



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

February 2016

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Glossary

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

AQMS – Air Quality Monitoring Station

EPA – Environment Protection Authority

NO – Nitric Oxide

NO₂ – Nitrogen Dioxide

NO_x – Nitrogen Oxides

CO – Carbon Monoxide

PM₁₀ – Particulate matter of 10 microns or less aerodynamic equivalent size

PM_{2.5} – Particulate matter of 2.5 microns or less aerodynamic equivalent size

TSP – Total Suspended Particulate

HVAS – High Volume Air Sampler

ppm – Parts Per Million

µg/m³ – micrograms per cubic meter

AHS – Aviation High School

KSHS – Kedron State High School

LS – Lewis Street

ALOC – Airportlink Operation Centre

CS – Cartwright St

Executive Summary

Exceedance Reporting

There were no readings over the relevant Air Quality Standards during the reporting period.

AirportlinkM7 AQMS Exceedance Reporting February 2016							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences February 2016				
			Station 1 (AHS)	Station 2 (KSHS)	Station 3 (LS)	Station 4 (ALOC)	Station 5 (BS)
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	63 µg/m ³	0	0	0	0	0
PM2.5	24 hour	25 µg/m ³	0	0	0	0	0
PM10	24 hour	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

- 201508 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	23/02/2016	23/02/2016	22/02/2016	22/02/2016	23/02/2016
CO	ppm	2.56%	AS 3580.7.1	23/02/2016	23/02/2016	22/02/2016	22/02/2016	23/02/2016
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	23/02/2016*	23/02/2015	22/02/2016*	22/02/2016*	23/02/2016
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308-170	23/02/2016	23/02/2015	22/02/2016	22/02/2016	23/02/2016
TSP	µg/m ³	7.34%	AS 3580.9.3	14/01/2015	14/01/2016	14/01/2016	14/01/2016	14/01/2016

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.

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 February 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.026	02/02/2016 17:00	97.0
CO	ppm	8.0	8 Hours	0.4	16/02/2016 11:00	96.6
PM _{2.5}	µg/m3	25	24 Hours	6.4	17/02/2016	89.9
PM ₁₀	µg/m3	50	24 Hours	36.4	04/02/2016	97.3

Table 4 Station 1 Monthly Summary

Graphical Representations

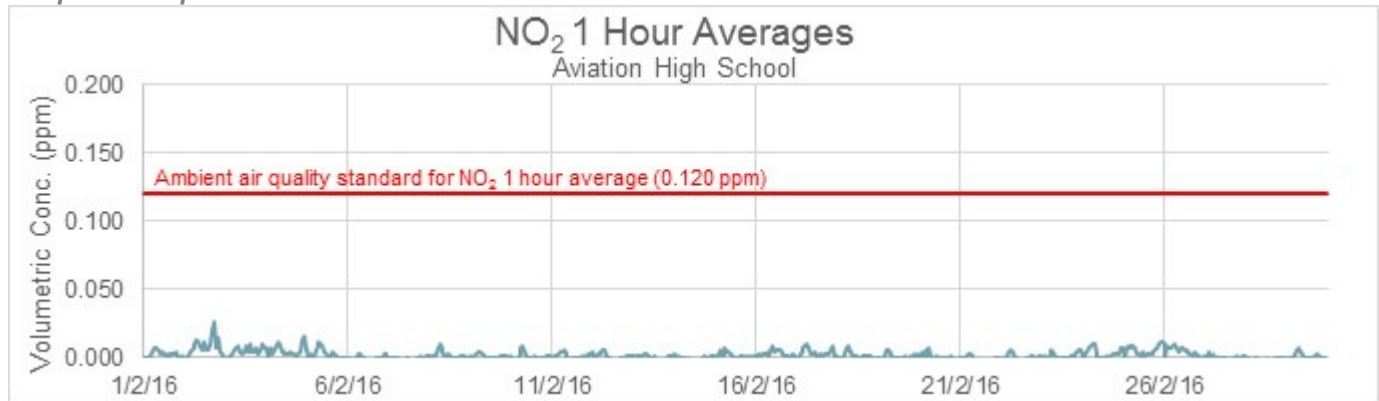


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

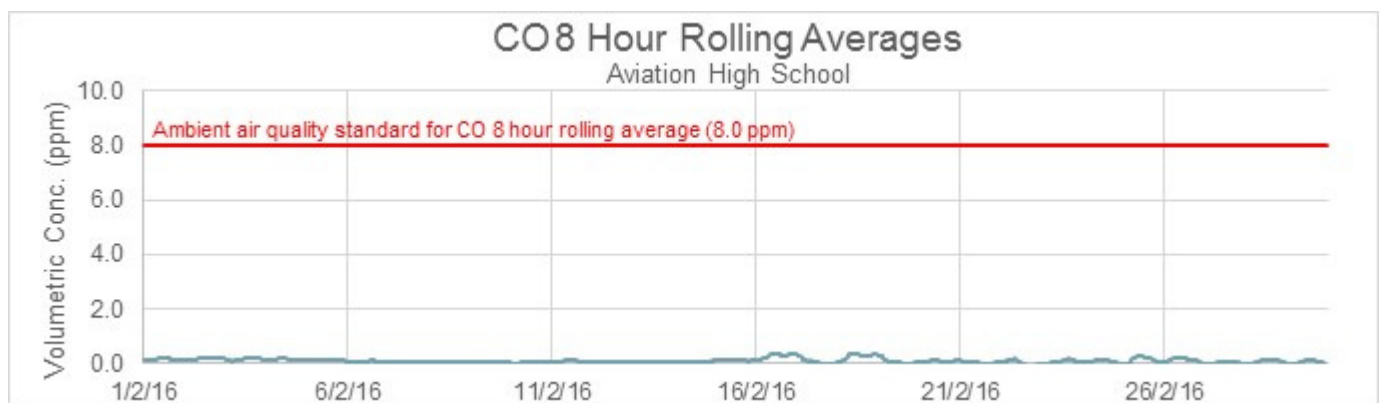


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

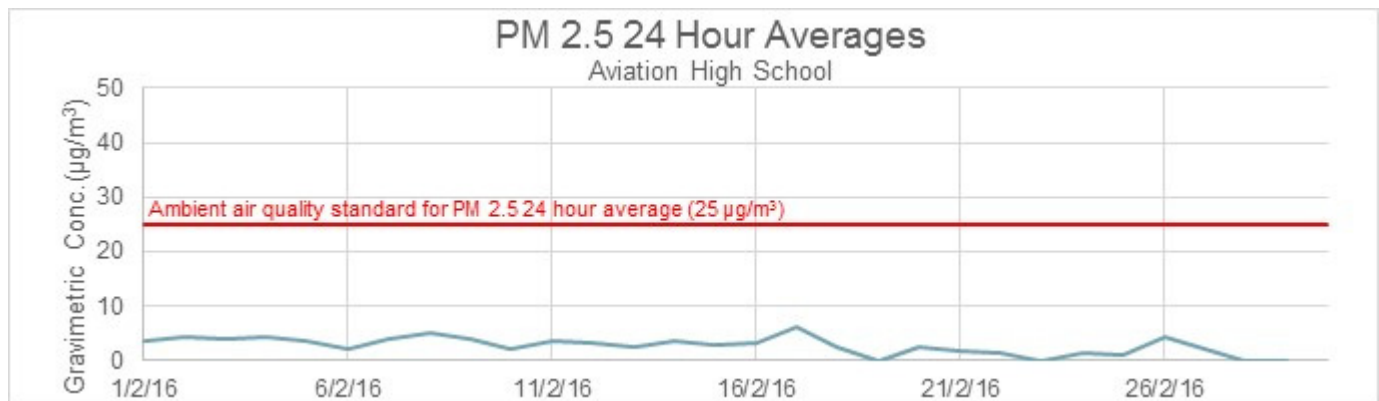


Figure 3 Station 1 PM2.5 24hr averages

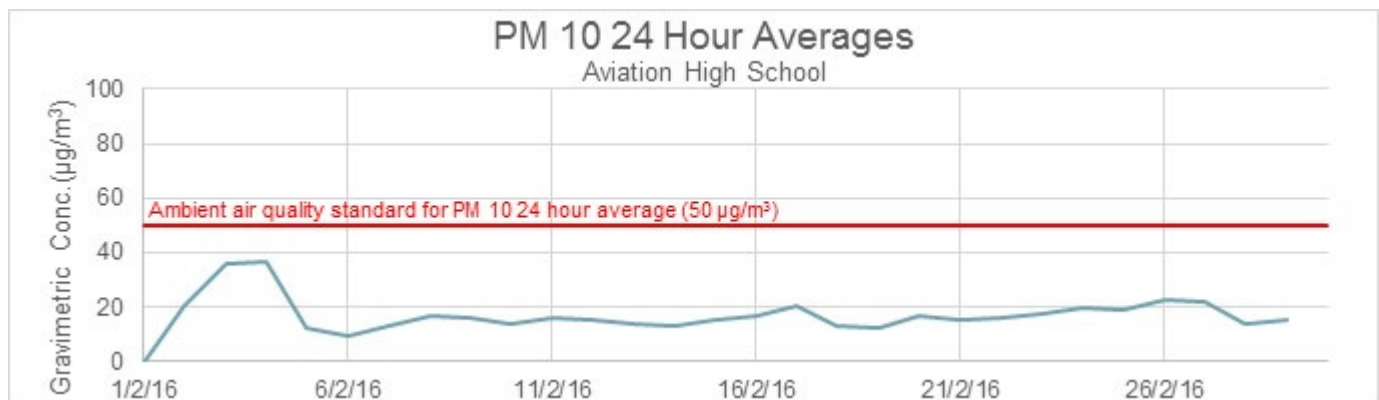


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary February 2016						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2016	0.002	-0.001	0.007	07:00	0	97.2
2/02/2016	0.009	0.000	0.026	17:00	0	97.2
3/02/2016	0.005	-0.001	0.010	15:00	0	97.2
4/02/2016	0.005	0.002	0.016	22:00	0	97.2
5/02/2016	0.003	-0.001	0.012	07:00	0	97.2
6/02/2016	0.000	-0.002	0.003	22:00	0	97.2
7/02/2016	0.000	-0.002	0.001	22:00	0	97.2
8/02/2016	0.002	0.000	0.010	06:00	0	97.2
9/02/2016	0.001	-0.001	0.004	06:00	0	97.2
10/02/2016	0.001	-0.002	0.009	07:00	0	97.2
11/02/2016	0.001	-0.001	0.005	07:00	0	97.2
12/02/2016	0.001	-0.001	0.005	07:00	0	97.2
13/02/2016	0.000	-0.001	0.003	08:00	0	97.2
14/02/2016	0.000	-0.002	0.003	00:00	0	97.2
15/02/2016	0.002	0.000	0.006	06:00	0	97.2
16/02/2016	0.003	0.001	0.008	10:00	0	97.2
17/02/2016	0.004	-0.001	0.010	06:00	0	97.2
18/02/2016	0.002	-0.002	0.008	06:00	0	97.2
19/02/2016	0.001	-0.001	0.006	06:00	0	97.2
20/02/2016	0.001	-0.001	0.007	06:00	0	97.2
21/02/2016	-0.001	-0.002	0.002	05:00	0	97.2
22/02/2016	0.000	-0.001	0.006	06:00	0	97.2
23/02/2016	0.002	-0.001	0.006	23:00	0	90.6
24/02/2016	0.003	0.000	0.010	07:00	0	96.9
25/02/2016	0.006	0.002	0.012	22:00	0	97.2
26/02/2016	0.005	0.000	0.011	00:00	0	97.2
27/02/2016	0.000	-0.001	0.004	02:00	0	97.2
28/02/2016	-0.001	-0.002	0.001	00:00	0	97.2
29/02/2016	0.001	-0.001	0.007	07:00	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 February 2016								
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		
1/02/2016	0.2	0.1	0.3	07:00	0.2	12:00	0	96.9
2/02/2016	0.2	0.1	0.3	17:00	0.2	19:00	0	96.9
3/02/2016	0.2	0.1	0.2	07:00	0.2	14:00	0	96.9
4/02/2016	0.1	0.1	0.2	07:00	0.2	08:00	0	96.9
5/02/2016	0.1	0.1	0.2	07:00	0.2	12:00	0	96.9
6/02/2016	0.1	0.1	0.1	22:00	0.1	14:00	0	96.9
7/02/2016	0.1	0.0	0.1	11:00	0.1	00:00	0	96.9
8/02/2016	0.1	0.0	0.2	06:00	0.1	12:00	0	96.9
9/02/2016	0.1	0.0	0.1	07:00	0.1	11:00	0	96.9
10/02/2016	0.1	0.0	0.1	07:00	0.1	12:00	0	96.9
11/02/2016	0.1	0.1	0.2	07:00	0.1	12:00	0	96.9
12/02/2016	0.1	0.0	0.1	07:00	0.1	12:00	0	96.9
13/02/2016	0.1	0.1	0.1	12:00	0.1	14:00	0	96.9
14/02/2016	0.1	0.0	0.2	23:00	0.1	23:00	0	96.9
15/02/2016	0.1	0.1	0.3	22:00	0.2	12:00	0	96.2
16/02/2016	0.3	0.0	0.4	05:00	0.4	11:00	0	96.9
17/02/2016	0.0	-0.1	0.2	07:00	0.3	00:00	0	96.9
18/02/2016	0.3	0.2	0.5	07:00	0.4	08:00	0	96.9
19/02/2016	0.0	0.0	0.1	07:00	0.3	00:00	0	96.9
20/02/2016	0.1	0.0	0.2	06:00	0.1	08:00	0	96.9
21/02/2016	0.0	0.0	0.1	08:00	0.1	00:00	0	96.9
22/02/2016	0.0	-0.1	0.2	06:00	0.2	08:00	0	96.9
23/02/2016	0.1	0.0	0.2	15:00	0.2	16:00	0	90.3
24/02/2016	0.1	-0.1	0.2	08:00	0.1	10:00	0	96.2
25/02/2016	0.2	0.0	0.4	05:00	0.3	11:00	0	96.9
26/02/2016	0.1	-0.1	0.3	06:00	0.2	10:00	0	96.9
27/02/2016	0.0	-0.1	0.1	17:00	0.1	18:00	0	96.9
28/02/2016	0.1	-0.1	0.2	13:00	0.2	16:00	0	96.9
29/02/2016	0.0	-0.1	0.1	08:00	0.1	15:00	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 February 2016

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		
1/02/2016	3.7	-0.8	8.8	22:00	0	100.0
2/02/2016	4.3	0.3	10.8	08:00	0	91.7
3/02/2016	3.9	-0.8	11.7	13:00	0	100.0
4/02/2016	4.2	0.4	7.8	08:00	0	100.0
5/02/2016	3.8	0.2	7.8	23:00	0	100.0
6/02/2016	2.0	0.0	4.8	00:00	0	87.5
7/02/2016	3.9	-1.0	10.9	20:00	0	75.0
8/02/2016	5.1	-0.6	11.8	06:00	0	95.8
9/02/2016	3.9	-0.9	8.8	07:00	0	100.0
10/02/2016	2.1	-0.9	5.8	17:00	0	95.8
11/02/2016	3.8	0.2	8.8	10:00	0	100.0
12/02/2016	3.3	-0.9	9.7	02:00	0	100.0
13/02/2016	2.5	-1.0	4.8	07:00	0	95.8
14/02/2016	3.7	0.2	15.3	23:00	0	91.7
15/02/2016	2.9	-0.8	17.5	00:00	0	100.0
16/02/2016	3.2	-1.0	12.7	16:00	0	100.0
17/02/2016	6.4	0.5	17.5	07:00	0	100.0
18/02/2016	2.5	-0.8	11.6	07:00	0	83.3
¹ 19/02/2016	-	-1.0	3.8	08:00	0	70.8
20/02/2016	2.7	-0.8	7.8	14:00	0	100.0
21/02/2016	1.7	-1.0	3.8	21:00	0	95.8
22/02/2016	1.6	-0.8	4.8	07:00	0	91.7
¹ 23/02/2016	-	-0.8	5.8	02:00	0	50.0
24/02/2016	1.3	-1.0	5.0	05:00	0	91.7
25/02/2016	1.1	-1.0	6.6	21:00	0	79.2
26/02/2016	4.3	-1.0	11.8	14:00	0	100.0
27/02/2016	2.3	-1.0	4.8	02:00	0	79.2
¹ 28/02/2016	-	-1.0	2.0	17:00	0	66.7
¹ 29/02/2016	-	-1.0	5.9	02:00	0	66.7

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

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 February 2016						
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 1/02/2016	-	15.5	30.5	19:00	0	41.7
2/02/2016	20.5	2.5	77.0	04:00	0	100.0
3/02/2016	35.7	3.6	286.0	22:00	0	100.0
4/02/2016	36.4	6.5	139.0	00:00	0	100.0
5/02/2016	12.6	7.6	19.2	11:00	0	100.0
6/02/2016	9.6	6.2	13.4	16:00	0	100.0
7/02/2016	13.5	4.2	27.3	19:00	0	100.0
8/02/2016	17.0	8.1	24.8	08:00	0	100.0
9/02/2016	16.0	7.2	25.3	13:00	0	100.0
10/02/2016	14.1	8.7	31.1	14:00	0	100.0
11/02/2016	16.3	8.0	23.9	14:00	0	100.0
12/02/2016	15.2	9.5	21.7	07:00	0	100.0
13/02/2016	13.7	7.4	20.8	09:00	0	100.0
14/02/2016	13.2	7.6	30.6	23:00	0	100.0
15/02/2016	15.0	5.3	26.6	13:00	0	100.0
16/02/2016	17.1	6.2	37.7	15:00	0	100.0
17/02/2016	20.8	6.7	32.8	03:00	0	100.0
18/02/2016	13.2	4.9	20.2	11:00	0	100.0
19/02/2016	12.7	3.1	19.4	07:00	0	100.0
20/02/2016	16.8	5.6	28.9	13:00	0	100.0
21/02/2016	15.6	7.8	25.8	17:00	0	95.8
22/02/2016	16.3	8.8	27.9	14:00	0	100.0
23/02/2016	17.6	9.5	23.1	07:00	0	91.7
24/02/2016	20.1	15.5	30.0	14:00	0	95.8
25/02/2016	19.3	13.1	33.1	12:00	0	100.0
26/02/2016	22.7	11.4	40.1	15:00	0	100.0
27/02/2016	22.2	12.4	41.3	12:00	0	95.8
28/02/2016	13.8	4.9	21.8	17:00	0	100.0
29/02/2016	15.2	4.9	31.0	08:00	0	100.0

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

¹ Loss of data due to instrument fault

Table 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary February 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.018	05/02/2016 07:00	92.9
CO	ppm	8.0	8 Hours	0.3	23/02/2016 23:00	95.7
PM _{2.5}	µg/m ³	25	24 Hours	8.6	26/02/2016	83.2
PM ₁₀	µg/m ³	50	24 Hours	26.7	17/02/2016	99.1

Table 9 Station 2 Monthly Summary

Graphical Representations

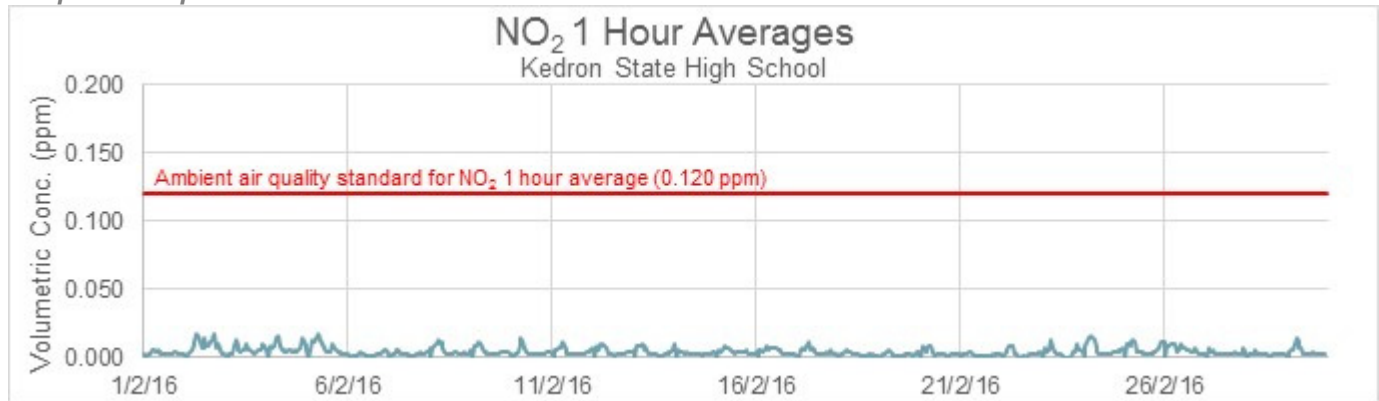


Figure 5 Station 2 Dioxide 1hr averages

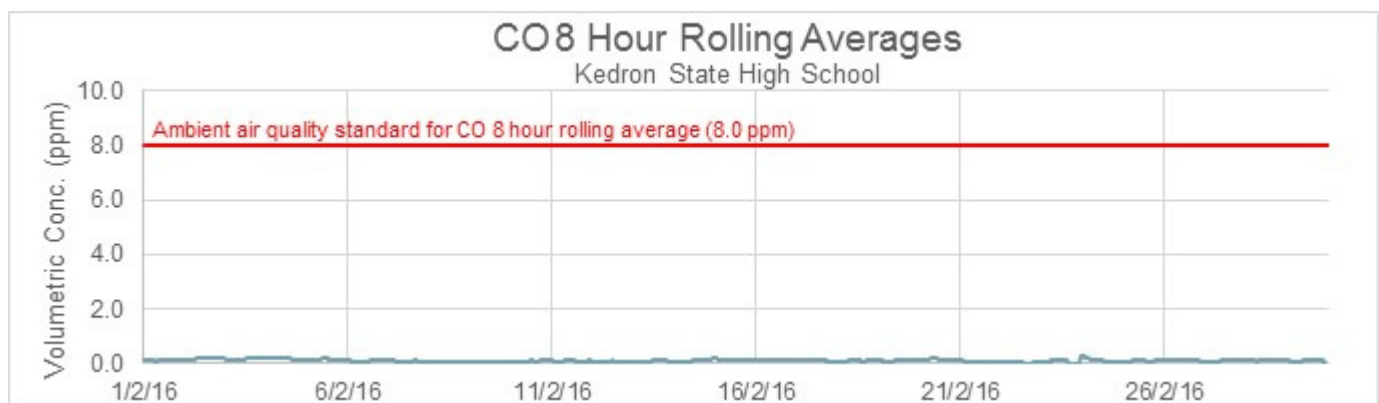


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

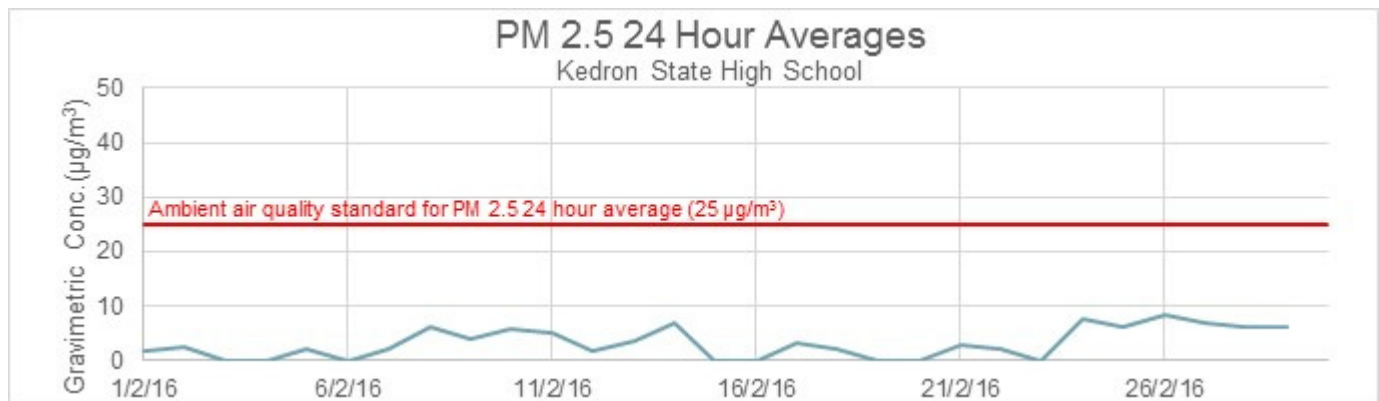


Figure 7 Station 2 PM2.5 24hr averages

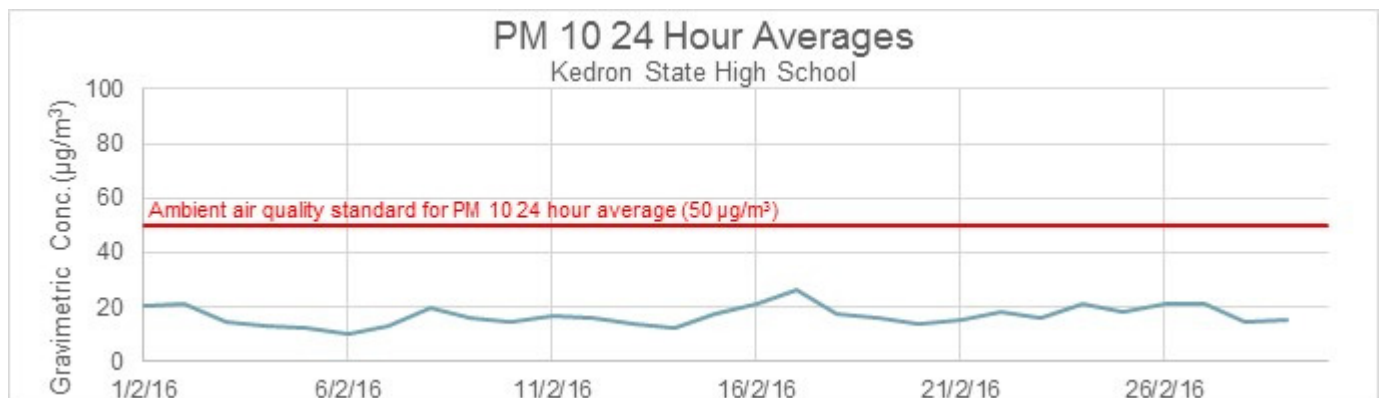


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary February 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2016	0.003	0.002	0.006	06:00	0	93.8
2/02/2016	0.009	0.002	0.018	17:00	0	94.1
3/02/2016	0.006	0.001	0.013	06:00	0	91.0
4/02/2016	0.008	0.004	0.016	07:00	0	93.1
5/02/2016	0.007	0.002	0.018	07:00	0	93.8
6/02/2016	0.003	0.001	0.006	22:00	0	93.1
7/02/2016	0.003	0.001	0.006	06:00	0	92.0
8/02/2016	0.005	0.003	0.013	05:00	0	94.4
9/02/2016	0.005	0.002	0.011	05:00	0	95.1
10/02/2016	0.004	0.002	0.014	06:00	0	94.4
11/02/2016	0.004	0.002	0.012	06:00	0	94.4
12/02/2016	0.005	0.002	0.010	06:00	0	94.8
13/02/2016	0.005	0.001	0.010	05:00	0	94.1
14/02/2016	0.003	0.002	0.009	00:00	0	93.8
15/02/2016	0.005	0.003	0.008	05:00	0	93.8
16/02/2016	0.005	0.002	0.008	06:00	0	94.1
17/02/2016	0.005	0.001	0.011	07:00	0	93.4
18/02/2016	0.003	0.001	0.006	05:00	0	92.4
19/02/2016	0.002	0.001	0.006	06:00	0	94.1
20/02/2016	0.004	0.001	0.009	07:00	0	95.8
21/02/2016	0.002	0.001	0.004	05:00	0	94.4
22/02/2016	0.004	0.001	0.009	05:00	0	83.0
23/02/2016	0.005	0.002	0.013	05:00	0	81.9
24/02/2016	0.006	0.002	0.016	05:00	0	91.3
25/02/2016	0.006	0.002	0.013	06:00	0	94.1
26/02/2016	0.007	0.002	0.012	00:00	0	92.4
27/02/2016	0.004	0.002	0.007	02:00	0	93.4
28/02/2016	0.003	0.002	0.006	06:00	0	94.4
29/02/2016	0.005	0.001	0.015	06:00	0	95.1

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 February 2016

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		
1/02/2016	0.1	0.1	0.2	16:00	0.1	00:00	0	96.5
2/02/2016	0.2	0.1	0.3	17:00	0.2	12:00	0	96.5
3/02/2016	0.2	0.1	0.3	23:00	0.2	23:00	0	96.5
4/02/2016	0.2	0.1	0.3	07:00	0.2	00:00	0	96.5
5/02/2016	0.1	0.1	0.3	07:00	0.2	10:00	0	96.5
6/02/2016	0.1	0.1	0.1	14:00	0.1	18:00	0	96.5
7/02/2016	0.1	0.0	0.1	10:00	0.1	00:00	0	96.5
8/02/2016	0.1	0.0	0.1	06:00	0.1	20:00	0	96.5
9/02/2016	0.1	0.0	0.1	06:00	0.1	11:00	0	96.5
10/02/2016	0.1	0.0	0.2	06:00	0.1	20:00	0	96.5
11/02/2016	0.1	0.0	0.2	06:00	0.1	12:00	0	96.5
12/02/2016	0.1	0.1	0.2	06:00	0.1	12:00	0	96.5
13/02/2016	0.1	0.1	0.1	12:00	0.1	14:00	0	96.5
14/02/2016	0.1	0.1	0.3	22:00	0.2	23:00	0	96.5
15/02/2016	0.1	0.1	0.2	06:00	0.2	00:00	0	96.5
16/02/2016	0.1	0.1	0.3	06:00	0.2	20:00	0	96.5
17/02/2016	0.1	0.1	0.2	07:00	0.2	10:00	0	95.8
18/02/2016	0.1	0.1	0.2	06:00	0.1	20:00	0	96.5
19/02/2016	0.1	0.1	0.1	08:00	0.1	00:00	0	96.5
20/02/2016	0.1	0.1	0.3	07:00	0.2	08:00	0	96.5
21/02/2016	0.1	0.0	0.1	00:00	0.1	00:00	0	96.5
22/02/2016	0.1	-0.1	0.1	07:00	0.1	23:00	0	88.5
23/02/2016	0.2	0.1	0.3	18:00	0.3	23:00	0	83.3
24/02/2016	0.1	0.0	0.2	06:00	0.3	00:00	0	94.4
25/02/2016	0.1	0.1	0.3	06:00	0.1	07:00	0	96.5
26/02/2016	0.1	0.0	0.2	00:00	0.1	01:00	0	96.5
27/02/2016	0.1	0.1	0.2	14:00	0.1	20:00	0	96.5
28/02/2016	0.1	0.1	0.2	15:00	0.2	16:00	0	96.5
29/02/2016	0.1	0.0	0.2	06:00	0.1	00:00	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

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary February 2016						
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		
1/02/2016	2.0	0.4	12.6	20:00	0	100.0
2/02/2016	2.4	0.4	11.3	02:00	0	100.0
¹ 3/02/2016	-	0.4	15.7	18:00	0	58.3
¹ 4/02/2016	-	16.7	18.8	22:00	0	8.3
5/02/2016	2.2	0.4	9.6	00:00	0	100.0
¹ 6/02/2016	-	0.4	16.1	22:00	0	58.3
7/02/2016	2.2	0.4	9.3	00:00	0	100.0
8/02/2016	6.4	0.4	21.0	08:00	0	100.0
9/02/2016	4.0	1.0	9.8	08:00	0	100.0
10/02/2016	5.8	1.2	12.4	08:00	0	91.7
11/02/2016	5.1	0.5	16.2	08:00	0	100.0
12/02/2016	1.7	0.4	2.9	10:00	0	100.0
13/02/2016	3.7	1.3	9.8	11:00	0	75.0
14/02/2016	7.1	1.1	14.5	14:00	0	75.0
¹ 15/02/2016	-	0.4	19.6	22:00	0	66.7
¹ 16/02/2016	-	2.7	30.4	22:00	0	58.3
17/02/2016	3.2	0.4	15.8	00:00	0	100.0
18/02/2016	2.1	0.4	9.7	10:00	0	83.3
¹ 19/02/2016	-	0.5	17.0	04:00	0	66.7
¹ 20/02/2016	-	0.5	9.7	14:00	0	50.0
21/02/2016	3.0	0.5	13.1	10:00	0	83.3
22/02/2016	2.1	0.4	9.0	02:00	0	87.5
¹ 23/02/2016	-	0.3	16.3	22:00	0	58.3
24/02/2016	7.5	1.5	12.7	16:00	0	100.0
25/02/2016	6.2	2.8	16.5	23:00	0	100.0
26/02/2016	8.6	5.0	16.7	00:00	0	100.0
27/02/2016	7.1	1.9	16.8	02:00	0	100.0
28/02/2016	6.3	1.3	14.4	04:00	0	91.7
29/02/2016	6.1	2.7	10.4	08:00	0	100.0

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

¹ Loss of data due to instrument fault

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary February 2016						
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		
1/02/2016	20.7	6.5	47.1	20:00	0	100.0
2/02/2016	21.5	3.9	48.6	00:00	0	100.0
3/02/2016	14.4	2.1	39.3	22:00	0	100.0
4/02/2016	13.4	5.1	32.2	00:00	0	100.0
5/02/2016	12.4	4.0	20.5	12:00	0	100.0
6/02/2016	10.1	3.9	19.4	20:00	0	100.0
7/02/2016	13.1	4.0	24.8	00:00	0	100.0
8/02/2016	19.8	11.1	28.2	08:00	0	100.0
9/02/2016	16.4	3.7	26.6	08:00	0	100.0
10/02/2016	14.3	7.5	21.6	10:00	0	100.0
11/02/2016	16.7	10.0	24.0	22:00	0	100.0
12/02/2016	16.2	11.0	22.0	10:00	0	100.0
13/02/2016	13.8	4.3	22.9	20:00	0	100.0
14/02/2016	12.7	6.7	21.9	22:00	0	100.0
15/02/2016	17.3	6.5	26.8	16:00	0	100.0
16/02/2016	21.5	8.6	31.3	18:00	0	100.0
17/02/2016	26.7	14.7	38.4	06:00	0	100.0
18/02/2016	17.2	9.0	22.5	18:00	0	100.0
19/02/2016	16.1	6.8	21.8	00:00	0	100.0
20/02/2016	14.1	6.1	21.7	22:00	0	100.0
21/02/2016	15.0	7.4	23.5	08:00	0	100.0
22/02/2016	18.2	7.3	26.3	02:00	0	91.7
23/02/2016	16.2	7.5	23.1	10:00	0	83.3
24/02/2016	21.4	14.1	33.7	18:00	0	100.0
25/02/2016	18.5	10.9	27.7	22:00	0	100.0
26/02/2016	21.1	9.2	31.6	16:00	0	100.0
27/02/2016	21.2	11.5	30.9	02:00	0	100.0
28/02/2016	14.8	9.6	22.8	02:00	0	100.0
29/02/2016	15.6	10.8	19.0	08:00	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 February 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.019	02/02/2016 12:00	96.8
CO	ppm	8.0	8 Hours	0.3	02/02/2016 12:00	94.7
PM _{2.5}	µg/m ³	25	24 Hours	16.0	17/02/2016	99.1
PM ₁₀	µg/m ³	50	24 Hours	23.5	26/02/2016	99.0

Table 14 Station 3 Monthly Summary

Graphical Representations

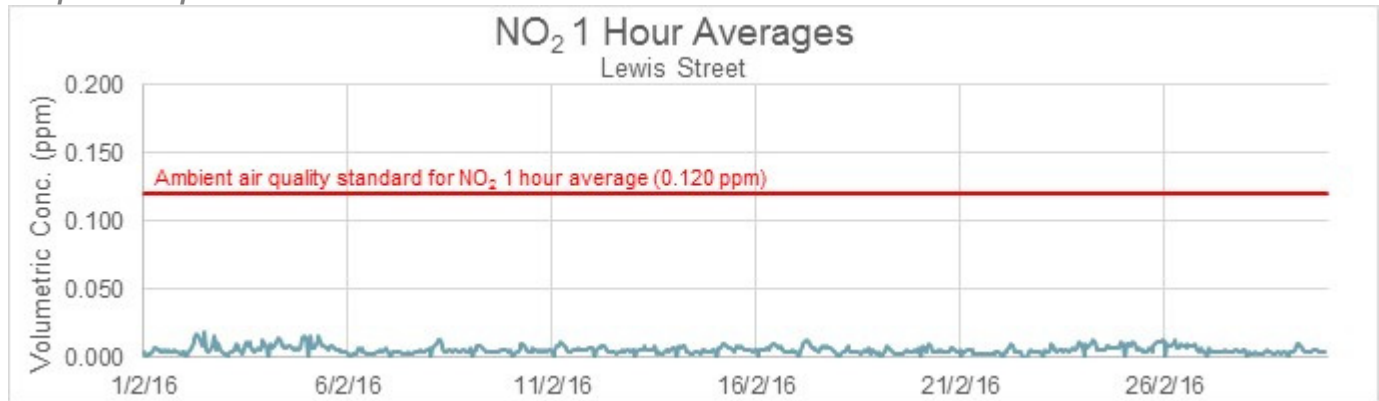


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

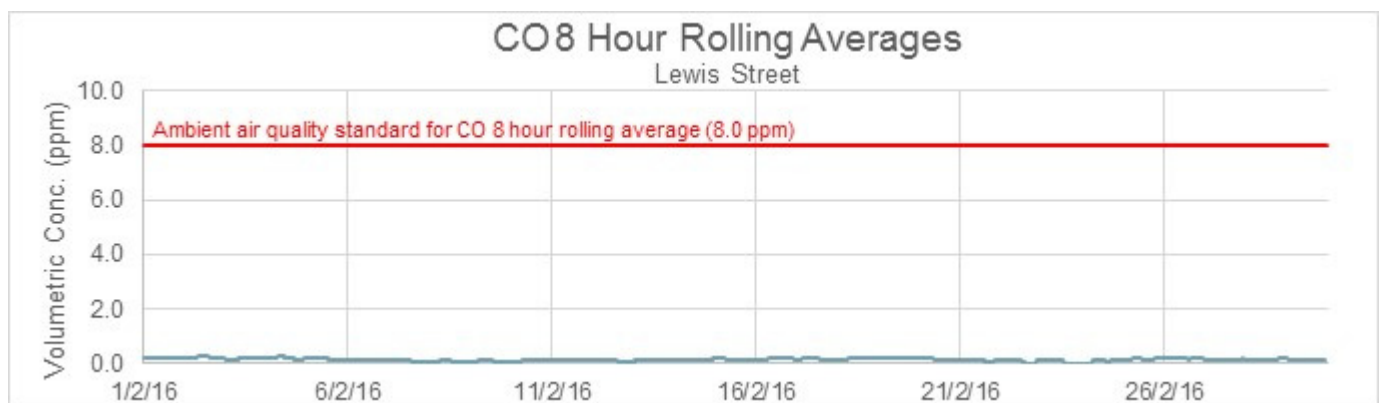


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

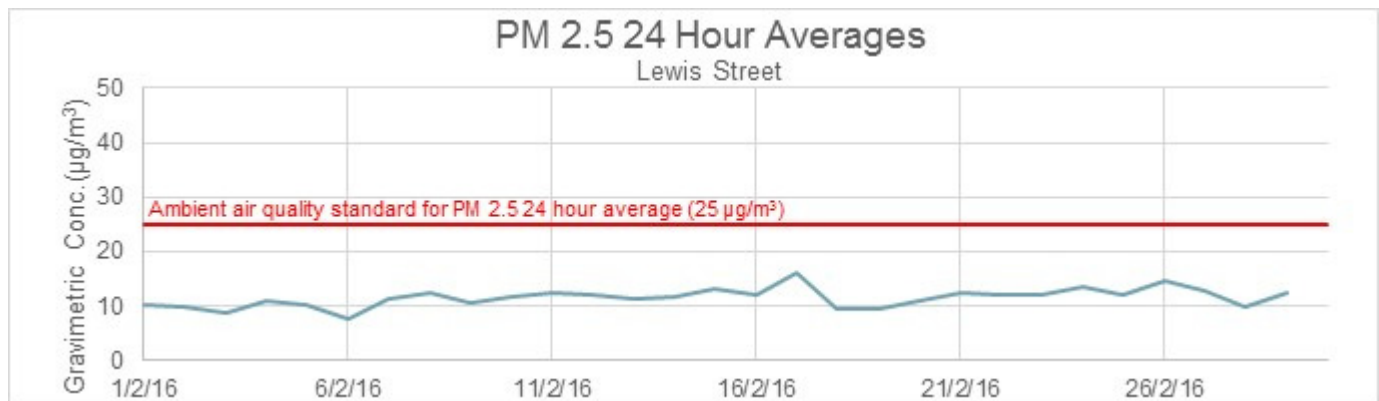


Figure 11 Station 3 PM2.5 24hr averages

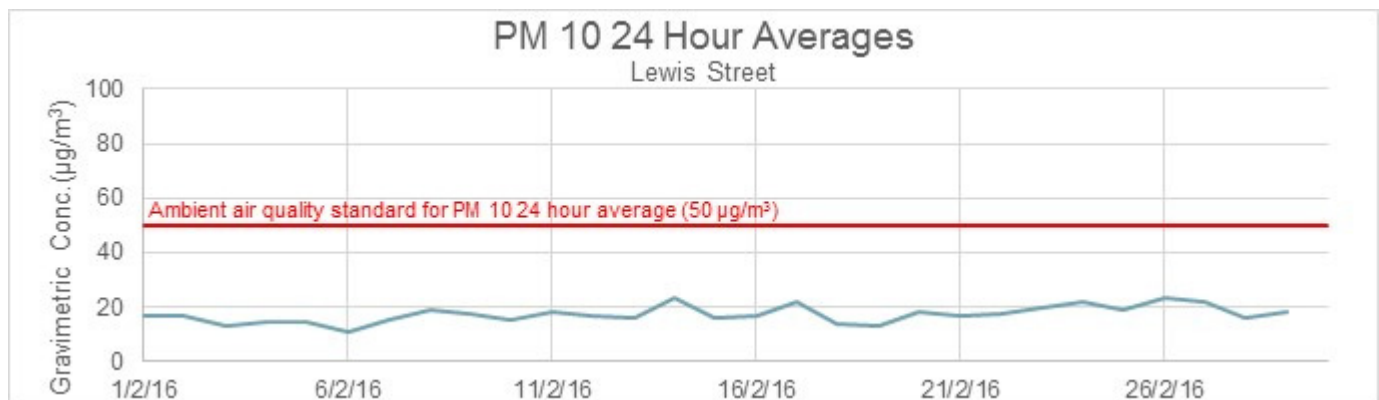


Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary February 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2016	0.005	0.003	0.008	06:00	0	97.2
2/02/2016	0.009	0.003	0.019	12:00	0	97.2
3/02/2016	0.007	0.002	0.013	22:00	0	97.2
4/02/2016	0.009	0.006	0.016	22:00	0	97.2
5/02/2016	0.008	0.004	0.016	02:00	0	97.2
6/02/2016	0.004	0.003	0.008	06:00	0	97.2
7/02/2016	0.004	0.003	0.006	23:00	0	97.2
8/02/2016	0.006	0.004	0.013	06:00	0	97.2
9/02/2016	0.005	0.004	0.009	04:00	0	97.2
10/02/2016	0.006	0.003	0.010	07:00	0	97.2
11/02/2016	0.006	0.004	0.011	05:00	0	97.2
12/02/2016	0.005	0.003	0.009	07:00	0	97.2
13/02/2016	0.005	0.003	0.009	12:00	0	97.2
14/02/2016	0.005	0.003	0.009	05:00	0	97.2
15/02/2016	0.007	0.004	0.010	04:00	0	97.2
16/02/2016	0.006	0.004	0.011	10:00	0	97.2
17/02/2016	0.007	0.003	0.013	06:00	0	96.2
18/02/2016	0.004	0.003	0.008	06:00	0	97.2
19/02/2016	0.004	0.003	0.008	05:00	0	97.2
20/02/2016	0.006	0.004	0.010	06:00	0	97.2
21/02/2016	0.004	0.002	0.006	06:00	0	97.2
22/02/2016	0.005	0.003	0.009	06:00	0	88.5
23/02/2016	0.006	0.004	0.012	22:00	0	95.8
24/02/2016	0.008	0.005	0.013	06:00	0	97.2
25/02/2016	0.008	0.004	0.012	23:00	0	97.2
26/02/2016	0.009	0.004	0.012	07:00	0	97.2
27/02/2016	0.005	0.004	0.007	02:00	0	97.2
28/02/2016	0.004	0.003	0.006	12:00	0	97.2
29/02/2016	0.005	0.003	0.010	07:00	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 February 2016								
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		
1/02/2016	0.2	0.2	0.2	12:00	0.2	13:00	0	96.9
2/02/2016	0.2	0.1	0.3	07:00	0.3	12:00	0	96.9
3/02/2016	0.2	0.1	0.3	22:00	0.2	23:00	0	96.9
4/02/2016	0.2	0.1	0.3	07:00	0.3	08:00	0	96.9
5/02/2016	0.2	0.1	0.2	07:00	0.2	02:00	0	96.9
6/02/2016	0.1	0.1	0.2	22:00	0.1	23:00	0	96.9
7/02/2016	0.1	0.1	0.1	00:00	0.1	01:00	0	96.9
8/02/2016	0.1	0.1	0.2	06:00	0.1	08:00	0	96.9
9/02/2016	0.1	0.1	0.2	06:00	0.1	08:00	0	96.5
10/02/2016	0.1	0.1	0.2	08:00	0.1	21:00	0	96.9
11/02/2016	0.1	0.1	0.2	06:00	0.2	08:00	0	96.9
12/02/2016	0.1	0.1	0.2	07:00	0.1	00:00	0	96.5
13/02/2016	0.1	0.1	0.2	12:00	0.1	13:00	0	96.5
14/02/2016	0.1	0.1	0.3	23:00	0.2	23:00	0	96.5
15/02/2016	0.2	0.1	0.2	06:00	0.2	05:00	0	96.5
16/02/2016	0.2	0.1	0.2	06:00	0.2	13:00	0	96.5
17/02/2016	0.2	0.1	0.3	06:00	0.2	08:00	0	95.5
18/02/2016	0.2	0.1	0.3	06:00	0.2	12:00	0	96.5
19/02/2016	0.2	0.2	0.2	17:00	0.2	00:00	0	96.5
20/02/2016	0.1	0.1	0.2	06:00	0.2	07:00	0	96.5
21/02/2016	0.1	0.1	0.2	06:00	0.2	07:00	0	96.5
22/02/2016	0.1	0.1	0.2	06:00	0.1	07:00	0	87.8
¹ 23/02/2016	-	0.1	0.2	07:00	0.1	08:00	0	49.7
24/02/2016	0.1	0.1	0.2	06:00	0.1	23:00	0	96.5
25/02/2016	0.2	0.1	0.3	23:00	0.2	23:00	0	96.5
26/02/2016	0.2	0.1	0.3	06:00	0.2	02:00	0	96.5
27/02/2016	0.2	0.1	0.2	22:00	0.2	23:00	0	96.5
28/02/2016	0.2	0.1	0.2	22:00	0.2	23:00	0	96.5
29/02/2016	0.1	0.1	0.2	07:00	0.2	00:00	0	96.5

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

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

¹ Loss of data due to instrument fault

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary February 2016						
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		
1/02/2016	10.2	4.5	16.8	15:00	0	95.8
2/02/2016	10.0	5.3	16.9	08:00	0	100.0
3/02/2016	8.9	3.3	17.8	14:00	0	100.0
4/02/2016	10.9	5.3	16.3	07:00	0	100.0
5/02/2016	10.3	6.2	14.9	20:00	0	100.0
6/02/2016	7.8	2.5	11.9	01:00	0	100.0
7/02/2016	11.3	4.9	18.8	21:00	0	100.0
8/02/2016	12.6	5.2	19.9	03:00	0	100.0
9/02/2016	10.8	6.2	16.1	07:00	0	100.0
10/02/2016	11.9	7.5	14.6	19:00	0	100.0
11/02/2016	12.4	8.4	17.0	20:00	0	100.0
12/02/2016	12.2	6.4	18.6	01:00	0	100.0
13/02/2016	11.5	6.6	17.7	21:00	0	100.0
14/02/2016	11.5	6.3	22.7	23:00	0	100.0
15/02/2016	13.1	4.6	29.2	00:00	0	100.0
16/02/2016	12.1	6.5	18.8	16:00	0	100.0
17/02/2016	16.0	8.0	30.8	04:00	0	100.0
18/02/2016	9.5	5.1	18.3	07:00	0	100.0
19/02/2016	9.6	6.2	16.6	20:00	0	100.0
20/02/2016	11.1	4.0	17.6	09:00	0	100.0
21/02/2016	12.3	6.1	18.4	01:00	0	100.0
22/02/2016	12.1	3.8	17.8	18:00	0	83.3
23/02/2016	12.2	3.5	18.1	03:00	0	95.8
24/02/2016	13.7	6.0	17.8	18:00	0	100.0
25/02/2016	11.9	8.2	16.7	00:00	0	100.0
26/02/2016	14.6	9.1	22.2	17:00	0	100.0
27/02/2016	12.7	8.1	16.9	03:00	0	100.0
28/02/2016	9.7	5.3	13.7	18:00	0	100.0
29/02/2016	12.4	6.5	18.2	17:00	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 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary February 2016						
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		
1/02/2016	16.6	6.3	32.1	19:00	0	100.0
2/02/2016	17.0	3.1	30.9	12:00	0	100.0
3/02/2016	13.2	4.7	27.2	12:00	0	95.8
4/02/2016	14.4	10.4	18.8	02:00	0	95.8
5/02/2016	14.8	11.2	17.6	07:00	0	100.0
6/02/2016	11.2	8.0	15.4	16:00	0	100.0
7/02/2016	15.6	6.5	29.1	19:00	0	100.0
8/02/2016	18.9	9.4	28.7	06:00	0	100.0
9/02/2016	17.8	9.4	30.7	14:00	0	100.0
10/02/2016	15.4	10.6	26.8	14:00	0	100.0
11/02/2016	18.3	10.8	26.2	14:00	0	100.0
12/02/2016	17.0	11.0	21.9	13:00	0	100.0
13/02/2016	16.4	10.1	26.3	10:00	0	100.0
14/02/2016	23.5	8.7	112.0	00:00	0	100.0
15/02/2016	16.0	6.2	29.5	13:00	0	100.0
16/02/2016	17.1	4.7	36.6	15:00	0	100.0
17/02/2016	21.7	9.1	35.2	03:00	0	95.8
18/02/2016	14.1	6.4	18.3	06:00	0	100.0
19/02/2016	13.4	4.5	18.6	07:00	0	100.0
20/02/2016	18.3	6.2	30.1	13:00	0	100.0
21/02/2016	16.9	9.2	21.6	19:00	0	100.0
22/02/2016	17.8	12.3	24.9	18:00	0	87.5
23/02/2016	19.5	11.7	25.2	08:00	0	95.8
24/02/2016	21.6	15.8	31.5	15:00	0	100.0
25/02/2016	19.0	10.7	31.6	11:00	0	100.0
26/02/2016	23.5	9.9	43.8	15:00	0	100.0
27/02/2016	22.2	8.5	36.1	12:00	0	100.0
28/02/2016	16.4	6.0	47.2	23:00	0	100.0
29/02/2016	18.0	5.4	50.0	00:00	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 February 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.028	02/02/2016 12:00	96.8
CO	ppm	8.0	8 Hours	0.5	17/02/2016 10:00	95.0
PM _{2.5}	µg/m ³	25	24 Hours	7.8	29/02/2016	92.4
PM ₁₀	µg/m ³	50	24 Hours	22.8	26/02/2016	82.5

Table 19 Station 4 Monthly Summary

Graphical Representations

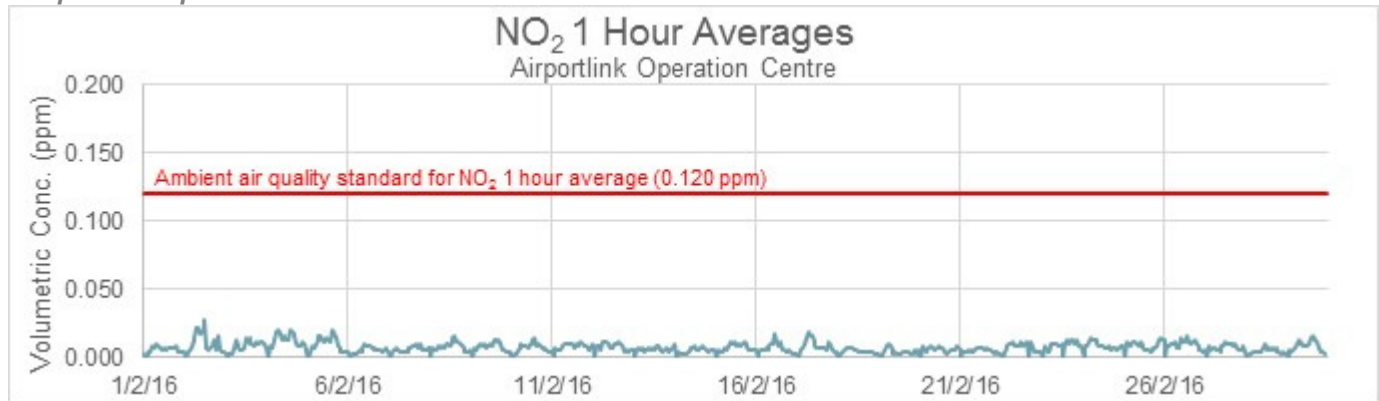


Figure 13 Station 4 Nitrogen Dioxide 1hr averages

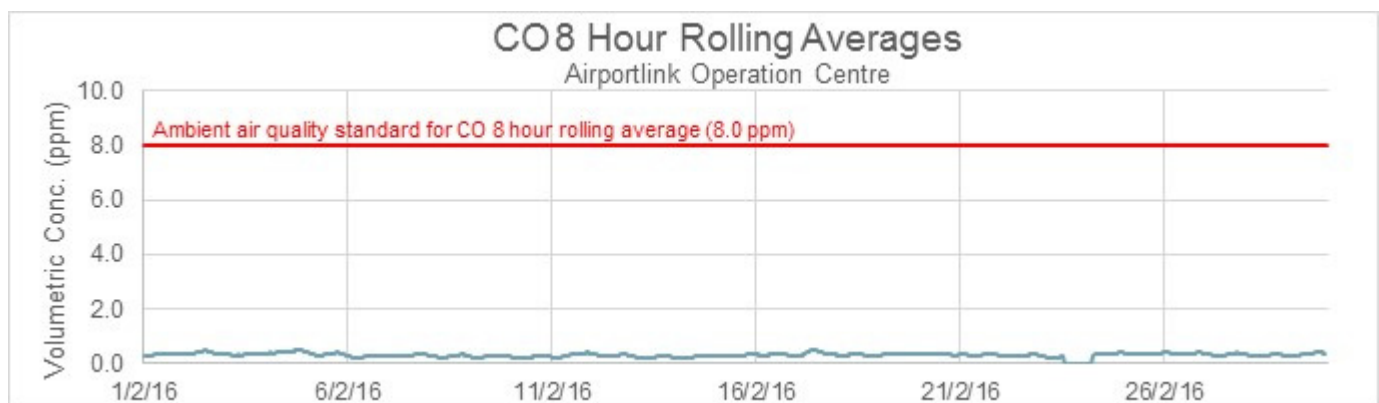


Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

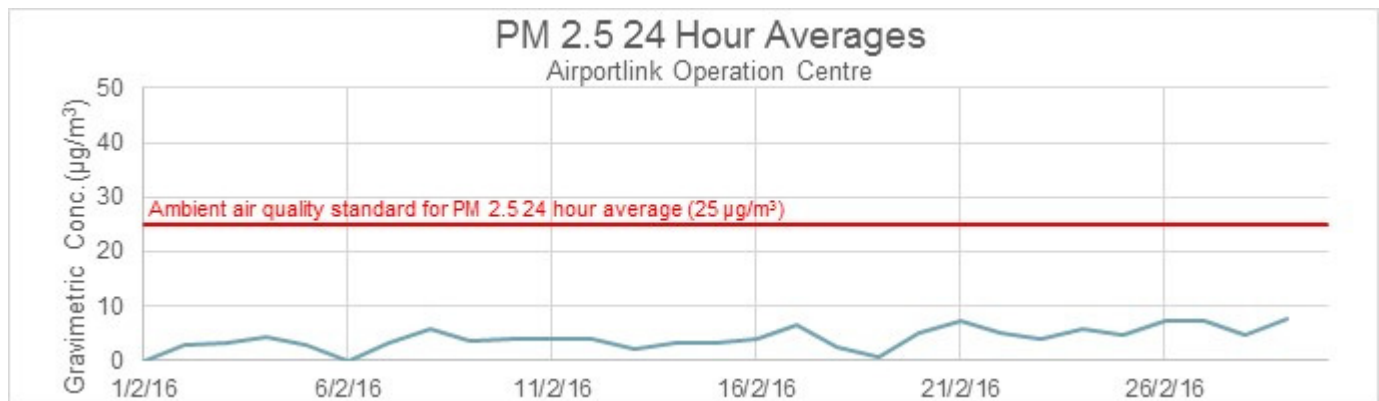


Figure 15 Station 4 PM2.5 24hr averages

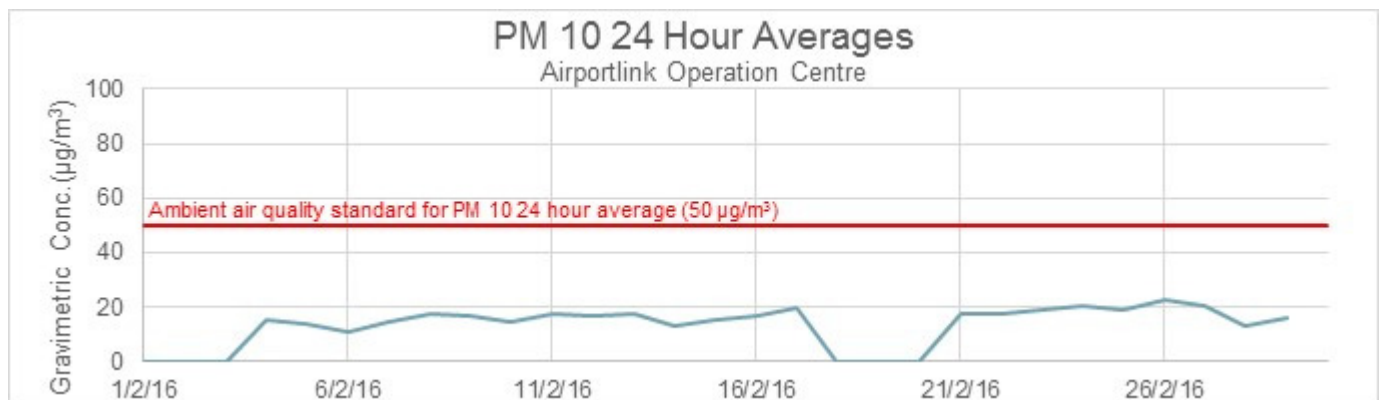


Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary February 2016

Date	24hr Avg (ppm)	1 hr Avgs		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/02/2016	0.006	0.003	0.010	07:00	0	97.2
2/02/2016	0.011	0.004	0.028	12:00	0	97.2
3/02/2016	0.008	0.002	0.015	14:00	0	97.2
4/02/2016	0.013	0.006	0.021	07:00	0	97.2
5/02/2016	0.010	0.004	0.021	15:00	0	97.2
6/02/2016	0.006	0.002	0.009	10:00	0	97.2
7/02/2016	0.006	0.003	0.010	19:00	0	97.2
8/02/2016	0.009	0.004	0.017	15:00	0	97.2
9/02/2016	0.008	0.004	0.013	15:00	0	97.2
10/02/2016	0.007	0.002	0.014	14:00	0	97.2
11/02/2016	0.008	0.004	0.011	17:00	0	97.2
12/02/2016	0.008	0.004	0.012	15:00	0	97.2
13/02/2016	0.006	0.004	0.009	13:00	0	97.2
14/02/2016	0.005	0.002	0.010	00:00	0	97.2
15/02/2016	0.008	0.004	0.011	09:00	0	97.2
16/02/2016	0.007	0.003	0.018	11:00	0	97.2
17/02/2016	0.008	0.002	0.018	07:00	0	97.2
18/02/2016	0.005	0.002	0.007	05:00	0	97.2
19/02/2016	0.004	0.003	0.011	06:00	0	97.2
20/02/2016	0.006	0.003	0.009	02:00	0	97.2
21/02/2016	0.005	0.003	0.007	13:00	0	97.2
22/02/2016	0.008	0.003	0.012	15:00	0	91.7
23/02/2016	0.009	0.004	0.013	17:00	0	91.7
24/02/2016	0.009	0.004	0.015	05:00	0	97.2
25/02/2016	0.009	0.005	0.014	22:00	0	97.2
26/02/2016	0.010	0.004	0.017	14:00	0	97.2
27/02/2016	0.008	0.004	0.011	12:00	0	97.2
28/02/2016	0.005	0.002	0.010	11:00	0	97.2
29/02/2016	0.008	0.002	0.016	16:00	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 February 2016

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		
1/02/2016	0.3	0.3	0.4	07:00	0.4	12:00	0	96.9
2/02/2016	0.4	0.3	0.6	07:00	0.5	12:00	0	96.9
3/02/2016	0.3	0.3	0.4	21:00	0.4	22:00	0	96.9
4/02/2016	0.4	0.3	0.6	14:00	0.5	21:00	0	96.9
5/02/2016	0.3	0.2	0.5	15:00	0.4	00:00	0	96.9
6/02/2016	0.3	0.2	0.4	10:00	0.3	16:00	0	96.9
7/02/2016	0.3	0.3	0.4	15:00	0.4	19:00	0	96.9
8/02/2016	0.3	0.2	0.4	15:00	0.3	19:00	0	96.9
9/02/2016	0.3	0.2	0.4	17:00	0.3	18:00	0	96.9
10/02/2016	0.2	0.2	0.3	17:00	0.3	19:00	0	96.9
11/02/2016	0.3	0.2	0.4	17:00	0.4	21:00	0	96.9
12/02/2016	0.3	0.2	0.4	15:00	0.4	00:00	0	96.9
13/02/2016	0.2	0.2	0.3	13:00	0.3	16:00	0	96.9
14/02/2016	0.3	0.2	0.3	16:00	0.3	19:00	0	96.9
15/02/2016	0.3	0.2	0.4	18:00	0.3	21:00	0	96.9
16/02/2016	0.3	0.2	0.4	06:00	0.3	13:00	0	96.9
17/02/2016	0.4	0.2	0.6	06:00	0.5	10:00	0	96.2
18/02/2016	0.3	0.3	0.4	06:00	0.3	11:00	0	96.9
19/02/2016	0.4	0.3	0.4	08:00	0.4	08:00	0	96.9
20/02/2016	0.3	0.3	0.4	07:00	0.4	02:00	0	96.9
21/02/2016	0.3	0.2	0.4	17:00	0.4	18:00	0	96.9
22/02/2016	0.3	0.2	0.4	07:00	0.3	19:00	0	91.3
¹ 23/02/2016	-	0.2	0.3	07:00	0.3	00:00	0	50.0
24/02/2016	0.4	0.3	0.5	08:00	0.4	23:00	0	95.8
25/02/2016	0.4	0.3	0.5	22:00	0.4	23:00	0	96.9
26/02/2016	0.4	0.3	0.5	19:00	0.4	01:00	0	96.9
27/02/2016	0.3	0.3	0.4	17:00	0.4	19:00	0	96.9
28/02/2016	0.3	0.2	0.4	18:00	0.3	18:00	0	96.9
29/02/2016	0.4	0.2	0.5	16:00	0.4	19:00	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 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM_{2.5} Summary February 2016

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 1/02/2016	-	-1.0	8.7	21:00	0	70.8
2/02/2016	2.9	-1.0	8.9	08:00	0	95.8
3/02/2016	3.3	-0.6	8.0	14:00	0	83.3
4/02/2016	4.4	1.0	7.9	11:00	0	100.0
5/02/2016	2.9	-1.0	6.9	18:00	0	91.7
¹ 6/02/2016	-	-1.0	4.0	03:00	0	70.8
7/02/2016	3.1	-1.0	7.2	23:00	0	83.3
8/02/2016	5.9	0.0	17.1	08:00	0	100.0
9/02/2016	3.6	-0.5	11.7	08:00	0	95.8
10/02/2016	4.0	-1.0	9.7	09:00	0	100.0
11/02/2016	4.2	1.2	6.9	08:00	0	100.0
12/02/2016	4.0	-0.9	8.0	04:00	0	95.8
13/02/2016	2.3	-0.5	5.6	04:00	0	87.5
14/02/2016	3.2	-1.0	25.6	23:00	0	87.5
15/02/2016	3.1	0.1	11.5	00:00	0	100.0
16/02/2016	4.0	-1.0	9.6	16:00	0	91.7
17/02/2016	6.4	0.0	16.4	07:00	0	95.8
18/02/2016	2.4	-1.0	7.8	07:00	0	87.5
19/02/2016	0.7	-1.0	2.9	09:00	0	91.7
20/02/2016	5.1	0.2	18.8	09:00	0	100.0
21/02/2016	7.2	1.2	31.5	13:00	0	100.0
22/02/2016	5.2	0.5	14.1	14:00	0	79.2
23/02/2016	4.0	0.0	12.5	15:00	0	79.2
24/02/2016	5.9	0.4	16.5	09:00	0	95.8
25/02/2016	4.6	-1.0	15.0	09:00	0	100.0
26/02/2016	7.3	2.5	17.8	14:00	0	100.0
27/02/2016	7.2	3.1	11.8	18:00	0	100.0
28/02/2016	4.7	1.0	8.9	01:00	0	95.8
29/02/2016	7.8	3.0	16.1	02:00	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 intermittent instrument fault

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary February 2016

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 1/02/2016	-	-	-	-	0	0.0
¹ 2/02/2016	-	-	-	-	0	0.0
¹ 3/02/2016	-	11.9	33.9	14:00	0	33.3
4/02/2016	15.0	7.0	22.5	04:00	0	91.7
5/02/2016	13.9	7.5	19.5	16:00	0	100.0
6/02/2016	10.7	6.4	20.2	11:00	0	100.0
7/02/2016	14.4	6.4	27.3	20:00	0	100.0
8/02/2016	17.8	8.4	22.4	07:00	0	100.0
9/02/2016	16.7	7.7	25.6	14:00	0	100.0
10/02/2016	14.3	10.2	24.7	14:00	0	100.0
11/02/2016	17.3	8.3	26.8	14:00	0	100.0
12/02/2016	17.1	10.8	29.4	08:00	0	100.0
13/02/2016	17.8	9.2	104.1	10:00	0	100.0
14/02/2016	13.4	9.5	33.4	22:00	0	100.0
15/02/2016	15.3	6.4	32.2	13:00	0	100.0
16/02/2016	16.7	8.8	30.6	15:00	0	83.3
17/02/2016	19.5	8.3	26.4	13:00	0	70.8
¹ 18/02/2016	-	8.4	17.8	06:00	0	62.5
¹ 19/02/2016	-	-	-	-	0	0.0
¹ 20/02/2016	-	13.4	25.2	13:00	0	62.5
21/02/2016	17.5	9.1	38.9	12:00	0	100.0
22/02/2016	17.7	12.2	27.5	15:00	0	91.7
23/02/2016	19.2	12.4	24.2	18:00	0	95.8
24/02/2016	20.3	16.9	28.6	15:00	0	100.0
25/02/2016	19.1	14.3	29.0	12:00	0	100.0
26/02/2016	22.8	12.8	40.5	15:00	0	100.0
27/02/2016	20.5	9.9	35.0	13:00	0	100.0
28/02/2016	12.8	6.6	19.3	18:00	0	100.0
29/02/2016	16.0	5.0	24.3	08:00	0	100.0

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

¹ Loss of data due to instrument fault

Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary February 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.021	02/02/2016 08:00	94.4
CO	ppm	8.0	8 Hours	0.5	01/02/2016 23:00	93.8
PM _{2.5}	µg/m ³	25	24 Hours	18.5	10/02/2016	88.4
PM ₁₀	µg/m ³	50	24 Hours	37.4	26/02/2016	96.6

Table 24 Station 5 Monthly Summary

Graphical Representations

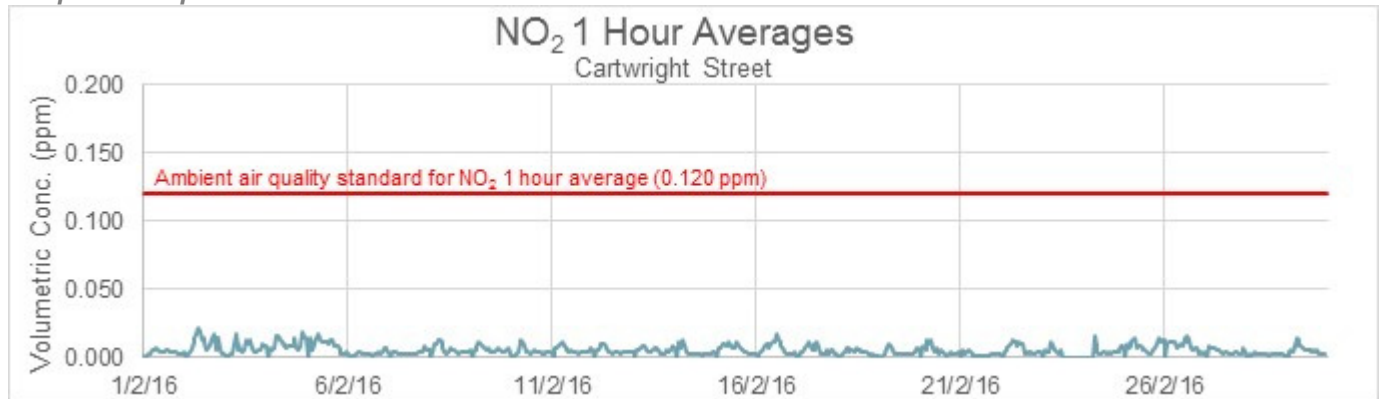


Figure 17 Station 5 Dioxide 1hr averages

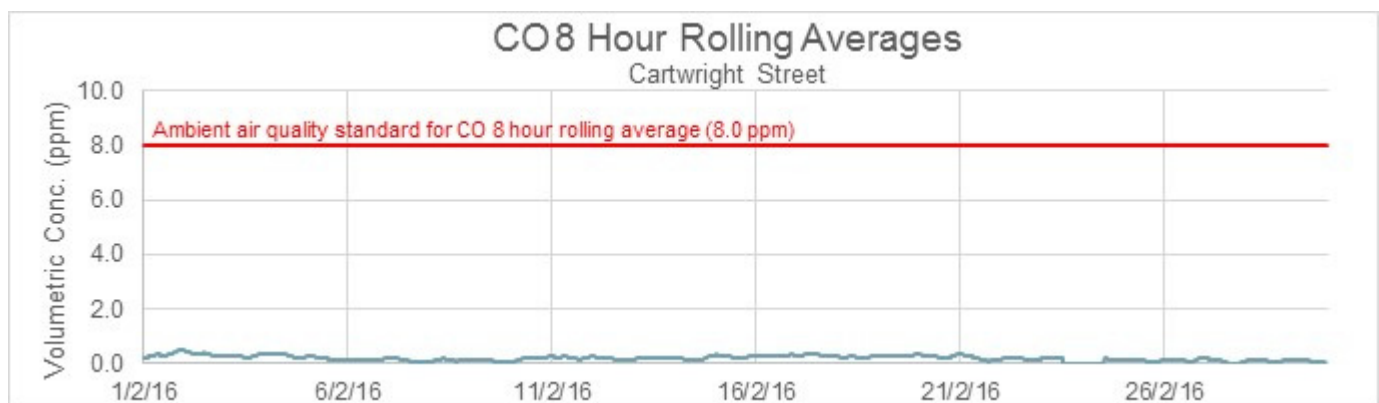


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

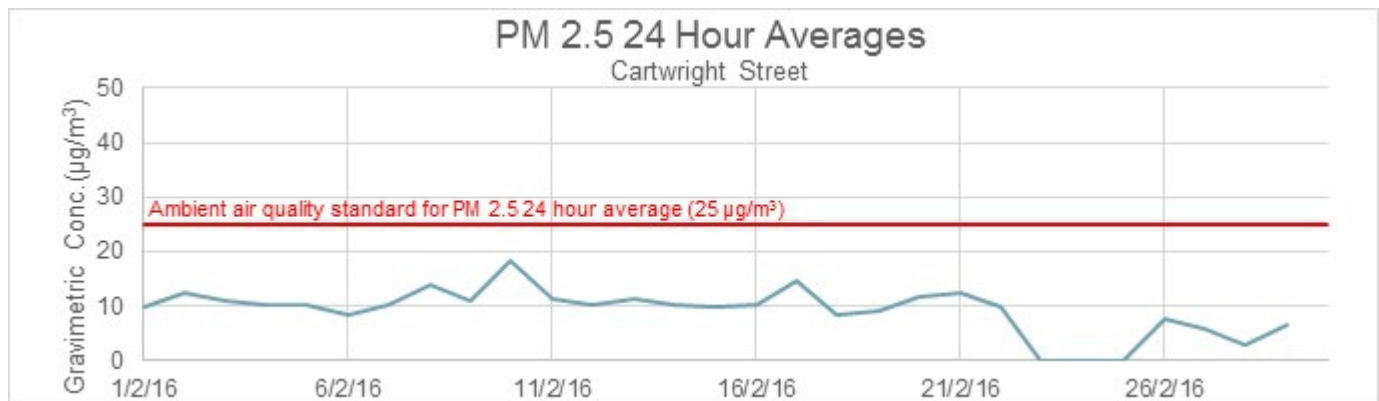


Figure 19 Station 5 PM2.5 24hr averages

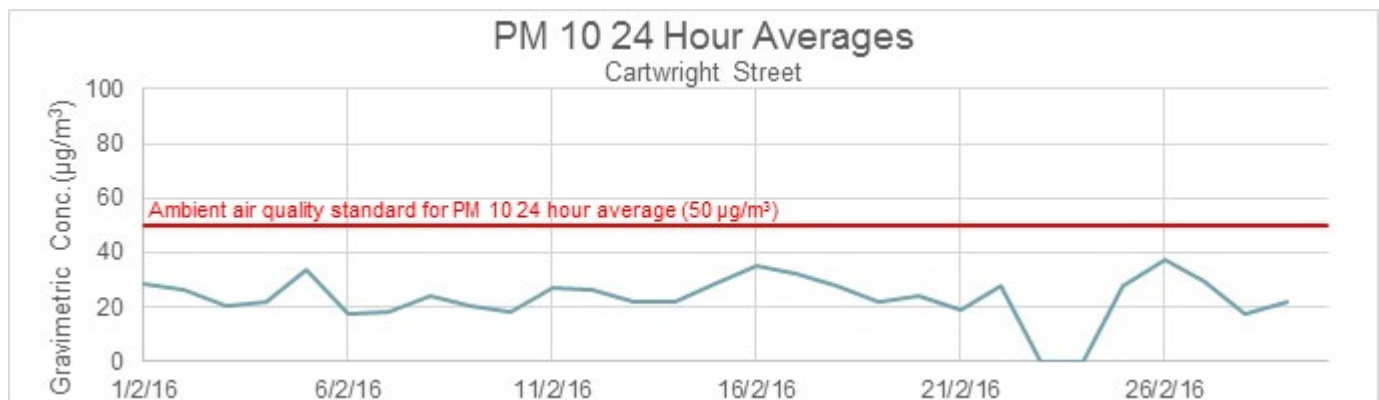


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary February 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2016	0.004	0.001	0.007	07:00	0	97.2
2/02/2016	0.010	0.002	0.021	08:00	0	97.2
3/02/2016	0.007	0.001	0.017	06:00	0	97.2
4/02/2016	0.010	0.006	0.018	21:00	0	97.2
5/02/2016	0.010	0.003	0.018	07:00	0	97.2
6/02/2016	0.003	0.001	0.007	22:00	0	97.2
7/02/2016	0.004	0.002	0.008	21:00	0	97.2
8/02/2016	0.006	0.003	0.013	06:00	0	97.2
9/02/2016	0.006	0.003	0.012	05:00	0	97.2
10/02/2016	0.005	0.002	0.013	06:00	0	97.2
11/02/2016	0.005	0.003	0.011	06:00	0	97.2
12/02/2016	0.005	0.003	0.010	07:00	0	97.2
13/02/2016	0.006	0.002	0.009	06:00	0	97.2
14/02/2016	0.004	0.002	0.013	05:00	0	97.2
15/02/2016	0.007	0.003	0.012	08:00	0	96.9
16/02/2016	0.007	0.003	0.018	12:00	0	97.2
17/02/2016	0.005	0.001	0.012	12:00	0	97.2
18/02/2016	0.004	0.001	0.008	11:00	0	97.2
19/02/2016	0.004	0.001	0.010	06:00	0	97.2
20/02/2016	0.005	0.002	0.013	07:00	0	96.5
21/02/2016	0.003	0.001	0.006	02:00	0	97.2
22/02/2016	0.006	0.002	0.014	07:00	0	96.2
¹ 23/02/2016	-	0.003	0.012	05:00	0	46.2
¹ 24/02/2016	-	0.003	0.015	07:00	0	68.4
25/02/2016	0.008	0.002	0.015	07:00	0	97.2
26/02/2016	0.009	0.003	0.017	14:00	0	97.2
27/02/2016	0.005	0.003	0.008	02:00	0	97.2
28/02/2016	0.003	0.002	0.004	05:00	0	97.2
29/02/2016	0.006	0.001	0.015	06:00	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 system maintenance

Table 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary February 2016								
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		
1/02/2016	0.4	0.2	0.5	19:00	0.5	23:00	0	96.5
2/02/2016	0.3	0.2	0.5	06:00	0.5	00:00	0	96.9
3/02/2016	0.3	0.2	0.4	19:00	0.4	23:00	0	96.2
4/02/2016	0.3	0.2	0.4	06:00	0.4	00:00	0	96.9
5/02/2016	0.2	0.1	0.3	06:00	0.3	02:00	0	96.9
6/02/2016	0.2	0.1	0.3	21:00	0.2	23:00	0	96.9
7/02/2016	0.1	0.0	0.2	00:00	0.2	01:00	0	96.9
8/02/2016	0.1	0.1	0.2	06:00	0.2	08:00	0	96.9
9/02/2016	0.1	0.0	0.2	06:00	0.2	08:00	0	96.9
10/02/2016	0.2	0.1	0.3	18:00	0.3	23:00	0	96.2
11/02/2016	0.2	0.1	0.3	06:00	0.3	08:00	0	95.5
12/02/2016	0.2	0.1	0.3	06:00	0.3	00:00	0	96.9
13/02/2016	0.2	0.2	0.2	06:00	0.2	08:00	0	96.9
14/02/2016	0.2	0.1	0.4	22:00	0.3	23:00	0	96.2
15/02/2016	0.2	0.1	0.3	06:00	0.3	01:00	0	96.2
16/02/2016	0.3	0.2	0.4	06:00	0.3	21:00	0	96.5
17/02/2016	0.3	0.2	0.4	06:00	0.4	10:00	0	95.5
18/02/2016	0.3	0.1	0.4	19:00	0.3	23:00	0	96.2
19/02/2016	0.3	0.2	0.4	23:00	0.3	23:00	0	96.2
20/02/2016	0.3	0.1	0.4	07:00	0.3	23:00	0	96.5
21/02/2016	0.2	0.1	0.3	04:00	0.3	01:00	0	96.9
22/02/2016	0.2	0.1	0.3	07:00	0.2	07:00	0	96.9
¹ 23/02/2016	-	0.1	0.3	06:00	0.2	08:00	0	45.8
¹ 24/02/2016	-	0.1	0.4	07:00	0.2	13:00	0	68.4
25/02/2016	0.1	0.0	0.3	06:00	0.2	00:00	0	96.9
26/02/2016	0.1	0.0	0.3	18:00	0.2	22:00	0	96.2
27/02/2016	0.1	0.0	0.2	05:00	0.2	00:00	0	96.9
28/02/2016	0.1	0.0	0.2	06:00	0.1	07:00	0	96.9
29/02/2016	0.1	0.0	0.2	06:00	0.2	01:00	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 system maintenance

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary February 2016						
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		
1/02/2016	10.0	-0.5	35.9	18:00	0	100.0
2/02/2016	12.5	1.8	24.8	06:00	0	87.5
3/02/2016	10.8	1.0	33.0	16:00	0	100.0
4/02/2016	10.4	1.6	21.3	19:00	0	100.0
5/02/2016	10.4	3.6	23.9	05:00	0	100.0
6/02/2016	8.2	1.8	26.6	17:00	0	100.0
7/02/2016	10.3	1.0	25.7	20:00	0	95.8
8/02/2016	14.0	7.8	23.0	11:00	0	91.7
9/02/2016	10.9	5.5	24.0	18:00	0	91.7
10/02/2016	18.5	1.8	173.4	05:00	0	95.8
11/02/2016	11.5	5.6	36.4	18:00	0	91.7
12/02/2016	10.3	1.0	37.3	17:00	0	91.7
13/02/2016	11.4	1.9	22.0	18:00	0	95.8
14/02/2016	10.4	1.0	34.7	18:00	0	95.8
15/02/2016	10.0	2.6	37.4	18:00	0	95.8
16/02/2016	10.4	2.1	38.3	17:00	0	95.8
17/02/2016	14.7	3.1	30.5	13:00	0	95.8
18/02/2016	8.3	0.1	35.2	18:00	0	95.8
19/02/2016	9.3	5.0	33.1	16:00	0	91.7
20/02/2016	11.8	1.1	35.0	17:00	0	100.0
21/02/2016	12.4	5.0	23.0	16:00	0	91.7
22/02/2016	9.9	4.4	28.9	08:00	0	91.7
¹ 23/02/2016	-	3.4	18.0	11:00	0	45.8
¹ 24/02/2016	-	-1.0	20.3	17:00	0	29.2
¹ 25/02/2016	-	-1.0	21.4	18:00	0	66.7
26/02/2016	7.7	-1.0	23.0	17:00	0	75.0
27/02/2016	5.7	-0.9	32.7	18:00	0	95.8
28/02/2016	3.1	-1.0	15.6	17:00	0	75.0
29/02/2016	6.5	-0.8	23.0	17:00	0	79.2

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 system maintenance

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary February 2016						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/02/2016	28.2	10.3	70.7	15:00	0	100.0
2/02/2016	26.3	9.8	43.6	14:00	0	100.0
3/02/2016	20.8	4.5	67.7	15:00	0	100.0
4/02/2016	21.7	8.3	40.0	14:00	0	100.0
5/02/2016	33.8	10.5	316.2	15:00	0	100.0
6/02/2016	17.5	7.2	27.5	16:00	0	100.0
7/02/2016	18.1	5.1	36.5	20:00	0	100.0
8/02/2016	24.1	10.5	36.4	10:00	0	100.0
9/02/2016	20.1	8.1	33.0	14:00	0	100.0
10/02/2016	18.4	11.5	30.1	08:00	0	100.0
11/02/2016	27.3	10.0	125.1	15:00	0	100.0
12/02/2016	26.0	13.6	50.3	09:00	0	100.0
13/02/2016	22.0	13.0	30.8	14:00	0	100.0
14/02/2016	22.0	12.4	44.7	23:00	0	100.0
15/02/2016	28.8	9.2	88.0	12:00	0	100.0
16/02/2016	34.9	14.0	101.2	14:00	0	100.0
17/02/2016	32.6	16.0	55.7	08:00	0	95.8
18/02/2016	27.9	7.4	55.1	15:00	0	100.0
19/02/2016	21.8	11.4	39.0	10:00	0	100.0
20/02/2016	23.8	12.0	56.4	08:00	0	100.0
21/02/2016	19.0	8.6	28.2	06:00	0	100.0
22/02/2016	27.9	14.5	87.9	14:00	0	100.0
¹ 23/02/2016	-	11.1	31.5	09:00	0	45.8
¹ 24/02/2016	-	19.5	48.0	13:00	0	58.3
25/02/2016	28.1	13.0	46.5	13:00	0	100.0
26/02/2016	37.4	15.0	65.2	15:00	0	100.0
27/02/2016	29.3	14.2	42.2	15:00	0	100.0
28/02/2016	17.4	8.3	28.0	22:00	0	100.0
29/02/2016	22.3	6.4	33.0	11:00	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 system maintenance

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 February 2016					
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 ($\mu\text{g}/\text{m}^3$)
06/02/2016	17	17	16	20	17
12/02/2016	36	37	33	39	55
18/02/2016	26	27	26	27	48
24/02/2016	37	--*	34	38	39
Monthly Average	29.0	27.0	27.3	31.0	39.8

* Sample did not finish running due to power failure

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
1/02/2016 00:00	1/02/2016 13:25:00	PM ₁₀	Instrument fault	14/03/2016	CP
2/02/2016 03:15:00	29/02/2016 23:55:00	PM _{2.5}	Intermittent instrument faults – error code logged	14/03/2016	CP
2/02/2016 14:55:00	29/02/2016 22:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	14/03/2016	CP
23/02/2016 09:10:00	23/02/2016 10:40:00	All parameters	Maintenance	14/03/2016	CP
24/02/2016 22:10:00	24/02/2016 22:10:00	NO, NO ₂ , NO _x	Power interruption	14/03/2016	CP
24/02/2016 22:15:00	24/02/2016 22:45:00	PM ₁₀	Instrument warm up after power interruption	14/03/2016	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
1/02/2016 00:25:00	29/02/2016 20:35:00	NO, NO ₂ , NO _x	Intermittent communication errors	14/03/2016	CP
1/02/2016 16:30:00	23/02/2016 17:40:00	PM _{2.5}	Intermittent noisy data	14/03/2016	CP
3/02/2016 01:45:00	3/02/2016 07:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
3/02/2016 19:45:00	4/02/2016 21:45:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
6/02/2016 03:50:00	6/02/2016 13:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
10/02/2016 15:45:00	10/02/2016 17:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
13/02/2016 11:45:00	13/02/2016 17:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
14/02/2016 17:45:00	15/02/2016 07:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
16/02/2016 01:45:00	16/02/2016 11:45:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
18/02/2016 05:45:00	18/02/2016 09:35:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
18/02/2016 23:45:00	19/02/2016 03:45:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
19/02/2016 05:45:00	19/02/2016 09:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
20/02/2016 01:45:00	20/02/2016 13:45:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
21/02/2016 05:45:00	21/02/2016 09:45:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
22/02/2016 10:45:00	22/02/2016 12:20:00	All parameters	Maintenance	14/03/2016	CP
22/02/2016 15:40:00	22/02/2016 15:50:00	All parameters	Power interruption	14/03/2016	CP
23/02/2016 05:45:00	23/02/2016 11:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	CP
23/02/2016 12:45:00	23/02/2016 12:45:00	All parameters	Power interruption	14/03/2016	CP
23/02/2016 14:30:00	23/02/2016 17:25:00	All parameters	Maintenance	14/03/2016	CP
24/02/2016 08:45:00	24/02/2016 09:10:00	All parameters	Maintenance	14/03/2016	CP
28/02/2016 01:45:00	28/02/2016 03:40:00	PM _{2.5}	Instrument fault, PM _{2.5} > PM ₁₀	14/03/2016	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
1/02/2016 12:15:00	29/02/2016 23:25:00	PM _{2.5}	Intermittent instrument faults – error code logged	14/03/2016	CP
2/02/2016 13:10:00	28/02/2016 17:10:00	PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	14/03/2016	CP
17/02/2016 21:30:00	17/02/2016 21:40:00	All parameters	Power interruption	14/03/2016	CP
17/02/2016 21:45:00	17/02/2016 22:10:00	PM ₁₀	Instrument warm up after power interruption	14/03/2016	CP
22/02/2016 13:25:00	22/02/2016 15:25:00	All parameters	Maintenance	14/03/2016	CP
23/02/2016 12:45:00	23/02/2016 13:00:00	All parameters	Power interruption	14/03/2016	CP
23/02/2016 13:05:00	23/02/2016 13:25:00	PM ₁₀	Instrument warm up after power interruption	14/03/2016	CP
23/02/2016 13:05:00	23/02/2016 23:55:00	CO	Instrument fault after power interruption	14/03/2016	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
1/02/2016 00:00	3/02/2016 13:40:00	PM ₁₀	Instrument fault	14/03/2016	CP
1/02/2016 00:55:00	29/02/2016 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	14/03/2016	CP
1/02/2016 01:00:00	28/02/2016 17:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	14/03/2016	CP
16/02/2016 19:55:00	17/02/2016 06:40:00	PM ₁₀	Instrument fault	14/03/2016	CP
18/02/2016 15:35:00	20/02/2016 09:00:00	PM ₁₀	Instrument fault	14/03/2016	CP
22/02/2016 16:30:00	22/02/2016 18:00:00	All parameters	Scheduled maintenance	14/03/2016	CP
23/02/2016 12:45:00	23/02/2016 14:00:00	All parameters	Power interruption	14/03/2016	CP
23/02/2016 14:05:00	24/02/2016 00:10:00	CO	Instrument fault	14/03/2016	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
1/02/2016 00:30:00	29/02/2016 23:05:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	14/03/2016	CP
2/02/2016 14:55:00	29/02/2016 23:50:00	PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	14/03/2016	CP
23/02/2016 11:45:00	24/02/2016 06:55:00	All channels	Maintenance	14/03/2016	CP
24/02/2016 09:45:00	24/02/2016 10:15:00	All channels	Maintenance	14/03/2016	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table