume Air Sampler Results

Validation Tables

The following tables outline any data removed during the data validation process, or automatically invalidated by the data acquisition system.

Station 1 Aviation High School

Station 1 Aviation High School Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2018 00:00	8/06/2018 12:10:00	PM ₁₀	Instrument fault	16/07/2018	TA
1/06/2018 00:05:00	30/06/2018 23:50:00	PM _{2.5}	Intermittent instrument faults	16/07/2018	TA
1/06/2018 15:50:00	7/06/2018 14:15:00	CO	Instrument fault	16/07/2018	TA
7/06/2018 14:20:00	7/06/2018 15:25:00	All parameters	Maintenance	16/07/2018	TA
8/06/2018 12:15:00	8/06/2018 12:35:00	All parameters	Maintenance	16/07/2018	TA
8/06/2018 12:40:00	8/06/2018 13:10:00	PM ₁₀	Instrument stabilisation	16/07/2018	TA
29/06/2018 14:55:00	29/06/2018 15:25:00	All parameters	Maintenance	16/07/2018	TA

Table 30 Station 1 Aviation High School AQMS Data Validation Table

Station 2 Kedron State High School

Station 2 Kedron State High School Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2018 18:20:00	30/06/2018 21:10:00	All parameters	Intermittent data communication errors	16/07/2018	TA
23/06/2018 08:55:00	29/06/2018 13:10:00	All parameters	Data logger fault	16/07/2018	TA
29/06/2018 13:10:00	29/06/2018 13:45:00	All parameters	Maintenance	16/07/2018	TA
30/06/2018 21:10:00	30/06/2018 00:00:00	All parameters	Data logger fault	16/07/2018	TA

Table 31 Station 2 Kedron High School AQMS Data Validation Table

Station 3 Lewis Street

Station 3 Lewis Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2018 01:05:00	30/06/2018 23:30:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults	16/07/2018	TA
12/06/2018 14:20:00	13/06/2018 10:25:00	All parameters	Data logger fault	16/07/2018	TA
28/06/2018 08:00:00	28/06/2018 17:10:00	All parameters	Data logger fault	16/07/2018	TA
28/06/2018 17:10:00	28/06/2018 17:40:00	All parameters	Power interruption	16/07/2018	TA
29/06/2018 14:15:00	29/06/2018 14:45:00	All parameters	Maintenance	16/07/2018	TA

Table 32 Station 3 Lewis St AQMS Data Validation Table

Station 4 Airport Link Operation Centre

Station 4 Airport Link Operation Centre Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2018 01:05:00	30/06/2018 23:55:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults	16/07/2018	TA
22/06/2018 16:05:00	22/06/2018 16:05:00	PM _{2.5}	Maintenance	16/07/2018	TA
22/06/2018 16:10:00	22/06/2018 17:50:00	PM _{2.5}	Maintenance	16/07/2018	TA
29/06/2018 16:25:00	29/06/2018 17:00:00	All parameters	Maintenance	16/07/2018	TA

Table 33 Station 4 Airport Link Operation Centre AQMS Data Validation Table

Station 5 Cartwright St

Station 5 Cartwright Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2018 01:05:00	30/06/2018 23:55:00	PM ₁₀ , PM _{2.5}	Intermittent instrument faults	16/07/2018	TA
13/06/2018 19:10:00	16/06/2018 00:55:00	NO, NO ₂ , NO _x	Instrument fault	16/07/2018	TA
18/06/2018 14:35:00	18/06/2018 14:55:00	All parameters	Maintenance	16/07/2018	TA
18/06/2018 15:00:00	18/06/2018 17:55:00	PM ₁₀ , PM _{2.5}	Maintenance	16/07/2018	TA
22/06/2018 01:40:00	29/06/2018 15:35:00	NO, NO ₂ , NO _x	Instrument fault due to air conditioner fault	16/07/2018	TA
29/06/2018 15:40:00	29/06/2018 16:15:00	All parameters	Maintenance	16/07/2018	TA
29/06/2018 16:20:00	30/06/2018 23:55:00	CO	Instrument fault due to unstable temperatures post air conditioner repairs	16/07/2018	TA

Table 34 Station 5 Cartwright St AQMS Data Validation Table