



Ventia Pty Limited

AirportlinkM7 Ambient Air Quality Monitoring Report

November 2015

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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

BS – Bryden St

Executive Summary

Exceedence Reporting

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

AirportlinkM7 AQMS Exceedence Reporting November 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences November 2015				
			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 Exceedence 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 (Bryden 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	Station 1	Station 2	Last Calibration Date		
						Station 3	Station 4	Station 5
NO NO ₂ NO _x	ppm	2.78%	AS 3580.5.1	30/11/2015	25/11/2015	30/11/2015	24/11/2015	24/11/2015
CO	ppm	2.56%	AS 3580.7.1	30/11/2015	25/11/2015	30/11/2015	24/11/2015	24/11/2015
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	30/11/2015*	25/11/2015	30/11/2015*	24/11/2015*	24/11/2015
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	30/11/2015	25/11/2015	30/11/2015	24/11/2015	24/11/2015
TSP	µg/m ³	7.34%	AS 3580.9.3	30/11/2015	25/11/2015	30/11/2015	24/11/2015	24/11/2015

Table 3 Instrumentation Details

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 November 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.004	0.3	4.9	8.6
Min 1hr Average	-0.002	0.0	-1.0	1.8
Max 1hr Average	0.021	0.8	25.9	26.2
Max 8hr Rolling Average	N/A	0.5	N/A	N/A
Max 24hr Average	N/A	N/A	9.5	12.6
Capture Rate (%)	94.0	88.1	80.8	73.3

Table 4 Station 1 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
Maximum allowable NO₂ 1 hour average is 0.12 ppm
Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary November 2015

Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/11/2015	0.004	-0.001	0.018	00:00	0	97.2
2/11/2015	0.003	0.001	0.013	06:00	0	97.2
3/11/2015	0.004	0.001	0.011	05:00	0	97.2
4/11/2015	0.005	0.000	0.018	06:00	0	97.2
5/11/2015	0.004	-0.001	0.011	06:00	0	97.2
6/11/2015	0.006	-0.001	0.015	07:00	0	95.1
¹ 7/11/2015	-	0.001	0.021	19:00	0	71.5
8/11/2015	0.002	0.000	0.007	12:00	0	97.2
9/11/2015	0.003	-0.001	0.011	08:00	0	97.2
10/11/2015	0.007	0.001	0.018	22:00	0	86.8
11/11/2015	0.005	0.000	0.014	00:00	0	97.2
12/11/2015	0.005	0.000	0.011	22:00	0	97.2
13/11/2015	0.005	0.001	0.011	04:00	0	97.2
14/11/2015	0.006	0.001	0.013	23:00	0	97.2
15/11/2015	0.001	-0.001	0.004	04:00	0	97.2
16/11/2015	0.002	0.000	0.004	06:00	0	97.2
17/11/2015	0.006	0.000	0.018	22:00	0	97.2
18/11/2015	0.007	0.002	0.015	00:00	0	97.2
19/11/2015	0.008	0.004	0.015	06:00	0	97.2
20/11/2015	0.007	0.002	0.018	07:00	0	97.2
21/11/2015	0.003	-0.001	0.008	04:00	0	97.2
22/11/2015	0.001	-0.002	0.006	18:00	0	97.2
23/11/2015	0.003	0.000	0.010	06:00	0	97.2
24/11/2015	0.004	0.000	0.013	06:00	0	97.2
25/11/2015	0.003	-0.001	0.011	05:00	0	97.2
26/11/2015	0.002	-0.001	0.006	05:00	0	97.2
27/11/2015	0.003	0.000	0.007	05:00	0	97.2
28/11/2015	0.002	0.000	0.004	18:00	0	97.2
29/11/2015	0.002	-0.001	0.006	19:00	0	97.2
30/11/2015	0.003	0.001	0.007	05:00	0	87.2

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

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

¹ Loss of data due to instrument error from faulty air conditioner

Table 5 Station 1 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary November 2015								
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		
1/11/2015	0.3	0.1	0.5	00:00	0.5	07:00	0	96.2
2/11/2015	0.3	0.2	0.4	16:00	0.4	23:00	0	96.2
3/11/2015	0.4	0.3	0.5	08:00	0.4	13:00	0	94.8
4/11/2015	0.4	0.3	0.5	06:00	0.4	10:00	0	96.2
5/11/2015	0.3	0.0	0.5	21:00	0.4	23:00	0	93.8
6/11/2015	0.3	0.1	0.5	23:00	0.4	13:00	0	95.1
7/11/2015	0.4	0.1	0.6	18:00	0.5	19:00	0	94.8
8/11/2015	0.3	0.3	0.4	18:00	0.4	00:00	0	96.9
9/11/2015	0.3	0.3	0.4	08:00	0.4	10:00	0	96.2
10/11/2015	0.3	0.2	0.5	09:00	0.3	10:00	0	94.8
11/11/2015	0.3	0.2	0.4	05:00	0.4	05:00	0	96.9
12/11/2015	0.3	0.3	0.4	18:00	0.3	23:00	0	96.9
13/11/2015	0.3	0.3	0.4	05:00	0.4	10:00	0	96.9
¹ 14/11/2015	-	0.3	0.4	05:00	0.4	10:00	0	36.5
¹ 15/11/2015	-	-	-	-	-	-	0	0.0
¹ 16/11/2015	-	0.3	0.4	17:00	0.3	23:00	0	33.3
17/11/2015	0.3	0.2	0.5	23:00	0.4	23:00	0	96.2
18/11/2015	0.3	0.2	0.5	00:00	0.5	02:00	0	96.5
19/11/2015	0.4	0.3	0.5	06:00	0.4	01:00	0	96.5
20/11/2015	0.4	0.2	0.8	06:00	0.5	08:00	0	96.5
21/11/2015	0.3	0.0	0.5	21:00	0.4	23:00	0	96.5
22/11/2015	0.3	0.2	0.4	21:00	0.4	01:00	0	96.9
23/11/2015	0.2	0.1	0.3	21:00	0.4	00:00	0	96.9
24/11/2015	0.3	0.2	0.4	06:00	0.3	02:00	0	96.9
25/11/2015	0.2	0.1	0.4	05:00	0.3	00:00	0	96.9
26/11/2015	0.3	0.1	0.5	23:00	0.4	23:00	0	96.5
27/11/2015	0.3	0.2	0.4	22:00	0.4	01:00	0	95.8
28/11/2015	0.4	0.3	0.5	05:00	0.5	07:00	0	96.5
29/11/2015	0.2	0.1	0.3	05:00	0.4	00:00	0	96.9
30/11/2015	0.4	0.2	0.7	06:00	0.5	08:00	0	86.5

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 error from faulty air conditioner

Table 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM2.5 Summary November 2015						
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		
1/11/2015	5.2	0.0	15.0	01:00	0	91.7
2/11/2015	6.0	0.7	9.8	04:00	0	100.0
3/11/2015	7.6	4.0	19.2	23:00	0	95.8
4/11/2015	9.4	-0.4	25.9	11:00	0	95.8
5/11/2015	7.5	2.5	15.9	07:00	0	95.8
6/11/2015	6.9	-0.8	17.8	12:00	0	100.0
7/11/2015	9.5	1.6	20.4	12:00	0	83.3
8/11/2015	7.1	2.2	11.0	11:00	0	91.7
9/11/2015	6.0	1.1	12.8	23:00	0	91.7
10/11/2015	6.3	-0.8	13.2	09:00	0	75.0
¹ 11/11/2015	-	-1.0	7.7	04:00	0	66.7
¹ 12/11/2015	-	-1.0	3.8	02:00	0	58.3
¹ 13/11/2015	-	-1.0	4.0	09:00	0	50.0
¹ 14/11/2015	-	-1.0	5.5	12:00	0	54.2
¹ 15/11/2015	-	-0.9	8.6	20:00	0	58.3
16/11/2015	3.1	-1.0	6.9	22:00	0	75.0
17/11/2015	4.1	-0.9	9.5	06:00	0	87.5
18/11/2015	4.5	-1.0	11.8	02:00	0	75.0
19/11/2015	3.8	-0.6	10.7	18:00	0	95.8
20/11/2015	4.2	-0.8	14.7	09:00	0	87.5
21/11/2015	3.9	0.0	9.8	23:00	0	79.2
22/11/2015	5.8	0.3	14.5	20:00	0	100.0
23/11/2015	2.9	-1.0	9.8	00:00	0	75.0
24/11/2015	3.0	-1.0	6.9	06:00	0	87.5
¹ 25/11/2015	-	-1.0	3.0	15:00	0	58.3
26/11/2015	2.6	-0.9	9.6	17:00	0	87.5
27/11/2015	7.3	2.0	15.0	17:00	0	83.3
28/11/2015	5.7	2.1	9.9	02:00	0	100.0
29/11/2015	3.6	-0.8	7.0	16:00	0	75.0
¹ 30/11/2015	-	-1.0	7.7	13:00	0	50.0

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 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM₁₀ Summary November 2015

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 1/11/2015	-	12.5	17.8	00:00	0	25.0
¹ 2/11/2015	-	-	-	-	0	0.0
¹ 3/11/2015	-	-	-	-	0	0.0
¹ 4/11/2015	-	-	-	-	0	0.0
¹ 5/11/2015	-	-	-	-	0	0.0
¹ 6/11/2015	-	-	-	-	0	0.0
¹ 7/11/2015	-	-	-	-	0	0.0
¹ 8/11/2015	-	6.1	20.2	17:00	0	29.2
9/11/2015	8.3	6.4	12.2	11:00	0	95.8
10/11/2015	9.0	4.8	26.2	11:00	0	100.0
11/11/2015	6.5	4.6	9.7	05:00	0	100.0
12/11/2015	6.1	4.1	8.6	06:00	0	100.0
13/11/2015	5.8	4.0	7.8	06:00	0	100.0
14/11/2015	6.1	1.8	9.7	05:00	0	100.0
15/11/2015	7.2	5.0	10.8	15:00	0	100.0
16/11/2015	8.4	5.0	19.0	15:00	0	100.0
17/11/2015	7.7	5.2	11.6	20:00	0	100.0
18/11/2015	7.8	5.9	10.2	06:00	0	95.8
19/11/2015	9.0	6.9	14.0	11:00	0	100.0
20/11/2015	8.6	6.0	11.7	05:00	0	100.0
21/11/2015	9.3	3.7	16.6	19:00	0	95.8
22/11/2015	12.6	5.9	15.7	17:00	0	100.0
23/11/2015	8.7	5.0	14.1	19:00	0	95.8
24/11/2015	8.9	5.1	14.4	13:00	0	95.8
25/11/2015	7.8	5.4	11.3	16:00	0	95.8
26/11/2015	8.9	4.3	15.1	14:00	0	100.0
27/11/2015	12.3	8.6	16.8	05:00	0	83.3
28/11/2015	10.1	7.8	13.2	03:00	0	100.0
29/11/2015	8.2	4.6	13.2	17:00	0	100.0
30/11/2015	9.8	5.5	18.9	20:00	0	87.5

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

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

¹ Loss of data due to 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 November 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.006	0.2	6.1	16.7
Min 1hr Average	0.002	0.0	0.4	0.5
Max 1hr Average	0.018	0.4	33.1	51.4
Max 8hr Rolling Average	N/A	0.3	N/A	N/A
Max 24hr Average	N/A	N/A	13.0	31.2
Capture Rate (%)	88.2	94.4	94.3	94.6

Table 9 Station 2 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary November 2015						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/11/2015	0.006	0.002	0.017	00:00	0	97.2
2/11/2015	0.003	0.002	0.006	05:00	0	97.2
3/11/2015	0.005	0.003	0.011	06:00	0	97.2
4/11/2015	0.006	0.003	0.017	04:00	0	97.2
5/11/2015	0.005	0.002	0.008	06:00	0	97.2
6/11/2015	0.007	0.002	0.015	07:00	0	97.2
7/11/2015	0.008	0.003	0.017	19:00	0	97.2
8/11/2015	0.004	0.002	0.011	18:00	0	97.2
9/11/2015	0.007	0.002	0.017	06:00	0	97.2
10/11/2015	0.009	0.004	0.017	22:00	0	97.2
11/11/2015	0.008	0.003	0.015	00:00	0	97.2
12/11/2015	0.007	0.002	0.016	03:00	0	97.2
13/11/2015	0.005	0.002	0.015	06:00	0	97.2
14/11/2015	0.006	0.003	0.015	09:00	0	97.2
15/11/2015	0.004	0.003	0.008	00:00	0	97.2
16/11/2015	0.006	0.003	0.014	05:00	0	97.2
17/11/2015	0.008	0.002	0.018	23:00	0	97.2
18/11/2015	0.008	0.003	0.017	00:00	0	97.2
19/11/2015	0.007	0.004	0.016	06:00	0	97.2
20/11/2015	0.007	0.003	0.015	06:00	0	97.2
21/11/2015	0.004	0.002	0.009	03:00	0	97.2
22/11/2015	0.004	0.002	0.008	19:00	0	97.2
¹ 23/11/2015	-	0.003	0.007	06:00	0	35.1
¹ 24/11/2015	-	-	-	-	0	0.0
¹ 25/11/2015	-	0.002	0.004	18:00	0	26.5
26/11/2015	0.003	0.002	0.006	05:00	0	97.2
27/11/2015	0.005	0.003	0.009	05:00	0	97.2
28/11/2015	0.004	0.003	0.006	22:00	0	97.2
29/11/2015	0.004	0.002	0.006	23:00	0	97.2
30/11/2015	0.004	0.003	0.008	05:00	0	97.2

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

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

¹ Loss of data due to instrument fault

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary November 2015

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		
1/11/2015	0.2	0.1	0.3	06:00	0.3	06:00	0	96.9
2/11/2015	0.1	0.1	0.2	15:00	0.2	19:00	0	96.9
3/11/2015	0.2	0.1	0.2	16:00	0.2	18:00	0	96.9
4/11/2015	0.2	0.1	0.3	05:00	0.2	10:00	0	96.9
5/11/2015	0.1	0.1	0.2	09:00	0.2	14:00	0	96.9
6/11/2015	0.2	0.1	0.3	09:00	0.2	13:00	0	96.9
7/11/2015	0.2	0.1	0.3	20:00	0.3	23:00	0	96.9
8/11/2015	0.1	0.1	0.3	18:00	0.3	00:00	0	96.9
9/11/2015	0.2	0.1	0.3	06:00	0.2	12:00	0	96.9
10/11/2015	0.2	0.1	0.2	23:00	0.2	20:00	0	96.9
11/11/2015	0.1	0.0	0.3	06:00	0.2	06:00	0	96.9
12/11/2015	0.1	0.1	0.2	06:00	0.2	09:00	0	96.9
13/11/2015	0.2	0.1	0.3	06:00	0.2	20:00	0	96.9
14/11/2015	0.2	0.1	0.4	09:00	0.2	15:00	0	96.9
15/11/2015	0.2	0.1	0.2	00:00	0.2	00:00	0	96.9
16/11/2015	0.1	0.1	0.2	16:00	0.2	12:00	0	95.8
17/11/2015	0.1	0.1	0.3	23:00	0.1	23:00	0	96.9
18/11/2015	0.1	0.1	0.2	06:00	0.2	06:00	0	96.9
19/11/2015	0.1	0.1	0.2	06:00	0.2	17:00	0	96.9
20/11/2015	0.2	0.1	0.3	06:00	0.2	12:00	0	96.9
21/11/2015	0.1	0.1	0.2	22:00	0.2	00:00	0	96.9
22/11/2015	0.1	0.1	0.2	08:00	0.2	00:00	0	96.9
¹ 23/11/2015	-	0.0	0.4	21:00	0.1	08:00	0	70.5
24/11/2015	0.2	0.1	0.3	08:00	0.2	03:00	0	96.5
25/11/2015	0.1	0.1	0.1	09:00	0.1	00:00	0	87.8
26/11/2015	0.2	0.1	0.2	17:00	0.2	21:00	0	96.9
27/11/2015	0.2	0.1	0.2	05:00	0.2	07:00	0	96.9
28/11/2015	0.1	0.1	0.2	15:00	0.2	21:00	0	96.9
29/11/2015	0.1	0.1	0.2	00:00	0.2	00:00	0	96.9
30/11/2015	0.2	0.1	0.2	06:00	0.2	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 automatic reference calibrations

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary November 2015						
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		
1/11/2015	5.5	1.7	12.0	02:00	0	100.0
2/11/2015	6.6	2.0	14.9	22:00	0	100.0
3/11/2015	9.7	4.6	15.2	22:00	0	100.0
4/11/2015	10.1	4.9	16.6	08:00	0	100.0
5/11/2015	5.6	1.4	16.3	22:00	0	100.0
6/11/2015	6.3	0.6	17.7	20:00	0	100.0
7/11/2015	4.4	0.4	18.6	00:00	0	100.0
8/11/2015	5.6	2.0	13.0	12:00	0	100.0
9/11/2015	1.7	0.4	5.5	10:00	0	100.0
10/11/2015	3.2	0.4	10.6	23:00	0	100.0
11/11/2015	3.2	0.4	12.4	00:00	0	100.0
12/11/2015	4.9	0.5	11.5	10:00	0	100.0
13/11/2015	9.3	1.7	20.6	04:00	0	100.0
14/11/2015	10.8	3.5	25.0	06:00	0	100.0
15/11/2015	0.8	0.4	2.1	00:00	0	100.0
16/11/2015	2.3	0.4	7.6	06:00	0	100.0
17/11/2015	2.3	0.6	5.7	02:00	0	100.0
18/11/2015	5.7	1.8	10.0	06:00	0	100.0
19/11/2015	11.5	1.1	28.3	14:00	0	100.0
20/11/2015	2.1	0.5	5.8	06:00	0	100.0
21/11/2015	7.3	0.6	27.5	20:00	0	100.0
22/11/2015	13.0	3.8	32.1	21:00	0	83.3
¹ 23/11/2015	-	0.4	32.4	00:00	0	66.7
24/11/2015	8.6	0.4	28.2	02:00	0	91.7
25/11/2015	4.7	0.4	15.0	06:00	0	87.5
26/11/2015	6.8	0.4	32.1	20:00	0	100.0
27/11/2015	8.0	0.6	26.6	08:00	0	100.0
28/11/2015	9.2	0.4	33.1	12:00	0	75.0
¹ 29/11/2015	-	0.6	7.9	12:00	0	50.0
30/11/2015	2.8	0.5	11.1	10:00	0	75.0

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 November 2015						
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		
1/11/2015	11.2	4.8	17.3	08:00	0	100.0
2/11/2015	14.8	9.1	27.7	22:00	0	100.0
3/11/2015	24.3	7.1	42.2	12:00	0	100.0
4/11/2015	22.5	11.4	40.3	12:00	0	100.0
5/11/2015	18.8	7.4	34.4	22:00	0	100.0
6/11/2015	15.8	4.3	39.1	22:00	0	100.0
7/11/2015	16.2	6.0	31.0	00:00	0	100.0
8/11/2015	16.6	7.6	26.3	02:00	0	100.0
9/11/2015	11.5	7.5	19.1	10:00	0	100.0
10/11/2015	10.9	5.8	14.7	16:00	0	100.0
11/11/2015	10.2	5.8	18.1	08:00	0	100.0
12/11/2015	10.2	6.3	13.0	00:00	0	100.0
13/11/2015	14.0	4.8	33.9	12:00	0	100.0
14/11/2015	11.3	5.1	18.7	10:00	0	100.0
15/11/2015	8.9	4.5	19.7	22:00	0	100.0
16/11/2015	14.6	6.3	21.7	02:00	0	100.0
17/11/2015	13.8	9.9	22.3	02:00	0	100.0
18/11/2015	12.2	5.3	20.1	08:00	0	100.0
19/11/2015	13.1	6.1	22.8	16:00	0	100.0
20/11/2015	13.6	6.7	19.1	16:00	0	100.0
21/11/2015	15.8	5.5	30.1	23:00	0	100.0
22/11/2015	30.6	23.4	35.0	17:00	0	83.3
23/11/2015	14.7	0.8	37.0	00:00	0	75.0
24/11/2015	26.1	14.8	51.4	00:00	0	91.7
25/11/2015	18.4	0.5	33.1	04:00	0	87.5
26/11/2015	21.3	9.9	34.8	20:00	0	100.0
27/11/2015	30.8	20.7	42.0	22:00	0	100.0
28/11/2015	31.2	25.4	37.1	12:00	0	75.0
¹ 29/11/2015	-	7.8	20.1	20:00	0	50.0
30/11/2015	21.1	7.1	48.7	22:00	0	75.0

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 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary November 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.007	0.2	2.3	16.8
Min 1hr Average	0.002	0.1	-1.0	0.9
Max 1hr Average	0.022	0.4	17.6	46.8
Max 8hr Rolling Average	N/A	0.3	N/A	N/A
Max 24hr Average	N/A	N/A	8.1	31.0
Capture Rate (%)	95.6	95.6	74.9	96.7

Table 14 Station 3 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary November 2015						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/11/2015	0.007	0.002	0.017	00:00	0	97.2
2/11/2015	0.004	0.003	0.008	06:00	0	97.2
3/11/2015	0.006	0.003	0.009	06:00	0	97.2
4/11/2015	0.008	0.003	0.016	06:00	0	97.2
5/11/2015	0.006	0.003	0.010	18:00	0	97.2
6/11/2015	0.008	0.003	0.018	08:00	0	97.2
7/11/2015	0.008	0.003	0.022	19:00	0	97.2
8/11/2015	0.005	0.003	0.011	18:00	0	97.2
9/11/2015	0.007	0.003	0.014	08:00	0	97.2
10/11/2015	0.010	0.005	0.022	22:00	0	97.2
11/11/2015	0.010	0.006	0.016	22:00	0	97.2
12/11/2015	0.009	0.004	0.016	03:00	0	97.2
13/11/2015	0.006	0.003	0.015	06:00	0	97.2
14/11/2015	0.007	0.003	0.014	23:00	0	97.2
15/11/2015	0.005	0.003	0.008	00:00	0	97.2
16/11/2015	0.007	0.005	0.010	23:00	0	97.2
17/11/2015	0.010	0.005	0.019	21:00	0	97.2
18/11/2015	0.009	0.004	0.018	04:00	0	97.2
19/11/2015	0.009	0.005	0.015	07:00	0	97.2
20/11/2015	0.008	0.004	0.018	06:00	0	97.2
21/11/2015	0.006	0.003	0.011	03:00	0	97.2
22/11/2015	0.006	0.002	0.011	19:00	0	97.2
23/11/2015	0.004	0.003	0.006	21:00	0	97.2
24/11/2015	0.009	0.005	0.017	07:00	0	97.2
25/11/2015	0.004	0.003	0.007	05:00	0	97.2
26/11/2015	0.004	0.003	0.006	05:00	0	97.2
27/11/2015	0.008	0.004	0.012	06:00	0	97.2
28/11/2015	0.006	0.005	0.008	11:00	0	97.22
29/11/2015	0.004	0.002	0.007	00:00	0	97.22
30/11/2015	0.005	0.003	0.007	00:00	0	89.58

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 November 2015								
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		
1/11/2015	0.2	0.1	0.3	02:00	0.3	06:00	0	96.5
2/11/2015	0.2	0.1	0.2	15:00	0.2	22:00	0	96.5
3/11/2015	0.2	0.1	0.2	23:00	0.2	23:00	0	96.5
4/11/2015	0.2	0.1	0.3	06:00	0.2	06:00	0	96.5
5/11/2015	0.2	0.1	0.2	22:00	0.2	23:00	0	96.5
6/11/2015	0.2	0.2	0.3	07:00	0.2	13:00	0	96.5
7/11/2015	0.3	0.2	0.4	19:00	0.3	21:00	0	96.5
8/11/2015	0.2	0.1	0.2	18:00	0.3	00:00	0	96.5
9/11/2015	0.1	0.1	0.2	08:00	0.2	00:00	0	96.5
10/11/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	96.5
11/11/2015	0.1	0.1	0.3	00:00	0.2	05:00	0	96.5
12/11/2015	0.2	0.1	0.3	18:00	0.2	23:00	0	96.5
13/11/2015	0.1	0.1	0.2	06:00	0.2	00:00	0	96.5
14/11/2015	0.2	0.2	0.3	23:00	0.3	15:00	0	96.5
15/11/2015	0.1	0.1	0.2	00:00	0.3	00:00	0	96.5
16/11/2015	0.1	0.1	0.1	06:00	0.1	07:00	0	96.5
17/11/2015	0.1	0.1	0.3	23:00	0.2	23:00	0	96.5
18/11/2015	0.2	0.1	0.3	00:00	0.2	02:00	0	96.5
19/11/2015	0.2	0.2	0.3	06:00	0.2	13:00	0	96.5
20/11/2015	0.2	0.2	0.3	06:00	0.2	10:00	0	96.5
21/11/2015	0.2	0.1	0.2	21:00	0.2	21:00	0	96.5
22/11/2015	0.2	0.2	0.2	19:00	0.2	23:00	0	96.5
23/11/2015	0.2	0.2	0.2	17:00	0.2	00:00	0	96.9
24/11/2015	0.2	0.2	0.3	05:00	0.3	11:00	0	96.9
25/11/2015	0.2	0.2	0.2	17:00	0.2	18:00	0	96.9
26/11/2015	0.2	0.1	0.2	17:00	0.2	22:00	0	96.9
27/11/2015	0.2	0.2	0.3	06:00	0.3	07:00	0	96.9
28/11/2015	0.2	0.2	0.2	11:00	0.2	18:00	0	96.9
29/11/2015	0.2	0.2	0.2	19:00	0.2	00:00	0	96.9
30/11/2015	0.2	0.2	0.2	19:00	0.2	00:00	0	89.2

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 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary November 2015						
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		
1/11/2015	2.2	0.0	6.0	07:00	0	91.7
2/11/2015	1.3	-1.0	4.8	21:00	0	87.5
¹ 3/11/2015	-	-1.0	0.8	00:00	0	16.7
¹ 4/11/2015	-	-0.5	4.8	19:00	0	33.3
5/11/2015	0.6	-1.0	3.8	20:00	0	91.7
¹ 6/11/2015	-	0.0	5.7	14:00	0	70.8
7/11/2015	3.4	0.3	6.0	22:00	0	95.8
8/11/2015	2.4	-1.0	5.9	20:00	0	87.5
¹ 9/11/2015	-	-1.0	2.9	10:00	0	54.2
¹ 10/11/2015	-	-1.0	2.8	07:00	0	62.5
¹ 11/11/2015	-	-1.0	3.8	15:00	0	62.5
¹ 12/11/2015	-	-1.0	3.6	23:00	0	62.5
¹ 13/11/2015	-	-1.0	2.0	06:00	0	41.7
¹ 14/11/2015	-	-1.0	6.0	11:00	0	66.7
15/11/2015	0.6	-1.0	4.7	22:00	0	83.3
16/11/2015	1.1	-1.0	3.6	03:00	0	83.3
¹ 17/11/2015	-	-1.0	4.8	19:00	0	66.7
¹ 18/11/2015	-	-1.0	4.8	00:00	0	62.5
19/11/2015	2.0	-1.0	7.8	13:00	0	79.2
20/11/2015	1.3	-1.0	7.6	11:00	0	87.5
¹ 21/11/2015	-	-1.0	11.1	23:00	0	70.8
22/11/2015	7.3	4.1	15.8	15:00	0	100.0
23/11/2015	1.1	-1.0	6.5	17:00	0	87.5
24/11/2015	5.0	-1.0	10.0	12:00	0	91.7
¹ 25/11/2015	-	-1.0	4.6	23:00	0	66.7
¹ 26/11/2015	-	0.0	6.0	17:00	0	70.8
27/11/2015	8.1	-0.5	17.6	09:00	0	95.8
28/11/2015	2.7	-0.9	7.0	04:00	0	100.0
29/11/2015	2.3	-1.0	6.0	07:00	0	91.7
30/11/2015	2.8	-0.7	5.9	19:00	0	83.3

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 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM ₁₀ Summary November 2015						
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		
1/11/2015	12.5	9.3	18.8	06:00	0	100.0
2/11/2015	16.0	10.3	23.8	14:00	0	100.0
3/11/2015	18.6	8.6	28.2	12:00	0	100.0
4/11/2015	18.5	9.9	31.5	10:00	0	100.0
5/11/2015	16.1	4.8	43.8	08:00	0	100.0
6/11/2015	14.7	0.9	25.0	23:00	0	95.8
7/11/2015	16.1	8.7	23.4	20:00	0	100.0
8/11/2015	15.2	6.6	21.0	00:00	0	100.0
9/11/2015	13.6	4.5	18.9	08:00	0	100.0
10/11/2015	13.2	9.0	16.3	19:00	0	100.0
11/11/2015	12.4	9.1	19.6	05:00	0	100.0
12/11/2015	11.8	8.3	17.4	17:00	0	100.0
13/11/2015	11.8	8.1	18.7	06:00	0	100.0
14/11/2015	10.3	6.3	17.4	09:00	0	100.0
15/11/2015	12.6	3.9	23.6	20:00	0	100.0
16/11/2015	17.5	11.2	30.2	12:00	0	100.0
17/11/2015	16.1	9.0	22.4	20:00	0	100.0
18/11/2015	15.2	9.1	23.7	06:00	0	100.0
19/11/2015	17.7	8.4	35.9	11:00	0	100.0
20/11/2015	17.8	8.6	35.4	09:00	0	100.0
21/11/2015	22.0	7.1	43.5	21:00	0	100.0
22/11/2015	31.0	19.2	46.8	12:00	0	100.0
23/11/2015	18.4	9.1	27.6	07:00	0	100.0
24/11/2015	20.6	9.3	41.7	12:00	0	100.0
25/11/2015	14.4	10.0	21.9	11:00	0	100.0
26/11/2015	17.0	6.7	32.0	11:00	0	83.3
¹ 27/11/2015	-	23.4	42.3	15:00	0	70.8
28/11/2015	23.9	17.4	32.9	08:00	0	95.8
¹ 29/11/2015	-	7.5	16.4	17:00	0	62.5
30/11/2015	15.9	8.5	21.8	11:00	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

¹ Loss of data due to instrument fault

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary November 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.008	0.3	2.8	13.6
Min 1hr Average	0.002	0.2	-1.0	2.6
Max 1hr Average	0.023	0.6	17.5	39.6
Max 8hr Rolling Average	N/A	0.5	N/A	N/A
Max 24hr Average	N/A	N/A	8.6	29.3
Capture Rate (%)	95.3	95.3	79.9	96.0

Table 19 Station 4 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary November 2015

Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/11/2015	0.008	0.003	0.018	00:00	0	97.2
2/11/2015	0.006	0.004	0.013	05:00	0	97.2
3/11/2015	0.007	0.003	0.011	06:00	0	97.2
4/11/2015	0.008	0.004	0.017	05:00	0	97.2
5/11/2015	0.007	0.003	0.012	05:00	0	97.2
6/11/2015	0.010	0.002	0.022	07:00	0	97.2
7/11/2015	0.010	0.004	0.023	19:00	0	97.2
8/11/2015	0.007	0.003	0.017	17:00	0	97.2
9/11/2015	0.010	0.003	0.017	08:00	0	97.2
10/11/2015	0.011	0.007	0.020	22:00	0	97.2
11/11/2015	0.012	0.007	0.018	08:00	0	97.2
12/11/2015	0.010	0.005	0.015	06:00	0	97.2
13/11/2015	0.008	0.004	0.014	06:00	0	97.2
14/11/2015	0.008	0.002	0.017	10:00	0	97.2
15/11/2015	0.006	0.003	0.010	11:00	0	97.2
16/11/2015	0.009	0.004	0.014	08:00	0	97.2
17/11/2015	0.011	0.005	0.020	21:00	0	97.2
18/11/2015	0.009	0.006	0.017	00:00	0	97.2
19/11/2015	0.010	0.005	0.015	11:00	0	97.2
20/11/2015	0.009	0.007	0.015	08:00	0	97.2
21/11/2015	0.007	0.004	0.011	10:00	0	97.2
22/11/2015	0.008	0.003	0.014	17:00	0	97.2
23/11/2015	0.007	0.003	0.013	05:00	0	97.2
24/11/2015	0.011	0.005	0.022	07:00	0	83.0
25/11/2015	0.006	0.004	0.009	10:00	0	97.2
26/11/2015	0.005	0.002	0.007	09:00	0	97.2
27/11/2015	0.010	0.006	0.014	07:00	0	97.2
28/11/2015	0.007	0.004	0.011	08:00	0	97.2
29/11/2015	0.005	0.002	0.010	22:00	0	97.2
30/11/2015	0.006	0.004	0.008	18:00	0	97.2

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

Table 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary November 2015

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		
1/11/2015	0.3	0.2	0.4	00:00	0.4	04:00	0	96.9
2/11/2015	0.3	0.2	0.3	05:00	0.3	00:00	0	96.9
3/11/2015	0.3	0.2	0.4	21:00	0.3	23:00	0	96.9
4/11/2015	0.3	0.2	0.4	09:00	0.4	09:00	0	96.9
5/11/2015	0.3	0.3	0.4	20:00	0.4	23:00	0	96.9
6/11/2015	0.4	0.3	0.6	07:00	0.4	12:00	0	96.9
7/11/2015	0.3	0.3	0.5	20:00	0.4	22:00	0	96.9
8/11/2015	0.3	0.3	0.5	17:00	0.4	01:00	0	96.9
9/11/2015	0.3	0.2	0.4	17:00	0.4	19:00	0	96.9
10/11/2015	0.3	0.2	0.3	07:00	0.3	00:00	0	96.9
11/11/2015	0.3	0.2	0.4	18:00	0.3	08:00	0	96.9
12/11/2015	0.2	0.2	0.3	06:00	0.3	00:00	0	96.9
13/11/2015	0.3	0.2	0.3	06:00	0.3	08:00	0	96.9
14/11/2015	0.3	0.2	0.5	10:00	0.4	15:00	0	96.9
15/11/2015	0.3	0.3	0.3	12:00	0.3	00:00	0	96.9
16/11/2015	0.3	0.2	0.4	17:00	0.3	21:00	0	96.9
17/11/2015	0.2	0.2	0.4	23:00	0.3	23:00	0	96.9
18/11/2015	0.3	0.2	0.3	07:00	0.3	02:00	0	96.9
19/11/2015	0.2	0.2	0.3	06:00	0.3	00:00	0	96.9
20/11/2015	0.3	0.3	0.4	06:00	0.4	09:00	0	96.9
21/11/2015	0.3	0.2	0.3	19:00	0.3	00:00	0	96.9
22/11/2015	0.3	0.3	0.4	08:00	0.4	15:00	0	96.9
23/11/2015	0.3	0.3	0.4	06:00	0.3	08:00	0	96.9
24/11/2015	0.4	0.2	0.5	07:00	0.5	11:00	0	82.6
25/11/2015	0.3	0.3	0.3	10:00	0.3	08:00	0	96.9
26/11/2015	0.3	0.3	0.3	21:00	0.3	23:00	0	96.9
27/11/2015	0.4	0.3	0.5	06:00	0.5	12:00	0	96.9
28/11/2015	0.3	0.3	0.4	11:00	0.4	00:00	0	96.9
29/11/2015	0.3	0.3	0.4	02:00	0.4	23:00	0	96.9
30/11/2015	0.3	0.3	0.4	19:00	0.4	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

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM2.5 Summary November 2015						
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 1/11/2015	-	-1.0	4.0	07:00	0	54.2
¹ 2/11/2015	-	-1.0	4.5	13:00	0	70.8
3/11/2015	1.9	-0.8	6.9	13:00	0	87.5
¹ 4/11/2015	-	-1.0	16.8	12:00	0	70.8
¹ 5/11/2015	-	-0.9	9.9	09:00	0	70.8
6/11/2015	1.4	-1.0	5.0	21:00	0	75.0
7/11/2015	3.3	0.0	7.5	07:00	0	83.3
8/11/2015	2.2	-0.6	5.0	01:00	0	79.2
9/11/2015	1.8	-1.0	5.5	12:00	0	79.2
¹ 10/11/2015	-	-1.0	5.8	05:00	0	62.5
11/11/2015	0.4	-1.0	4.0	09:00	0	79.2
12/11/2015	2.9	-1.0	10.0	08:00	0	83.3
¹ 13/11/2015	-	-1.0	4.8	08:00	0	50.0
¹ 14/11/2015	-	-1.0	2.8	10:00	0	58.3
¹ 15/11/2015	-	-0.9	2.8	23:00	0	45.8
¹ 16/11/2015	-	0.0	3.0	05:00	0	70.8
17/11/2015	2.9	0.0	10.7	08:00	0	83.3
18/11/2015	3.1	-0.9	10.6	08:00	0	91.7
¹ 19/11/2015	-	-1.0	6.9	15:00	0	70.8
20/11/2015	1.1	-1.0	5.0	07:00	0	79.2
21/11/2015	2.7	-1.0	11.7	22:00	0	100.0
22/11/2015	7.7	4.4	10.0	11:00	0	100.0
23/11/2015	2.3	-0.7	8.4	00:00	0	91.7
¹ 24/11/2015	-	-0.7	10.0	08:00	0	70.8
25/11/2015	2.3	-0.9	6.8	09:00	0	100.0
26/11/2015	2.7	0.1	6.0	20:00	0	87.5
27/11/2015	8.6	4.0	17.5	09:00	0	100.0
28/11/2015	3.5	-0.9	6.0	10:00	0	100.0
29/11/2015	4.0	0.1	8.0	15:00	0	100.0
30/11/2015	4.1	0.1	9.6	15:00	0	100.0

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

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

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 November 2015						
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		
1/11/2015	10.2	5.8	16.2	06:00	0	100.0
2/11/2015	12.3	8.1	19.2	11:00	0	100.0
3/11/2015	14.2	3.5	22.9	11:00	0	100.0
4/11/2015	14.0	7.1	26.1	11:00	0	100.0
5/11/2015	10.8	2.9	17.5	10:00	0	100.0
6/11/2015	12.7	5.2	19.0	12:00	0	87.5
7/11/2015	12.7	2.6	22.0	15:00	0	95.8
8/11/2015	11.2	3.5	20.3	17:00	0	100.0
9/11/2015	9.6	2.7	17.4	09:00	0	100.0
10/11/2015	10.3	6.1	13.0	06:00	0	100.0
11/11/2015	10.1	7.0	14.2	06:00	0	100.0
12/11/2015	9.7	5.0	14.0	17:00	0	100.0
13/11/2015	9.7	6.3	17.3	06:00	0	100.0
14/11/2015	8.1	4.6	15.9	09:00	0	100.0
15/11/2015	8.2	2.9	15.7	21:00	0	95.8
16/11/2015	11.7	6.4	15.8	11:00	0	100.0
17/11/2015	11.7	5.8	17.3	20:00	0	100.0
18/11/2015	10.6	6.6	15.1	07:00	0	100.0
19/11/2015	13.4	7.5	26.1	11:00	0	100.0
20/11/2015	13.6	8.3	26.8	09:00	0	100.0
21/11/2015	17.6	6.9	39.6	18:00	0	95.8
22/11/2015	23.3	18.0	28.7	13:00	0	100.0
23/11/2015	15.2	5.8	23.8	19:00	0	100.0
24/11/2015	16.2	8.1	26.8	10:00	0	83.3
25/11/2015	15.6	10.5	22.7	11:00	0	100.0
26/11/2015	18.4	5.0	30.0	12:00	0	91.7
27/11/2015	29.3	19.7	34.1	17:00	0	79.2
28/11/2015	22.6	15.6	29.8	09:00	0	91.7
¹ 29/11/2015	-	5.7	16.5	16:00	0	58.3
30/11/2015	17.5	9.2	30.6	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 instrument fault

Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Bryden Street)

Summary

Station 5 Bryden St Ambient AQMS Summary November 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.006	0.2	9.6	15.8
Min 1hr Average	0.001	0.0	-1.0	-0.2
Max 1hr Average	0.023	0.4	27.5	54.4
Max 8hr Rolling Average	N/A	0.4	N/A	N/A
Max 24hr Average	N/A	N/A	15.4	27.7
Capture Rate (%)	95.4	95.4	97.4	87.2

Table 24 Station 5 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary November 2015						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/11/2015	0.006	0.001	0.021	00:00	0	95.8
2/11/2015	0.004	0.002	0.011	05:00	0	97.2
3/11/2015	0.005	0.002	0.009	06:00	0	97.2
4/11/2015	0.007	0.003	0.017	04:00	0	97.2
5/11/2015	0.005	0.001	0.010	22:00	0	97.2
6/11/2015	0.008	0.001	0.016	08:00	0	97.2
7/11/2015	0.008	0.002	0.023	19:00	0	97.2
8/11/2015	0.004	0.001	0.009	17:00	0	97.2
9/11/2015	0.007	0.002	0.016	06:00	0	97.2
10/11/2015	0.007	0.003	0.013	02:00	0	97.2
11/11/2015	0.009	0.004	0.014	05:00	0	96.9
12/11/2015	0.007	0.003	0.016	02:00	0	96.9
13/11/2015	0.006	0.003	0.017	06:00	0	97.2
14/11/2015	0.007	0.002	0.015	22:00	0	97.2
15/11/2015	0.004	0.002	0.008	22:00	0	97.2
16/11/2015	0.006	0.003	0.013	05:00	0	97.2
17/11/2015	0.009	0.003	0.019	22:00	0	96.5
18/11/2015	0.008	0.003	0.017	06:00	0	97.2
19/11/2015	0.009	0.004	0.018	06:00	0	97.2
20/11/2015	0.008	0.004	0.020	06:00	0	97.2
21/11/2015	0.004	0.002	0.008	04:00	0	97.2
22/11/2015	0.003	0.001	0.006	21:00	0	97.2
23/11/2015	0.004	0.002	0.007	06:00	0	97.2
24/11/2015	0.008	0.003	0.012	06:00	0	86.1
25/11/2015	0.003	0.001	0.006	05:00	0	96.5
26/11/2015	0.003	0.001	0.005	06:00	0	97.2
27/11/2015	0.005	0.003	0.009	06:00	0	97.2
28/11/2015	0.004	0.002	0.007	09:00	0	97.2
29/11/2015	0.003	0.001	0.007	18:00	0	97.2
30/11/2015	0.004	0.002	0.006	13:00	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 Bryden St Ambient AQMS Carbon Monoxide Summary November 2015								
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		
1/11/2015	0.2	0.1	0.4	00:00	0.4	05:00	0	96.9
2/11/2015	0.2	0.1	0.2	06:00	0.2	06:00	0	96.9
3/11/2015	0.3	0.2	0.4	21:00	0.4	22:00	0	95.8
4/11/2015	0.3	0.2	0.4	06:00	0.4	00:00	0	96.9
5/11/2015	0.2	0.2	0.3	22:00	0.2	00:00	0	96.9
6/11/2015	0.2	0.1	0.3	06:00	0.2	01:00	0	96.9
7/11/2015	0.3	0.2	0.4	19:00	0.3	07:00	0	96.9
8/11/2015	0.2	0.2	0.3	18:00	0.3	01:00	0	96.9
9/11/2015	0.1	0.0	0.2	06:00	0.3	00:00	0	96.9
10/11/2015	0.2	0.1	0.3	20:00	0.3	23:00	0	96.2
11/11/2015	0.2	0.1	0.4	06:00	0.3	07:00	0	96.5
12/11/2015	0.2	0.1	0.3	06:00	0.2	07:00	0	96.5
13/11/2015	0.2	0.2	0.4	06:00	0.3	08:00	0	96.9
14/11/2015	0.3	0.2	0.3	22:00	0.3	23:00	0	96.9
15/11/2015	0.2	0.1	0.3	00:00	0.3	01:00	0	96.9
16/11/2015	0.1	0.1	0.2	06:00	0.2	07:00	0	96.9
17/11/2015	0.2	0.1	0.4	22:00	0.2	07:00	0	96.2
18/11/2015	0.2	0.2	0.3	22:00	0.3	23:00	0	96.5
19/11/2015	0.3	0.2	0.4	23:00	0.3	23:00	0	96.5
20/11/2015	0.3	0.2	0.4	06:00	0.3	00:00	0	96.2
21/11/2015	0.2	0.1	0.3	22:00	0.3	23:00	0	96.5
22/11/2015	0.2	0.2	0.3	22:00	0.3	00:00	0	96.9
23/11/2015	0.2	0.2	0.3	04:00	0.3	01:00	0	96.9
24/11/2015	0.2	0.2	0.3	05:00	0.3	08:00	0	85.8
25/11/2015	0.2	0.1	0.2	05:00	0.2	02:00	0	96.2
26/11/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	96.9
27/11/2015	0.2	0.1	0.3	05:00	0.3	06:00	0	96.2
28/11/2015	0.3	0.2	0.3	23:00	0.3	23:00	0	96.9
29/11/2015	0.3	0.2	0.3	19:00	0.3	06:00	0	96.9
30/11/2015	0.3	0.2	0.3	19:00	0.3	23:00	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 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Bryden St Ambient AQMS Particulate PM _{2.5} Summary November 2015						
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		
1/11/2015	11.2	1.7	23.6	17:00	0	100.0
2/11/2015	9.1	4.0	23.8	17:00	0	95.8
3/11/2015	10.0	-0.8	27.5	18:00	0	100.0
4/11/2015	11.7	2.4	25.3	12:00	0	95.8
5/11/2015	8.4	2.5	14.6	22:00	0	100.0
6/11/2015	9.6	5.3	19.3	17:00	0	100.0
7/11/2015	11.2	6.0	16.3	07:00	0	95.8
8/11/2015	11.0	5.0	16.4	01:00	0	100.0
9/11/2015	9.6	3.4	17.4	10:00	0	100.0
10/11/2015	9.3	2.5	21.0	17:00	0	91.7
11/11/2015	8.5	4.6	14.7	06:00	0	100.0
12/11/2015	8.4	5.5	14.4	17:00	0	100.0
13/11/2015	9.1	3.2	20.9	17:00	0	95.8
14/11/2015	9.5	3.4	16.7	10:00	0	100.0
15/11/2015	9.7	4.4	26.0	21:00	0	91.7
16/11/2015	10.0	6.1	15.8	19:00	0	100.0
17/11/2015	9.7	6.1	24.3	17:00	0	100.0
18/11/2015	10.2	6.0	21.0	18:00	0	100.0
19/11/2015	10.8	7.1	25.7	18:00	0	100.0
20/11/2015	11.7	5.3	23.1	18:00	0	100.0
21/11/2015	10.8	5.1	26.8	18:00	0	100.0
22/11/2015	15.4	11.0	24.1	19:00	0	100.0
23/11/2015	11.3	6.2	15.9	19:00	0	95.8
24/11/2015	11.7	-1.0	18.2	13:00	0	75.0
25/11/2015	2.6	-1.0	20.7	18:00	0	91.7
26/11/2015	4.0	-0.8	17.3	15:00	0	95.8
27/11/2015	10.3	1.4	26.9	18:00	0	100.0
28/11/2015	7.3	1.3	18.0	17:00	0	100.0
29/11/2015	7.7	2.1	17.7	16:00	0	100.0
30/11/2015	7.9	2.1	22.7	15:00	0	95.8

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

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary November 2015						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs		Time of Max	No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)			
1/11/2015	13.9	7.1	25.4	15:00	0	95.8
2/11/2015	20.0	6.8	45.0	15:00	0	100.0
3/11/2015	17.9	8.0	51.4	15:00	0	100.0
4/11/2015	14.5	4.2	35.6	12:00	0	95.8
5/11/2015	13.5	3.5	30.7	13:00	0	100.0
6/11/2015	9.8	3.0	23.4	22:00	0	100.0
7/11/2015	12.8	-0.2	21.7	01:00	0	95.8
8/11/2015	12.7	4.1	24.2	03:00	0	100.0
9/11/2015	11.0	4.0	21.5	11:00	0	100.0
10/11/2015	10.7	0.5	24.0	17:00	0	95.8
11/11/2015	9.3	3.2	18.4	08:00	0	100.0
12/11/2015	12.9	6.0	27.9	11:00	0	100.0
13/11/2015	15.4	4.0	25.8	11:00	0	91.7
14/11/2015	7.8	1.3	18.0	10:00	0	100.0
15/11/2015	10.5	1.0	27.9	21:00	0	87.5
16/11/2015	15.5	7.2	27.3	14:00	0	100.0
17/11/2015	17.8	11.0	30.2	15:00	0	100.0
18/11/2015	19.0	6.9	38.5	17:00	0	95.8
19/11/2015	21.4	5.2	54.4	17:00	0	91.7
¹ 20/11/2015	-	-	-	-	0	0.0
¹ 21/11/2015	-	-	-	-	0	0.0
¹ 22/11/2015	-	27.5	42.6	22:00	0	8.3
23/11/2015	25.0	3.4	53.3	12:00	0	95.8
24/11/2015	16.6	1.0	36.8	16:00	0	87.5
25/11/2015	14.0	1.4	35.3	14:00	0	87.5
26/11/2015	14.7	0.0	43.9	14:00	0	91.7
27/11/2015	27.7	6.0	47.8	09:00	0	100.0
28/11/2015	25.6	16.3	35.9	13:00	0	100.0
29/11/2015	15.7	7.1	33.4	14:00	0	100.0
30/11/2015	19.6	5.4	38.9	15:00	0	95.8

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

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

¹ Loss of data due to instrument fault

Table 28 Station 5 PM₁₀ Monthly Summary

Graphical Representations

Nitrogen Dioxide

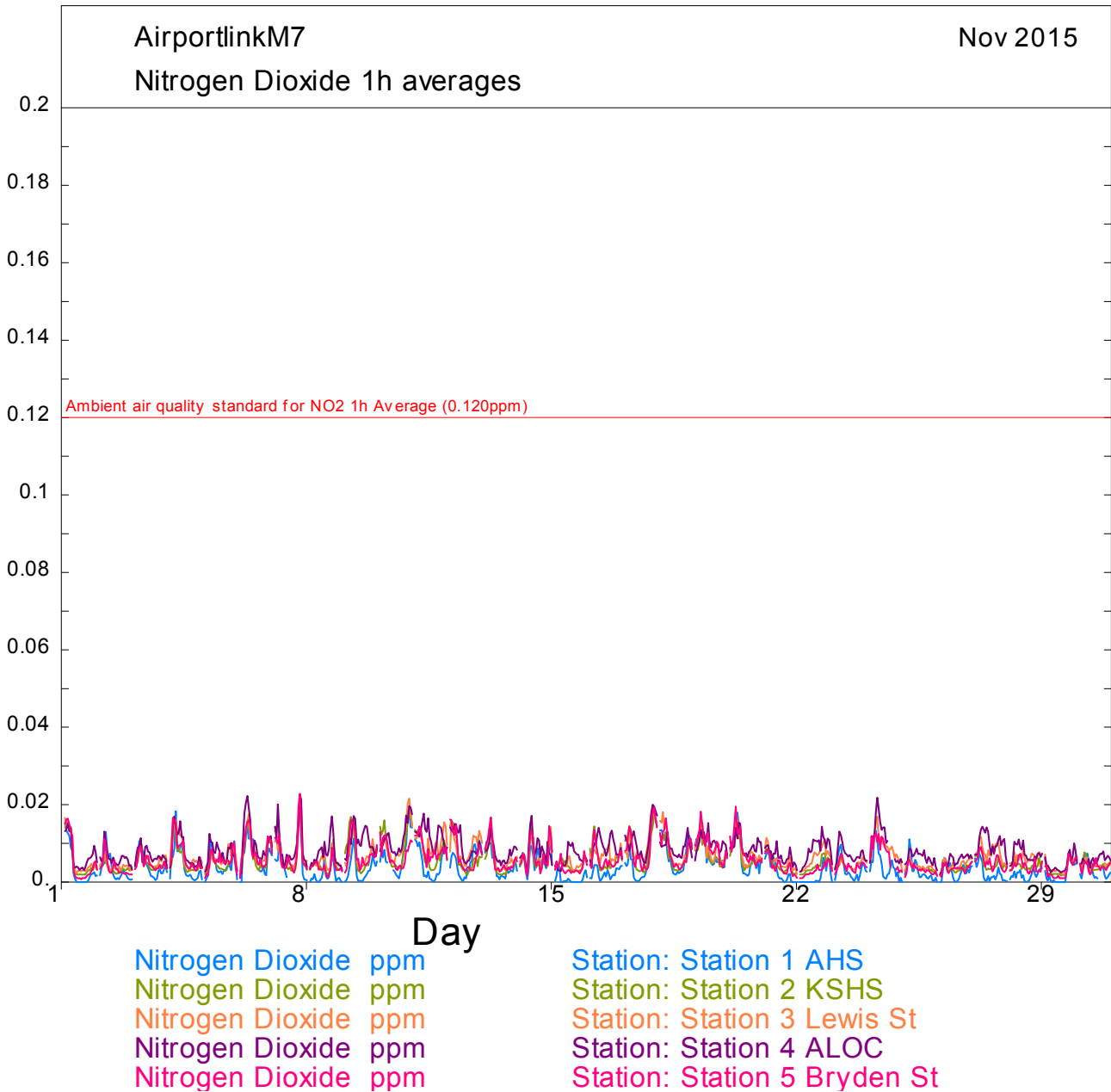


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

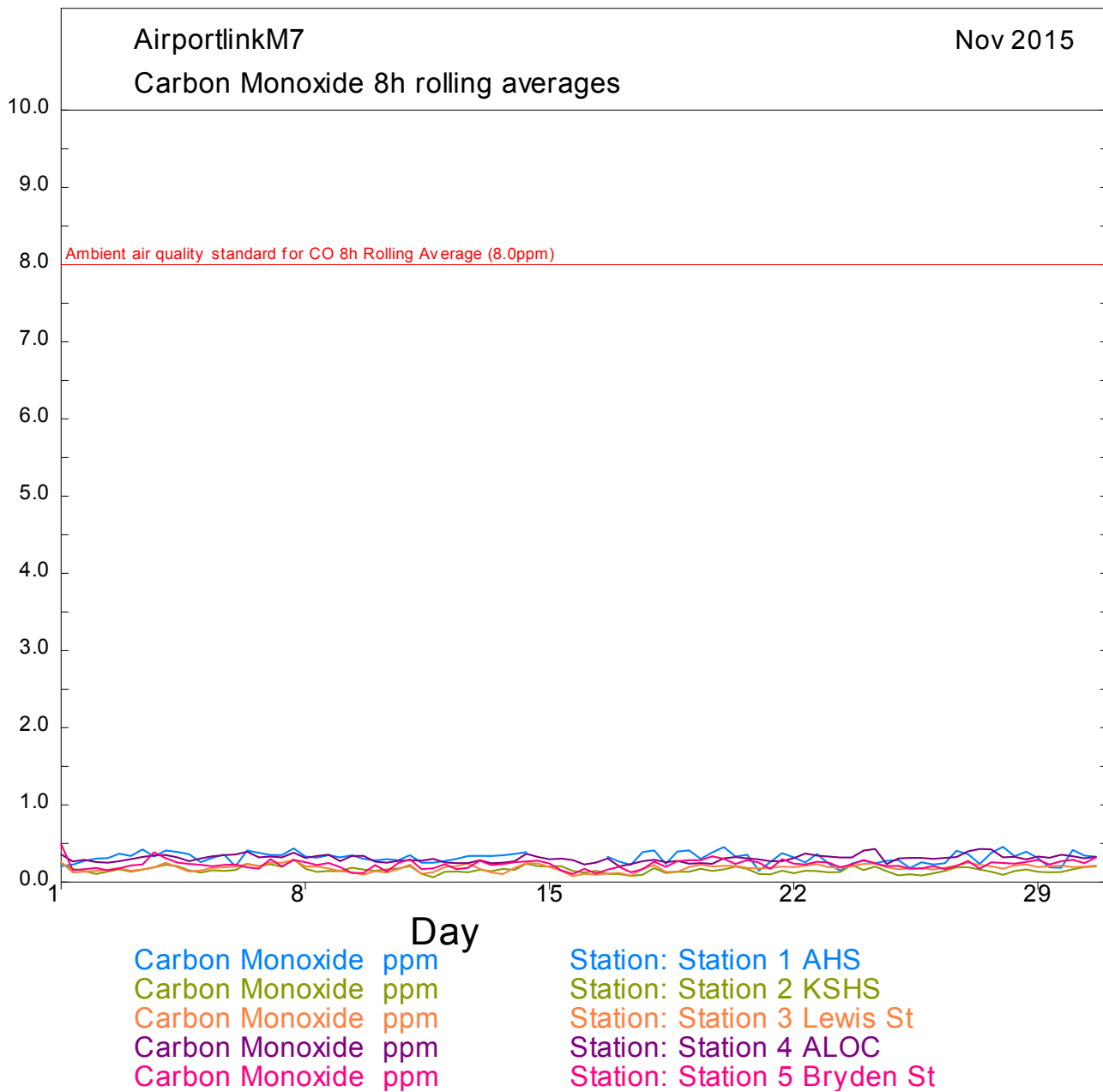


Figure 2 Carbon Monoxide 8hr rolling averages

PM₁₀ 24hr Averages

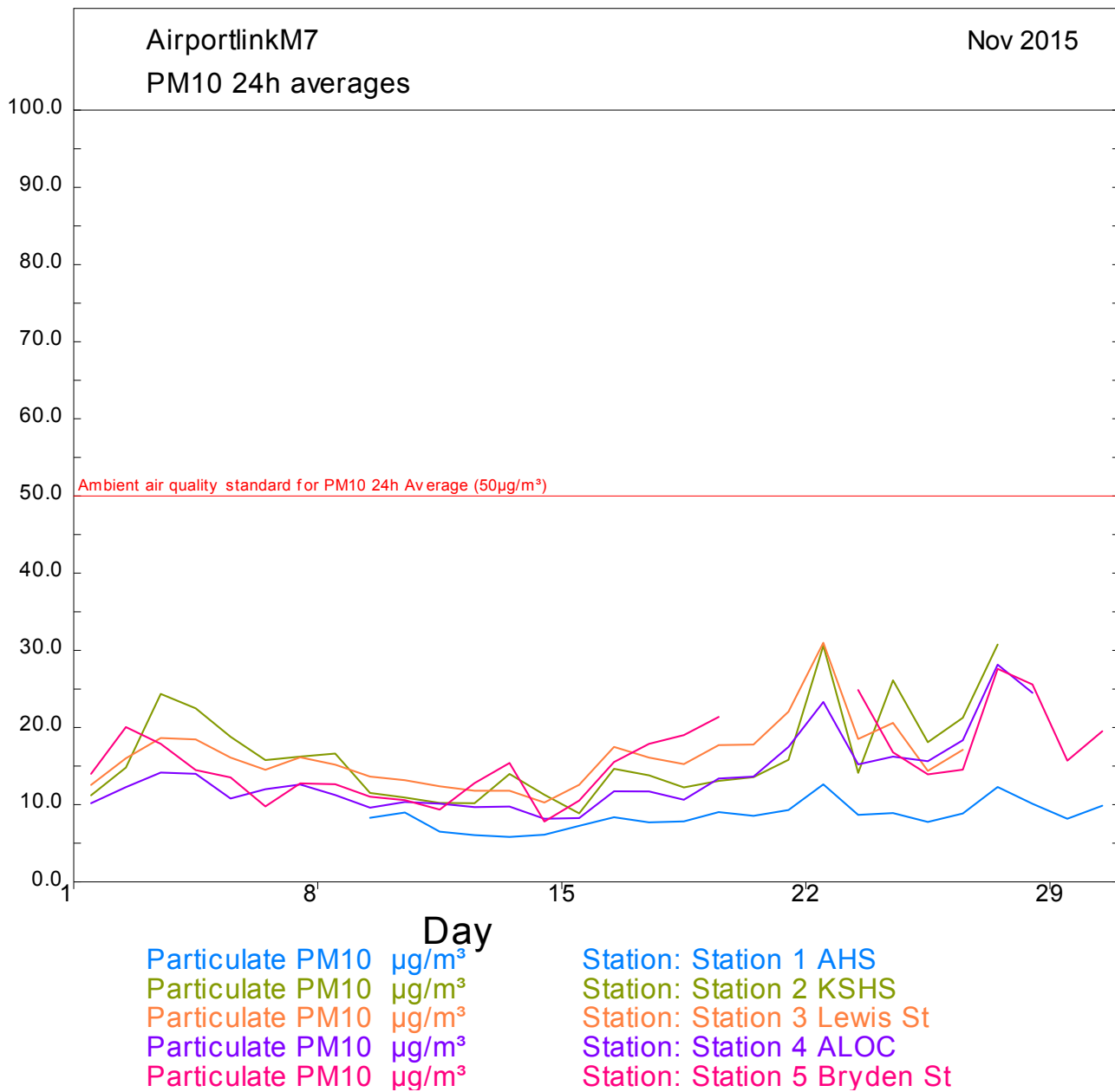


Figure 3 PM₁₀ 24hr Averages

PM_{2.5} 24hr Averages

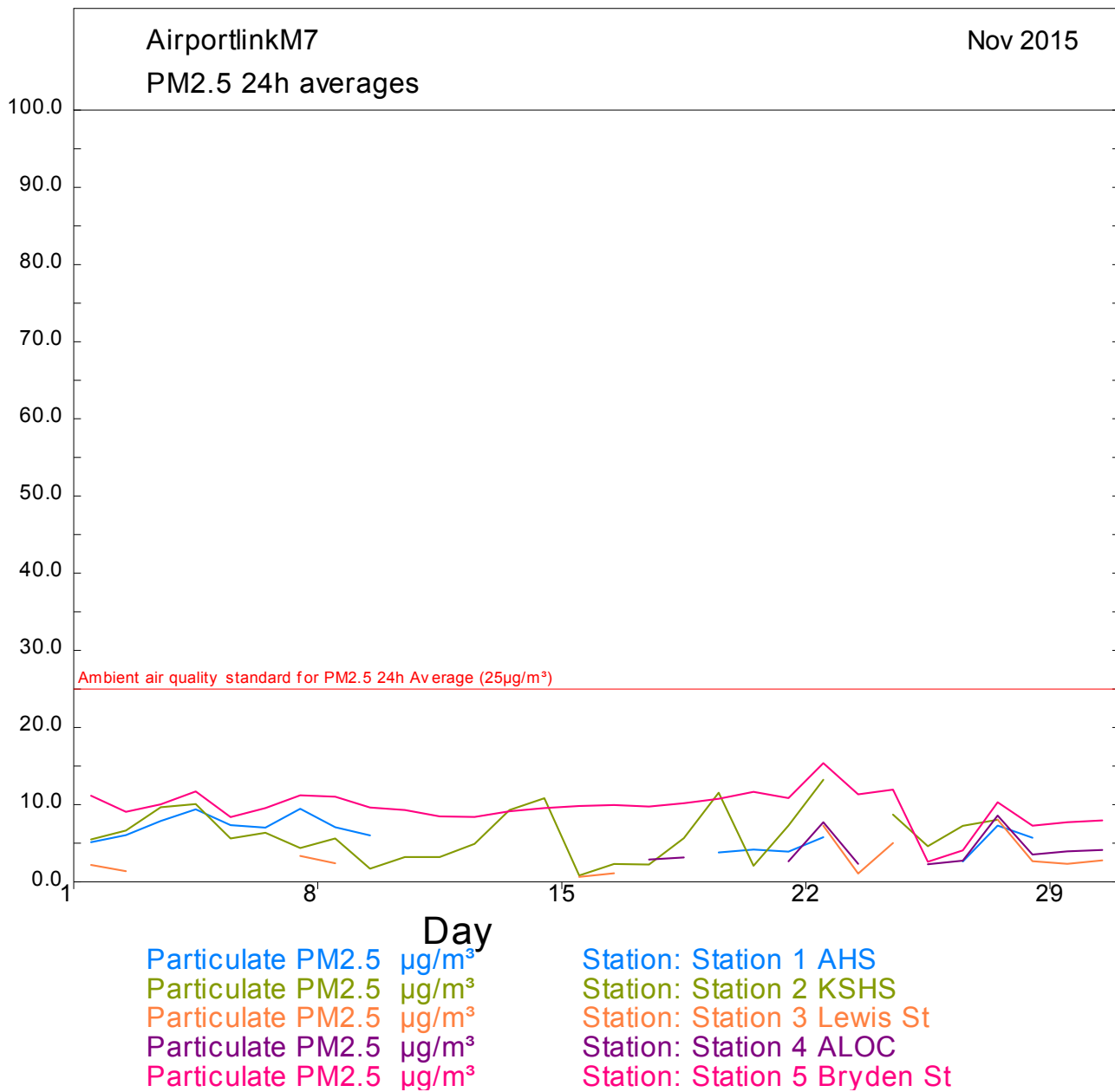


Figure 4 PM_{2.5} 24hr Averages

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 November 2015					
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 BS ($\mu\text{g}/\text{m}^3$)
2/11/2015	35	26	25	23	35
8/11/2015	21	22	22	25	20
14/11/2015	17	16	16	17	16
20/11/2015	46	38	38	40	56
26/11/2015	40	32	32	36	46
Monthly Average	31.8	26.8	26.6	28.2	34.6

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
1/11/2015	30/11/2015 23:55:00	NO, NO ₂ , NO _x	Data adjusted. Multiplier A 0.891304, B 0.891304	5/15/2015	CP
1/11/2015 01:20:00	30/11/2015 13:30:00	PM _{2.5}	Intermittent instrument faults – error code logged	5/15/2015	CP
1/11/2015 02:00:00	27/11/2015 18:50:00	PM ₁₀ , PM _{2.5}	Intermittent instances of PM _{2.5} > PM ₁₀	5/15/2015	CP
1/11/2015 07:20:00	8/11/2015 16:40:00	PM ₁₀	Instrument fault	5/15/2015	CP
1/11/2015 12:55:00	30/11/2015 23:55:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	5/15/2015	CP
7/11/2015 10:45:00	7/11/2015 16:50:00	NO, NO ₂ , NO _x	Instrument fault (air conditioner failure)	5/15/2015	CP
10/11/2015 08:15:00	10/11/2015 10:40:00	NO, NO ₂ , NO _x	Instrument fault (air conditioner failure)	5/15/2015	CP
14/11/2015 09:30:00	16/11/2015 15:45:00	CO	Instrument fault (air conditioner failure)	5/15/2015	CP
30/11/2015 15:30:00	30/11/2015 17:50:00	All parameters	Maintenance	5/15/2015	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
6/11/2015 12:20:00	28/11/2015 07:40:00	PM _{2.5}	Intermittent unrealistic data	5/12/2015	CP
22/11/2015 17:50:00	30/11/2015 09:45:00	PM _{2.5} , PM ₁₀	Intermittent PM _{2.5} > PM ₁₀	5/12/2015	CP
23/11/2015 07:20:00	24/11/2015 00:55:00	CO	Intermittent automatic reference calibrations	5/12/2015	CP
23/11/2015 09:05:00	25/11/2015 15:25:00	NO, NO ₂ , NO _x	Instrument fault	5/12/2015	CP
25/11/2015 15:30:00	25/11/2015 17:35:00	All parameters	Maintenance	5/12/2015	CP
26/11/2015 01:40:00	30/11/2015 23:55:00	NO, NO ₂ , NO _x	Data adjusted. Multiplier A 1.0, B 1.096419	5/12/2015	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
1/11/2015 01:05:00	30/11/2015 22:55:00	PM _{2.5}	Intermittent instrument faults – error code logged	5/12/2015	CP
1/11/2015 08:55:00	30/11/2015 01:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	5/12/2015	CP
3/11/2015 05:55:00	4/11/2015 14:50:00	PM _{2.5}	Instrument fault	5/12/2015	CP
30/11/2015 17:05:00	30/11/2015 18:50:00	All parameters	Scheduled maintenance	5/12/2015	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
1/11/2015 01:05:00	30/11/2015 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	5/12/2015	CP
1/11/2015 02:55:00	30/11/2015 23:55:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	5/12/2015	CP
24/11/2015 15:30:00	24/11/2015 18:50:00	All parameters	Scheduled maintenance	5/12/2015	CP

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

Station 5 Bryden St

Station 5 Bryden Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/11/2015 00:50:00	1/11/2015 05:45:00	NO, NO ₂ , NO _x	Intermittent instrument fault	5/12/2015	CP
1/11/2015 00:55:00	30/11/2015 23:25:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	5/12/2015	CP
2/11/2015 12:55:00	26/11/2015 14:50:00	PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	5/12/2015	CP
7/11/2015 16:55:00	30/11/2015 17:50:00	PM _{2.5} , PM ₁₀	Intermittent instances of PM _{2.5} > PM ₁₀	5/12/2015	CP
11/11/2015 04:00:00	11/11/2015 04:00:00	All parameters	Communication error	5/12/2015	CP
12/11/2015 20:00:00	12/11/2015 20:00:00	All parameters	Communication error	5/12/2015	CP
19/11/2015 21:55:00	22/11/2015 21:50:00	PM ₁₀	Instrument fault	5/12/2015	CP
24/11/2015 17:15:00	24/11/2015 19:50:00	All parameters	Scheduled maintenance	5/12/2015	CP
25/11/2015 17:55:00	25/11/2015 18:00:00	NO, NO ₂ , NO _x , CO	Maintenance	5/12/2015	CP

Table 34 Station 5 Bryden St AQMS Data Validation Table