



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

December 2017

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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 zero readings over the relevant Air Quality Standards during the reporting period.

AirportlinkM7 AQMS Exceedance Reporting December 2017							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences December 2017				
			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

- 201712 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		
						Station 3	Station 4	Station 5
NO NO ₂ NO _x	ppm	2.78%	AS 3580.5.1	28/12/2017	28/12/2017	28/12/2017	28/12/2017	28/12/2017
CO	ppm	2.56%	AS 3580.7.1	29/12/2017	28/12/2017	28/12/2017	28/12/2017	28/12/2017
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	29/11/2017*	29/11/2017	29/11/2017	29/11/2017	29/11/2017
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	29/11/2017	29/11/2017	29/11/2017	29/11/2017	29/11/2017
TSP	µg/m ³	7.34%	AS 3580.9.3	29/11/2017	29/11/2017	29/11/2017	29/11/2017	29/11/2017

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 December 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.032	08/12/2017 17:00	97.2
NO ₂	ppm	0.030	12 Months	0.006	--	96.8
CO	ppm	8	8 Hours	0.2	08/12/2017 12:00	96.7
PM _{2.5}	µg/m3	25	24 Hours	6.3	08/12/2017	99.9
PM _{2.5}	µg/m3	8	12 Months	3.8	--	93.0
PM ₁₀	µg/m3	50	24 Hours	21.7	01/12/2017	99.9
PM ₁₀	µg/m3	50	12 Months	15.2	--	91.6
TSP	µg/m3	--	24 Hours	29.7	09/12/2017	100.0
TSP	µg/m3	90	12 Months	28.9	--	96.7

Table 4 Station 1 Monthly Summary

Graphical Representations

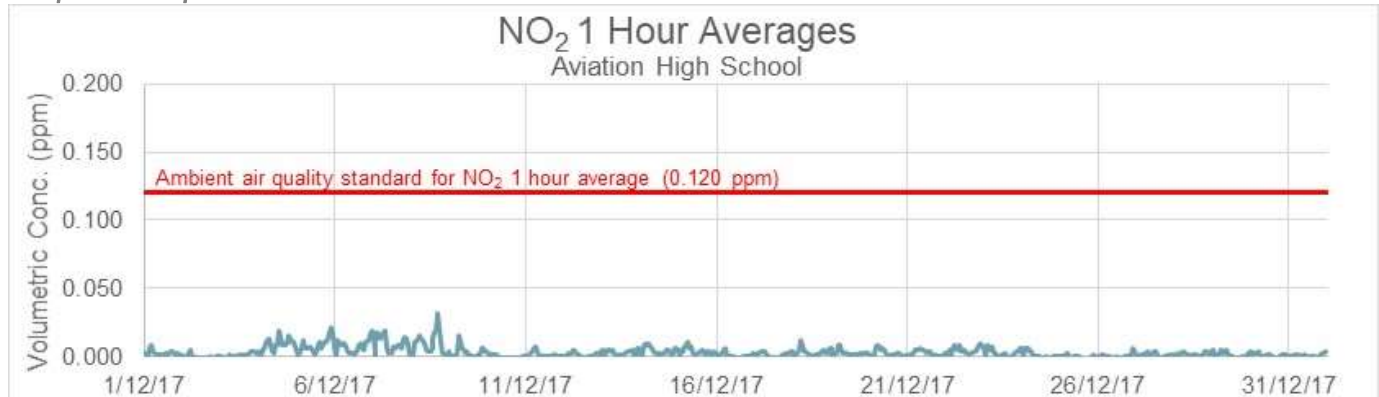


Figure 1 Station 1 Nitrogen Dioxide 1hr averages



Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

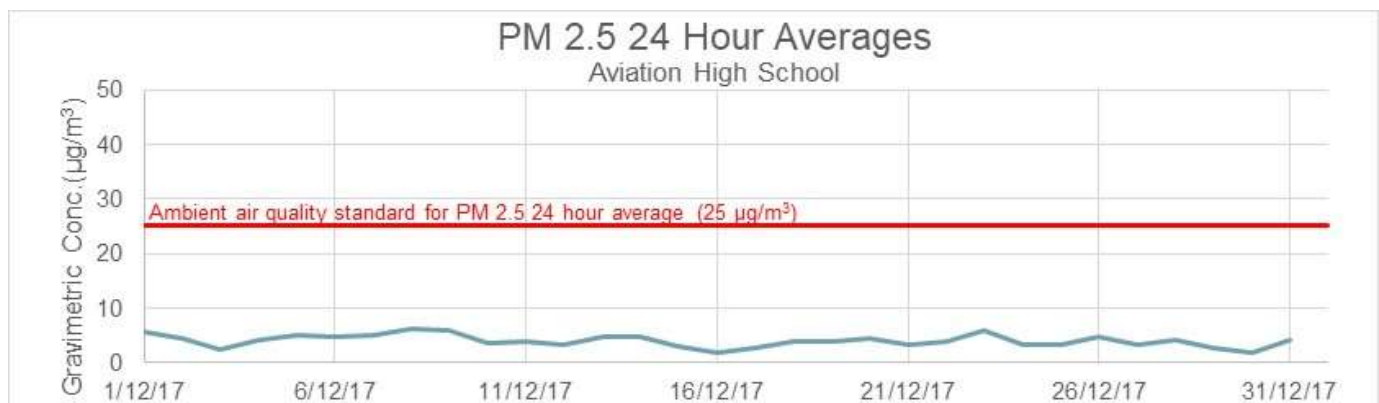


Figure 3 Station 1 PM2.5 24hr averages



Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary December 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/12/2017	0.002	-0.001	0.008	05:00	0	97.2
2/12/2017	0.000	-0.002	0.005	05:00	0	97.2
3/12/2017	0.001	-0.001	0.004	19:00	0	97.2
4/12/2017	0.009	0.003	0.018	13:00	0	97.2
5/12/2017	0.008	0.001	0.022	22:00	0	97.2
6/12/2017	0.008	0.002	0.019	23:00	0	97.2
7/12/2017	0.010	0.000	0.019	08:00	0	97.2
8/12/2017	0.010	0.000	0.032	17:00	0	97.2
9/12/2017	0.003	-0.001	0.015	06:00	0	97.2
10/12/2017	0.000	-0.001	0.002	00:00	0	97.2
11/12/2017	0.001	0.000	0.007	06:00	0	97.2
12/12/2017	0.001	-0.001	0.004	06:00	0	97.2
13/12/2017	0.003	0.000	0.006	23:00	0	97.2
14/12/2017	0.004	0.001	0.010	03:00	0	97.2
15/12/2017	0.004	0.001	0.011	06:00	0	97.2
16/12/2017	0.001	-0.001	0.006	06:00	0	97.2
17/12/2017	0.001	-0.001	0.004	04:00	0	97.2
18/12/2017	0.003	0.000	0.012	05:00	0	97.2
19/12/2017	0.003	0.001	0.008	06:00	0	97.2
20/12/2017	0.002	0.000	0.008	05:00	0	97.2
21/12/2017	0.002	0.000	0.006	08:00	0	97.2
22/12/2017	0.005	0.001	0.010	22:00	0	97.2
23/12/2017	0.003	-0.001	0.008	02:00	0	97.2
24/12/2017	0.001	-0.001	0.006	03:00	0	97.2
25/12/2017	0.000	-0.002	0.002	05:00	0	97.2
26/12/2017	0.000	-0.001	0.006	22:00	0	97.2
27/12/2017	0.001	-0.001	0.004	11:00	0	97.2
28/12/2017	0.002	0.000	0.004	06:00	0	95.1
29/12/2017	0.001	-0.001	0.004	08:00	0	97.2
30/12/2017	0.001	-0.001	0.003	05:00	0	97.2
31/12/2017	0.001	-0.001	0.003	23:00	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 December 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/12/2017	0.0	0.0	0.1	09:00	0.1	10:00	0	96.5
2/12/2017	0.1	0.0	0.1	13:00	0.1	15:00	0	96.9
3/12/2017	0.1	0.1	0.2	13:00	0.2	16:00	0	96.9
4/12/2017	0.2	0.1	0.2	05:00	0.2	11:00	0	96.9
5/12/2017	0.1	0.1	0.2	15:00	0.2	00:00	0	96.9
6/12/2017	0.1	0.0	0.2	02:00	0.1	06:00	0	96.9
7/12/2017	0.1	0.1	0.2	08:00	0.2	08:00	0	96.9
8/12/2017	0.2	0.0	0.3	17:00	0.2	12:00	0	96.9
9/12/2017	0.1	0.1	0.3	14:00	0.2	15:00	0	96.9
10/12/2017	0.1	0.0	0.1	11:00	0.1	01:00	0	96.9
11/12/2017	0.1	0.0	0.1	06:00	0.1	15:00	0	96.9
12/12/2017	0.0	0.0	0.1	11:00	0.1	13:00	0	96.9
13/12/2017	0.1	0.0	0.1	12:00	0.1	16:00	0	96.9
14/12/2017	0.1	0.0	0.2	05:00	0.2	11:00	0	96.9
15/12/2017	0.1	0.0	0.2	06:00	0.2	11:00	0	96.9
16/12/2017	0.1	0.0	0.2	11:00	0.1	15:00	0	96.2
17/12/2017	0.1	0.0	0.2	12:00	0.1	15:00	0	96.9
18/12/2017	0.1	0.0	0.1	11:00	0.1	16:00	0	96.9
19/12/2017	0.1	0.1	0.2	09:00	0.2	15:00	0	96.9
20/12/2017	0.1	0.0	0.2	08:00	0.2	14:00	0	96.9
21/12/2017	0.1	0.0	0.2	08:00	0.2	15:00	0	96.9
22/12/2017	0.1	0.1	0.2	09:00	0.2	13:00	0	96.9
23/12/2017	0.1	0.0	0.2	12:00	0.2	14:00	0	96.5
24/12/2017	0.1	0.1	0.2	09:00	0.1	15:00	0	96.9
25/12/2017	0.1	0.0	0.2	11:00	0.1	15:00	0	96.9
26/12/2017	0.1	0.0	0.1	12:00	0.1	16:00	0	96.5
27/12/2017	0.1	0.0	0.1	13:00	0.1	15:00	0	96.5
28/12/2017	0.1	0.1	0.2	10:00	0.1	15:00	0	94.4
29/12/2017	0.1	0.1	0.2	08:00	0.1	15:00	0	96.9
30/12/2017	0.1	0.1	0.2	10:00	0.2	16:00	0	96.9
31/12/2017	0.1	0.1	0.2	10:00	0.2	14:00	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 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM_{2.5} Summary December 2017

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		
1/12/2017	5.6	2.3	8.0	10:00	0	100.0
2/12/2017	4.4	0.2	17.9	11:00	0	100.0
3/12/2017	2.4	-1.9	6.8	19:00	0	100.0
4/12/2017	4.2	0.0	8.8	09:00	0	100.0
5/12/2017	4.9	-1.5	10.6	05:00	0	100.0
6/12/2017	4.6	0.0	9.8	06:00	0	100.0
7/12/2017	5.1	0.0	12.6	05:00	0	100.0
8/12/2017	6.3	1.9	9.9	08:00	0	100.0
9/12/2017	5.9	0.3	16.3	15:00	0	100.0
10/12/2017	3.7	-1.8	12.5	10:00	0	100.0
11/12/2017	3.8	1.1	7.8	23:00	0	100.0
12/12/2017	3.2	-1.0	6.8	18:00	0	100.0
13/12/2017	4.8	2.1	8.7	09:00	0	100.0
14/12/2017	4.7	2.3	7.9	06:00	0	100.0
15/12/2017	3.0	-2.6	6.8	08:00	0	100.0
16/12/2017	1.7	-1.0	5.8	07:00	0	100.0
17/12/2017	2.7	-0.7	5.9	16:00	0	100.0
18/12/2017	4.0	0.2	8.8	05:00	0	100.0
19/12/2017	3.7	0.2	6.0	06:00	0	100.0
20/12/2017	4.5	-1.8	12.5	20:00	0	100.0
21/12/2017	3.1	0.1	5.8	10:00	0	100.0
22/12/2017	3.7	-0.9	8.0	12:00	0	100.0
23/12/2017	6.0	3.0	16.3	21:00	0	100.0
24/12/2017	3.1	-0.9	9.8	03:00	0	100.0
25/12/2017	3.3	1.1	6.0	04:00	0	100.0
26/12/2017	4.7	2.3	7.7	02:00	0	100.0
27/12/2017	3.3	-0.8	14.9	13:00	0	100.0
28/12/2017	4.1	-1.8	39.8	10:00	0	95.8
29/12/2017	2.6	0.3	7.0	10:00	0	100.0
30/12/2017	1.7	-2.8	5.9	16:00	0	100.0
31/12/2017	4.1	-0.8	9.7	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

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM₁₀ Summary December 2017

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		
1/12/2017	21.7	18.5	25.1	14:00	0	100.0
2/12/2017	20.1	14.4	23.3	21:00	0	100.0
3/12/2017	9.4	-8.1	25.6	16:00	0	100.0
4/12/2017	9.9	-0.8	26.0	05:00	0	100.0
5/12/2017	13.3	5.2	24.5	19:00	0	100.0
6/12/2017	11.9	-10.0	28.5	17:00	0	100.0
7/12/2017	18.5	5.6	44.6	16:00	0	100.0
8/12/2017	14.5	1.7	28.1	10:00	0	100.0
9/12/2017	15.8	4.7	39.3	13:00	0	100.0
10/12/2017	12.7	8.5	17.7	18:00	0	100.0
11/12/2017	13.2	7.4	17.6	14:00	0	100.0
12/12/2017	14.2	7.6	24.1	20:00	0	100.0
13/12/2017	16.4	10.1	29.7	12:00	0	100.0
14/12/2017	15.7	9.0	23.6	15:00	0	100.0
15/12/2017	14.8	8.1	25.3	14:00	0	100.0
16/12/2017	13.2	6.6	18.7	14:00	0	100.0
17/12/2017	14.0	7.2	24.8	15:00	0	100.0
18/12/2017	14.0	9.3	21.4	08:00	0	100.0
19/12/2017	16.0	9.0	25.9	10:00	0	100.0
20/12/2017	17.5	8.2	31.9	13:00	0	100.0
21/12/2017	14.2	1.3	32.6	14:00	0	100.0
22/12/2017	12.3	3.1	27.8	19:00	0	100.0
23/12/2017	10.3	4.5	16.2	13:00	0	100.0
24/12/2017	12.0	3.0	20.8	18:00	0	100.0
25/12/2017	13.0	-8.7	31.8	13:00	0	100.0
26/12/2017	11.1	-2.7	25.0	16:00	0	100.0
27/12/2017	9.2	2.1	23.2	10:00	0	100.0
28/12/2017	9.4	4.3	15.7	21:00	0	95.8
29/12/2017	10.3	-2.7	21.7	13:00	0	100.0
30/12/2017	12.6	3.3	31.5	13:00	0	100.0
31/12/2017	15.0	6.1	29.9	15:00	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 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary December 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.026	08/12/2017 17:00	97.1
NO ₂	ppm	0.030	12 Months	0.009	--	94.0
CO	ppm	8	8 Hours	0.8	24/12/2017 15:00	93.5
PM _{2.5}	µg/m3	25	24 Hours	13.7	08/12/2017	99.7
PM _{2.5}	µg/m3	8	12 Months	6.4	--	98.3
PM ₁₀	µg/m3	50	24 Hours	26.0	26/12/2017	99.7
PM ₁₀	µg/m3	50	12 Months	13.9	--	96.8
TSP	µg/m3	--	24 Hours	24.0	09/12/2017	100.0
TSP	µg/m3	90	12 Months	26.1	--	100.0

Table 9 Station 2 Monthly Summary

Graphical Representations

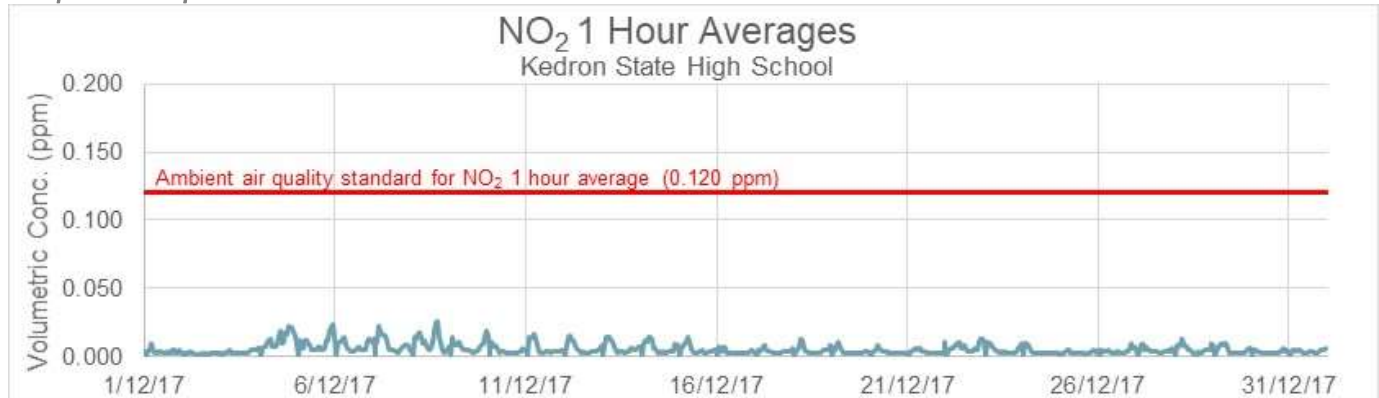


Figure 5 Station 2 Dioxide 1hr averages

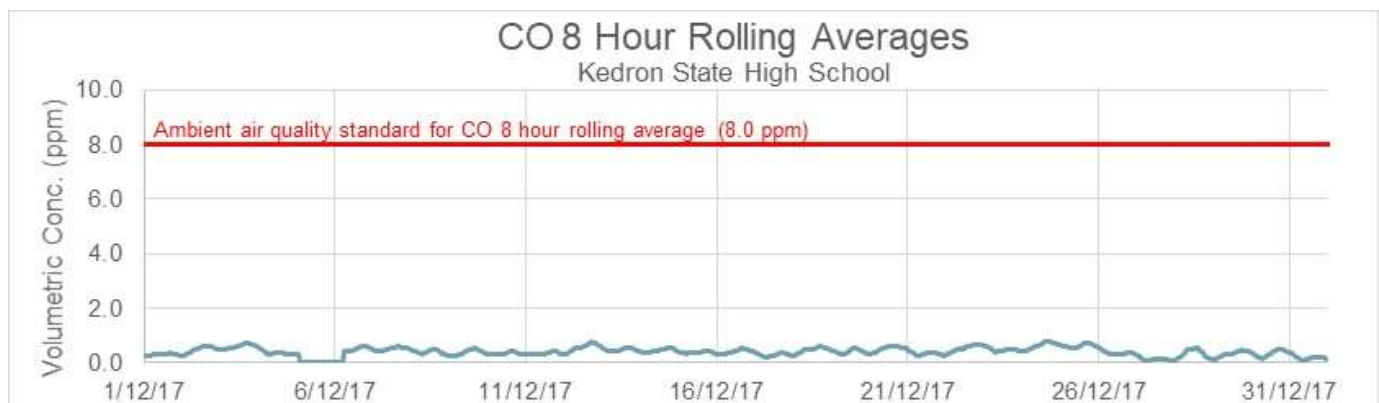


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

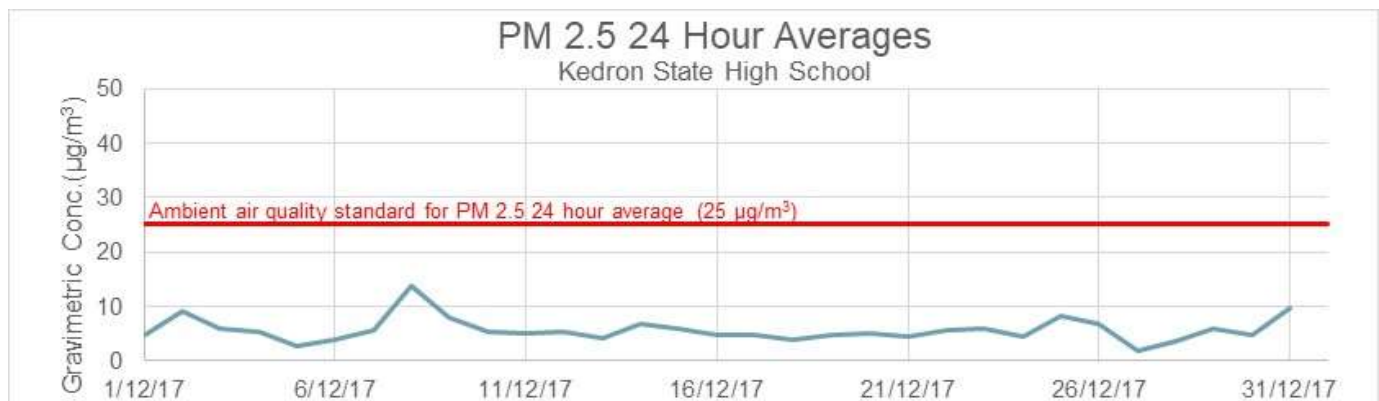


Figure 7 Station 2 PM2.5 24hr averages

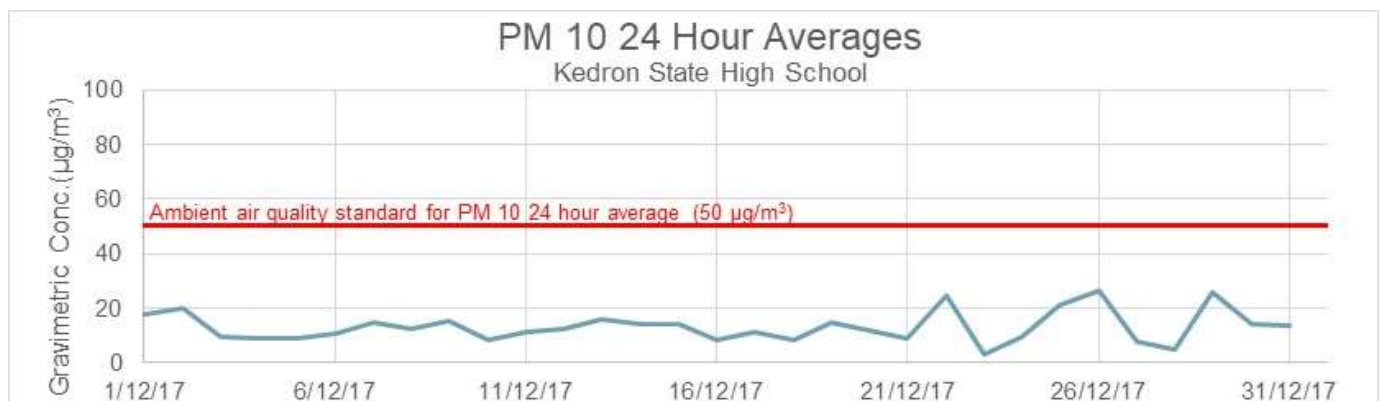


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary December 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/12/2017	0.004	0.003	0.009	05:00	0	97.2
2/12/2017	0.002	0.002	0.003	05:00	0	97.2
3/12/2017	0.003	0.002	0.006	23:00	0	97.2
4/12/2017	0.012	0.006	0.023	19:00	0	97.2
5/12/2017	0.009	0.004	0.024	23:00	0	97.2
6/12/2017	0.008	0.004	0.014	00:00	0	97.2
7/12/2017	0.009	0.003	0.022	04:00	0	97.2
8/12/2017	0.011	0.003	0.026	17:00	0	97.2
9/12/2017	0.008	0.003	0.019	23:00	0	97.2
10/12/2017	0.005	0.002	0.015	00:00	0	97.2
11/12/2017	0.006	0.003	0.017	05:00	0	97.2
12/12/2017	0.006	0.003	0.015	04:00	0	97.2
13/12/2017	0.007	0.003	0.014	04:00	0	97.2
14/12/2017	0.006	0.003	0.014	06:00	0	97.2
15/12/2017	0.005	0.002	0.014	06:00	0	97.2
16/12/2017	0.003	0.002	0.007	05:00	0	97.2
17/12/2017	0.004	0.002	0.008	06:00	0	97.2
18/12/2017	0.005	0.002	0.013	05:00	0	97.2
19/12/2017	0.004	0.002	0.010	05:00	0	97.2
20/12/2017	0.004	0.002	0.008	05:00	0	97.2
21/12/2017	0.004	0.002	0.006	08:00	0	97.2
22/12/2017	0.007	0.004	0.013	23:00	0	97.2
23/12/2017	0.005	0.002	0.011	02:00	0	97.2
24/12/2017	0.004	0.002	0.010	03:00	0	97.2
25/12/2017	0.003	0.001	0.004	21:00	0	97.2
26/12/2017	0.004	0.003	0.009	21:00	0	97.2
27/12/2017	0.005	0.003	0.009	04:00	0	97.2
28/12/2017	0.006	0.003	0.014	05:00	0	92.0
29/12/2017	0.004	0.002	0.009	07:00	0	97.2
30/12/2017	0.003	0.002	0.006	00:00	0	97.2
31/12/2017	0.004	0.003	0.005	23:00	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 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary December 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/12/2017	0.3	0.2	0.4	16:00	0.3	17:00	0	96.9
2/12/2017	0.5	0.4	0.7	11:00	0.6	16:00	0	96.9
3/12/2017	0.6	0.5	0.9	16:00	0.7	16:00	0	96.9
4/12/2017	0.3	0.2	0.5	09:00	0.5	00:00	0	96.9
¹ 5/12/2017	-	-	-	-	0.3	01:00	0	0.0
6/12/2017	0.5	0.4	0.8	16:00	0.6	19:00	0	96.9
7/12/2017	0.5	0.3	0.6	08:00	0.6	17:00	0	96.9
8/12/2017	0.3	0.2	0.6	10:00	0.5	13:00	0	96.9
9/12/2017	0.4	0.3	0.6	10:00	0.5	15:00	0	96.9
10/12/2017	0.3	0.2	0.6	12:00	0.4	15:00	0	96.9
11/12/2017	0.3	0.2	0.5	14:00	0.4	17:00	0	96.9
12/12/2017	0.6	0.5	0.8	16:00	0.7	17:00	0	96.9
13/12/2017	0.4	0.3	0.7	12:00	0.5	17:00	0	96.9
14/12/2017	0.4	0.3	0.6	16:00	0.5	17:00	0	96.9
15/12/2017	0.3	0.2	0.4	15:00	0.4	17:00	0	96.9
16/12/2017	0.4	0.3	0.5	15:00	0.5	16:00	0	96.9
17/12/2017	0.3	0.1	0.4	16:00	0.4	16:00	0	96.9
18/12/2017	0.5	0.4	0.7	14:00	0.6	18:00	0	96.9
19/12/2017	0.4	0.2	0.6	11:00	0.5	15:00	0	96.9
20/12/2017	0.5	0.4	0.7	06:00	0.6	13:00	0	96.9
21/12/2017	0.3	0.2	0.4	10:00	0.5	00:00	0	96.9
22/12/2017	0.6	0.4	0.7	13:00	0.6	23:00	0	96.9
23/12/2017	0.4	0.3	0.5	17:00	0.6	00:00	0	96.9
24/12/2017	0.7	0.5	0.8	13:00	0.8	15:00	0	96.9
25/12/2017	0.6	0.5	0.9	14:00	0.7	16:00	0	96.9
26/12/2017	0.3	0.2	0.4	14:00	0.5	00:00	0	96.9
27/12/2017	0.1	0.0	0.2	11:00	0.3	00:00	0	96.9
28/12/2017	0.3	0.0	0.6	11:00	0.5	13:00	0	91.3
29/12/2017	0.4	0.1	0.5	16:00	0.4	18:00	0	96.5
30/12/2017	0.3	0.0	0.5	14:00	0.5	17:00	0	96.5
31/12/2017	0.1	0.0	0.2	11:00	0.3	1:00	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 instrument fault

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM2.5 Summary

Station 2 KSHS Ambient AQMS Particulate PM2.5 Summary December 2017						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Aves			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		
1/12/2017	4.8	0.6	14.5	23:00	0	100.0
2/12/2017	9.1	1.7	27.8	22:00	0	100.0
3/12/2017	6.0	0.5	15.0	20:00	0	100.0
4/12/2017	5.3	1.0	13.6	14:00	0	100.0
5/12/2017	2.6	0.6	10.6	23:00	0	100.0
6/12/2017	3.9	0.4	14.8	00:00	0	100.0
7/12/2017	5.5	1.1	43.9	23:00	0	100.0
8/12/2017	13.7	1.6	61.4	00:00	0	100.0
9/12/2017	7.8	1.4	20.2	20:00	0	100.0
10/12/2017	5.2	1.6	12.2	00:00	0	100.0
11/12/2017	4.9	1.8	12.2	00:00	0	100.0
12/12/2017	5.2	1.3	16.8	22:00	0	100.0
13/12/2017	4.1	1.5	11.9	00:00	0	100.0
14/12/2017	6.6	0.6	21.8	06:00	0	100.0
15/12/2017	5.8	0.5	20.1	23:00	0	100.0
16/12/2017	4.8	0.4	21.4	00:00	0	100.0
17/12/2017	4.6	0.4	17.5	04:00	0	100.0
18/12/2017	3.8	0.4	19.1	06:00	0	100.0
19/12/2017	4.7	0.4	13.2	22:00	0	100.0
20/12/2017	5.0	1.5	11.2	00:00	0	100.0
21/12/2017	4.4	0.8	17.2	18:00	0	100.0
22/12/2017	5.5	1.2	22.3	22:00	0	100.0
23/12/2017	5.8	2.3	12.1	02:00	0	100.0
24/12/2017	4.5	1.8	8.9	22:00	0	100.0
25/12/2017	8.3	1.5	29.9	22:00	0	100.0
26/12/2017	6.7	1.6	18.7	20:00	0	100.0
27/12/2017	1.9	0.4	6.1	00:00	0	100.0
28/12/2017	3.4	0.4	21.2	23:00	0	91.7
29/12/2017	5.9	0.4	32.4	00:00	0	100.0
30/12/2017	4.7	1.1	15.2	23:00	0	100.0
31/12/2017	9.6	0.6	34.0	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

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary December 2017						
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		
1/12/2017	17.3	4.6	35.1	23:00	0	100.0
2/12/2017	20.1	2.5	50.7	22:00	0	100.0
3/12/2017	9.4	0.6	34.3	00:00	0	100.0
4/12/2017	9.0	1.8	24.4	12:00	0	100.0
5/12/2017	8.9	3.4	21.6	23:00	0	100.0
6/12/2017	10.3	0.8	24.3	22:00	0	100.0
7/12/2017	14.6	4.6	59.6	23:00	0	100.0
8/12/2017	12.4	0.5	84.1	00:00	0	100.0
9/12/2017	15.4	0.6	39.1	20:00	0	100.0
10/12/2017	7.9	2.4	18.3	00:00	0	100.0
11/12/2017	11.3	5.5	23.6	06:00	0	100.0
12/12/2017	12.2	5.1	31.4	23:00	0	100.0
13/12/2017	16.0	6.8	31.4	00:00	0	100.0
14/12/2017	14.2	6.6	22.1	18:00	0	100.0
15/12/2017	13.8	1.1	35.0	22:00	0	100.0
16/12/2017	8.2	0.6	34.8	00:00	0	100.0
17/12/2017	11.0	2.3	31.3	06:00	0	100.0
18/12/2017	8.3	1.9	24.3	06:00	0	100.0
19/12/2017	14.4	4.4	42.9	14:00	0	100.0
20/12/2017	11.9	0.8	46.2	06:00	0	100.0
21/12/2017	8.7	0.6	44.4	18:00	0	100.0
22/12/2017	24.6	0.7	94.1	04:00	0	100.0
23/12/2017	3.2	0.5	18.6	00:00	0	100.0
24/12/2017	9.3	0.6	30.9	06:00	0	100.0
25/12/2017	21.1	0.6	143.6	22:00	0	100.0
26/12/2017	26.0	0.8	81.6	06:00	0	100.0
27/12/2017	7.7	0.6	43.5	06:00	0	100.0
28/12/2017	4.8	0.5	72.2	23:00	0	91.7
29/12/2017	25.5	2.8	118.9	00:00	0	100.0
30/12/2017	14.0	2.2	28.0	06:00	0	100.0
31/12/2017	13.4	0.9	47.7	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 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary December 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.024	05/12/2017 22:00	90.7
NO ₂	ppm	0.030	12 Months	0.009	--	82.5
CO	ppm	8	8 Hours	0.2	31/12/2017 23:00	91.0
PM _{2.5}	µg/m3	25	24 Hours	9.0	09/12/2017	93.1
PM _{2.5}	µg/m3	8	12 Months	7.2	--	88.2
PM ₁₀	µg/m3	50	24 Hours	25.5	01/12/2017	93.4
PM ₁₀	µg/m3	50	12 Months	14.4	--	92.8
TSP	µg/m3	--	24 Hours	25.2	09/12/2017	100.0
TSP	µg/m3	90	12 Months	25.6	--	98.4

Table 14 Station 3 Monthly Summary

Graphical Representations

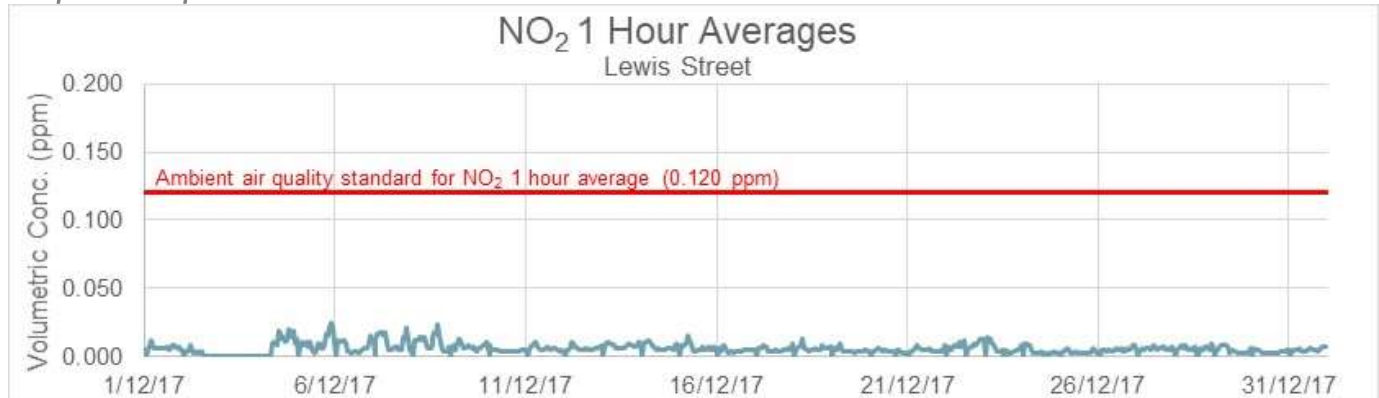


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

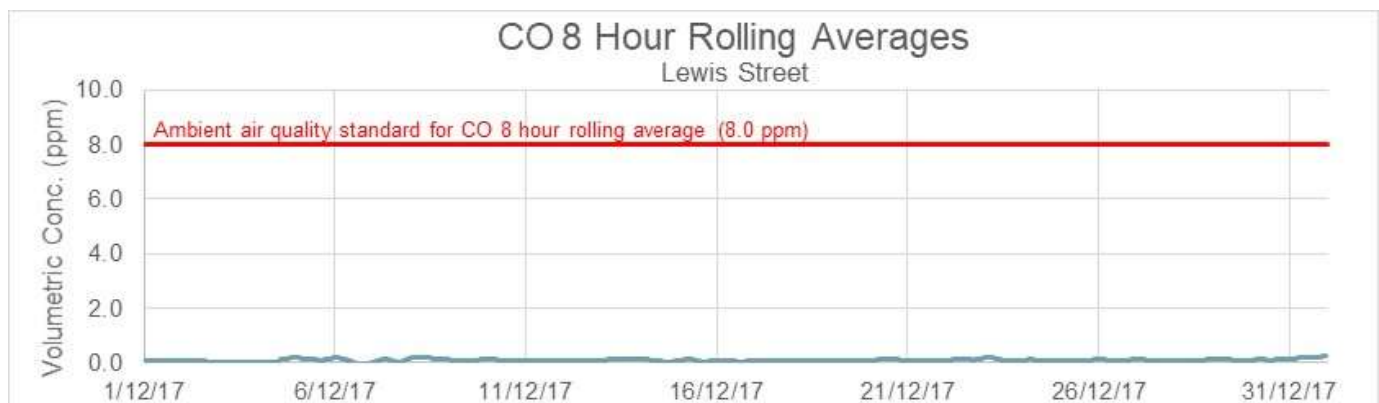


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

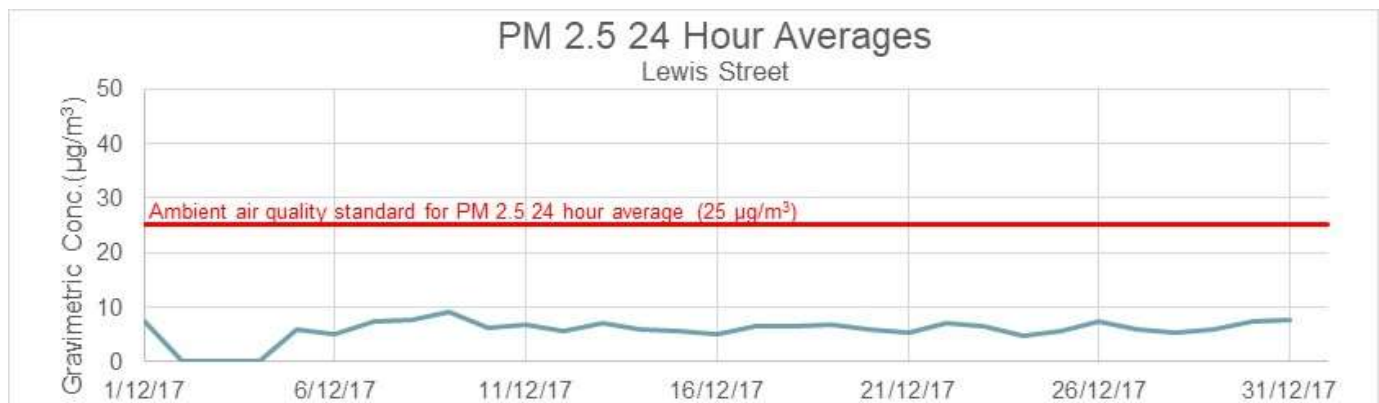


Figure 11 Station 3 PM2.5 24hr averages



Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary December 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/12/2017	0.006	0.005	0.012	05:00	0	97.2
¹ 2/12/2017	-	0.003	0.008	05:00	0	51.7
¹ 3/12/2017	-	-	-	-	0	0.0
¹ 4/12/2017	-	0.008	0.020	19:00	0	63.9
5/12/2017	0.010	0.003	0.024	22:00	0	97.2
6/12/2017	0.007	0.003	0.015	22:00	0	96.5
7/12/2017	0.011	0.005	0.021	21:00	0	97.2
8/12/2017	0.010	0.004	0.023	17:00	0	97.2
9/12/2017	0.008	0.004	0.013	06:00	0	96.5
10/12/2017	0.004	0.003	0.008	02:00	0	97.2
11/12/2017	0.006	0.004	0.011	06:00	0	97.2
12/12/2017	0.006	0.004	0.011	05:00	0	97.2
13/12/2017	0.008	0.005	0.011	23:00	0	97.2
14/12/2017	0.007	0.005	0.012	05:00	0	97.2
15/12/2017	0.007	0.003	0.015	06:00	0	97.2
16/12/2017	0.005	0.003	0.008	05:00	0	97.2
17/12/2017	0.005	0.003	0.008	05:00	0	97.2
18/12/2017	0.006	0.004	0.012	06:00	0	95.5
19/12/2017	0.005	0.003	0.010	06:00	0	94.4
20/12/2017	0.004	0.003	0.007	06:00	0	94.4
21/12/2017	0.005	0.003	0.008	06:00	0	96.9
22/12/2017	0.008	0.005	0.013	22:00	0	94.8
23/12/2017	0.006	0.003	0.014	02:00	0	92.0
24/12/2017	0.004	0.003	0.010	03:00	0	91.3
25/12/2017	0.003	0.002	0.006	21:00	0	96.5
26/12/2017	0.005	0.003	0.008	22:00	0	97.2
27/12/2017	0.006	0.004	0.008	11:00	0	96.2
28/12/2017	0.006	0.005	0.009	23:00	0	94.1
29/12/2017	0.005	0.003	0.009	05:00	0	97.2
30/12/2017	0.003	0.002	0.006	00:00	0	97.2
31/12/2017	0.005	0.003	0.008	23:00	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

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary December 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/12/2017	0.1	0.0	0.1	05:00	0.1	00:00	0	96.9
¹ 2/12/2017	-	0.0	0.1	05:00	0.1	05:00	0	51.7
¹ 3/12/2017	-	-	-	-	-	-	0	0.0
¹ 4/12/2017	-	0.1	0.2	22:00	0.2	22:00	0	63.5
5/12/2017	0.1	0.1	0.2	23:00	0.2	01:00	0	95.8
6/12/2017	0.0	-0.1	0.1	02:00	0.2	02:00	0	96.9
7/12/2017	0.1	0.0	0.2	21:00	0.2	23:00	0	96.9
8/12/2017	0.1	0.1	0.2	17:00	0.2	04:00	0	95.8
9/12/2017	0.1	0.0	0.2	14:00	0.1	21:00	0	96.9
10/12/2017	0.1	0.0	0.1	00:00	0.1	01:00	0	96.9
11/12/2017	0.1	0.0	0.1	06:00	0.1	07:00	0	96.9
12/12/2017	0.1	0.0	0.1	22:00	0.1	23:00	0	96.9
13/12/2017	0.1	0.1	0.2	22:00	0.1	23:00	0	96.9
14/12/2017	0.1	0.0	0.1	05:00	0.1	00:00	0	96.9
15/12/2017	0.1	0.0	0.2	06:00	0.1	07:00	0	96.9
16/12/2017	0.0	0.0	0.1	05:00	0.1	06:00	0	96.9
17/12/2017	0.1	0.0	0.1	05:00	0.1	07:00	0	96.9
18/12/2017	0.1	0.0	0.1	06:00	0.1	06:00	0	96.9
19/12/2017	0.1	0.0	0.1	06:00	0.1	06:00	0	96.9
20/12/2017	0.1	0.1	0.1	05:00	0.1	12:00	0	96.9
21/12/2017	0.1	0.1	0.1	05:00	0.1	17:00	0	96.9
22/12/2017	0.1	0.1	0.2	23:00	0.1	23:00	0	96.9
23/12/2017	0.1	0.0	0.2	00:00	0.2	04:00	0	96.9
24/12/2017	0.1	0.0	0.1	05:00	0.1	06:00	0	96.9
25/12/2017	0.1	0.0	0.1	21:00	0.1	22:00	0	96.2
26/12/2017	0.1	0.1	0.1	22:00	0.1	23:00	0	96.9
27/12/2017	0.1	0.0	0.1	11:00	0.1	01:00	0	96.9
28/12/2017	0.1	0.0	0.1	23:00	0.1	23:00	0	94.1
29/12/2017	0.1	0.0	0.2	06:00	0.1	06:00	0	96.9
30/12/2017	0.1	0.1	0.1	17:00	0.1	20:00	0	96.9
31/12/2017	0.2	0.1	0.3	23:00	0.2	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

¹ Loss of data due to WinAQMS fault

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM _{2.5} Summary December 2017						
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		
1/12/2017	7.4	3.1	13.5	16:00	0	100.0
¹ 2/12/2017	-	2.5	9.7	12:00	0	54.2
¹ 3/12/2017	-	-	-	-	0	0.0
¹ 4/12/2017	-	1.6	10.9	22:00	0	62.5
5/12/2017	5.8	1.6	10.6	22:00	0	100.0
6/12/2017	4.9	-0.6	11.8	05:00	0	100.0
7/12/2017	7.3	-1.8	14.3	18:00	0	100.0
8/12/2017	7.6	1.6	12.8	09:00	0	100.0
9/12/2017	9.0	2.4	16.3	16:00	0	100.0
10/12/2017	6.2	-0.6	15.6	10:00	0	100.0
11/12/2017	6.7	4.0	11.4	08:00	0	100.0
12/12/2017	5.5	1.3	8.9	11:00	0	100.0
13/12/2017	7.1	3.1	9.8	01:00	0	100.0
14/12/2017	5.9	0.5	10.8	18:00	0	100.0
15/12/2017	5.5	-1.3	9.9	08:00	0	100.0
16/12/2017	5.0	1.3	7.9	13:00	0	100.0
17/12/2017	6.5	1.3	11.7	10:00	0	100.0
18/12/2017	6.3	1.2	13.1	17:00	0	100.0
19/12/2017	6.6	2.3	12.1	12:00	0	100.0
20/12/2017	5.7	3.0	11.4	16:00	0	100.0
21/12/2017	5.2	-0.1	10.5	16:00	0	100.0
22/12/2017	6.9	-0.2	29.2	07:00	0	100.0
23/12/2017	6.5	1.8	14.7	05:00	0	100.0
24/12/2017	4.8	-1.3	8.8	08:00	0	100.0
25/12/2017	5.5	1.3	11.5	06:00	0	95.8
26/12/2017	7.4	2.3	14.8	18:00	0	100.0
27/12/2017	5.9	1.5	12.0	04:00	0	95.8
28/12/2017	5.2	-0.9	10.1	03:00	0	83.3
29/12/2017	5.9	2.0	10.7	08:00	0	100.0
30/12/2017	7.2	3.3	10.6	21:00	0	100.0
31/12/2017	7.6	1.5	15.4	17:00	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

Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM ₁₀ Summary December 2017						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs		Time of Max	No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)			
1/12/2017	25.5	11.0	68.3	00:00	0	100.0
¹ 2/12/2017	-	9.8	22.6	00:00	0	54.2
¹ 3/12/2017	-	-	-	-	0	0.0
¹ 4/12/2017	-	2.1	16.7	09:00	0	62.5
5/12/2017	12.7	1.1	77.1	20:00	0	95.8
6/12/2017	10.7	3.1	18.3	18:00	0	100.0
7/12/2017	16.4	9.3	25.5	14:00	0	100.0
8/12/2017	15.2	3.0	31.2	13:00	0	100.0
9/12/2017	15.2	3.5	34.6	15:00	0	100.0
10/12/2017	16.1	6.1	26.6	06:00	0	100.0
11/12/2017	17.9	11.7	25.5	10:00	0	100.0
12/12/2017	15.5	5.2	26.5	07:00	0	100.0
13/12/2017	18.4	8.2	32.5	02:00	0	100.0
14/12/2017	14.1	6.9	22.9	12:00	0	100.0
15/12/2017	14.2	5.0	23.9	13:00	0	100.0
16/12/2017	12.8	5.2	22.3	20:00	0	100.0
17/12/2017	14.6	5.0	30.0	16:00	0	100.0
18/12/2017	12.7	2.4	26.5	07:00	0	100.0
19/12/2017	13.5	4.4	25.8	13:00	0	100.0
20/12/2017	20.8	6.2	153.3	09:00	0	100.0
21/12/2017	11.6	5.1	24.9	14:00	0	100.0
22/12/2017	10.5	3.1	25.1	13:00	0	100.0
23/12/2017	9.1	1.6	17.4	14:00	0	100.0
24/12/2017	11.2	2.4	21.5	21:00	0	100.0
25/12/2017	14.9	6.3	26.6	21:00	0	95.8
26/12/2017	12.9	-0.8	22.2	18:00	0	95.8
27/12/2017	9.1	-1.5	15.0	21:00	0	100.0
28/12/2017	9.8	5.1	18.0	23:00	0	91.7
29/12/2017	15.9	4.5	26.5	16:00	0	100.0
30/12/2017	12.2	4.5	20.8	10:00	0	100.0
31/12/2017	12.0	-0.6	24.1	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

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary December 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.030	05/12/2017 22:00	97.2
NO ₂	ppm	0.030	12 Months	0.011	--	96.7
CO	ppm	8	8 Hours	0.4	31/12/2017 22:00	96.8
PM _{2.5}	µg/m3	25	24 Hours	9.0	10/12/2017	99.9
PM _{2.5}	µg/m3	8	12 Months	7.5	--	98.1
PM ₁₀	µg/m3	50	24 Hours	32.9	01/12/2017	99.9
PM ₁₀	µg/m3	50	12 Months	15.5	--	96.0
TSP	µg/m3	--	24 Hours	26.3	09/12/2017	100.0
TSP	µg/m3	90	12 Months	28.1	--	100.0

Table 19 Station 4 Monthly Summary

Graphical Representations

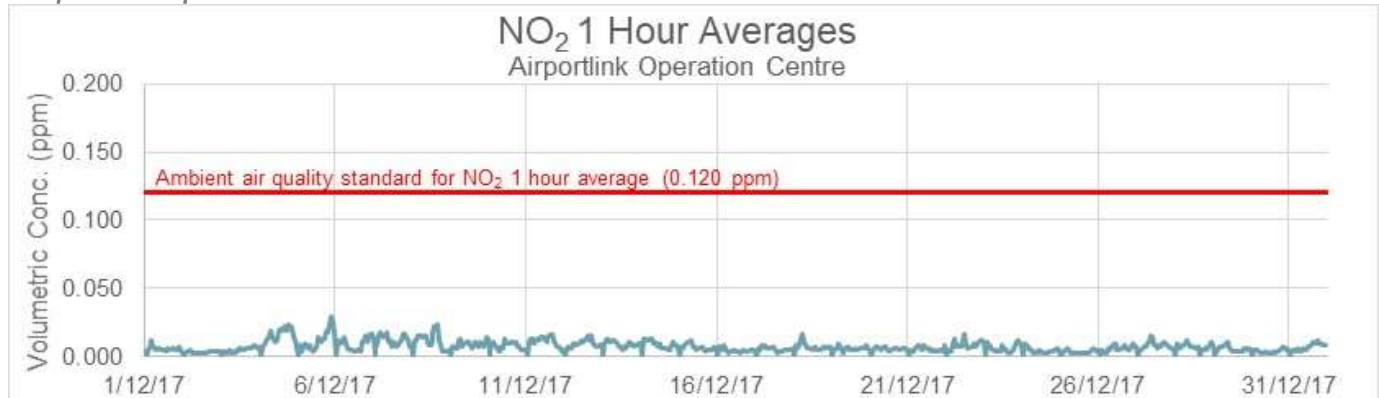


Figure 13 Station 4 Nitrogen Dioxide 1hr averages



Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

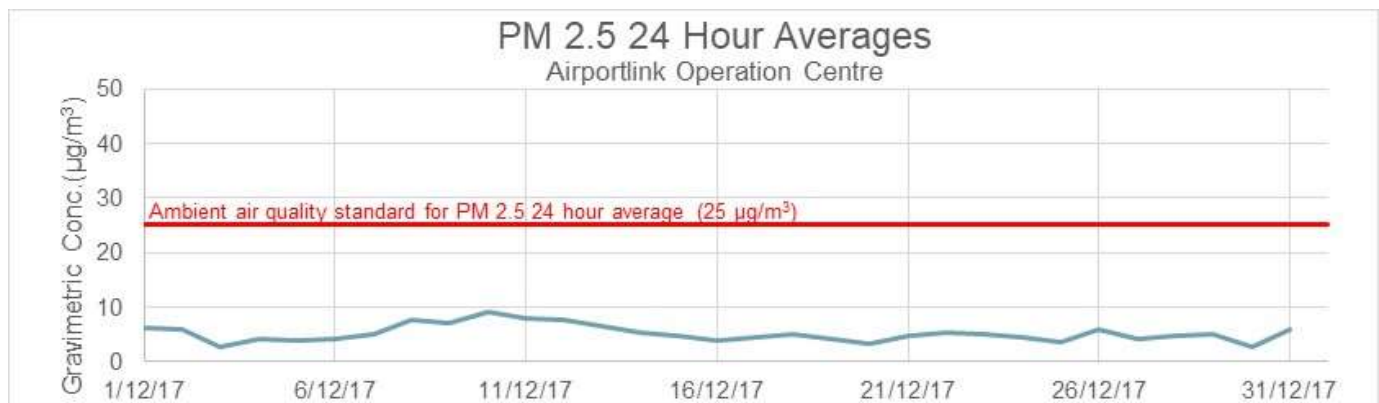


Figure 15 Station 4 PM2.5 24hr averages



Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary December 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/12/2017	0.005	0.004	0.012	05:00	0	97.2
2/12/2017	0.003	0.002	0.005	05:00	0	97.2
3/12/2017	0.005	0.002	0.008	21:00	0	97.2
4/12/2017	0.015	0.006	0.024	19:00	0	97.2
5/12/2017	0.012	0.003	0.030	22:00	0	97.2
6/12/2017	0.009	0.003	0.017	00:00	0	97.2
7/12/2017	0.012	0.007	0.018	09:00	0	97.2
8/12/2017	0.012	0.004	0.023	17:00	0	97.2
9/12/2017	0.009	0.005	0.014	23:00	0	97.2
10/12/2017	0.008	0.004	0.013	00:00	0	97.2
11/12/2017	0.011	0.004	0.017	17:00	0	97.2
12/12/2017	0.009	0.004	0.015	17:00	0	97.2
13/12/2017	0.009	0.005	0.013	04:00	0	97.2
14/12/2017	0.009	0.005	0.013	07:00	0	97.2
15/12/2017	0.007	0.004	0.012	08:00	0	97.2
16/12/2017	0.005	0.003	0.008	05:00	0	97.2
17/12/2017	0.005	0.003	0.009	06:00	0	97.2
18/12/2017	0.007	0.005	0.016	06:00	0	97.2
19/12/2017	0.006	0.003	0.009	05:00	0	97.2
20/12/2017	0.006	0.003	0.007	05:00	0	97.2
21/12/2017	0.005	0.004	0.009	10:00	0	97.2
22/12/2017	0.008	0.004	0.017	12:00	0	97.2
23/12/2017	0.006	0.003	0.012	22:00	0	97.2
24/12/2017	0.005	0.002	0.010	02:00	0	97.2
25/12/2017	0.003	0.002	0.006	21:00	0	97.2
26/12/2017	0.006	0.003	0.010	10:00	0	97.2
27/12/2017	0.008	0.004	0.015	09:00	0	97.2
28/12/2017	0.007	0.004	0.011	08:00	0	95.1
29/12/2017	0.006	0.003	0.011	09:00	0	97.2
30/12/2017	0.004	0.002	0.007	20:00	0	97.2
31/12/2017	0.007	0.004	0.012	18:00	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 December 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/12/2017	0.3	0.3	0.3	05:00	0.3	12:00	0	96.9
2/12/2017	0.2	0.2	0.2	20:00	0.3	00:00	0	96.9
3/12/2017	0.3	0.2	0.4	13:00	0.3	20:00	0	96.9
4/12/2017	0.3	0.3	0.4	17:00	0.4	21:00	0	96.9
5/12/2017	0.3	0.2	0.3	19:00	0.3	00:00	0	96.9
6/12/2017	0.2	0.2	0.3	06:00	0.3	00:00	0	96.9
7/12/2017	0.2	0.2	0.3	19:00	0.3	00:00	0	96.9
8/12/2017	0.3	0.3	0.4	17:00	0.4	21:00	0	96.9
9/12/2017	0.2	0.2	0.3	14:00	0.3	00:00	0	96.9
10/12/2017	0.2	0.2	0.3	12:00	0.3	18:00	0	96.9
11/12/2017	0.2	0.2	0.3	17:00	0.2	20:00	0	96.9
12/12/2017	0.2	0.1	0.3	17:00	0.2	20:00	0	96.9
13/12/2017	0.2	0.1	0.2	07:00	0.2	23:00	0	96.9
14/12/2017	0.2	0.2	0.3	07:00	0.2	09:00	0	96.9
15/12/2017	0.2	0.2	0.3	06:00	0.2	08:00	0	96.9
16/12/2017	0.2	0.2	0.3	05:00	0.2	06:00	0	96.9
17/12/2017	0.2	0.2	0.3	13:00	0.2	01:00	0	96.9
18/12/2017	0.2	0.2	0.3	08:00	0.2	08:00	0	96.9
19/12/2017	0.2	0.2	0.2	06:00	0.2	00:00	0	96.9
20/12/2017	0.2	0.2	0.3	22:00	0.2	23:00	0	96.9
21/12/2017	0.2	0.2	0.3	06:00	0.3	12:00	0	96.9
22/12/2017	0.3	0.2	0.4	12:00	0.3	12:00	0	96.9
23/12/2017	0.3	0.3	0.4	22:00	0.3	07:00	0	96.9
24/12/2017	0.3	0.2	0.3	02:00	0.3	03:00	0	96.9
25/12/2017	0.2	0.2	0.3	06:00	0.3	07:00	0	96.2
26/12/2017	0.2	0.2	0.3	17:00	0.3	23:00	0	96.9
27/12/2017	0.3	0.2	0.4	10:00	0.3	14:00	0	96.9
28/12/2017	0.2	0.2	0.2	07:00	0.3	00:00	0	94.8
29/12/2017	0.3	0.2	0.3	08:00	0.3	09:00	0	96.9
30/12/2017	0.3	0.2	0.3	23:00	0.3	05:00	0	96.9
31/12/2017	0.4	0.3	0.4	23:00	0.4	22:00	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 December 2017						
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		
1/12/2017	6.2	0.5	10.0	14:00	0	100.0
2/12/2017	5.9	0.1	12.0	07:00	0	100.0
3/12/2017	2.8	-1.9	7.8	01:00	0	100.0
4/12/2017	4.0	-0.8	8.5	21:00	0	100.0
5/12/2017	3.9	-1.3	8.9	23:00	0	100.0
6/12/2017	4.0	-0.7	8.0	02:00	0	100.0
7/12/2017	5.0	-0.5	8.9	22:00	0	100.0
8/12/2017	7.7	2.0	12.0	08:00	0	100.0
9/12/2017	6.9	-0.8	23.5	23:00	0	100.0
10/12/2017	9.0	1.2	19.4	09:00	0	100.0
11/12/2017	7.9	3.1	20.7	08:00	0	100.0
12/12/2017	7.7	0.4	21.4	07:00	0	100.0
13/12/2017	6.3	0.1	16.9	08:00	0	100.0
14/12/2017	5.3	-1.6	11.8	10:00	0	100.0
15/12/2017	4.6	1.1	10.8	08:00	0	100.0
16/12/2017	3.8	1.0	6.8	12:00	0	100.0
17/12/2017	4.3	-1.6	9.0	08:00	0	100.0
18/12/2017	5.1	-0.7	10.8	07:00	0	100.0
19/12/2017	4.0	-0.9	8.9	16:00	0	100.0
20/12/2017	3.3	-0.4	7.8	08:00	0	100.0
21/12/2017	4.7	0.1	7.9	06:00	0	100.0
22/12/2017	5.1	0.2	13.6	14:00	0	100.0
23/12/2017	5.0	0.3	9.8	09:00	0	100.0
24/12/2017	4.5	-0.7	9.8	22:00	0	100.0
25/12/2017	3.5	-0.5	9.5	22:00	0	100.0
26/12/2017	5.8	0.3	11.5	19:00	0	100.0
27/12/2017	4.0	-0.7	15.2	00:00	0	100.0
28/12/2017	4.6	0.1	10.5	08:00	0	95.8
29/12/2017	5.1	4.0	6.8	04:00	0	100.0
30/12/2017	2.8	-1.0	6.8	18:00	0	100.0
31/12/2017	5.9	-0.5	16.1	21:00	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 December 2017						
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		
1/12/2017	32.9	25.4	44.2	15:00	0	100.0
2/12/2017	23.6	11.9	35.7	12:00	0	100.0
3/12/2017	10.5	6.0	22.8	00:00	0	100.0
4/12/2017	10.8	6.2	20.1	10:00	0	100.0
5/12/2017	11.5	6.3	22.3	21:00	0	100.0
6/12/2017	12.1	4.2	21.0	03:00	0	100.0
7/12/2017	19.4	11.5	27.4	17:00	0	100.0
8/12/2017	21.3	9.5	33.8	08:00	0	100.0
9/12/2017	21.6	8.9	39.1	16:00	0	100.0
10/12/2017	22.1	12.8	35.5	13:00	0	100.0
11/12/2017	21.4	14.6	38.8	13:00	0	100.0
12/12/2017	23.1	9.8	67.4	21:00	0	100.0
13/12/2017	25.0	14.6	36.3	15:00	0	100.0
14/12/2017	23.5	12.1	34.4	12:00	0	100.0
15/12/2017	22.1	12.0	33.3	14:00	0	100.0
16/12/2017	23.7	6.4	33.1	01:00	0	100.0
17/12/2017	25.3	14.5	36.8	17:00	0	100.0
18/12/2017	24.2	12.5	44.1	09:00	0	100.0
19/12/2017	23.2	11.0	38.3	13:00	0	100.0
20/12/2017	22.3	13.1	42.7	14:00	0	100.0
21/12/2017	21.3	12.7	34.7	12:00	0	100.0
22/12/2017	20.4	6.3	33.5	14:00	0	100.0
23/12/2017	19.2	9.3	36.3	13:00	0	100.0
24/12/2017	19.2	11.1	30.2	13:00	0	100.0
25/12/2017	21.4	8.2	30.9	13:00	0	100.0
26/12/2017	22.6	12.8	34.8	18:00	0	100.0
27/12/2017	18.0	2.4	27.7	13:00	0	100.0
28/12/2017	18.3	7.9	26.9	10:00	0	95.8
29/12/2017	23.1	12.3	57.5	01:00	0	100.0
30/12/2017	18.2	6.4	26.8	00:00	0	100.0
31/12/2017	14.5	5.0	31.7	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 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary December 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.028	08/12/2017 04:00	97.1
NO ₂	ppm	0.030	12 Months	0.010	--	94.6
CO	ppm	8	8 Hours	0.6	29/12/2017 23:00	90.2
PM _{2.5}	µg/m3	25	24 Hours	9.5	08/12/2017	99.9
PM _{2.5}	µg/m3	8	12 Months	6.7	--	96.1
PM ₁₀	µg/m3	50	24 Hours	23.7	02/12/2017	99.7
PM ₁₀	µg/m3	50	12 Months	16.8	--	98.8
TSP	µg/m3	--	24 Hours	25.9	09/12/2017	100.0
TSP	µg/m3	90	12 Months	25.9	--	100.0

Table 24 Station 5 Monthly Summary

Graphical Representations

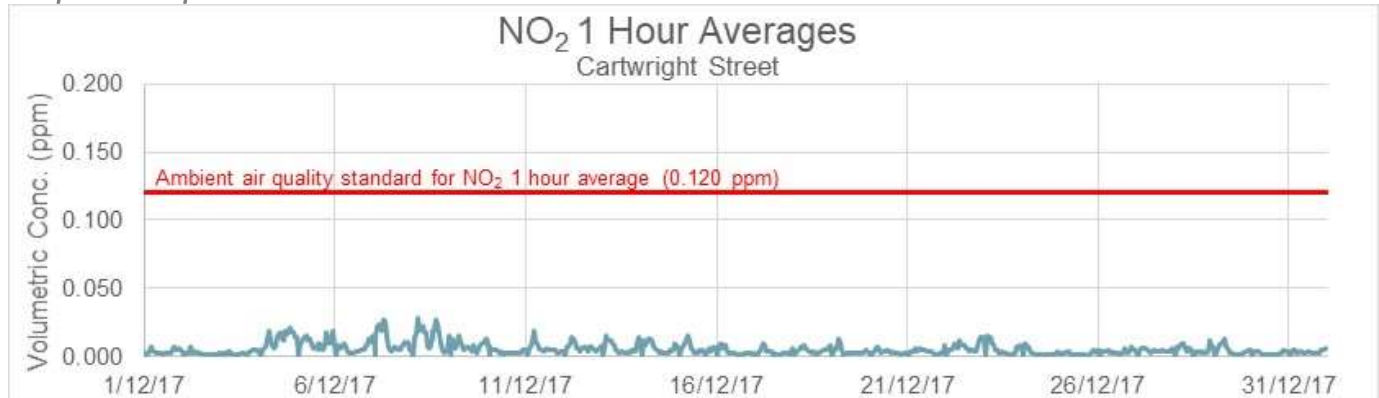


Figure 17 Station 5 Dioxide 1hr averages



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 December 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/12/2017	0.003	0.002	0.007	05:00	0	97.2
2/12/2017	0.002	0.001	0.008	05:00	0	97.2
3/12/2017	0.002	0.001	0.005	21:00	0	97.2
4/12/2017	0.013	0.005	0.021	20:00	0	97.2
5/12/2017	0.010	0.004	0.019	23:00	0	97.2
6/12/2017	0.006	0.002	0.014	23:00	0	97.2
7/12/2017	0.012	0.004	0.027	07:00	0	97.2
8/12/2017	0.014	0.002	0.028	04:00	0	97.2
9/12/2017	0.008	0.003	0.015	06:00	0	97.2
10/12/2017	0.004	0.002	0.009	00:00	0	97.2
11/12/2017	0.006	0.002	0.018	05:00	0	97.2
12/12/2017	0.007	0.003	0.014	05:00	0	97.2
13/12/2017	0.007	0.003	0.015	03:00	0	97.2
14/12/2017	0.007	0.002	0.013	06:00	0	97.2
15/12/2017	0.006	0.002	0.015	06:00	0	97.2
16/12/2017	0.003	0.001	0.010	03:00	0	97.2
17/12/2017	0.003	0.001	0.009	05:00	0	97.2
18/12/2017	0.005	0.002	0.008	07:00	0	97.2
19/12/2017	0.004	0.002	0.013	05:00	0	97.2
20/12/2017	0.003	0.002	0.008	05:00	0	97.2
21/12/2017	0.004	0.001	0.008	23:00	0	97.2
22/12/2017	0.007	0.003	0.015	22:00	0	97.2
23/12/2017	0.006	0.001	0.015	02:00	0	97.2
24/12/2017	0.003	0.001	0.009	02:00	0	97.2
25/12/2017	0.002	0.000	0.004	21:00	0	97.2
26/12/2017	0.003	0.002	0.007	21:00	0	97.2
27/12/2017	0.004	0.003	0.007	06:00	0	97.2
28/12/2017	0.005	0.002	0.012	22:00	0	94.8
29/12/2017	0.004	0.001	0.013	07:00	0	97.2
30/12/2017	0.002	0.001	0.005	00:00	0	97.2
31/12/2017	0.004	0.002	0.005	23:00	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 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary December 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/12/2017	0.2	0.2	0.2	05:00	0.2	00:00	0	96.5
2/12/2017	0.2	0.2	0.2	23:00	0.2	23:00	0	96.5
3/12/2017	0.2	0.2	0.2	19:00	0.2	21:00	0	96.5
4/12/2017	0.2	0.2	0.3	07:00	0.3	23:00	0	96.5
5/12/2017	0.2	0.2	0.3	23:00	0.3	00:00	0	96.5
6/12/2017	0.1	0.0	0.2	02:00	0.2	00:00	0	96.5
7/12/2017	0.2	0.1	0.3	07:00	0.2	23:00	0	95.8
8/12/2017	0.3	0.2	0.4	07:00	0.3	08:00	0	96.5
9/12/2017	0.2	0.1	0.3	14:00	0.3	00:00	0	96.5
10/12/2017	0.2	0.1	0.2	00:00	0.2	01:00	0	96.5
11/12/2017	0.2	0.1	0.3	06:00	0.2	08:00	0	96.5
12/12/2017	0.1	0.1	0.2	06:00	0.2	00:00	0	96.5
13/12/2017	0.2	0.1	0.2	06:00	0.2	13:00	0	96.5
14/12/2017	0.1	0.1	0.2	06:00	0.2	08:00	0	96.5
15/12/2017	0.2	0.1	0.3	06:00	0.2	07:00	0	96.5
16/12/2017	0.2	0.2	0.2	03:00	0.2	06:00	0	96.5
17/12/2017	0.2	0.1	0.2	06:00	0.2	10:00	0	96.5
18/12/2017	0.1	0.1	0.2	23:00	0.2	00:00	0	96.5
19/12/2017	0.2	0.2	0.4	08:00	0.2	12:00	0	96.5
20/12/2017	0.2	0.2	0.2	15:00	0.2	16:00	0	96.5
¹ 21/12/2017	-	0.2	0.2	00:00	0.2	01:00	0	4.2
¹ 22/12/2017	-	-	-	-	-	-	0	0.0
23/12/2017	0.3	0.2	0.3	23:00	0.3	23:00	0	92.4
24/12/2017	0.2	0.1	0.2	23:00	0.3	00:00	0	96.5
25/12/2017	0.3	0.2	0.4	14:00	0.4	21:00	0	96.5
26/12/2017	0.2	0.1	0.2	22:00	0.3	00:00	0	96.5
27/12/2017	0.2	0.2	0.2	12:00	0.2	00:00	0	96.5
28/12/2017	0.3	0.2	0.5	22:00	0.4	23:00	0	94.4
29/12/2017	0.4	0.2	0.6	22:00	0.6	23:00	0	96.9
30/12/2017	0.3	0.2	0.6	21:00	0.5	00:00	0	96.9
31/12/2017	0.2	0.1	0.2	23:00	0.4	1:00	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 instrument fault

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary December 2017						
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		
1/12/2017	7.2	5.1	10.8	16:00	0	100.0
2/12/2017	6.3	-15.0	34.7	14:00	0	100.0
3/12/2017	6.5	1.1	10.6	19:00	0	100.0
4/12/2017	5.9	2.3	12.5	13:00	0	100.0
5/12/2017	8.4	3.2	14.8	16:00	0	100.0
6/12/2017	8.6	0.1	31.5	19:00	0	100.0
7/12/2017	8.9	0.2	29.4	17:00	0	100.0
8/12/2017	9.5	3.3	19.3	05:00	0	100.0
9/12/2017	8.8	4.0	17.8	14:00	0	100.0
10/12/2017	8.5	3.2	14.5	13:00	0	100.0
11/12/2017	7.8	4.0	14.9	18:00	0	100.0
12/12/2017	8.0	5.0	14.8	18:00	0	100.0
13/12/2017	8.1	4.1	12.9	18:00	0	100.0
14/12/2017	7.5	4.5	11.8	17:00	0	100.0
15/12/2017	7.5	2.5	16.2	19:00	0	100.0
16/12/2017	6.8	3.0	12.6	06:00	0	100.0
17/12/2017	7.2	4.2	12.8	19:00	0	100.0
18/12/2017	7.8	3.4	13.4	04:00	0	100.0
19/12/2017	7.6	4.0	13.6	09:00	0	100.0
20/12/2017	7.8	3.2	12.8	15:00	0	100.0
21/12/2017	7.0	2.3	10.9	11:00	0	100.0
22/12/2017	6.8	4.1	14.7	17:00	0	100.0
23/12/2017	7.0	1.5	12.7	05:00	0	100.0
24/12/2017	5.9	-0.5	11.8	18:00	0	100.0
25/12/2017	8.2	3.0	45.9	17:00	0	100.0
26/12/2017	8.4	4.3	18.3	17:00	0	100.0
27/12/2017	5.0	-13.7	11.8	17:00	0	100.0
28/12/2017	5.9	3.8	11.6	17:00	0	95.8
29/12/2017	6.4	3.1	10.8	17:00	0	100.0
30/12/2017	6.7	3.5	10.7	02:00	0	100.0
31/12/2017	7.5	2.4	12.8	16:00	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

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM ₁₀ Summary December 2017						
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		
1/12/2017	22.7	13.5	31.4	02:00	0	100.0
2/12/2017	23.7	12.5	42.1	09:00	0	100.0
3/12/2017	10.6	2.0	21.6	00:00	0	100.0
4/12/2017	10.1	4.2	24.3	08:00	0	100.0
5/12/2017	13.9	3.1	33.4	23:00	0	100.0
6/12/2017	13.4	0.1	25.9	17:00	0	100.0
7/12/2017	17.7	9.1	31.1	17:00	0	100.0
8/12/2017	18.7	3.9	52.2	13:00	0	100.0
9/12/2017	18.3	3.4	46.7	15:00	0	100.0
10/12/2017	15.4	6.3	20.5	01:00	0	100.0
11/12/2017	15.6	8.0	24.7	10:00	0	100.0
12/12/2017	16.6	6.3	31.3	17:00	0	100.0
13/12/2017	20.0	9.3	30.0	22:00	0	100.0
14/12/2017	17.3	6.0	26.7	19:00	0	100.0
15/12/2017	16.2	5.9	26.3	17:00	0	100.0
16/12/2017	17.6	12.1	22.0	21:00	0	100.0
17/12/2017	16.1	9.0	33.6	18:00	0	100.0
18/12/2017	15.3	2.3	29.2	10:00	0	100.0
19/12/2017	16.6	3.4	36.6	09:00	0	100.0
20/12/2017	21.7	10.7	53.0	13:00	0	100.0
21/12/2017	17.2	3.3	26.8	16:00	0	100.0
22/12/2017	14.4	5.0	67.0	14:00	0	100.0
23/12/2017	12.7	1.4	19.8	22:00	0	100.0
24/12/2017	14.8	2.5	32.8	19:00	0	100.0
25/12/2017	16.1	5.2	32.2	16:00	0	100.0
26/12/2017	13.3	3.4	26.8	17:00	0	100.0
27/12/2017	11.1	5.1	23.4	20:00	0	100.0
28/12/2017	21.1	7.1	210.6	22:00	0	95.8
29/12/2017	14.4	4.3	25.6	18:00	0	95.8
30/12/2017	10.8	4.1	23.7	16:00	0	100.0
31/12/2017	17.6	9.3	28.5	15:00	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 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 µg/m³ was not exceeded during the reporting period at any of the five sites.

TSP Results December 2017					
Sample Date	Station 1 AHS (µg/m ³)	Station 2 KSHS (µg/m ³)	Station 3 LS (µg/m ³)	Station 4 ALOC (µg/m ³)	Station 5 CS (µg/m ³)
03/12/2017	16	17	14	17	14
09/12/2017	30	24	25	26	26
15/12/2017	23	18	22	22	25
21/12/2017	23	17	20	21	22
27/12/2017	17	15	15	18	13
Monthly Average	21.7	18.3	19.3	21.0	20.0
Annual Average	28.9	26.1	25.6	28.1	25.9

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
28/12/2017 15:35:00	28/12/2017 16:00:00	All parameters	Scheduled maintenance – 1 Monthly	19/01/2018	TA
1/12/2017 00:00:00	31/12/2017 23:55:00	PM _{2.5}	Intermittent instrument faults – error code logged	19/01/2018	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
5/12/2017 00:05:00	5/12/2017 23:55:00	CO	Instrument fault	19/01/2018	TA
28/12/2017 13:15:00	28/12/2017 14:25:00	All parameters	Maintenance	19/01/2018	TA
1/12/2017 00:00:00	31/12/2017 23:55:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	19/01/2018	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
2/12/2017 13:00:00	4/12/2017 08:40:00	All parameters	Data logger fault	19/01/2018	TA
18/12/2017 02:00:00	28/12/2017 02:10:00	NO, NO2, NOx	Intermittent instrument fault	19/01/2018	TA
28/12/2017 14:40:00	28/12/2017 15:15:00	All parameters	Maintenance	19/01/2018	TA
1/12/2017 00:00:00	31/12/2017 23:55:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	19/01/2018	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
28/12/2017 16:25:00	28/12/2017 16:50:00	All parameters	Maintenance	19/01/2018	TA
1/12/2017 00:00:00	31/12/2017 23:55:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	19/01/2018	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
21/12/2017 01:40:00	23/12/2017 00:55:00	CO	Instrument fault	19/01/2018	TA
23/12/2017 00:55:00	28/12/2017 12:55:00	All parameters	Maintenance	19/01/2018	TA
1/12/2017 00:00:00	31/12/2017 23:55:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	19/01/2018	TA

Table 34 Station 5 Cartwright St AQMS Data Validation Table