



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

March 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. 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 March 2017							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences March 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

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

- 201703 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	Last Calibration Date				
				Station 1	Station 2	Station 3	Station 4	Station 5
NO NO ₂ NO _x	ppm	2.78%	AS 3580.5.1	21/03/2017	20/03/2017	21/03/2017	20/03/2017	21/03/2017
CO	ppm	2.56%	AS 3580.7.1	21/03/2017	20/03/2017	21/03/2017	20/03/2017	21/03/2017
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	16/02/2017*	16/02/2017	15/02/2017*	16/02/2017*	16/02/2017
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	16/02/2017	16/02/2017	15/02/2017	16/02/2017	16/02/2017
TSP	µg/m ³	7.34%	AS 3580.9.3	16/02/2017	15/02/2017	15/02/2017	16/02/2017	16/02/2017

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 March 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.028	17/03/2017 18:00	96.8
NO ₂	ppm	0.030	12 Months	0.003	--	96.1
CO	ppm	8	8 Hours	0.3	23/03/2017 01:00	83.6
PM _{2.5}	µg/m3	25	24 Hours	3.8	07/03/2017	78.2
PM _{2.5}	µg/m3	8	12 Months	3.3	--	82.7
PM ₁₀	µg/m3	50	24 Hours	21.2	07/03/2017	99.5
PM ₁₀	µg/m3	50	12 Months	15.3	--	97.9

Table 4 Station 1 Monthly Summary

Graphical Representations

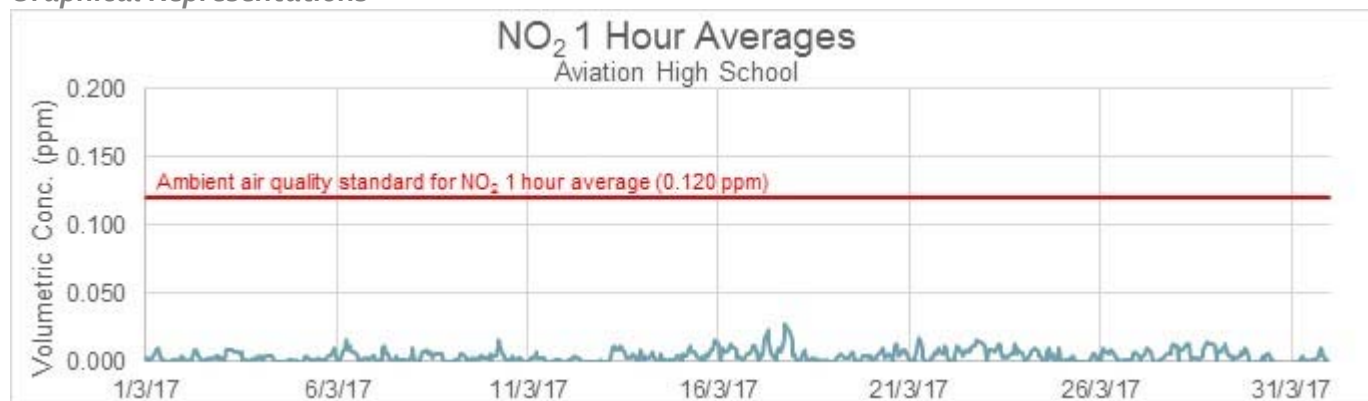


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

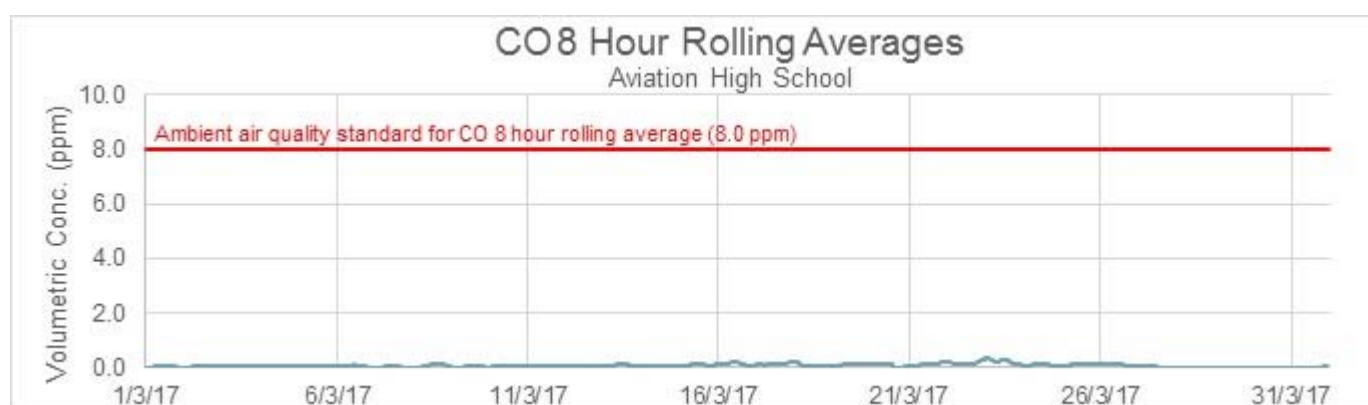


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

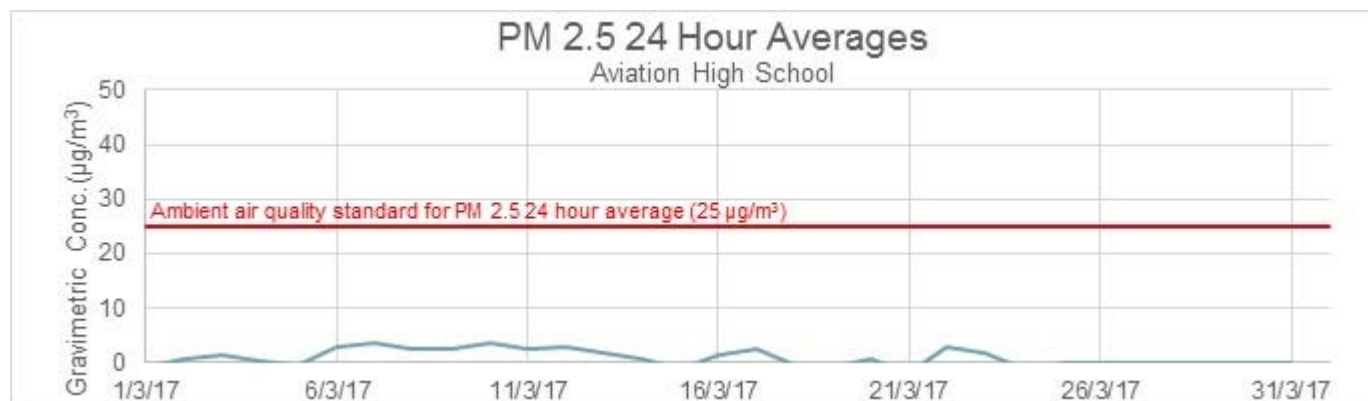


Figure 3 Station 1 PM2.5 24hr averages

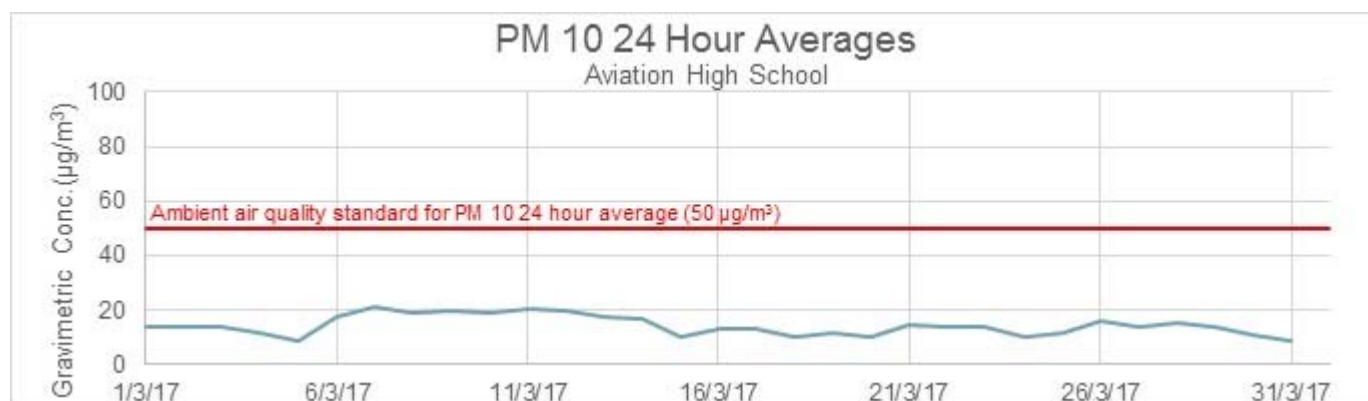


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary March 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2017	0.002	0.000	0.009	08:00	0	97.2
2/03/2017	0.003	0.000	0.008	06:00	0	97.2
3/03/2017	0.004	0.000	0.009	03:00	0	97.2
4/03/2017	0.002	-0.001	0.005	00:00	0	97.2
5/03/2017	0.002	0.000	0.010	23:00	0	97.2
6/03/2017	0.005	0.001	0.016	06:00	0	97.2
7/03/2017	0.003	0.000	0.012	06:00	0	97.2
8/03/2017	0.004	0.000	0.009	00:00	0	97.2
9/03/2017	0.002	0.000	0.006	07:00	0	97.2
10/03/2017	0.004	0.000	0.016	06:00	0	97.2
11/03/2017	0.002	-0.001	0.007	05:00	0	97.2
12/03/2017	0.001	-0.001	0.005	06:00	0	97.2
13/03/2017	0.005	0.000	0.012	11:00	0	97.2
14/03/2017	0.003	0.000	0.007	06:00	0	97.2
15/03/2017	0.006	0.001	0.016	21:00	0	97.2
16/03/2017	0.008	0.002	0.014	00:00	0	97.2
17/03/2017	0.012	0.002	0.028	18:00	0	97.2
18/03/2017	0.002	-0.001	0.008	06:00	0	97.2
19/03/2017	0.003	-0.001	0.007	12:00	0	97.2
20/03/2017	0.006	0.002	0.012	16:00	0	87.8
21/03/2017	0.006	0.001	0.018	06:00	0	92.0
22/03/2017	0.009	0.000	0.016	18:00	0	97.2
23/03/2017	0.007	0.003	0.013	08:00	0	97.2
24/03/2017	0.004	0.000	0.010	22:00	0	97.2
25/03/2017	0.001	-0.001	0.006	20:00	0	97.2
26/03/2017	0.004	0.000	0.009	02:00	0	97.2
27/03/2017	0.005	0.000	0.012	22:00	0	97.2
28/03/2017	0.008	0.001	0.014	19:00	0	97.2
29/03/2017	0.006	-0.001	0.013	07:00	0	97.2
30/03/2017	0.000	-0.002	0.005	09:00	0	97.2
31/03/2017	0.002	-0.002	0.011	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

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2017	0.0	0.0	0.1	08:00	0.1	13:00	0	96.9
2/03/2017	0.1	0.0	0.2	08:00	0.1	13:00	0	96.9
3/03/2017	0.1	0.0	0.2	08:00	0.1	12:00	0	96.9
4/03/2017	0.1	0.0	0.1	07:00	0.1	23:00	0	96.9
5/03/2017	0.1	0.0	0.1	21:00	0.1	23:00	0	96.9
6/03/2017	0.0	0.0	0.2	06:00	0.1	11:00	0	96.9
7/03/2017	0.0	0.0	0.1	08:00	0.1	09:00	0	96.9
8/03/2017	0.1	0.0	0.3	13:00	0.2	15:00	0	96.9
9/03/2017	0.0	0.0	0.1	07:00	0.0	13:00	0	96.9
10/03/2017	0.1	0.0	0.1	06:00	0.1	12:00	0	96.9
11/03/2017	0.0	0.0	0.1	05:00	0.1	11:00	0	96.9
12/03/2017	0.1	0.0	0.1	06:00	0.1	12:00	0	96.9
13/03/2017	0.1	0.0	0.2	08:00	0.1	12:00	0	96.9
14/03/2017	0.0	0.0	0.1	07:00	0.1	08:00	0	96.9
15/03/2017	0.1	0.0	0.2	07:00	0.1	12:00	0	96.9
16/03/2017	0.1	0.1	0.3	08:00	0.2	08:00	0	96.9
17/03/2017	0.2	0.0	0.3	21:00	0.2	22:00	0	96.9
18/03/2017	0.1	0.0	0.2	06:00	0.2	00:00	0	96.9
19/03/2017	0.1	0.0	0.2	12:00	0.2	13:00	0	96.9
20/03/2017	0.1	0.0	0.2	07:00	0.1	07:00	0	87.2
21/03/2017	0.1	0.0	0.3	06:00	0.2	23:00	0	91.7
22/03/2017	0.2	0.1	0.4	22:00	0.3	23:00	0	96.9
23/03/2017	0.2	0.1	0.5	11:00	0.3	01:00	0	96.9
24/03/2017	0.1	0.0	0.2	07:00	0.1	12:00	0	96.9
25/03/2017	0.1	0.1	0.1	09:00	0.1	09:00	0	96.9
26/03/2017	0.1	0.0	0.2	07:00	0.1	08:00	0	96.9
¹ 27/03/2017	-	0.0	0.1	07:00	0.1	08:00	0	45.8
¹ 28/03/2017	-	-	-	-	-	-	0	0.0
¹ 29/03/2017	-	-	-	-	-	-	0	0.0
¹ 30/03/2017	-	-	-	-	-	-	0	0.0
¹ 31/03/2017	-	0.0	0.1	19:00	0.1	20:00	0	40.6

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 PM2.5 Summary March 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		
1/03/2017	-0.6	-3.9	4.6	16:00	0	95.8
2/03/2017	0.8	-4.0	5.6	09:00	0	100.0
3/03/2017	1.3	-2.9	7.8	12:00	0	95.8
4/03/2017	0.2	-3.8	6.8	12:00	0	95.8
5/03/2017	-0.6	-6.6	8.8	16:00	0	100.0
6/03/2017	3.1	-1.9	15.7	04:00	0	100.0
7/03/2017	3.8	-0.9	7.8	21:00	0	100.0
8/03/2017	2.5	-1.8	6.0	13:00	0	100.0
9/03/2017	2.7	-0.9	6.8	17:00	0	100.0
10/03/2017	3.8	0.1	8.8	03:00	0	100.0
11/03/2017	2.4	-1.8	5.8	11:00	0	100.0
12/03/2017	3.0	-0.9	6.8	16:00	0	95.8
13/03/2017	1.9	-3.7	6.7	19:00	0	100.0
14/03/2017	0.7	-9.3	6.8	08:00	0	95.8
15/03/2017	-1.0	-7.4	2.6	03:00	0	100.0
16/03/2017	1.5	-1.0	5.9	10:00	0	100.0
17/03/2017	2.5	-2.9	7.8	10:00	0	95.8
18/03/2017	-0.3	-6.0	7.3	23:00	0	95.8
19/03/2017	-0.7	-11.7	9.1	00:00	0	100.0
20/03/2017	0.7	-11.1	16.2	11:00	0	87.5
21/03/2017	-2.1	-11.6	15.3	18:00	0	83.3
22/03/2017	2.7	-2.9	21.3	13:00	0	100.0
23/03/2017	1.8	-2.8	10.6	17:00	0	100.0
24/03/2017	-1.1	-4.9	2.9	13:00	0	100.0
¹ 25/03/2017	-	-4.7	3.7	00:00	0	50.0
¹ 26/03/2017	-	-	-	-	0	0.0
¹ 27/03/2017	-	-	-	-	0	0.0
¹ 28/03/2017	-	-	-	-	0	0.0
¹ 29/03/2017	-	-	-	-	0	0.0
¹ 30/03/2017	-	-	-	-	0	0.0
¹ 31/03/2017	-	-11.4	0.9	22:00	0	33.3

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 PM10 Summary March 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		
1/03/2017	13.7	4.4	28.7	13:00	0	100.0
2/03/2017	14.1	8.6	22.3	14:00	0	100.0
3/03/2017	13.8	-0.3	35.6	12:00	0	100.0
4/03/2017	11.9	6.1	26.8	14:00	0	100.0
5/03/2017	8.7	-1.7	24.2	12:00	0	100.0
6/03/2017	17.4	-2.4	41.0	03:00	0	100.0
7/03/2017	21.2	8.5	36.8	13:00	0	100.0
8/03/2017	19.1	7.1	42.8	14:00	0	100.0
9/03/2017	19.4	11.5	27.6	13:00	0	100.0
10/03/2017	19.3	6.3	43.5	15:00	0	100.0
11/03/2017	20.2	10.9	25.9	14:00	0	100.0
12/03/2017	19.9	6.5	31.0	15:00	0	100.0
13/03/2017	17.2	2.4	27.3	18:00	0	100.0
14/03/2017	16.9	2.6	41.4	12:00	0	100.0
15/03/2017	10.5	-0.4	25.8	07:00	0	100.0
16/03/2017	13.1	2.0	34.8	13:00	0	100.0
17/03/2017	13.0	-4.2	63.2	14:00	0	100.0
18/03/2017	10.3	-3.6	30.1	15:00	0	100.0
19/03/2017	11.6	-5.0	23.9	18:00	0	100.0
20/03/2017	9.9	-11.3	29.8	07:00	0	91.7
21/03/2017	14.6	2.9	29.5	06:00	0	91.7
22/03/2017	13.6	4.4	22.1	13:00	0	100.0
23/03/2017	14.1	-14.1	28.2	08:00	0	100.0
24/03/2017	10.0	-7.4	23.2	06:00	0	100.0
25/03/2017	11.9	4.8	19.1	23:00	0	100.0
26/03/2017	16.1	8.0	26.9	06:00	0	100.0
27/03/2017	14.2	9.2	19.9	13:00	0	100.0
28/03/2017	15.4	6.3	26.7	17:00	0	100.0
29/03/2017	14.1	5.4	31.9	08:00	0	100.0
30/03/2017	11.2	-9.3	26.9	03:00	0	100.0
31/03/2017	8.5	-4.7	15.5	19:00	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 March 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.024	17/03/2017 18:00	95.5
NO ₂	ppm	0.030	12 Months	0.005	--	89.7
CO	ppm	8	8 Hours	0.4	23/03/2017 01:00	95.1
PM _{2.5}	µg/m3	25	24 Hours	10.7	29/03/2017	92.9
PM _{2.5}	µg/m3	8	12 Months	6.4	--	95.4
PM ₁₀	µg/m3	50	24 Hours	27.0	12/03/2017	98.3
PM ₁₀	µg/m3	50	12 Months	16.1	--	90.5

Table 9 Station 2 Monthly Summary

Graphical Representations

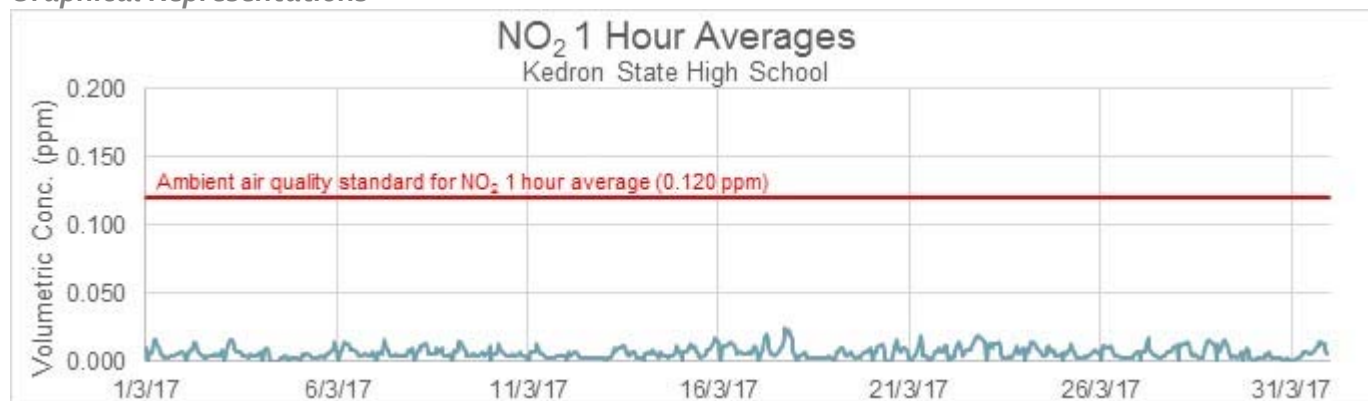


Figure 5 Station 2 Dioxide 1hr averages

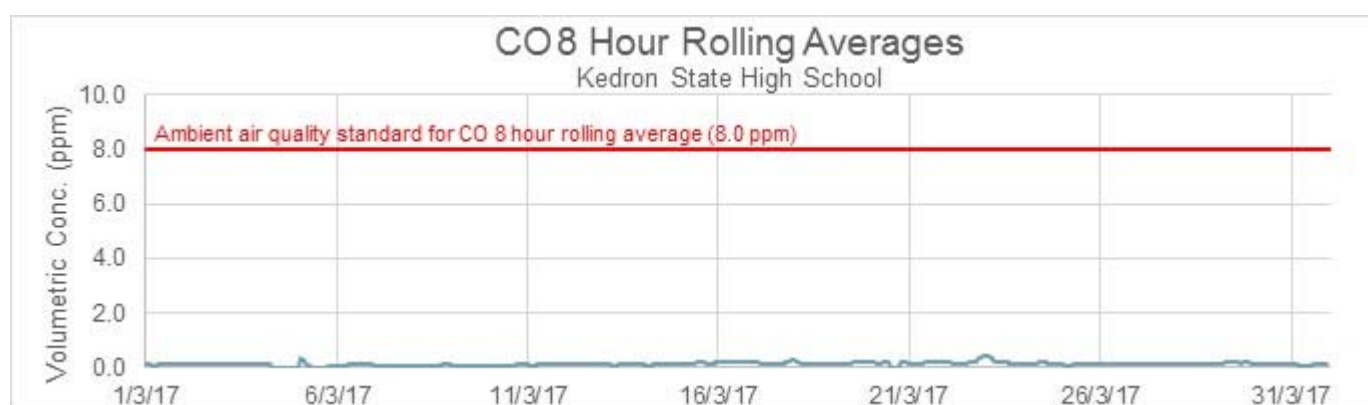


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

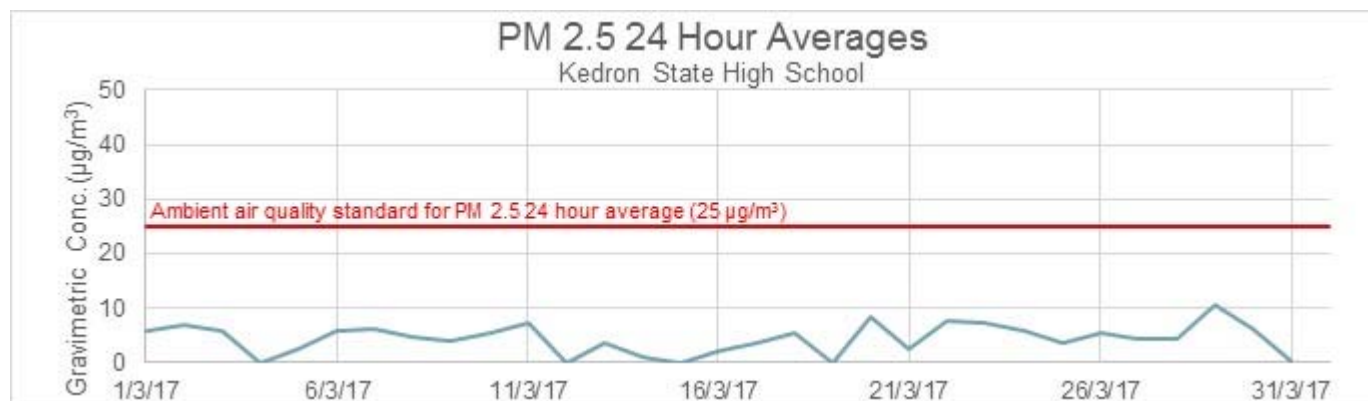


Figure 7 Station 2 PM2.5 24hr averages

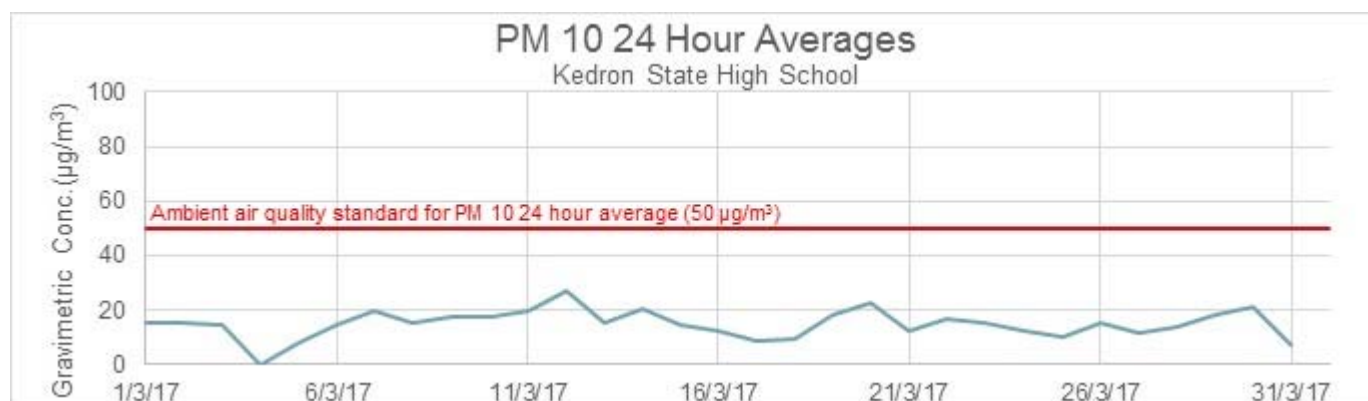


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary March 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2017	0.007	0.003	0.015	05:00	0	97.2
2/03/2017	0.006	0.003	0.015	06:00	0	97.2
3/03/2017	0.007	0.003	0.016	05:00	0	97.2
¹ 4/03/2017	-	0.002	0.010	04:00	0	63.9
5/03/2017	0.005	0.002	0.014	23:00	0	96.9
6/03/2017	0.008	0.005	0.014	05:00	0	96.2
7/03/2017	0.006	0.004	0.016	06:00	0	97.2
8/03/2017	0.008	0.004	0.014	07:00	0	97.2
9/03/2017	0.007	0.004	0.015	06:00	0	97.2
10/03/2017	0.006	0.003	0.013	06:00	0	97.2
11/03/2017	0.005	0.002	0.012	06:00	0	97.2
12/03/2017	0.004	0.002	0.008	02:00	0	97.2
13/03/2017	0.006	0.002	0.012	13:00	0	97.2
14/03/2017	0.006	0.003	0.012	22:00	0	97.2
15/03/2017	0.009	0.003	0.017	22:00	0	97.2
16/03/2017	0.009	0.005	0.015	00:00	0	97.2
17/03/2017	0.012	0.005	0.024	18:00	0	97.2
18/03/2017	0.004	0.002	0.008	06:00	0	97.2
19/03/2017	0.006	0.002	0.010	05:00	0	97.2
20/03/2017	0.008	0.003	0.015	16:00	0	86.1
21/03/2017	0.007	0.002	0.018	07:00	0	94.1
22/03/2017	0.011	0.003	0.019	18:00	0	97.2
23/03/2017	0.008	0.002	0.014	08:00	0	97.2
24/03/2017	0.008	0.003	0.015	06:00	0	96.9
25/03/2017	0.006	0.003	0.013	06:00	0	96.9
26/03/2017	0.006	0.002	0.011	07:00	0	96.9
27/03/2017	0.007	0.003	0.017	06:00	0	96.9
28/03/2017	0.010	0.002	0.016	21:00	0	96.9
29/03/2017	0.008	0.003	0.017	06:00	0	94.1
30/03/2017	0.003	0.002	0.007	10:00	0	97.2
31/03/2017	0.007	0.001	0.014	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

¹ Loss of data due to power failure

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2017	0.1	0.0	0.2	06:00	0.1	00:00	0	96.9
2/03/2017	0.1	0.1	0.2	07:00	0.1	12:00	0	96.9
3/03/2017	0.1	0.1	0.2	06:00	0.2	12:00	0	96.9
¹ 4/03/2017	-	0.1	0.4	20:00	0.2	06:00	0	65.6
5/03/2017	0.0	0.0	0.3	00:00	0.3	01:00	0	96.5
6/03/2017	0.1	0.1	0.2	07:00	0.1	12:00	0	95.8
7/03/2017	0.1	0.0	0.2	06:00	0.1	00:00	0	96.9
8/03/2017	0.1	0.1	0.1	15:00	0.1	21:00	0	96.9
9/03/2017	0.1	0.0	0.1	06:00	0.1	00:00	0	96.9
10/03/2017	0.1	0.0	0.1	16:00	0.1	20:00	0	96.9
11/03/2017	0.1	0.1	0.2	06:00	0.1	18:00	0	96.9
12/03/2017	0.1	0.1	0.2	20:00	0.1	22:00	0	96.9
13/03/2017	0.1	0.1	0.2	15:00	0.1	19:00	0	96.9
14/03/2017	0.1	0.1	0.2	21:00	0.2	22:00	0	96.9
15/03/2017	0.2	0.1	0.3	22:00	0.2	23:00	0	96.9
16/03/2017	0.2	0.2	0.3	07:00	0.2	10:00	0	96.9
17/03/2017	0.2	0.1	0.3	20:00	0.3	22:00	0	96.9
18/03/2017	0.1	0.1	0.2	20:00	0.2	00:00	0	96.9
19/03/2017	0.2	0.1	0.2	11:00	0.2	18:00	0	96.5
20/03/2017	0.2	0.1	0.3	16:00	0.2	00:00	0	85.4
21/03/2017	0.2	0.1	0.4	07:00	0.2	13:00	0	93.4
22/03/2017	0.3	0.1	0.5	20:00	0.4	23:00	0	96.5
23/03/2017	0.2	0.1	0.3	08:00	0.4	01:00	0	96.5
24/03/2017	0.1	0.1	0.3	07:00	0.2	13:00	0	96.2
25/03/2017	0.1	0.1	0.2	08:00	0.1	13:00	0	96.2
26/03/2017	0.1	0.1	0.2	07:00	0.2	13:00	0	96.2
27/03/2017	0.1	0.1	0.3	06:00	0.2	12:00	0	96.2
28/03/2017	0.1	0.1	0.2	07:00	0.2	08:00	0	96.2
29/03/2017	0.2	0.1	0.4	06:00	0.2	12:00	0	93.4
30/03/2017	0.1	0.1	0.2	10:00	0.2	00:00	0	96.5
31/03/2017	0.1	0.0	0.1	18:00	0.1	19:00	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 power failure

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary March 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		
1/03/2017	5.8	3.2	11.1	23:00	0	100.0
2/03/2017	7.0	2.2	15.5	08:00	0	100.0
3/03/2017	6.0	2.1	16.5	23:00	0	100.0
¹ 4/03/2017	-	0.4	26.9	00:00	0	66.7
5/03/2017	2.5	0.4	7.6	08:00	0	100.0
6/03/2017	5.9	2.2	9.3	12:00	0	100.0
7/03/2017	6.1	1.3	14.5	18:00	0	100.0
8/03/2017	4.6	1.8	8.7	18:00	0	100.0
9/03/2017	4.1	1.8	10.4	22:00	0	100.0
10/03/2017	5.6	1.3	12.9	22:00	0	100.0
11/03/2017	7.3	1.8	17.8	20:00	0	95.8
² 12/03/2017	-	0.6	48.0	20:00	0	58.3
13/03/2017	3.5	0.4	12.2	00:00	0	100.0
14/03/2017	1.2	0.4	6.0	20:00	0	87.5
² 15/03/2017	-	0.5	3.6	14:00	0	41.7
16/03/2017	2.3	0.4	12.3	20:00	0	100.0
17/03/2017	3.6	0.4	11.1	18:00	0	100.0
18/03/2017	5.6	1.8	16.9	20:00	0	87.5
² 19/03/2017	-	1.2	15.9	10:00	0	62.5
20/03/2017	8.3	0.4	23.7	08:00	0	87.5
21/03/2017	2.4	0.5	8.0	00:00	0	91.7
22/03/2017	7.6	1.3	16.3	20:00	0	100.0
23/03/2017	7.4	1.7	19.2	22:00	0	100.0
24/03/2017	5.8	2.5	12.5	16:00	0	100.0
25/03/2017	3.8	1.4	11.9	22:00	0	100.0
26/03/2017	5.3	2.0	8.2	16:00	0	100.0
27/03/2017	4.2	1.3	8.0	08:00	0	100.0
28/03/2017	4.4	0.8	20.0	22:00	0	100.0
29/03/2017	10.7	2.4	19.2	18:00	0	100.0
30/03/2017	6.3	1.0	15.6	12:00	0	100.0
31/03/2017	0.4	0.4	0.8	0:00	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 power failure

² Loss of data due to instrument fault

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary March 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		
1/03/2017	15.5	8.8	22.9	23:00	0	100.0
2/03/2017	15.6	9.9	25.2	00:00	0	100.0
3/03/2017	14.6	7.6	29.6	23:00	0	100.0
¹ 4/03/2017	-	1.8	44.3	00:00	0	66.7
5/03/2017	8.1	2.1	15.4	23:00	0	100.0
6/03/2017	14.6	8.0	22.7	20:00	0	100.0
7/03/2017	19.7	8.9	29.4	20:00	0	100.0
8/03/2017	15.6	8.6	23.4	18:00	0	100.0
9/03/2017	17.5	10.4	31.0	22:00	0	100.0
10/03/2017	17.8	7.0	29.4	20:00	0	100.0
11/03/2017	19.6	11.0	25.7	08:00	0	100.0
12/03/2017	27.0	7.8	66.2	20:00	0	100.0
13/03/2017	15.5	7.6	27.5	18:00	0	100.0
14/03/2017	20.3	12.5	36.1	22:00	0	100.0
15/03/2017	14.4	4.6	26.7	20:00	0	100.0
16/03/2017	12.7	2.2	33.9	20:00	0	100.0
17/03/2017	8.5	0.6	23.9	22:00	0	100.0
18/03/2017	9.4	3.1	21.6	20:00	0	100.0
19/03/2017	18.2	3.9	30.6	22:00	0	100.0
20/03/2017	22.7	0.6	38.5	17:00	0	87.5
21/03/2017	12.2	3.2	24.1	08:00	0	91.7
22/03/2017	16.5	5.0	27.6	20:00	0	100.0
23/03/2017	15.7	3.5	24.8	10:00	0	100.0
24/03/2017	12.6	5.4	20.4	16:00	0	100.0
25/03/2017	10.1	4.8	18.6	22:00	0	100.0
26/03/2017	15.6	9.7	23.6	18:00	0	100.0
27/03/2017	11.4	4.6	17.5	20:00	0	100.0
28/03/2017	14.0	4.3	27.1	22:00	0	100.0
29/03/2017	18.3	9.4	26.8	10:00	0	100.0
30/03/2017	21.1	8.6	34.5	10:00	0	100.0
31/03/2017	7.4	2.5	14.4	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

¹ Loss of data due to power interruption

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary March 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.024	17/03/2017 19:00	96.3
NO ₂	ppm	0.030	12 Months	0.007	--	68.0
CO	ppm	8	8 Hours	0.4	23/03/2017 01:00	96.0
PM _{2.5}	µg/m3	25	24 Hours	7.6	28/03/2017	98.3
PM _{2.5}	µg/m3	8	12 Months	4.5	--	82.5
PM ₁₀	µg/m3	50	24 Hours	26.6	07/03/2017	99.2
PM ₁₀	µg/m3	50	12 Months	14.6	--	85.8

Table 14 Station 3 Monthly Summary

Graphical Representations

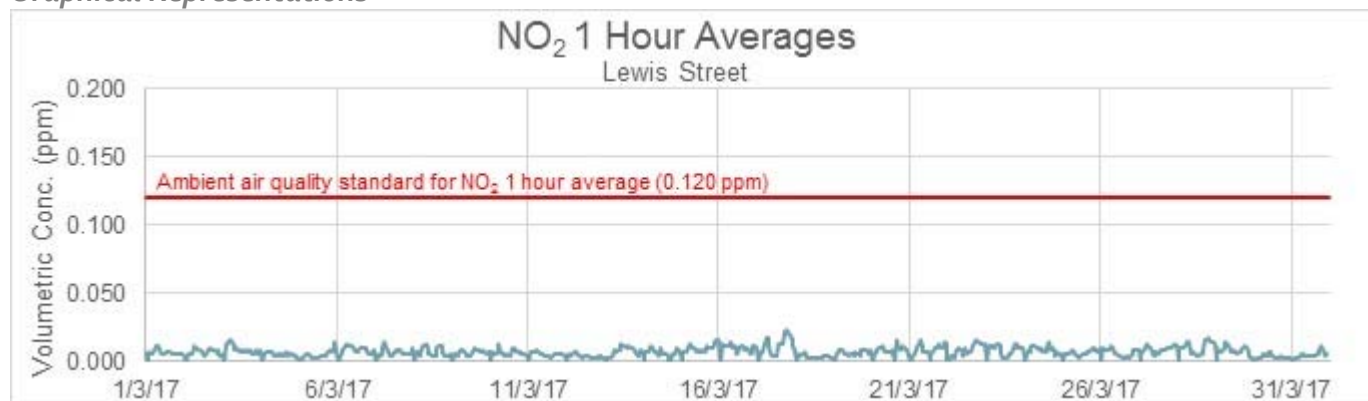


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

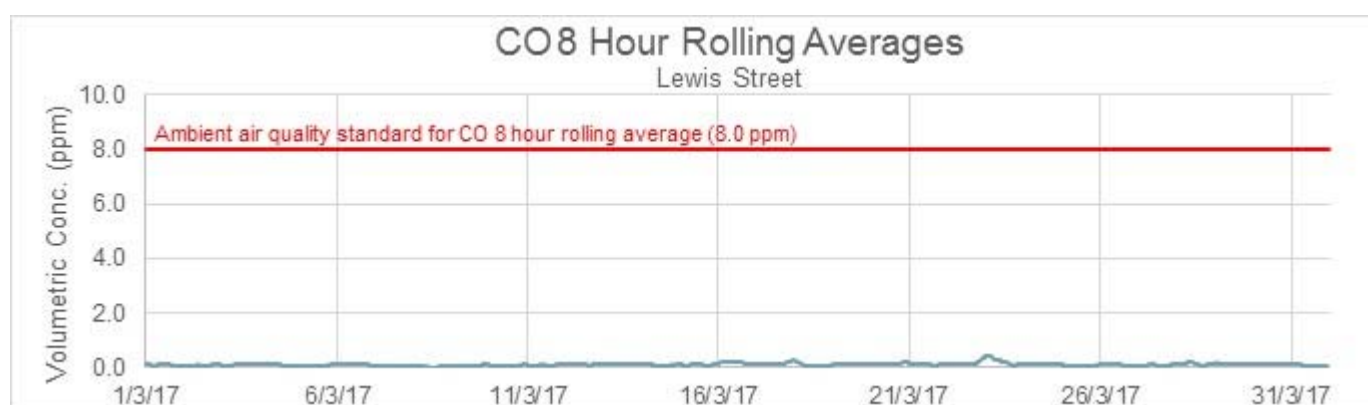


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

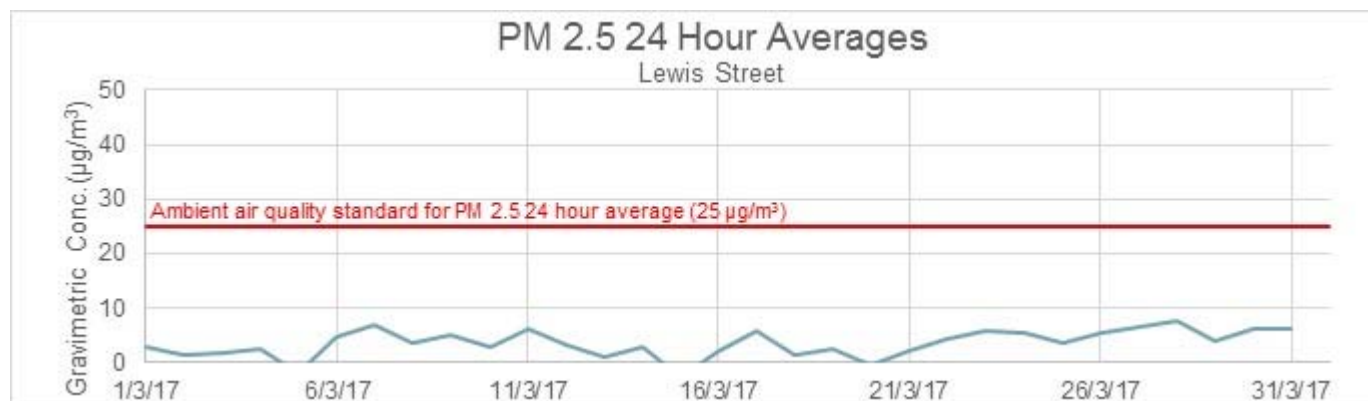


Figure 11 Station 3 PM2.5 24hr averages



Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary March 2017						
Date	24hr Avg (ppm)	1 hr Avgs		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/03/2017	0.007	0.005	0.012	08:00	0	97.2
2/03/2017	0.007	0.004	0.011	06:00	0	97.2
3/03/2017	0.009	0.006	0.017	05:00	0	97.2
4/03/2017	0.006	0.003	0.009	00:00	0	97.2
5/03/2017	0.005	0.003	0.015	23:00	0	97.2
6/03/2017	0.009	0.004	0.014	06:00	0	97.2
7/03/2017	0.007	0.004	0.015	06:00	0	97.2
8/03/2017	0.008	0.004	0.013	08:00	0	97.2
9/03/2017	0.007	0.004	0.010	15:00	0	95.8
10/03/2017	0.007	0.004	0.012	06:00	0	96.2
11/03/2017	0.006	0.003	0.009	05:00	0	93.8
12/03/2017	0.004	0.003	0.007	07:00	0	93.1
13/03/2017	0.008	0.002	0.012	11:00	0	96.2
14/03/2017	0.007	0.004	0.012	05:00	0	90.3
15/03/2017	0.010	0.006	0.016	23:00	0	97.2
16/03/2017	0.011	0.006	0.016	00:00	0	97.2
17/03/2017	0.012	0.004	0.024	19:00	0	97.2
18/03/2017	0.004	0.002	0.008	00:00	0	97.2
19/03/2017	0.006	0.003	0.009	05:00	0	97.2
20/03/2017	0.009	0.005	0.016	16:00	0	95.1
21/03/2017	0.009	0.004	0.015	07:00	0	93.8
22/03/2017	0.009	0.003	0.016	18:00	0	93.8
23/03/2017	0.009	0.003	0.013	18:00	0	97.2
24/03/2017	0.008	0.003	0.014	16:00	0	97.2
25/03/2017	0.006	0.003	0.010	19:00	0	97.2
26/03/2017	0.007	0.003	0.012	07:00	0	97.2
27/03/2017	0.009	0.005	0.012	05:00	0	96.9
28/03/2017	0.010	0.004	0.017	20:00	0	97.2
29/03/2017	0.009	0.003	0.015	07:00	0	97.2
30/03/2017	0.004	0.002	0.007	10:00	0	97.2
31/03/2017	0.005	0.002	0.012	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 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2017	0.1	0.1	0.1	07:00	0.1	00:00	0	96.9
2/03/2017	0.1	0.1	0.1	16:00	0.1	22:00	0	96.9
3/03/2017	0.1	0.1	0.2	06:00	0.1	19:00	0	96.9
4/03/2017	0.1	0.1	0.2	07:00	0.1	08:00	0	96.9
5/03/2017	0.1	0.1	0.2	23:00	0.1	23:00	0	96.9
6/03/2017	0.1	0.1	0.2	12:00	0.1	13:00	0	96.9
7/03/2017	0.1	0.0	0.1	06:00	0.1	00:00	0	96.9
8/03/2017	0.0	0.0	0.1	18:00	0.1	22:00	0	96.9
9/03/2017	0.1	0.0	0.1	20:00	0.1	21:00	0	95.5
10/03/2017	0.1	0.0	0.1	16:00	0.1	22:00	0	95.8
11/03/2017	0.1	0.1	0.1	23:00	0.1	23:00	0	93.4
12/03/2017	0.1	0.1	0.1	18:00	0.1	00:00	0	92.7
13/03/2017	0.1	0.1	0.2	17:00	0.2	19:00	0	95.8
14/03/2017	0.1	0.0	0.1	12:00	0.1	00:00	0	89.9
15/03/2017	0.1	0.1	0.3	23:00	0.2	23:00	0	96.9
16/03/2017	0.2	0.1	0.3	08:00	0.2	08:00	0	96.9
17/03/2017	0.2	0.1	0.3	21:00	0.3	22:00	0	96.9
18/03/2017	0.1	0.0	0.1	20:00	0.3	00:00	0	96.9
19/03/2017	0.1	0.1	0.2	20:00	0.1	23:00	0	96.9
20/03/2017	0.1	0.1	0.3	16:00	0.2	22:00	0	94.8
21/03/2017	0.1	0.1	0.3	07:00	0.2	00:00	0	92.7
22/03/2017	0.2	0.1	0.6	22:00	0.4	23:00	0	93.8
23/03/2017	0.2	0.1	0.4	00:00	0.4	01:00	0	96.9
24/03/2017	0.1	0.1	0.2	07:00	0.2	08:00	0	96.9
25/03/2017	0.1	0.1	0.1	21:00	0.1	00:00	0	96.9
26/03/2017	0.1	0.1	0.2	07:00	0.2	08:00	0	96.9
27/03/2017	0.1	0.1	0.1	07:00	0.1	08:00	0	96.5
28/03/2017	0.1	0.1	0.3	06:00	0.2	08:00	0	96.9
29/03/2017	0.1	0.1	0.2	07:00	0.2	01:00	0	96.9
30/03/2017	0.2	0.1	0.2	10:00	0.2	14:00	0	96.9
31/03/2017	0.1	0.0	0.1	19:00	0.1	0:00	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 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary March 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		
1/03/2017	2.8	-3.9	6.0	17:00	0	95.8
2/03/2017	1.6	-3.6	6.0	11:00	0	100.0
3/03/2017	1.8	-7.6	6.8	06:00	0	100.0
4/03/2017	2.6	-3.7	10.8	11:00	0	100.0
5/03/2017	-1.9	-10.6	3.5	04:00	0	100.0
6/03/2017	4.7	-1.0	14.4	01:00	0	100.0
7/03/2017	6.9	-1.7	14.8	22:00	0	100.0
8/03/2017	3.6	-1.0	11.3	19:00	0	100.0
9/03/2017	4.9	-4.8	17.2	03:00	0	100.0
10/03/2017	3.0	-5.9	16.6	01:00	0	100.0
11/03/2017	6.3	0.1	13.4	07:00	0	100.0
12/03/2017	3.4	-3.8	8.5	00:00	0	100.0
13/03/2017	1.1	-6.6	7.8	17:00	0	100.0
14/03/2017	2.9	-2.8	7.8	07:00	0	83.3
15/03/2017	-2.5	-6.9	4.7	21:00	0	100.0
16/03/2017	2.3	-10.5	7.0	23:00	0	100.0
17/03/2017	5.8	1.5	9.7	20:00	0	100.0
18/03/2017	1.3	-4.0	7.6	03:00	0	100.0
19/03/2017	2.6	-4.8	10.6	07:00	0	100.0
20/03/2017	-0.6	-6.9	9.0	16:00	0	91.7
21/03/2017	2.0	-7.0	8.9	06:00	0	95.8
22/03/2017	4.3	-3.8	10.0	18:00	0	91.7
23/03/2017	5.8	0.4	11.9	00:00	0	100.0
24/03/2017	5.5	0.1	10.7	14:00	0	100.0
25/03/2017	3.5	-2.7	8.9	19:00	0	95.8
26/03/2017	5.5	-0.6	18.5	12:00	0	100.0
27/03/2017	6.7	2.0	15.6	19:00	0	100.0
28/03/2017	7.6	2.6	15.6	09:00	0	100.0
29/03/2017	4.2	-2.9	12.6	08:00	0	100.0
30/03/2017	6.2	1.0	12.8	19:00	0	100.0
31/03/2017	6.0	-1.6	14.8	17:00	0	91.7

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 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary March 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		
1/03/2017	14.4	6.0	32.1	13:00	0	100.0
2/03/2017	14.4	7.6	24.0	16:00	0	100.0
3/03/2017	14.5	-0.7	29.0	12:00	0	100.0
4/03/2017	12.1	3.3	25.1	14:00	0	100.0
5/03/2017	9.0	1.0	25.0	23:00	0	100.0
6/03/2017	17.1	-1.1	31.5	12:00	0	100.0
7/03/2017	26.6	9.8	120.6	12:00	0	100.0
8/03/2017	18.0	8.9	41.1	16:00	0	100.0
9/03/2017	19.1	12.1	28.5	13:00	0	100.0
10/03/2017	20.3	4.7	42.8	15:00	0	100.0
11/03/2017	20.6	12.2	26.2	11:00	0	100.0
12/03/2017	19.3	6.9	29.8	15:00	0	100.0
13/03/2017	16.6	-0.5	28.8	18:00	0	100.0
14/03/2017	15.9	0.3	40.3	12:00	0	91.7
15/03/2017	7.2	-1.3	15.0	17:00	0	100.0
16/03/2017	8.9	-5.7	25.6	14:00	0	100.0
17/03/2017	7.3	-8.3	51.3	14:00	0	100.0
18/03/2017	7.2	-9.0	27.4	15:00	0	100.0
19/03/2017	8.6	-6.7	20.2	16:00	0	100.0
20/03/2017	6.3	-7.0	23.0	07:00	0	95.8
21/03/2017	9.4	-1.9	20.4	07:00	0	95.8
22/03/2017	9.6	3.0	21.2	13:00	0	91.7
23/03/2017	10.3	-11.9	20.8	07:00	0	100.0
24/03/2017	7.3	-11.5	30.6	06:00	0	100.0
25/03/2017	9.2	2.6	16.7	21:00	0	100.0
26/03/2017	12.0	7.1	23.3	06:00	0	100.0
27/03/2017	10.6	3.8	14.7	13:00	0	100.0
28/03/2017	11.1	3.5	33.2	06:00	0	100.0
29/03/2017	10.6	1.9	25.5	08:00	0	100.0
30/03/2017	7.4	-13.7	19.3	03:00	0	100.0
31/03/2017	6.1	-6.2	16.2	18:00	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 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary March 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.026	14/03/2017 07:00	96.1
NO ₂	ppm	0.030	12 Months	0.009	--	96.4
CO	ppm	8	8 Hours	0.3	16/03/2017 23:00	68.9
PM _{2.5}	µg/m3	25	24 Hours	9.8	08/03/2017	98.8
PM _{2.5}	µg/m3	8	12 Months	7.4	--	98.3
PM ₁₀	µg/m3	50	24 Hours	21.4	07/03/2017	98.9
PM ₁₀	µg/m3	50	12 Months	14.9	--	91.2

Table 19 Station 4 Monthly Summary

Graphical Representations

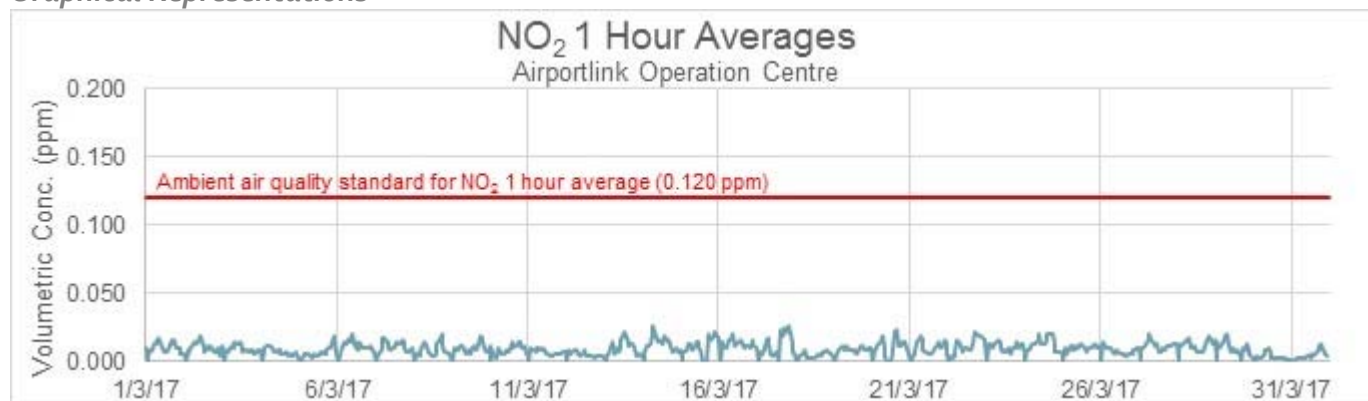


Figure 13 Station 4 Nitrogen Dioxide 1hr averages



Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

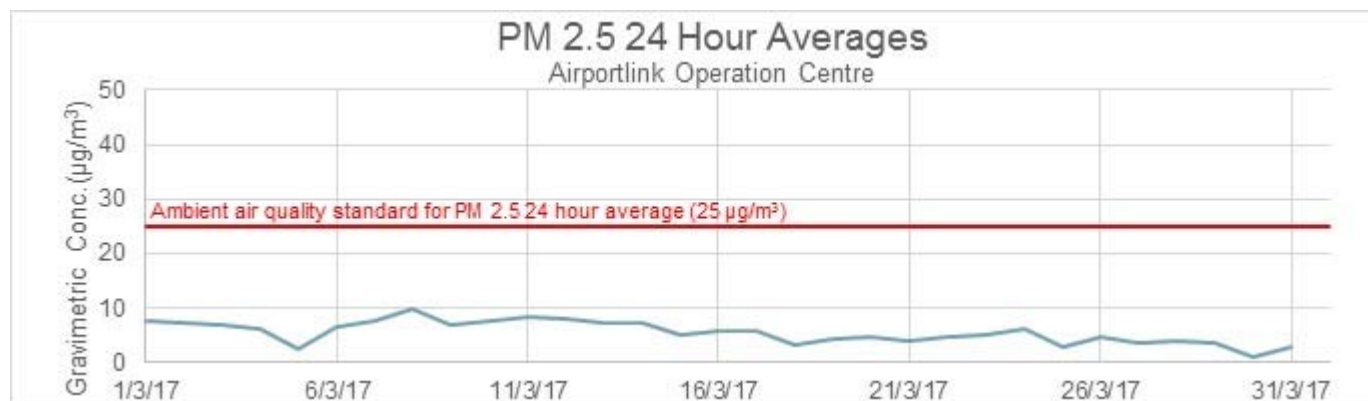


Figure 15 Station 4 PM2.5 24hr averages



Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary March 2017						
Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/03/2017	0.011	0.005	0.018	08:00	0	97.2
2/03/2017	0.010	0.004	0.019	10:00	0	97.2
3/03/2017	0.009	0.006	0.015	11:00	0	97.2
4/03/2017	0.008	0.005	0.012	04:00	0	97.2
5/03/2017	0.007	0.003	0.019	22:00	0	97.2
6/03/2017	0.011	0.005	0.020	10:00	0	97.2
7/03/2017	0.011	0.006	0.017	05:00	0	97.2
8/03/2017	0.009	0.005	0.020	18:00	0	97.2
9/03/2017	0.010	0.005	0.018	18:00	0	97.2
10/03/2017	0.009	0.003	0.015	18:00	0	97.2
11/03/2017	0.007	0.004	0.010	09:00	0	97.2
12/03/2017	0.006	0.003	0.009	05:00	0	97.2
13/03/2017	0.010	0.003	0.022	13:00	0	97.2
14/03/2017	0.013	0.005	0.026	07:00	0	97.2
15/03/2017	0.013	0.008	0.022	22:00	0	81.3
16/03/2017	0.013	0.010	0.020	09:00	0	96.2
17/03/2017	0.013	0.005	0.026	20:00	0	92.0
18/03/2017	0.005	0.003	0.008	20:00	0	97.2
19/03/2017	0.009	0.004	0.012	17:00	0	97.2
20/03/2017	0.012	0.005	0.023	16:00	0	85.4
21/03/2017	0.010	0.004	0.019	07:00	0	97.2
22/03/2017	0.012	0.003	0.021	17:00	0	97.2
23/03/2017	0.011	0.006	0.016	08:00	0	97.2
24/03/2017	0.013	0.004	0.021	18:00	0	97.2
25/03/2017	0.010	0.006	0.014	12:00	0	97.2
26/03/2017	0.008	0.005	0.015	02:00	0	97.2
27/03/2017	0.012	0.007	0.020	07:00	0	97.2
28/03/2017	0.012	0.007	0.019	21:00	0	97.2
29/03/2017	0.011	0.004	0.020	08:00	0	95.8
30/03/2017	0.004	0.001	0.010	10:00	0	97.2
31/03/2017	0.005	0.001	0.014	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 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary March 2017								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedances 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2017	0.1	0.1	0.2	18:00	0.2	21:00	0	96.5
2/03/2017	0.1	0.1	0.2	16:00	0.2	14:00	0	96.5
3/03/2017	0.1	0.1	0.2	08:00	0.2	14:00	0	96.5
4/03/2017	0.1	0.1	0.2	12:00	0.2	12:00	0	96.5
5/03/2017	0.1	0.1	0.2	22:00	0.2	23:00	0	96.5
6/03/2017	0.2	0.1	0.2	08:00	0.2	21:00	0	96.5
7/03/2017	0.1	0.1	0.2	17:00	0.2	00:00	0	96.9
8/03/2017	0.1	0.0	0.2	18:00	0.1	00:00	0	86.1
9/03/2017	0.1	0.0	0.2	18:00	0.1	21:00	0	94.8
10/03/2017	0.1	0.0	0.2	19:00	0.1	00:00	0	94.4
11/03/2017	0.1	0.1	0.1	09:00	0.1	01:00	0	96.9
12/03/2017	0.1	0.1	0.2	12:00	0.1	12:00	0	96.9
13/03/2017	0.2	0.1	0.2	12:00	0.2	18:00	0	96.9
14/03/2017	0.2	0.1	0.3	07:00	0.2	18:00	0	96.9
15/03/2017	0.2	0.1	0.3	18:00	0.3	23:00	0	80.9
16/03/2017	0.3	0.2	0.4	09:00	0.3	23:00	0	96.9
17/03/2017	0.2	0.1	0.3	20:00	0.3	00:00	0	91.3
18/03/2017	0.2	0.1	0.2	20:00	0.2	00:00	0	96.9
19/03/2017	0.2	0.2	0.3	19:00	0.3	23:00	0	96.9
20/03/2017	0.2	0.1	0.4	07:00	0.2	00:00	0	85.1
¹ 21/03/2017	-	0.0	0.2	07:00	0.1	00:00	0	43.8
¹ 22/03/2017	-	0.1	0.2	19:00	0.2	22:00	0	31.6
¹ 23/03/2017	-	0.0	0.2	08:00	0.2	01:00	0	62.2
¹ 24/03/2017	-	0.0	0.2	17:00	0.2	21:00	0	59.7
¹ 25/03/2017	-	0.0	0.1	21:00	-	-	0	25.3
¹ 26/03/2017	-	-	-	-	-	-	0	2.8
¹ 27/03/2017	-	0.1	0.1	07:00	-	-	0	6.3
¹ 28/03/2017	-	0.1	0.1	07:00	-	-	0	6.6
¹ 29/03/2017	-	0.1	0.1	07:00	-	-	0	11.5
¹ 30/03/2017	-	-	-	-	-	-	0	0.0
¹ 31/03/2017	-	-	-	-	-	-	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 instrument fault

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM _{2.5} Summary March 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		
1/03/2017	7.6	-3.6	17.8	01:00	0	100.0
2/03/2017	7.2	1.2	20.6	08:00	0	100.0
3/03/2017	7.0	3.0	14.7	10:00	0	100.0
4/03/2017	6.2	1.2	14.7	08:00	0	100.0
5/03/2017	2.6	-4.9	8.6	20:00	0	100.0
6/03/2017	6.7	0.3	13.5	12:00	0	100.0
7/03/2017	7.5	4.1	15.1	14:00	0	100.0
8/03/2017	9.8	4.3	19.3	18:00	0	100.0
9/03/2017	7.0	-0.7	14.5	14:00	0	100.0
10/03/2017	7.8	4.4	10.9	17:00	0	100.0
11/03/2017	8.4	4.3	21.3	07:00	0	100.0
12/03/2017	7.9	4.2	14.0	06:00	0	100.0
13/03/2017	7.4	2.0	16.3	19:00	0	100.0
14/03/2017	7.4	4.3	10.8	09:00	0	100.0
15/03/2017	5.2	-0.6	10.6	05:00	0	79.2
16/03/2017	5.6	1.1	9.6	21:00	0	100.0
17/03/2017	5.8	0.4	9.6	00:00	0	95.8
18/03/2017	3.1	-1.9	14.6	17:00	0	100.0
19/03/2017	4.3	0.3	8.7	04:00	0	100.0
20/03/2017	4.8	-1.8	11.6	06:00	0	87.5
21/03/2017	4.2	-5.5	9.8	07:00	0	100.0
22/03/2017	4.7	1.2	8.7	22:00	0	100.0
23/03/2017	5.0	1.2	14.2	09:00	0	100.0
24/03/2017	6.3	-2.5	15.8	19:00	0	100.0
25/03/2017	2.8	-2.0	6.8	22:00	0	100.0
26/03/2017	4.8	0.2	10.0	11:00	0	100.0
27/03/2017	3.5	-2.7	8.6	13:00	0	100.0
28/03/2017	4.1	-1.4	6.9	21:00	0	100.0
29/03/2017	3.5	-1.5	9.9	08:00	0	100.0
30/03/2017	1.2	-4.6	5.5	14:00	0	100.0
31/03/2017	2.9	-5.8	7.6	14:00	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 March 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		
1/03/2017	15.2	5.8	38.6	21:00	0	100.0
2/03/2017	13.7	4.6	20.9	16:00	0	100.0
3/03/2017	13.2	4.7	20.9	11:00	0	100.0
4/03/2017	12.0	4.5	20.8	15:00	0	100.0
5/03/2017	8.7	1.1	23.2	23:00	0	100.0
6/03/2017	15.4	1.1	26.4	16:00	0	100.0
7/03/2017	21.4	12.1	34.5	15:00	0	100.0
8/03/2017	16.6	7.8	36.5	16:00	0	100.0
9/03/2017	18.8	12.6	28.0	16:00	0	100.0
10/03/2017	18.7	7.9	41.7	15:00	0	100.0
11/03/2017	19.4	15.0	24.3	14:00	0	100.0
12/03/2017	17.3	9.2	26.0	17:00	0	100.0
13/03/2017	16.2	2.3	26.1	18:00	0	100.0
14/03/2017	17.8	4.9	30.2	12:00	0	100.0
15/03/2017	10.2	6.9	15.6	19:00	0	83.3
16/03/2017	14.2	5.4	30.6	14:00	0	100.0
17/03/2017	9.6	2.4	23.9	15:00	0	95.8
18/03/2017	9.4	0.6	23.6	15:00	0	100.0
19/03/2017	12.9	4.8	20.7	07:00	0	100.0
20/03/2017	12.0	4.0	28.1	15:00	0	87.5
21/03/2017	13.2	4.2	20.0	18:00	0	100.0
22/03/2017	12.1	3.6	19.2	19:00	0	100.0
23/03/2017	12.9	-2.8	26.5	08:00	0	100.0
24/03/2017	11.6	0.4	19.9	14:00	0	100.0
25/03/2017	12.3	8.3	18.4	21:00	0	100.0
26/03/2017	15.2	9.9	20.7	12:00	0	100.0
27/03/2017	14.2	9.2	19.9	14:00	0	100.0
28/03/2017	14.5	10.0	22.8	17:00	0	100.0
29/03/2017	12.4	4.2	28.0	08:00	0	100.0
30/03/2017	8.8	-4.0	20.0	03:00	0	100.0
31/03/2017	8.5	-3.6	15.1	18:00	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 March 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.032	17/03/2017 18:00	96.5
NO ₂	ppm	0.030	12 Months	0.006	--	96.6
CO	ppm	8	8 Hours	0.4	17/03/2017 22:00	93.1
PM _{2.5}	µg/m3	25	24 Hours	7.8	22/03/2017	96.6
PM _{2.5}	µg/m3	8	12 Months	4.6	--	92.5
PM ₁₀	µg/m3	50	24 Hours	23.4	21/03/2017	98.8
PM ₁₀	µg/m3	50	12 Months	13.1	--	98.2

Table 24 Station 5 Monthly Summary

Graphical Representations

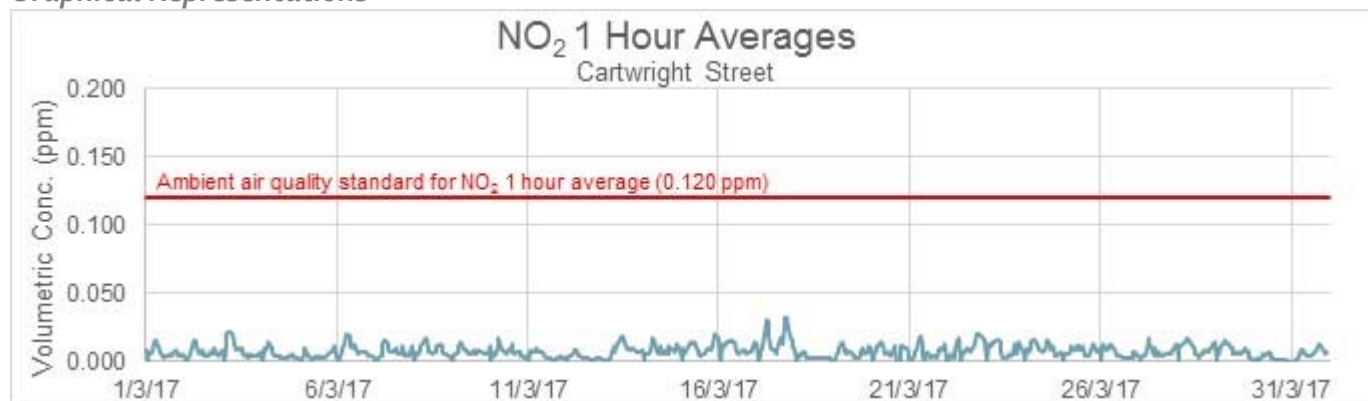


Figure 17 Station 5 Dioxide 1hr averages

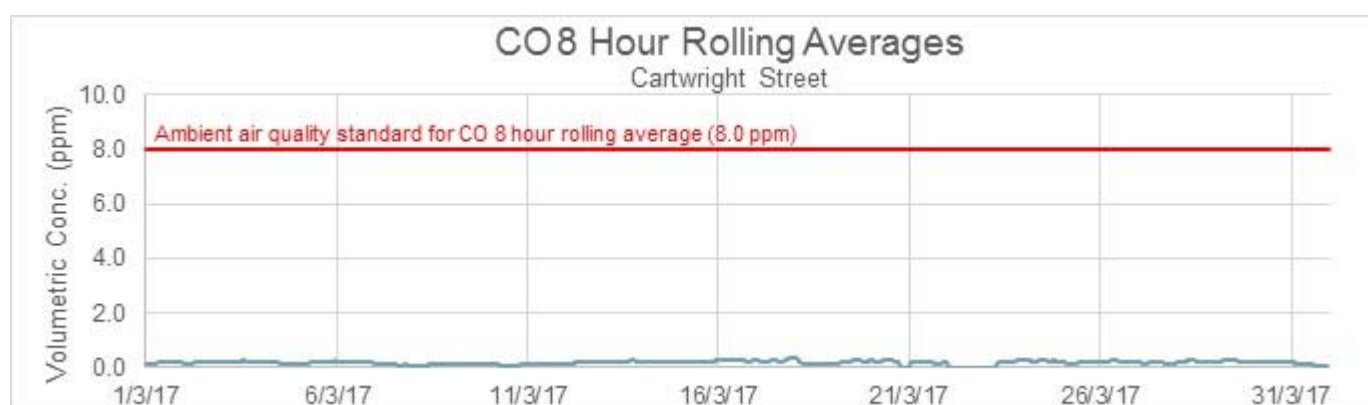


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

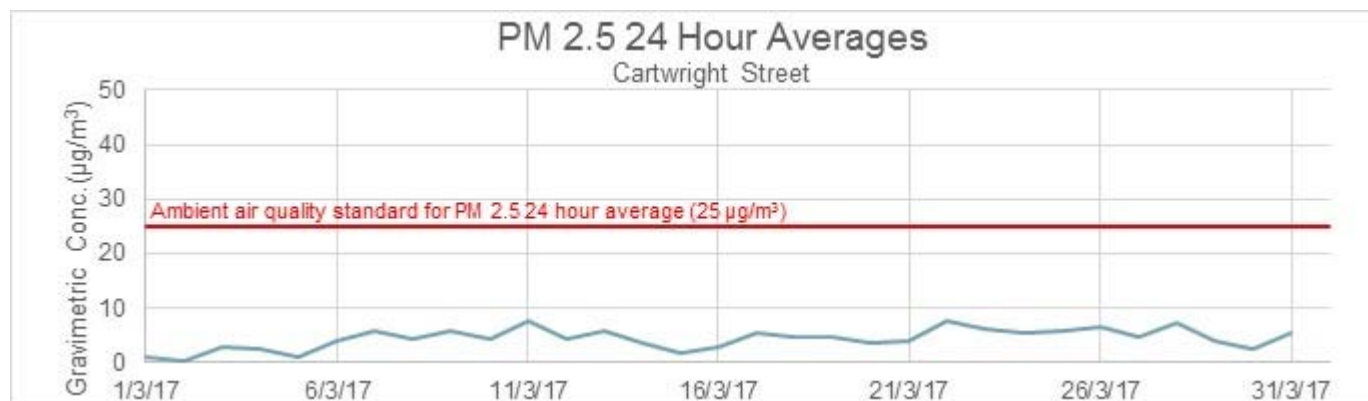


Figure 19 Station 5 PM2.5 24hr averages

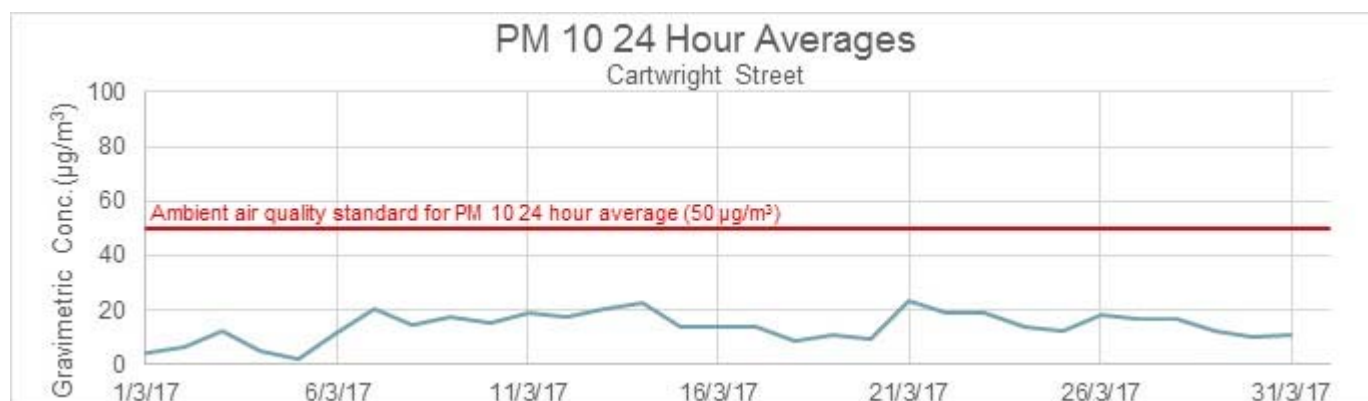


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary March 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2017	0.007	0.003	0.016	06:00	0	97.2
2/03/2017	0.007	0.002	0.016	06:00	0	97.2
3/03/2017	0.010	0.003	0.022	05:00	0	97.2
4/03/2017	0.006	0.002	0.015	05:00	0	97.2
5/03/2017	0.005	0.002	0.012	23:00	0	97.2
6/03/2017	0.009	0.003	0.021	06:00	0	97.2
7/03/2017	0.008	0.003	0.016	06:00	0	97.2
8/03/2017	0.009	0.004	0.017	08:00	0	97.2
9/03/2017	0.007	0.004	0.015	06:00	0	97.2
10/03/2017	0.008	0.003	0.018	06:00	0	97.2
11/03/2017	0.005	0.001	0.010	06:00	0	97.2
12/03/2017	0.003	0.001	0.009	07:00	0	97.2
13/03/2017	0.009	0.001	0.019	12:00	0	97.2
14/03/2017	0.009	0.005	0.018	07:00	0	97.2
15/03/2017	0.011	0.005	0.021	21:00	0	97.2
16/03/2017	0.011	0.006	0.017	00:00	0	97.2
17/03/2017	0.016	0.006	0.032	18:00	0	97.2
18/03/2017	0.004	0.002	0.008	00:00	0	97.2
19/03/2017	0.007	0.001	0.014	06:00	0	97.2
20/03/2017	0.009	0.004	0.014	06:00	0	84.7
21/03/2017	0.007	0.002	0.019	07:00	0	91.7
22/03/2017	0.011	0.003	0.021	18:00	0	92.4
23/03/2017	0.010	0.003	0.016	08:00	0	97.2
24/03/2017	0.010	0.003	0.016	15:00	0	97.2
25/03/2017	0.008	0.004	0.013	20:00	0	97.2
26/03/2017	0.007	0.002	0.013	07:00	0	97.2
27/03/2017	0.007	0.003	0.017	06:00	0	97.2
28/03/2017	0.010	0.003	0.017	07:00	0	97.2
29/03/2017	0.009	0.003	0.016	06:00	0	97.2
30/03/2017	0.003	0.000	0.007	10:00	0	97.2
31/03/2017	0.006	0.000	0.013	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 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2017	0.2	0.1	0.2	07:00	0.2	13:00	0	96.9
2/03/2017	0.2	0.2	0.3	08:00	0.2	12:00	0	96.9
3/03/2017	0.2	0.2	0.4	13:00	0.2	13:00	0	96.9
4/03/2017	0.2	0.1	0.2	07:00	0.2	00:00	0	96.9
5/03/2017	0.2	0.2	0.3	22:00	0.2	23:00	0	96.9
6/03/2017	0.2	0.1	0.3	06:00	0.2	00:00	0	96.9
7/03/2017	0.1	0.1	0.2	06:00	0.2	00:00	0	96.9
8/03/2017	0.1	0.1	0.2	17:00	0.1	22:00	0	96.9
9/03/2017	0.1	0.1	0.2	23:00	0.2	23:00	0	96.9
10/03/2017	0.1	0.1	0.2	00:00	0.2	00:00	0	96.9
11/03/2017	0.2	0.1	0.2	04:00	0.2	08:00	0	96.9
12/03/2017	0.2	0.2	0.2	20:00	0.2	22:00	0	96.9
13/03/2017	0.2	0.2	0.3	12:00	0.3	18:00	0	96.9
14/03/2017	0.2	0.2	0.3	21:00	0.2	23:00	0	96.9
15/03/2017	0.2	0.2	0.4	22:00	0.3	23:00	0	96.9
16/03/2017	0.3	0.2	0.4	08:00	0.3	03:00	0	96.9
17/03/2017	0.3	0.2	0.5	19:00	0.4	22:00	0	96.9
18/03/2017	0.1	0.1	0.2	00:00	0.4	00:00	0	96.9
19/03/2017	0.2	0.2	0.3	11:00	0.3	14:00	0	96.9
20/03/2017	0.2	0.2	0.5	07:00	0.3	11:00	0	84.4
21/03/2017	0.2	0.2	0.3	07:00	0.2	12:00	0	91.3
¹ 22/03/2017	-	-	-	-	0.2	00:00	0	0.7
23/03/2017	0.2	0.0	0.4	14:00	0.3	23:00	0	93.1
24/03/2017	0.2	0.2	0.4	07:00	0.3	00:00	0	96.9
25/03/2017	0.2	0.1	0.2	23:00	0.2	00:00	0	96.9
26/03/2017	0.2	0.2	0.3	06:00	0.3	08:00	0	96.9
27/03/2017	0.2	0.2	0.4	08:00	0.2	12:00	0	96.9
28/03/2017	0.2	0.2	0.4	07:00	0.3	08:00	0	96.9
29/03/2017	0.3	0.2	0.4	06:00	0.3	07:00	0	96.9
30/03/2017	0.2	0.2	0.3	10:00	0.2	15:00	0	96.9
31/03/2017	0.1	0.0	0.1	0:00	0.2	0:00	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 after power failure

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary March 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		
1/03/2017	1.1	-4.0	5.9	18:00	0	79.2
2/03/2017	0.4	-8.7	5.9	11:00	0	79.2
3/03/2017	3.0	-2.7	7.0	04:00	0	79.2
4/03/2017	2.7	-3.8	7.8	07:00	0	95.8
5/03/2017	1.0	-5.1	5.8	18:00	0	95.8
6/03/2017	3.9	0.0	11.7	18:00	0	100.0
7/03/2017	5.7	0.1	16.3	07:00	0	95.8
8/03/2017	4.5	-1.8	10.5	03:00	0	100.0
9/03/2017	5.7	2.0	10.0	17:00	0	100.0
10/03/2017	4.5	-0.8	10.8	16:00	0	100.0
11/03/2017	7.7	1.4	12.7	10:00	0	100.0
12/03/2017	4.2	1.0	13.8	17:00	0	100.0
13/03/2017	5.7	-0.7	12.5	07:00	0	100.0
14/03/2017	3.5	-1.0	8.7	08:00	0	100.0
15/03/2017	1.6	-4.4	13.9	03:00	0	100.0
16/03/2017	2.9	-1.8	8.8	10:00	0	100.0
17/03/2017	5.3	-0.4	10.6	23:00	0	100.0
18/03/2017	4.9	0.1	14.4	22:00	0	100.0
19/03/2017	4.7	0.0	10.6	10:00	0	100.0
20/03/2017	3.7	-2.0	11.8	06:00	0	87.5
21/03/2017	4.1	0.0	8.9	13:00	0	91.7
22/03/2017	7.8	1.1	14.9	20:00	0	91.7
23/03/2017	6.3	0.1	15.1	08:00	0	100.0
24/03/2017	5.4	0.0	10.5	00:00	0	100.0
25/03/2017	5.9	-0.4	14.9	18:00	0	100.0
26/03/2017	6.4	1.1	16.1	10:00	0	100.0
27/03/2017	4.9	0.4	14.0	05:00	0	100.0
28/03/2017	7.2	3.0	12.5	09:00	0	100.0
29/03/2017	4.1	-1.7	8.7	18:00	0	100.0
30/03/2017	2.7	-2.6	10.4	20:00	0	100.0
31/03/2017	5.5	-0.5	11.5	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 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary March 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		
1/03/2017	4.7	-8.0	12.9	18:00	0	100.0
2/03/2017	6.5	-1.5	19.0	17:00	0	100.0
3/03/2017	12.3	3.2	67.2	14:00	0	100.0
4/03/2017	4.9	-6.2	18.4	14:00	0	100.0
5/03/2017	2.4	-7.7	37.0	18:00	0	100.0
6/03/2017	11.6	0.2	21.7	20:00	0	100.0
7/03/2017	20.4	10.0	36.0	15:00	0	100.0
8/03/2017	14.8	5.2	28.8	08:00	0	100.0
9/03/2017	17.2	6.2	26.5	11:00	0	100.0
10/03/2017	15.7	4.3	29.5	22:00	0	100.0
11/03/2017	18.7	11.8	26.2	12:00	0	100.0
12/03/2017	17.5	8.3	28.1	22:00	0	100.0
13/03/2017	20.3	6.4	45.7	15:00	0	100.0
14/03/2017	22.5	9.1	35.4	12:00	0	100.0
15/03/2017	13.9	4.2	57.4	18:00	0	100.0
16/03/2017	13.7	6.3	23.0	10:00	0	100.0
17/03/2017	14.2	2.4	35.0	15:00	0	100.0
18/03/2017	8.8	0.2	17.4	17:00	0	100.0
19/03/2017	11.1	-1.4	23.3	23:00	0	100.0
20/03/2017	9.7	2.3	20.6	07:00	0	87.5
21/03/2017	23.4	4.3	189.6	19:00	0	91.7
22/03/2017	18.7	6.8	53.9	10:00	0	91.7
23/03/2017	19.0	8.1	82.5	11:00	0	95.8
24/03/2017	13.7	9.1	22.9	08:00	0	100.0
25/03/2017	12.2	6.2	25.3	13:00	0	100.0
26/03/2017	18.1	9.0	27.8	09:00	0	100.0
27/03/2017	16.5	8.2	32.7	15:00	0	100.0
28/03/2017	16.5	8.2	25.5	18:00	0	100.0
29/03/2017	12.7	7.0	18.8	12:00	0	100.0
30/03/2017	10.3	2.0	20.4	07:00	0	95.8
31/03/2017	10.9	2.3	27.5	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 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 March 2017					
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 ($\mu\text{g}/\text{m}^3$)
02/03/2017	24	24	21	26	20
08/03/2017	50	34	37	33	30
14/03/2017	25	29	24	31	26
20/03/2017	11	10	10	12	9
26/03/2017	21	18	20	20	20
Monthly Average	26.2	23.0	22.4	24.4	21.0
Annual Average	26.4	25.8	23.8	26.7	25.3

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
1/03/2017 00:15:00	31/03/2017 19:20:00	PM _{2.5}	Intermittent instrument faults – error code logged	12/04/2017	CP
12/03/2017 05:55:00	12/03/2017 06:50:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
14/03/2017 01:55:00	14/03/2017 02:50:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
17/03/2017 16:55:00	17/03/2017 17:50:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
18/03/2017 06:55:00	18/03/2017 07:50:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
20/03/2017 13:00:00	20/03/2017 15:10:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 11:15:00	21/03/2017 12:25:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 12:30:00	21/03/2017 13:50:00	PM _{2.5}	Maintenance	12/04/2017	CP
25/03/2017 11:50:00	31/03/2017 14:35:00	PM _{2.5}	Instrument fault	12/04/2017	CP
27/03/2017 08:15:00	31/03/2017 14:10:00	CO	Instrument fault	12/04/2017	CP

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
1/03/2017 12:45:00	1/03/2017 13:00:00	PM _{2.5} , PM ₁₀	Maintenance	12/04/2017	CP
4/03/2017 06:20:00	4/03/2017 11:20:00	All parameters	Power interruption	12/04/2017	CP
4/03/2017 11:25:00	4/03/2017 11:55:00	NO, NO ₂ , NO _x	Instrument warm-up after power interruption	12/04/2017	CP
4/03/2017 16:50:00	4/03/2017 18:50:00	All parameters	Power interruption	12/04/2017	CP
4/03/2017 18:55:00	4/03/2017 19:10:00	CO, NO, NO ₂ , NO _x	Instrument warm-up after power interruption	12/04/2017	CP
4/03/2017 20:25:00	5/03/2017 01:30:00	PM _{2.5}	Intermittent PM _{2.5} greater than PM ₁₀	12/04/2017	CP
11/03/2017 23:35:00	12/03/2017 09:30:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
13/03/2017 17:05:00	14/03/2017 02:00:00	PM _{2.5}	Intermittent PM _{2.5} greater than PM ₁₀	12/04/2017	CP
14/03/2017 21:35:00	15/03/2017 13:30:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
16/03/2017 14:20:00	16/03/2017 15:45:00	PM _{2.5}	Intermittent PM _{2.5} greater than PM ₁₀	12/04/2017	CP
18/03/2017 17:35:00	18/03/2017 19:30:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
19/03/2017 11:35:00	19/03/2017 19:30:00	PM _{2.5}	PM _{2.5} greater than PM ₁₀	12/04/2017	CP
20/03/2017 10:10:00	20/03/2017 12:45:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 12:40:00	21/03/2017 13:20:00	All parameters	Maintenance	12/04/2017	CP
29/03/2017 17:45:00	29/03/2017 18:20:00	CO, NO, NO ₂ , NO _x	Maintenance	12/04/2017	CP
31/03/2017 05:50:00	31/03/2017 23:30:00	PM _{2.5}	Intermittent PM _{2.5} greater than PM ₁₀	12/04/2017	CP

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
1/03/2017 00:35:00	31/03/2017 11:30:00	PM _{2.5}	Intermittent instrument faults – no samples	12/04/2017	CP
9/03/2017 13:55:00	13/03/2017 12:45:00	NO, NO ₂ , NO _x , CO, PM ₁₀	Intermittent communication errors	12/04/2017	CP
14/03/2017 17:40:00	14/03/2017 19:15:00	All parameters	Maintenance	12/04/2017	CP
14/03/2017 19:20:00	14/03/2017 20:50:00	PM _{2.5}	Maintenance	12/04/2017	CP
14/03/2017 20:55:00	31/03/2017 23:55:00	PM _{2.5}	Offset applied to data: 8.0µg/m ³	12/04/2017	CP
20/03/2017 15:35:00	20/03/2017 16:00:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 13:30:00	21/03/2017 14:15:00	All parameters	Maintenance	12/04/2017	CP
31/03/2017 14:55:00	31/03/2017 16:50:00	PM _{2.5}	Maintenance	12/04/2017	CP

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
1/03/2017 01:05:00	31/03/2017 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	12/04/2017	CP
8/03/2017 02:30:00	9/03/2017 00:35:00	CO	Intermittent instrument fault	12/04/2017	CP
15/03/2017 14:05:00	15/03/2017 17:50:00	All parameters	Maintenance	12/04/2017	CP
15/03/2017 17:55:00	15/03/2017 18:50:00	PM _{2.5}	Maintenance	12/04/2017	CP
17/03/2017 13:55:00	17/03/2017 15:05:00	All parameters	Maintenance	12/04/2017	CP
20/03/2017 10:15:00	20/03/2017 13:00:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 00:40:00	29/03/2017 17:05:00	CO	Intermittent instrument fault	12/04/2017	CP
29/03/2017 17:10:00	29/03/2017 17:25:00	NO, NO ₂ , NO _x , CO	Maintenance	12/04/2017	CP
29/03/2017 17:30:00	31/03/2017 23:55:00	CO	Instrument fault	12/04/2017	CP

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
1/03/2017 00:00	1/03/2017 00:50:00	PM _{2.5}	Intermittent PM _{2.5} greater than PM ₁₀	12/04/2017	CP
1/03/2017 01:05:00	31/03/2017 23:10:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	12/04/2017	CP
20/03/2017 16:20:00	20/03/2017 19:15:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 10:05:00	21/03/2017 10:45:00	All parameters	Maintenance	12/04/2017	CP
21/03/2017 23:25:00	22/03/2017 01:05:00	All parameters	Power interruption	12/04/2017	CP
22/03/2017 01:05:00	22/03/2017 01:30:00	NO, NO ₂ , NO _x , CO	Instrument warm-up after power interruption	12/04/2017	CP
22/03/2017 01:45:00	23/03/2017 00:55:00	CO	Instrument fault	12/04/2017	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table