



Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

June 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 June 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences June 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 Leighton Contractors 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

- 201503 ALM7 Monthly Validated Data Spreadsheets.xlsx
 - Sheet 1 – 1 hour average data
 - Sheet 2 – 8 hour average data
 - Sheet 3 – 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	29/06/15	29/06/15	29/06/15	29/06/15	29/06/15
CO	ppm	2.56%	AS 3580.7.1	29/06/15	03/07/15	29/06/15	29/06/15	29/06/15
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308-170	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
TSP	µg/m ³	7.34%	AS 3580.9.3	03/07/15	01/07/15	01/07/15	01/07/15	01/07/15

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 June 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.010	0.2	3.0	11.1
Min 1hr Average	-0.001	0.1	-1.0	1.7
Max 1hr Average	0.039	1.3	30.6	176.7
Max 8hr Rolling Average	N/A	0.9	N/A	N/A
Max 24hr Average	N/A	N/A	10.4	23.8
Capture Rate (%)	89.9	86.9	64.4	98.2

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 June 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		
1/06/2015	0.005	-0.001	0.011	17:00	0	87.5
¹ 2/06/2015	-	-	-	-	0	26.1
3/06/2015	0.018	0.005	0.035	17:00	0	95.8
4/06/2015	0.021	0.009	0.039	19:00	0	95.8
5/06/2015	0.012	0.002	0.025	7:00	0	95.8
6/06/2015	0.005	0.001	0.010	7:00	0	95.8
7/06/2015	0.003	-0.001	0.013	21:00	0	95.8
8/06/2015	0.009	0.000	0.025	18:00	0	95.8
9/06/2015	0.018	0.006	0.033	18:00	0	95.8
10/06/2015	0.010	0.002	0.019	6:00	0	95.8
11/06/2015	0.006	0.002	0.018	7:00	0	95.8
12/06/2015	0.008	0.001	0.018	18:00	0	95.8
13/06/2015	0.004	0.000	0.012	8:00	0	95.8
14/06/2015	0.004	-0.001	0.012	19:00	0	95.8
15/06/2015	0.007	0.000	0.017	8:00	0	95.8
16/06/2015	0.013	0.000	0.021	17:00	0	95.8
17/06/2015	0.016	0.009	0.026	15:00	0	95.8
18/06/2015	0.013	0.001	0.033	18:00	0	95.8
19/06/2015	0.008	0.001	0.019	17:00	0	95.8
20/06/2015	0.007	0.001	0.017	7:00	0	95.8
¹ 21/06/2015	-	-	-	-	0	4.2
22/06/2015	0.011	0.001	0.026	18:00	0	95.7
23/06/2015	0.013	0.003	0.025	18:00	0	95.8
24/06/2015	0.011	0.004	0.019	21:00	0	95.8
25/06/2015	0.015	0.007	0.023	19:00	0	95.8
26/06/2015	0.005	0.000	0.012	8:00	0	95.8
27/06/2015	0.005	0.000	0.013	19:00	0	95.8
28/06/2015	0.003	0.000	0.009	20:00	0	95.8
29/06/2015	0.008	0.002	0.019	17:00	0	91.7
30/06/2015	0.013	0.002	0.028	17:00	0	95.8

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

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

Table 5 Station 1 Nitrogen Dioxide Monthly Summary

¹.No data due to instrument fault

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary June 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 1/06/2015	-	-	-	-	-	-	0	0.0
¹ 2/06/2015	-	-	-	-	-	-	0	28.8
3/06/2015	0.5	0.1	1.3	19:00	0.8	23:00	0	95.8
4/06/2015	0.5	0.2	1.0	19:00	0.9	1:00	0	95.8
5/06/2015	0.3	0.1	0.8	7:00	0.7	1:00	0	95.8
6/06/2015	0.1	0.1	0.2	17:00	0.2	0:00	0	96.5
7/06/2015	0.1	0.1	0.3	21:00	0.2	23:00	0	95.8
8/06/2015	0.3	0.1	0.9	19:00	0.6	23:00	0	95.8
9/06/2015	0.4	0.1	1.0	21:00	0.7	23:00	0	96.2
10/06/2015	0.2	0.1	0.7	00:00	0.8	1:00	0	96.5
11/06/2015	0.1	0.1	0.2	7:00	0.1	8:00	0	96.9
12/06/2015	0.2	0.1	0.3	12:00	0.2	23:00	0	96.2
13/06/2015	0.1	0.1	0.2	17:00	0.2	0:00	0	96.5
14/06/2015	0.2	0.1	0.3	8:00	0.2	10:00	0	96.2
15/06/2015	0.1	0.1	0.3	8:00	0.2	10:00	0	96.2
16/06/2015	0.2	0.1	0.3	15:00	0.3	15:00	0	96.5
17/06/2015	0.3	0.2	0.6	23:00	0.5	23:00	0	96.9
18/06/2015	0.4	0.1	0.7	18:00	0.5	6:00	0	96.2
19/06/2015	0.2	0.1	0.5	6:00	0.4	0:00	0	96.2
20/06/2015	0.2	0.1	0.3	7:00	0.2	0:00	0	95.5
¹ 21/06/2015	-	-	-	-	-	-	0	4.2
22/06/2015	0.2	0.1	0.3	19:00	0.2	23:00	0	92.3
23/06/2015	0.3	0.1	0.9	18:00	0.4	23:00	0	96.5
24/06/2015	0.2	0.1	0.3	9:00	0.4	1:00	0	96.5
25/06/2015	0.3	0.2	0.5	21:00	0.4	22:00	0	96.5
26/06/2015	0.1	0.1	0.2	8:00	0.3	0:00	0	96.5
27/06/2015	0.1	0.1	0.2	19:00	0.2	23:00	0	96.2
28/06/2015	0.1	0.1	0.2	10:00	0.2	0:00	0	96.2
29/06/2015	0.2	0.2	0.4	17:00	0.2	23:00	0	92.7
30/06/2015	0.3	0.1	0.9	21:00	0.6	23:00	0	95.5

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 6 Station 1 Carbon Monoxide Monthly Summary

1.No data due to instrument fault

PM_{2.5} Summary
Station 1 Aviation High School Ambient AQMS Particulate PM_{2.5} Summary June 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
¹ 1/06/2015	-	-	-	-	0	54.2
2/06/2015	10.4	-0.7	30.6	18:00	0	79.2
3/06/2015	9.4	-0.8	21.0	20:00	0	83.3
4/06/2015	10.4	1.3	18.0	20:00	0	100.0
5/06/2015	5.7	-1.0	21.0	16:00	0	91.7
6/06/2015	1.4	-1.0	4.8	1:00	0	83.3
¹ 7/06/2015	-	-	-	-	0	66.7
¹ 8/06/2015	-	-	-	-	0	66.7
9/06/2015	5.1	0.0	12.6	23:00	0	91.7
10/06/2015	5.1	1.0	10.9	4:00	0	95.8
¹ 11/06/2015	-	-	-	-	0	50.0
12/06/2015	0.3	-1.0	4.7	22:00	0	79.2
¹ 13/06/2015	-	-	-	-	0	39.1
¹ 14/06/2015	-	-	-	-	0	29.2
¹ 15/06/2015	-	-	-	-	0	20.8
¹ 16/06/2015	-	-	-	-	0	43.5
¹ 17/06/2015	-	-	-	-	0	47.8
18/06/2015	5.3	-0.8	11.7	21:00	0	87.5
¹ 19/06/2015	-	-	-	-	0	62.5
20/06/2015	3.2	-1.0	6.8	5:00	0	79.2
¹ 21/06/2015	-	-	-	-	0	58.3
¹ 22/06/2015	-	-	-	-	0	66.7
23/06/2015	2.5	-1.0	15.2	19:00	0	79.2
¹ 24/06/2015	-	-	-	-	0	62.5
25/06/2015	3.7	-1.0	10.4	9:00	0	87.5
¹ 26/06/2015	-	-	-	-	0	45.8
¹ 27/06/2015	-	-	-	-	0	56.5
¹ 28/06/2015	-	-	-	-	0	29.2
¹ 29/06/2015	-	-	-	-	0	26.1
30/06/2015	2.6	-1.0	10.5	23:00	0	82.6

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

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

Table 7 Station 1 PM_{2.5} Monthly Summary

1.No data due to negative readings

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

Date	24 hr Avg (µg/m3)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m3	Capture Rate
		Min (µg/m3)	Max (µg/m3)	Time of Max		
1/06/2015	6.8	2.0	11.2	18:00	0	100.0
2/06/2015	17.7	4.5	47.9	17:00	0	95.8
3/06/2015	20.6	10.6	39.6	17:00	0	100.0
4/06/2015	23.8	16.1	32.5	18:00	0	100.0
5/06/2015	20.8	2.7	176.7	13:00	0	100.0
6/06/2015	10.4	3.5	16.1	12:00	0	100.0
7/06/2015	10.3	6.4	15.6	19:00	0	100.0
8/06/2015	12.2	6.2	27.8	20:00	0	100.0
9/06/2015	17.2	7.9	26.5	15:00	0	100.0
10/06/2015	16.5	10.9	24.7	17:00	0	100.0
11/06/2015	10.8	4.6	24.4	8:00	0	100.0
12/06/2015	8.5	4.0	26.8	12:00	0	95.8
13/06/2015	6.4	4.1	11.2	7:00	0	95.8
14/06/2015	6.6	3.4	12.3	10:00	0	95.8
15/06/2015	7.6	3.2	17.6	18:00	0	100.0
16/06/2015	7.1	1.7	15.0	8:00	0	100.0
17/06/2015	10.3	3.5	15.7	21:00	0	95.8
18/06/2015	12.4	4.6	37.2	9:00	0	87.5
19/06/2015	6.8	2.8	15.9	6:00	0	95.8
20/06/2015	9.2	3.8	19.6	17:00	0	100.0
21/06/2015	10.2	3.8	18.0	20:00	0	100.0
22/06/2015	12.7	8.1	27.5	11:00	0	100.0
23/06/2015	11.9	5.7	26.7	18:00	0	100.0
24/06/2015	10.4	3.6	40.2	9:00	0	100.0
25/06/2015	12.0	7.0	24.7	7:00	0	100.0
26/06/2015	8.8	6.0	14.7	17:00	0	100.0
27/06/2015	9.0	5.0	14.4	12:00	0	100.0
28/06/2015	8.0	2.3	22.5	11:00	0	95.8
29/06/2015	6.4	3.8	11.5	18:00	0	91.7
30/06/2015	12.8	3.9	24.8	20:00	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 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary June 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.012	0.2	4.1	10.6
Min 1hr Average	0.002	0.0	-1.0	-0.8
Max 1hr Average	0.034	0.9	34.0	48.3
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	10.8	20.7
Capture Rate (%)	69.4	59.2	95.1	99.0

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 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary June 2015

Date	24hr Avg (ppm)	Min (ppm)	1 hr Avgs		Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
			Max (ppm)	Time of Max		
1/06/2015	0.006	0.002	0.010	7:00	0	95.8
2/06/2015	0.013	0.004	0.029	18:00	0	95.8
3/06/2015	0.018	0.007	0.032	18:00	0	91.7
4/06/2015	0.019	0.009	0.034	19:00	0	95.8
5/06/2015	0.010	0.005	0.022	7:00	0	95.8
6/06/2015	0.008	0.003	0.017	17:00	0	95.8
¹ 7/06/2015	-	-	-	-	0	45.8
¹ 8/06/2015	-	-	-	-	0	0.0
¹ 9/06/2015	-	-	-	-	0	0.0
¹ 10/06/2015	-	-	-	-	0	0.0
¹ 11/06/2015	-	-	-	-	0	0.0
¹ 12/06/2015	-	-	-	-	0	0.0
¹ 13/06/2015	-	-	-	-	0	0.0
¹ 14/06/2015	-	-	-	-	0	0.0
¹ 15/06/2015	-	-	-	-	0	43.5
16/06/2015	0.014	0.004	0.023	7:00	0	95.8
17/06/2015	0.015	0.007	0.022	17:00	0	95.8
18/06/2015	0.014	0.004	0.029	18:00	0	95.8
19/06/2015	0.009	0.004	0.016	17:00	0	91.7
20/06/2015	0.009	0.003	0.018	23:00	0	95.8
21/06/2015	0.008	0.004	0.022	20:00	0	95.8
22/06/2015	0.015	0.006	0.028	19:00	0	95.8
23/06/2015	0.018	0.008	0.025	18:00	0	95.8
24/06/2015	0.015	0.006	0.020	7:00	0	95.8
25/06/2015	0.016	0.006	0.025	18:00	0	95.8
26/06/2015	0.011	0.004	0.022	7:00	0	95.8
27/06/2015	0.010	0.005	0.017	19:00	0	95.8
28/06/2015	0.008	0.004	0.014	0:00	0	95.8
29/06/2015	0.011	0.004	0.021	7:00	0	87.5
30/06/2015	0.014	0.004	0.028	19:00	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 10 Station 2 Nitrogen Dioxide Monthly Summary

1.No data due to instrument fault

Carbon Monoxide Summary

Station 2 Kedron State High School Ambient AQMS Carbon Monoxide Summary June 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		
1/06/2015	0.1	0.0	0.1	07:00	0.3	00:00	0	96.5
2/06/2015	0.2	0.0	0.7	20:00	0.5	23:00	0	96.5
3/06/2015	0.4	0.1	0.9	20:00	0.7	23:00	0	92.7
4/06/2015	0.4	0.2	0.8	19:00	0.7	1:00	0	96.5
5/06/2015	0.2	0.1	0.5	7:00	0.6	1:00	0	96.5
¹ 6/06/2015	-	-	-	-	-	-	0	0.0
¹ 7/06/2015	-	-	-	-	-	-	0	0.0
¹ 8/06/2015	-	-	-	-	-	-	0	0.0
¹ 9/06/2015	-	-	-	-	-	-	0	0.0
¹ 10/06/2015	-	-	-	-	-	-	0	43.2
11/06/2015	0.1	0.1	0.3	6:00	0.6	0:00	0	96.5
12/06/2015	0.2	0.1	0.3	17:00	0.3	23:00	0	96.5
13/06/2015	0.2	0.1	0.3	9:00	0.3	0:00	0	96.5
14/06/2015	0.2	0.2	0.3	20:00	0.2	23:00	0	96.5
15/06/2015	0.2	0.1	0.3	8:00	0.3	10:00	0	93.8
16/06/2015	0.2	0.1	0.4	7:00	0.3	13:00	0	96.5
² 17/06/2015	-	-	-	-	-	-	0	4.2
² 18/06/2015	-	-	-	-	-	-	0	0.0
19/06/2015	0.1	0.1	0.3	5:00	0.2	7:00	0	89.5
¹ 20/06/2015	-	-	-	-	-	-	0	42.0
21/06/2015	0.2	0.1	0.3	20:00	-	-	0	74.6
22/06/2015	0.2	0.2	0.4	19:00	0.3	23:00	0	96.2
23/06/2015	0.3	0.2	0.7	20:00	0.4	23:00	0	96.5
24/06/2015	0.2	0.1	0.4	6:00	0.5	0:00	0	96.5
25/06/2015	0.3	0.1	0.5	18:00	0.3	23:00	0	96.5
26/06/2015	0.5	0.1	0.8	17:00	0.7	22:00	0	96.5
¹ 27/06/2015	-	-	-	-	-	-	0	4.2
¹ 28/06/2015	-	-	-	-	-	-	0	0.0
¹ 29/06/2015	-	-	-	-	-	-	0	0.0
¹ 30/06/2015	-	-	-	-	-	-	0	0.0

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

Table 11 Station 2 Carbon Monoxide Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to span out of tolerance

PM_{2.5} Summary

Station 2 Kedron State High School Ambient AQMS Particulate PM_{2.5} Summary June 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2015	2.5	0.0	6.9	01:00	0	91.7
2/06/2015	8.4	-1.0	34.0	17:00	0	95.8
3/06/2015	10.6	2.3	20.7	21:00	0	100.0
4/06/2015	10.8	0.3	18.8	22:00	0	100.0
5/06/2015	6.8	-0.8	15.8	10:00	0	100.0
6/06/2015	3.0	-1.0	5.8	17:00	0	100.0
7/06/2015	3.2	-0.8	7.0	23:00	0	91.7
8/06/2015	4.5	-1.0	10.0	23:00	0	91.7
9/06/2015	5.6	0.2	10.0	21:00	0	100.0
10/06/2015	6.3	-0.7	12.0	10:00	0	100.0
11/06/2015	3.1	-1.0	7.6	9:00	0	95.8
12/06/2015	2.6	0.0	5.8	11:00	0	95.8
13/06/2015	2.3	-1.0	5.9	20:00	0	87.5
14/06/2015	1.9	-0.8	5.8	10:00	0	100.0
15/06/2015	2.2	-0.9	4.6	22:00	0	95.8
16/06/2015	2.3	-1.0	10.7	9:00	0	95.7
17/06/2015	4.0	-0.8	13.7	23:00	0	100.0
18/06/2015	7.0	0.1	12.9	9:00	0	100.0
19/06/2015	3.0	0.0	7.8	0:00	0	87.5
20/06/2015	3.6	-0.9	10.8	23:00	0	100.0
21/06/2015	2.9	-1.0	8.8	21:00	0	100.0
22/06/2015	2.9	0.1	7.8	7:00	0	91.7
23/06/2015	5.7	2.4	9.9	20:00	0	100.0
24/06/2015	3.2	0.0	8.8	0:00	0	100.0
25/06/2015	7.1	1.5	12.7	7:00	0	95.8
26/06/2015	2.0	-0.9	4.8	6:00	0	91.7
27/06/2015	2.2	-0.8	5.0	19:00	0	95.8
28/06/2015	1.8	-1.0	5.7	9:00	0	75.0
29/06/2015	2.5	-1.0	6.0	18:00	0	83.3
30/06/2015	4.4	-0.8	11.5	10:00	0	100.0

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

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

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 Kedron State High School Ambient AQMS Particulate PM10 Summary June 2015

Date	24 hr Avg (µg/m ³)	Min (µg/m ³)	1 hr Avgs		No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
			Max (µg/m ³)	Time of Max		
1/06/2015	8.2	1.5	36.6	04:00	0	100.0
2/06/2015	14.8	0.5	48.3	18:00	0	100.0
3/06/2015	18.9	8.0	35.0	21:00	0	100.0
4/06/2015	20.7	13.0	29.5	20:00	0	100.0
5/06/2015	12.0	6.0	27.3	11:00	0	100.0
6/06/2015	7.4	3.3	15.7	13:00	0	100.0
7/06/2015	8.4	4.1	17.1	19:00	0	100.0
8/06/2015	10.6	4.2	16.7	20:00	0	100.0
9/06/2015	15.2	1.3	21.9	11:00	0	100.0
10/06/2015	17.6	7.3	27.0	11:00	0	100.0
11/06/2015	11.4	6.0	24.4	9:00	0	100.0
12/06/2015	9.6	4.1	19.4	21:00	0	100.0
13/06/2015	7.5	1.4	10.8	10:00	0	100.0
14/06/2015	8.3	3.2	12.9	9:00	0	100.0
15/06/2015	8.6	2.3	16.5	21:00	0	100.0
16/06/2015	8.8	1.1	19.8	9:00	0	100.0
17/06/2015	10.4	1.4	18.2	23:00	0	100.0
18/06/2015	11.4	4.2	20.5	19:00	0	100.0
19/06/2015	7.3	0.0	14.8	0:00	0	95.8
20/06/2015	8.3	0.3	15.8	22:00	0	100.0
21/06/2015	11.0	3.2	24.0	20:00	0	100.0
22/06/2015	12.5	6.3	17.9	19:00	0	100.0
23/06/2015	12.8	5.0	23.0	20:00	0	95.8
24/06/2015	11.0	0.2	22.3	8:00	0	100.0
25/06/2015	12.8	7.2	22.6	11:00	0	100.0
26/06/2015	8.3	2.3	18.4	9:00	0	100.0
27/06/2015	9.0	5.0	12.8	14:00	0	100.0
28/06/2015	7.5	3.4	10.8	17:00	0	95.8
29/06/2015	4.7	-0.8	10.9	17:00	0	87.5
30/06/2015	10.1	2.0	19.6	22:00	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 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary June 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.011	0.4	3.9	9.7
Min 1hr Average	0.002	0.0	-1.0	1.6
Max 1hr Average	0.031	1.3	37.5	48.6
Max 8hr Rolling Average	N/A	1.0	N/A	N/A
Max 24hr Average	N/A	N/A	11.2	21.4
Capture Rate (%)	93.1	95.6	95.7	99.2

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 June 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 1/06/2015	-	-	-	-	0	20.8
2/06/2015	0.012	0.003	0.028	18:00	0	95.8
3/06/2015	0.016	0.004	0.027	20:00	0	95.8
4/06/2015	0.019	0.010	0.031	20:00	0	95.8
5/06/2015	0.010	0.003	0.019	0:00	0	95.8
6/06/2015	0.007	0.003	0.014	23:00	0	95.8
7/06/2015	0.007	0.003	0.017	23:00	0	95.8
8/06/2015	0.011	0.004	0.020	18:00	0	95.8
9/06/2015	0.019	0.008	0.028	17:00	0	95.8
10/06/2015	0.013	0.007	0.021	8:00	0	95.8
11/06/2015	0.009	0.005	0.019	7:00	0	95.8
12/06/2015	0.011	0.006	0.019	18:00	0	95.8
13/06/2015	0.008	0.004	0.016	7:00	0	95.8
14/06/2015	0.007	0.003	0.016	19:00	0	95.8
15/06/2015	0.010	0.005	0.018	8:00	0	95.8
16/06/2015	0.013	0.004	0.021	17:00	0	95.8
17/06/2015	0.014	0.006	0.022	16:00	0	95.8
18/06/2015	0.012	0.002	0.024	18:00	0	95.8
19/06/2015	0.007	0.003	0.013	19:00	0	95.8
20/06/2015	0.009	0.003	0.019	22:00	0	95.8
21/06/2015	0.008	0.004	0.021	21:00	0	95.8
22/06/2015	0.013	0.005	0.024	18:00	0	95.8
23/06/2015	0.016	0.006	0.026	17:00	0	95.8
24/06/2015	0.014	0.007	0.020	7:00	0	95.8
25/06/2015	0.015	0.006	0.024	19:00	0	95.8
26/06/2015	0.010	0.004	0.017	6:00	0	95.8
27/06/2015	0.009	0.005	0.014	19:00	0	95.8
28/06/2015	0.008	0.004	0.013	6:00	0	95.83
29/06/2015	0.011	0.004	0.022	18:00	0	87.50
30/06/2015	0.014	0.004	0.027	18:00	0	95.83

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

1.No data due to span out of tolerance

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary June 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		
1/06/2015	0.2	0.0	0.3	00:00	0.4	01:00	0	96.9
2/06/2015	0.4	0.2	1.1	21:00	0.8	23:00	0	96.9
3/06/2015	0.6	0.3	1.3	20:00	0.9	23:00	0	96.9
4/06/2015	0.6	0.4	1.1	20:00	1.0	1:00	0	96.9
5/06/2015	0.3	0.2	0.7	7:00	0.9	1:00	0	95.8
6/06/2015	0.4	0.3	0.5	22:00	0.4	23:00	0	96.9
7/06/2015	0.3	0.3	0.4	21:00	0.4	0:00	0	96.9
8/06/2015	0.4	0.3	0.9	20:00	0.7	23:00	0	96.9
9/06/2015	0.5	0.3	1.1	21:00	0.8	23:00	0	96.9
10/06/2015	0.4	0.3	0.8	00:00	0.9	02:00	0	96.9
11/06/2015	0.3	0.3	0.4	8:00	0.3	14:00	0	96.9
12/06/2015	0.3	0.2	0.4	18:00	0.4	23:00	0	96.9
13/06/2015	0.3	0.3	0.4	18:00	0.4	23:00	0	96.9
14/06/2015	0.3	0.3	0.4	19:00	0.4	23:00	0	96.9
15/06/2015	0.3	0.3	0.4	8:00	0.4	11:00	0	96.9
16/06/2015	0.4	0.3	0.5	9:00	0.4	20:00	0	96.9
17/06/2015	0.4	0.3	0.6	23:00	0.5	23:00	0	96.9
18/06/2015	0.4	0.2	0.7	0:00	0.6	3:00	0	96.9
19/06/2015	0.3	0.2	0.5	0:00	0.5	1:00	0	96.9
20/06/2015	0.3	0.3	0.4	22:00	0.3	23:00	0	96.9
21/06/2015	0.3	0.2	0.4	21:00	0.4	23:00	0	96.9
22/06/2015	0.4	0.3	0.5	19:00	0.5	23:00	0	96.9
23/06/2015	0.5	0.3	1.0	20:00	0.6	23:00	0	96.9
24/06/2015	0.4	0.3	0.5	23:00	0.6	0:00	0	96.9
25/06/2015	0.4	0.3	0.5	20:00	0.5	23:00	0	96.9
26/06/2015	0.3	0.3	0.4	8:00	0.5	0:00	0	96.9
27/06/2015	0.3	0.2	0.4	18:00	0.4	23:00	0	96.9
28/06/2015	0.3	0.3	0.4	10:00	0.4	0:00	0	96.9
29/06/2015	0.4	0.3	0.5	18:00	0.4	22:00	0	91.0
30/06/2015	0.4	0.2	0.9	21:00	0.6	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 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary June 2015						
Date	24 hr Avg (µg/m3)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m3	Capture Rate
		Min (µg/m3)	Max (µg/m3)	Time of Max		
1/06/2015	1.8	-0.9	7.0	00:00	0	87.5
2/06/2015	10.2	0.0	37.5	18:00	0	95.8
3/06/2015	10.2	-1.0	22.9	20:00	0	95.8
4/06/2015	11.2	2.3	19.7	4:00	0	100.0
5/06/2015	7.6	0.0	18.5	0:00	0	87.5
6/06/2015	2.0	-0.9	7.9	0:00	0	100.0
7/06/2015	2.8	-0.9	6.1	23:00	0	100.0
8/06/2015	4.9	-0.7	19.6	21:00	0	95.8
9/06/2015	7.4	1.2	21.3	22:00	0	100.0
10/06/2015	6.9	0.2	12.8	0:00	0	100.0
11/06/2015	3.7	1.0	6.0	0:00	0	95.8
12/06/2015	2.9	-1.0	7.0	20:00	0	95.8
13/06/2015	1.4	-1.0	4.7	5:00	0	91.7
14/06/2015	2.8	-0.9	6.7	10:00	0	95.8
15/06/2015	1.9	-1.0	5.0	20:00	0	95.8
16/06/2015	1.0	-1.0	5.8	9:00	0	91.7
17/06/2015	3.0	-1.0	8.7	20:00	0	95.8
18/06/2015	7.4	0.1	16.2	20:00	0	91.7
19/06/2015	2.8	-1.0	8.7	1:00	0	87.5
20/06/2015	2.6	-1.0	7.8	23:00	0	91.7
21/06/2015	3.1	-0.9	9.7	22:00	0	100.0
22/06/2015	3.0	-0.5	7.9	20:00	0	95.8
23/06/2015	4.7	0.4	10.0	20:00	0	100.0
24/06/2015	3.9	0.3	7.7	22:00	0	100.0
25/06/2015	5.7	0.0	11.8	10:00	0	100.0
26/06/2015	2.6	-1.0	6.9	7:00	0	95.8
27/06/2015	3.1	-0.9	6.0	22:00	0	100.0
28/06/2015	1.0	-1.0	4.7	19:00	0	83.3
29/06/2015	1.5	-1.0	6.8	20:00	0	100.0
30/06/2015	4.1	0.0	12.0	22:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month. There will be no daily results if there is less than 75% valid data for that day
 Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary June 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		
1/06/2015	5.1	1.6	10.3	18:00	0	100.0
2/06/2015	16.9	3.5	48.6	17:00	0	100.0
3/06/2015	19.3	9.5	34.9	20:00	0	100.0
4/06/2015	21.4	13.7	35.5	7:00	0	100.0
5/06/2015	11.7	5.1	26.1	15:00	0	100.0
6/06/2015	11.4	5.9	35.4	4:00	0	100.0
7/06/2015	9.9	6.4	16.2	8:00	0	100.0
8/06/2015	11.5	5.6	24.0	19:00	0	100.0
9/06/2015	15.1	7.8	29.5	12:00	0	100.0
10/06/2015	14.6	9.5	29.9	7:00	0	100.0
11/06/2015	9.9	5.3	21.7	8:00	0	100.0
12/06/2015	7.5	3.0	12.1	8:00	0	100.0
13/06/2015	6.6	4.2	11.1	10:00	0	95.8
14/06/2015	6.0	2.5	11.3	15:00	0	100.0
15/06/2015	7.0	2.7	15.1	18:00	0	100.0
16/06/2015	5.9	1.7	9.9	9:00	0	95.8
17/06/2015	8.2	2.2	12.4	19:00	0	100.0
18/06/2015	9.6	3.8	23.0	9:00	0	87.5
19/06/2015	5.5	2.2	11.1	0:00	0	100.0
20/06/2015	8.2	3.5	18.7	17:00	0	100.0
21/06/2015	10.5	6.0	16.5	21:00	0	100.0
22/06/2015	10.9	6.9	17.7	18:00	0	100.0
23/06/2015	11.3	5.0	18.9	20:00	0	100.0
24/06/2015	8.4	3.0	13.4	8:00	0	100.0
25/06/2015	10.5	5.0	21.9	7:00	0	100.0
26/06/2015	8.2	5.0	13.9	8:00	0	100.0
27/06/2015	8.8	4.9	14.1	9:00	0	100.0
28/06/2015	7.2	1.7	15.8	7:00	0	95.8
29/06/2015	5.4	2.0	10.9	18:00	0	100.0
30/06/2015	10.4	2.4	19.2	18:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month. There will be no daily results if there is less than 75% valid data for that day
 Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary June 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.013	0.4	-	9.7
Min 1hr Average	0.002	0.1	-	0.2
Max 1hr Average	0.043	1.0	-	54.7
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	-	21.4
Capture Rate (%)	95.3	95.3	0.0	99.7

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 June 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		
1/06/2015	0.005	0.002	0.012	7:00	0	91.7
2/06/2015	0.014	0.002	0.039	18:00	0	95.8
3/06/2015	0.017	0.004	0.039	18:00	0	91.7
4/06/2015	0.021	0.010	0.043	18:00	0	95.8
5/06/2015	0.009	0.004	0.033	7:00	0	95.8
6/06/2015	0.006	0.002	0.011	18:00	0	95.8
7/06/2015	0.009	0.003	0.018	17:00	0	95.8
8/06/2015	0.012	0.004	0.031	18:00	0	95.8
9/06/2015	0.019	0.005	0.037	18:00	0	95.8
10/06/2015	0.017	0.010	0.024	16:00	0	95.8
11/06/2015	0.013	0.006	0.021	8:00	0	95.8
12/06/2015	0.014	0.004	0.023	19:00	0	95.8
13/06/2015	0.010	0.007	0.016	8:00	0	95.8
14/06/2015	0.009	0.005	0.015	19:00	0	95.8
15/06/2015	0.015	0.004	0.026	8:00	0	95.8
16/06/2015	0.016	0.004	0.027	17:00	0	95.8
17/06/2015	0.016	0.005	0.024	16:00	0	95.8
18/06/2015	0.012	0.003	0.028	18:00	0	95.8
19/06/2015	0.007	0.003	0.012	17:00	0	95.8
20/06/2015	0.008	0.002	0.019	17:00	0	95.8
21/06/2015	0.008	0.002	0.019	20:00	0	95.8
22/06/2015	0.017	0.004	0.035	17:00	0	95.8
23/06/2015	0.020	0.009	0.036	17:00	0	95.8
24/06/2015	0.018	0.007	0.028	16:00	0	95.8
25/06/2015	0.013	0.004	0.024	19:00	0	95.8
26/06/2015	0.009	0.002	0.014	17:00	0	95.8
27/06/2015	0.009	0.002	0.015	17:00	0	95.8
28/06/2015	0.010	0.003	0.019	18:00	0	95.8
29/06/2015	0.013	0.003	0.023	17:00	0	87.5
30/06/2015	0.015	0.003	0.037	18:00	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 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary June 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		
1/06/2015	0.3	0.2	0.3	07:00	0.3	12:00	0	95.1
2/06/2015	0.3	0.1	0.9	19:00	0.6	23:00	0	96.5
3/06/2015	0.5	0.2	1.0	18:00	0.7	23:00	0	94.4
4/06/2015	0.5	0.3	0.7	19:00	0.7	0:00	0	96.5
5/06/2015	0.3	0.2	0.6	7:00	0.6	0:00	0	95.8
6/06/2015	0.2	0.2	0.3	18:00	0.3	23:00	0	96.5
7/06/2015	0.3	0.3	0.4	17:00	0.4	23:00	0	96.5
8/06/2015	0.4	0.3	0.8	18:00	0.6	23:00	0	96.5
9/06/2015	0.5	0.3	0.8	20:00	0.6	0:00	0	96.5
10/06/2015	0.4	0.3	0.6	0:00	0.7	1:00	0	96.2
11/06/2015	0.3	0.2	0.4	8:00	0.4	14:00	0	96.5
12/06/2015	0.3	0.2	0.4	17:00	0.3	21:00	0	96.5
13/06/2015	0.3	0.2	0.4	9:00	0.3	16:00	0	96.5
14/06/2015	0.3	0.3	0.4	18:00	0.3	21:00	0	96.5
15/06/2015	0.4	0.3	0.5	8:00	0.4	21:00	0	96.5
16/06/2015	0.4	0.3	0.5	23:00	0.4	23:00	0	96.5
17/06/2015	0.4	0.3	0.8	23:00	0.6	23:00	0	96.5
18/06/2015	0.5	0.3	0.7	8:00	0.6	3:00	0	96.9
19/06/2015	0.3	0.2	0.3	6:00	0.4	1:00	0	96.9
20/06/2015	0.3	0.2	0.4	17:00	0.4	23:00	0	96.9
21/06/2015	0.3	0.2	0.4	17:00	0.4	0:00	0	96.9
22/06/2015	0.3	0.2	0.6	17:00	0.4	21:00	0	96.9
23/06/2015	0.4	0.3	0.7	17:00	0.6	22:00	0	96.9
24/06/2015	0.4	0.3	0.6	17:00	0.6	0:00	0	96.9
25/06/2015	0.4	0.3	0.6	8:00	0.5	0:00	0	96.9
26/06/2015	0.3	0.3	0.4	15:00	0.4	0:00	0	96.9
27/06/2015	0.3	0.2	0.4	12:00	0.3	18:00	0	96.9
28/06/2015	0.3	0.2	0.4	17:00	0.4	20:00	0	96.9
29/06/2015	0.3	0.2	0.5	8:00	0.3	11:00	0	89.9
30/06/2015	0.4	0.2	0.8	19:00	0.6	23:00	0	96.9

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

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

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary
Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM_{2.5} Summary June 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2015	-	-	-	-	0	0.0
2/06/2015	-	-	-	-	0	0.0
3/06/2015	-	-	-	-	0	0.0
4/06/2015	-	-	-	-	0	0.0
5/06/2015	-	-	-	-	0	0.0
6/06/2015	-	-	-	-	0	0.0
7/06/2015	-	-	-	-	0	0.0
8/06/2015	-	-	-	-	0	0.0
9/06/2015	-	-	-	-	0	0.0
10/06/2015	-	-	-	-	0	0.0
11/06/2015	-	-	-	-	0	0.0
12/06/2015	-	-	-	-	0	0.0
13/06/2015	-	-	-	-	0	0.0
14/06/2015	-	-	-	-	0	0.0
15/06/2015	-	-	-	-	0	0.0
16/06/2015	-	-	-	-	0	0.0
17/06/2015	-	-	-	-	0	0.0
18/06/2015	-	-	-	-	0	0.0
19/06/2015	-	-	-	-	0	0.0
20/06/2015	-	-	-	-	0	0.0
21/06/2015	-	-	-	-	0	0.0
22/06/2015	-	-	-	-	0	0.0
23/06/2015	-	-	-	-	0	0.0
24/06/2015	-	-	-	-	0	0.0
25/06/2015	-	-	-	-	0	0.0
26/06/2015	-	-	-	-	0	0.0
27/06/2015	-	-	-	-	0	0.0
28/06/2015	-	-	-	-	0	0.0
29/06/2015	-	-	-	-	0	0.0
30/06/2015	-	-	-	-	0	0.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
 There will be no daily results if there is less than 75% valid data for that day
 Table 22 Station 4 PM_{2.5} Monthly Summary

Note: No data due to instrument fault

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary June 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		
1/06/2015	7.2	0.2	19.0	11:00	0	100.0
2/06/2015	14.4	2.5	41.1	20:00	0	100.0
3/06/2015	19.1	10.5	39.7	20:00	0	100.0
4/06/2015	21.4	11.7	29.7	16:00	0	100.0
5/06/2015	13.7	5.1	34.1	11:00	0	100.0
6/06/2015	8.0	1.3	14.5	14:00	0	100.0
7/06/2015	10.2	4.1	17.0	20:00	0	100.0
8/06/2015	12.5	5.1	33.6	19:00	0	100.0
9/06/2015	15.6	6.1	25.3	21:00	0	100.0
10/06/2015	17.3	10.0	24.6	18:00	0	95.8
11/06/2015	12.3	3.2	23.7	9:00	0	95.8
12/06/2015	7.7	4.3	12.0	19:00	0	100.0
13/06/2015	6.2	0.3	11.7	12:00	0	100.0
14/06/2015	5.6	2.2	8.6	1:00	0	100.0
15/06/2015	9.3	2.0	22.5	14:00	0	100.0
16/06/2015	7.6	1.3	12.8	13:00	0	100.0
17/06/2015	8.8	1.4	17.6	21:00	0	100.0
18/06/2015	7.9	1.2	20.5	10:00	0	100.0
19/06/2015	3.8	1.0	7.9	12:00	0	100.0
20/06/2015	7.1	2.3	15.7	19:00	0	100.0
21/06/2015	10.0	3.2	16.7	23:00	0	100.0
22/06/2015	10.5	4.2	17.2	19:00	0	100.0
23/06/2015	11.2	4.3	17.9	17:00	0	100.0
24/06/2015	11.4	6.0	54.7	14:00	0	100.0
25/06/2015	9.0	4.3	15.9	21:00	0	100.0
26/06/2015	6.8	0.3	16.6	17:00	0	100.0
27/06/2015	6.6	2.0	9.9	11:00	0	100.0
28/06/2015	6.1	2.2	14.0	18:00	0	100.0
29/06/2015	5.5	1.2	9.8	16:00	0	100.0
30/06/2015	9.3	0.3	21.7	19:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day
Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Bryden Street)

Summary

Station 5 Bryden St Ambient AQMS Summary June 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.013	0.3	10.0	14.9
Min 1hr Average	0.001	0.1	0.6	1.2
Max 1hr Average	0.041	1.2	42.1	44.7
Max 8hr Rolling Average	N/A	0.8	N/A	N/A
Max 24hr Average	N/A	N/A	19.3	31.4
Capture Rate (%)	95.6	95.6	96.9	88.6

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 June 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		
1/06/2015	0.004	0.001	0.012	7:00	0	95.8
2/06/2015	0.014	0.001	0.037	17:00	0	95.8
3/06/2015	0.019	0.008	0.034	17:00	0	95.8
4/06/2015	0.021	0.007	0.041	18:00	0	95.8
5/06/2015	0.012	0.003	0.032	7:00	0	95.8
6/06/2015	0.008	0.002	0.016	18:00	0	95.8
7/06/2015	0.009	0.002	0.018	0:00	0	95.8
8/06/2015	0.013	0.002	0.029	18:00	0	95.8
9/06/2015	0.020	0.007	0.035	18:00	0	95.8
10/06/2015	0.015	0.006	0.023	6:00	0	95.8
11/06/2015	0.010	0.004	0.021	8:00	0	95.8
12/06/2015	0.015	0.006	0.023	17:00	0	95.8
13/06/2015	0.011	0.005	0.019	7:00	0	95.8
14/06/2015	0.007	0.002	0.013	6:00	0	95.8
15/06/2015	0.012	0.003	0.025	8:00	0	95.8
16/06/2015	0.015	0.003	0.025	17:00	0	95.8
17/06/2015	0.016	0.007	0.023	17:00	0	95.8
18/06/2015	0.014	0.005	0.031	18:00	0	95.8
19/06/2015	0.009	0.002	0.020	6:00	0	95.8
20/06/2015	0.010	0.005	0.017	6:00	0	95.8
21/06/2015	0.010	0.003	0.026	20:00	0	95.8
22/06/2015	0.015	0.005	0.028	18:00	0	95.8
23/06/2015	0.019	0.009	0.030	18:00	0	95.8
24/06/2015	0.015	0.008	0.021	0:00	0	95.8
25/06/2015	0.017	0.011	0.025	19:00	0	95.8
26/06/2015	0.013	0.007	0.022	6:00	0	95.8
27/06/2015	0.009	0.005	0.016	18:00	0	95.8
28/06/2015	0.008	0.003	0.018	6:00	0	95.8
29/06/2015	0.014	0.003	0.025	17:00	0	87.5
30/06/2015	0.015	0.005	0.031	18:00	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 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Bryden St Ambient AQMS Carbon Monoxide Summary June 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		
1/06/2015	0.1	0.1	0.2	07:00	0.3	00:00	0	95.8
2/06/2015	0.2	0.1	0.6	19:00	0.4	23:00	0	95.8
3/06/2015	0.4	0.2	0.8	18:00	0.6	23:00	0	95.8
4/06/2015	0.5	0.2	1.2	20:00	0.7	23:00	0	95.8
5/06/2015	0.2	0.1	0.5	7:00	0.8	1:00	0	95.8
6/06/2015	0.2	0.1	0.3	22:00	0.3	23:00	0	95.8
7/06/2015	0.2	0.2	0.3	20:00	0.3	23:00	0	95.8
8/06/2015	0.3	0.2	0.8	19:00	0.5	23:00	0	95.8
9/06/2015	0.4	0.2	1.0	20:00	0.6	23:00	0	95.8
10/06/2015	0.3	0.2	0.6	0:00	0.7	1:00	0	95.8
11/06/2015	0.2	0.2	0.3	8:00	0.3	0:00	0	95.8
12/06/2015	0.2	0.2	0.3	19:00	0.3	23:00	0	95.8
13/06/2015	0.2	0.2	0.3	9:00	0.3	0:00	0	95.8
14/06/2015	0.2	0.2	0.3	9:00	0.2	0:00	0	95.8
15/06/2015	0.2	0.2	0.4	8:00	0.3	10:00	0	95.8
16/06/2015	0.3	0.2	0.4	9:00	0.3	13:00	0	95.8
17/06/2015	0.4	0.2	0.7	23:00	0.5	23:00	0	95.8
18/06/2015	0.3	0.1	0.6	0:00	0.5	3:00	0	95.8
19/06/2015	0.2	0.1	0.3	18:00	0.4	1:00	0	95.8
20/06/2015	0.2	0.2	0.3	7:00	0.3	0:00	0	95.8
21/06/2015	0.2	0.1	0.4	20:00	0.3	23:00	0	95.8
22/06/2015	0.3	0.2	0.4	18:00	0.3	23:00	0	95.8
23/06/2015	0.4	0.2	0.9	19:00	0.5	23:00	0	95.8
24/06/2015	0.3	0.2	0.5	23:00	0.5	1:00	0	95.8
25/06/2015	0.3	0.2	0.5	21:00	0.4	22:00	0	95.8
26/06/2015	0.2	0.2	0.3	8:00	0.3	0:00	0	95.8
27/06/2015	0.2	0.1	0.3	18:00	0.2	23:00	0	95.8
28/06/2015	0.2	0.2	0.3	18:00	0.3	12:00	0	95.8
29/06/2015	0.3	0.2	0.4	17:00	0.3	11:00	0	87.5
30/06/2015	0.3	0.2	0.7	19:00	0.5	23:00	0	95.8

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

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

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Bryden St Ambient AQMS Particulate PM2.5 Summary June 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/06/2015	6.9	0.7	14.8	02:00	0	100.0
2/06/2015	13.2	2.6	36.4	17:00	0	95.8
3/06/2015	16.3	6.3	24.2	4:00	0	100.0
4/06/2015	19.3	7.4	28.9	22:00	0	100.0
5/06/2015	12.5	5.6	25.0	0:00	0	100.0
6/06/2015	10.4	4.7	42.1	4:00	0	95.8
7/06/2015	11.1	6.2	20.0	14:00	0	95.8
8/06/2015	11.9	3.5	19.8	19:00	0	95.8
9/06/2015	12.5	2.5	19.9	21:00	0	91.7
10/06/2015	14.3	5.7	25.7	17:00	0	100.0
11/06/2015	7.8	5.4	11.1	12:00	0	100.0
12/06/2015	8.2	2.0	13.9	18:00	0	91.7
13/06/2015	7.5	3.0	15.2	13:00	0	100.0
14/06/2015	6.4	3.0	13.3	18:00	0	91.7
15/06/2015	7.8	1.7	18.2	13:00	0	95.8
16/06/2015	8.7	4.0	20.1	16:00	0	100.0
17/06/2015	9.4	2.5	19.5	15:00	0	95.8
18/06/2015	10.9	1.2	23.6	9:00	0	95.8
19/06/2015	7.1	1.2	17.2	17:00	0	95.8
20/06/2015	8.5	0.6	17.0	23:00	0	95.8
21/06/2015	10.2	4.8	17.2	20:00	0	95.8
22/06/2015	7.8	3.3	15.3	16:00	0	91.7
23/06/2015	9.6	4.2	20.0	16:00	0	100.0
24/06/2015	9.4	5.5	19.8	15:00	0	100.0
25/06/2015	12.1	7.4	22.6	20:00	0	100.0
26/06/2015	9.0	3.3	22.0	16:00	0	100.0
27/06/2015	8.3	0.9	19.6	14:00	0	95.8
28/06/2015	8.8	3.6	19.5	15:00	0	100.0
29/06/2015	9.1	3.9	19.2	15:00	0	91.7
30/06/2015	10.8	4.3	21.0	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 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary June 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		
1/06/2015	13.9	3.4	22.4	12:00	0	100.0
2/06/2015	17.8	1.2	41.3	17:00	0	100.0
3/06/2015	23.9	12.8	34.3	19:00	0	100.0
4/06/2015	31.4	20.1	44.7	20:00	0	100.0
¹ 5/06/2015	-	-	-	-	0	29.2
¹ 6/06/2015	-	-	-	-	0	0.0
¹ 7/06/2015	-	-	-	-	0	0.0
¹ 8/06/2015	-	-	-	-	0	30.4
9/06/2015	20.3	10.4	30.8	22:00	0	100.0
10/06/2015	23.9	13.4	37.0	10:00	0	100.0
11/06/2015	16.5	12.3	30.3	9:00	0	100.0
12/06/2015	12.3	7.5	18.9	4:00	0	100.0
13/06/2015	9.6	7.4	16.9	11:00	0	100.0
14/06/2015	9.3	5.2	18.5	9:00	0	100.0
15/06/2015	11.8	3.8	17.8	20:00	0	100.0
16/06/2015	12.1	3.3	19.5	14:00	0	100.0
17/06/2015	16.7	8.4	41.5	15:00	0	100.0
18/06/2015	13.9	4.2	24.2	20:00	0	100.0
19/06/2015	8.6	6.0	17.3	19:00	0	100.0
20/06/2015	11.2	4.5	24.6	19:00	0	100.0
21/06/2015	14.9	3.9	26.9	21:00	0	100.0
22/06/2015	13.8	8.4	20.0	19:00	0	100.0
23/06/2015	15.0	8.6	25.9	21:00	0	100.0
24/06/2015	14.4	6.4	21.6	23:00	0	100.0
25/06/2015	18.2	10.2	27.8	8:00	0	100.0
26/06/2015	13.8	10.2	18.6	4:00	0	100.0
27/06/2015	12.8	8.0	19.5	13:00	0	100.0
28/06/2015	12.0	6.9	19.1	16:00	0	100.0
29/06/2015	10.0	6.0	16.7	18:00	0	100.0
30/06/2015	16.5	9.2	32.3	19:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month. There will be no daily results if there is less than 75% valid data for that day
 Table 28 Station 5 PM₁₀ Monthly Summary

1.No data due to instrument fault

Graphical Representations

Nitrogen Dioxide

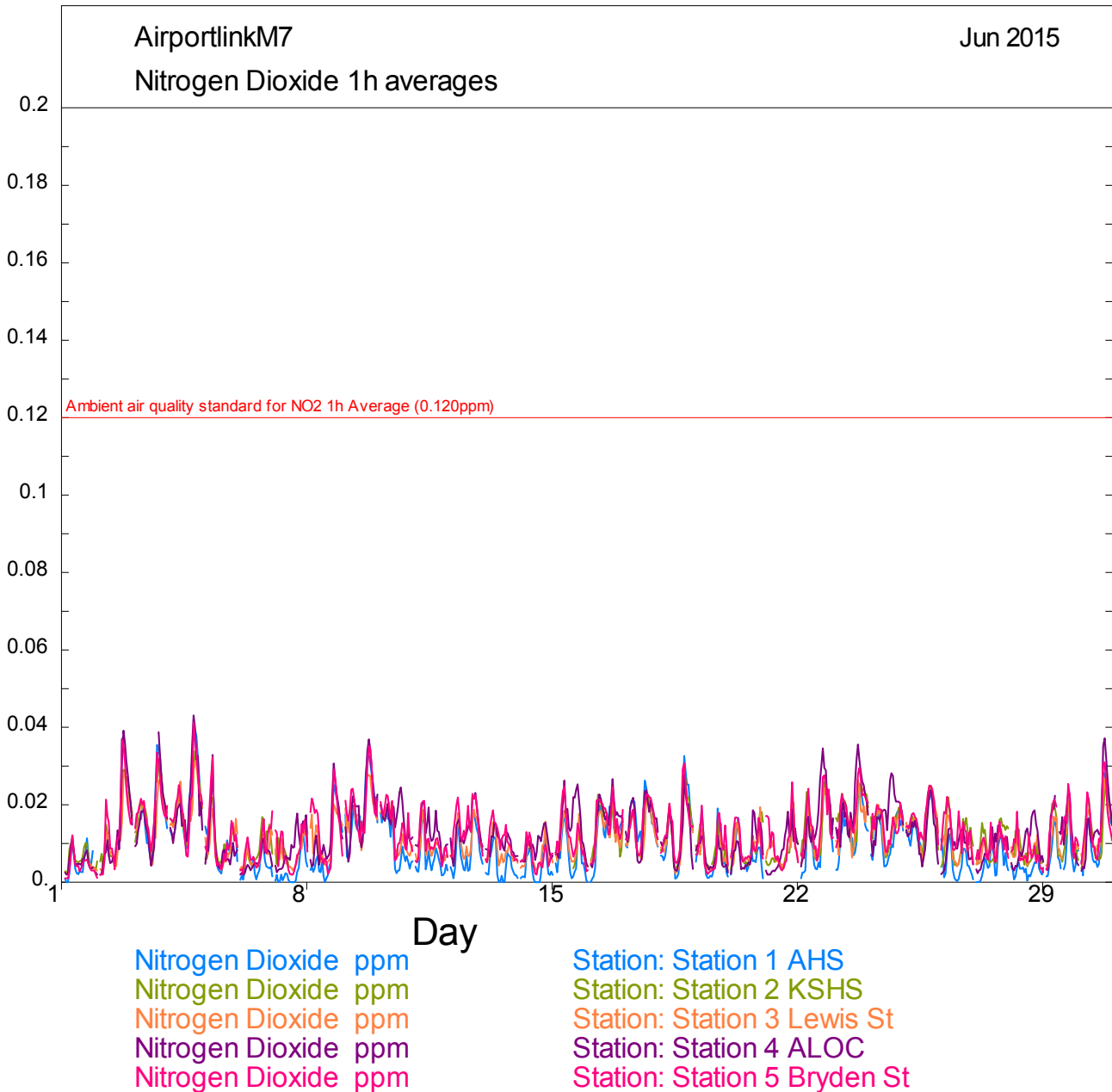


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

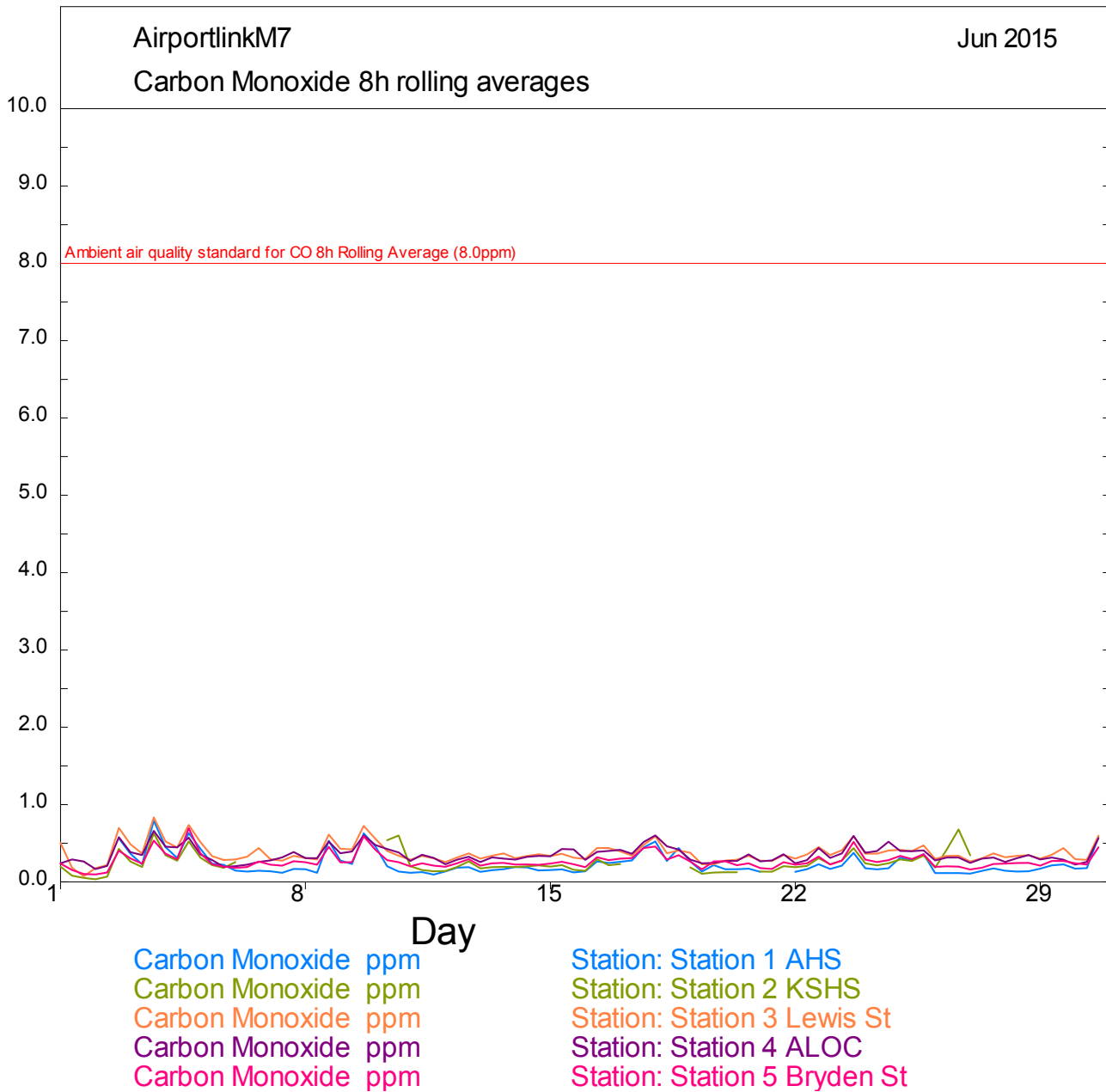


Figure 2 Carbon Monoxide 8hr rolling averages

PM₁₀ 24hr Averages

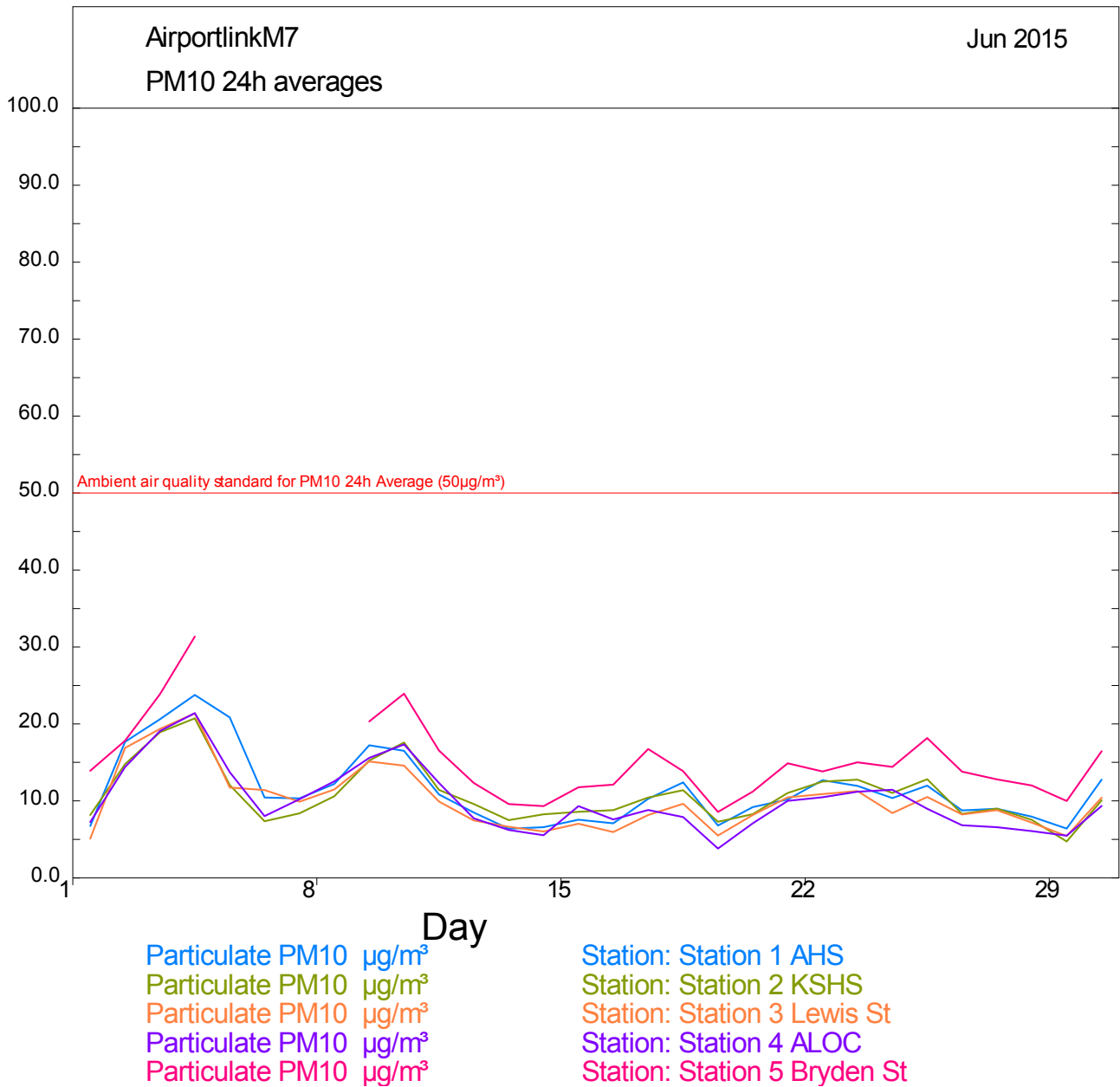


Figure 3 PM₁₀ 24hr Averages

PM_{2.5} 24hr Averages

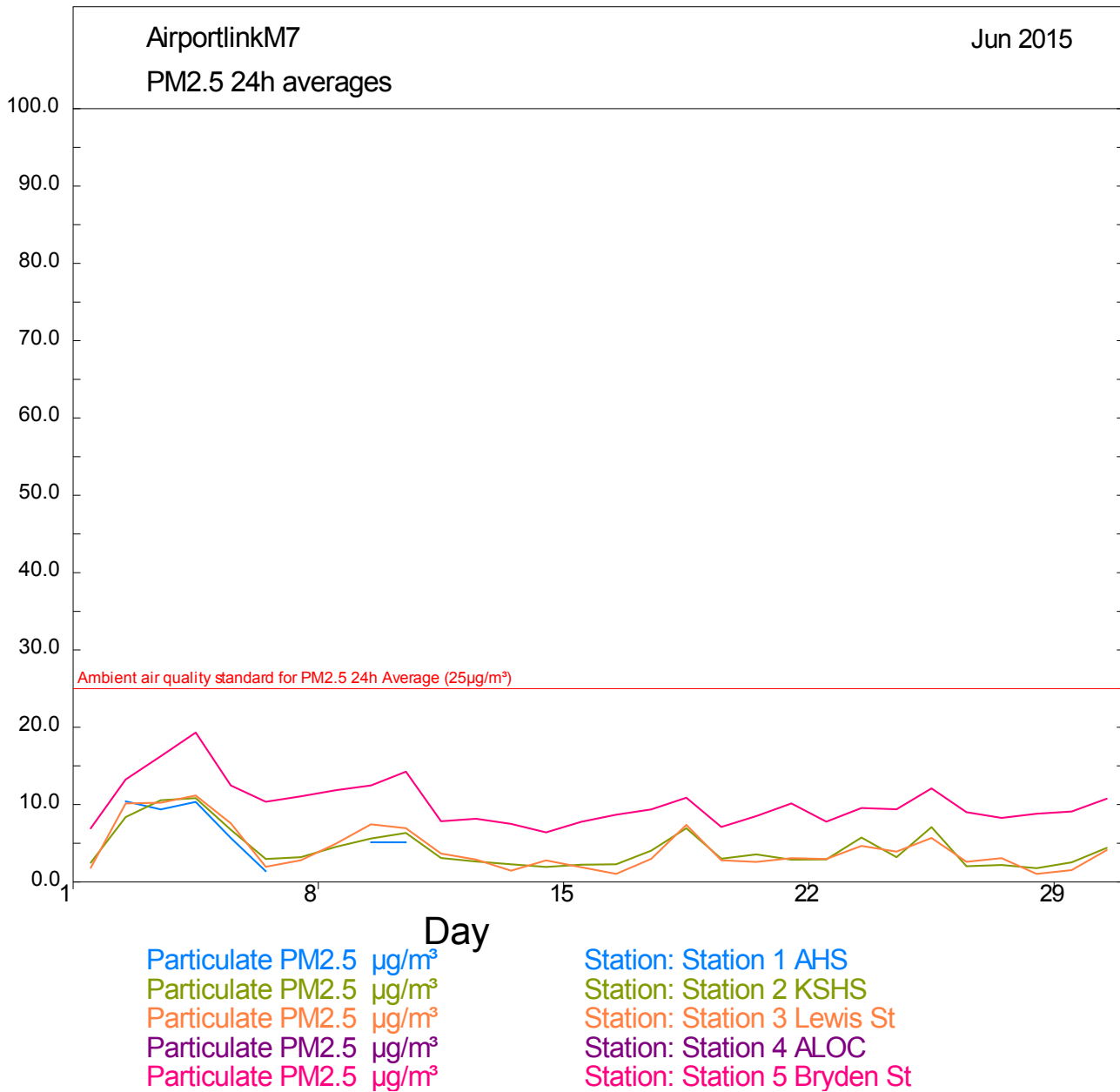


Figure 4 PM_{2.5} 24hr Averages

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

TSP Results June 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 ($\mu\text{g}/\text{m}^3$)
5/06/2015	93	25	24	24	34
11/06/2015	19	20	16	21	18
17/06/2015	13	10	11	9	11
23/06/2015	48	25	19	23	20
29/06/2015	7	6	6	8	7
Monthly Average	36.0	17.2	15.2	17.0	18.0

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 June 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/06/2015 0:00	2/06/2015 14:20	CO	Instrument fault	12/07/2015	CP	
1/06/2015 1:55	30/06/2015 12:50	PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/07/2015	CP	
1/06/2015 2:50	30/06/2015 14:15	PM ₁₀	Intermittent unrealistic data less than negative 1 µg/m ³	12/07/2015	CP	
1/06/2015 21:55	2/06/2015 14:20	NO, NO ₂ , NO _x	Instrument fault	12/07/2015	CP	
2/06/2015 14:25	2/06/2015 14:45	All parameters	Maintenance	12/07/2015	CP	
2/06/2015 19:35	2/06/2015 21:35	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP	
21/06/2015 1:00	22/06/2015 1:35	CO, NO, NO ₂ , NO _x	Instrumentation stuck in span mode	12/07/2015	CP	
29/06/2015 12:45	29/06/2015 13:40	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	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 June 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/06/2015 1:05	30/06/2015 22:20	PM ₁₀ , PM _{2.5}	Intermittent instrument faults - fault codes logged	12/07/2015	CP
1/06/2015 11:55	29/06/2015 17:50	PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/07/2015	CP
6/06/2015 0:00	10/06/2015 12:10	CO	Instrument fault - data drifting up during day	12/07/2015	CP
7/06/2015 12:25	10/06/2015 12:10	NO, NO ₂ , NO _x	Instrument fault	12/07/2015	CP
10/06/2015 12:15	10/06/2015 13:25	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP
10/06/2015 13:30	15/06/2015 12:55	NO, NO ₂ , NO _x	Instrument fault - nightly span out of tolerance	12/07/2015	CP
15/06/2015 13:00	15/06/2015 13:35	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP
17/06/2015 1:40	19/06/2015 0:55	CO	Instrument fault - nightly span out of tolerance	12/07/2015	CP
20/06/2015 5:45	21/06/2015 5:55	CO	Intermittent instrument fault	12/07/2015	CP
27/06/2015 1:40	30/06/2015 23:45	CO	Instrument fault	12/07/2015	CP
29/06/2015 17:20	29/06/2015 18:25	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP

Table 31 Station 2 Kedron High School AQMS Data Validation Table

Station 3 Lewis Street

Station 3 Lewis St Ambient AQMS Data Validation Table June 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/06/2015 0:00	1/06/2015 18:10	NO, NO ₂ , NO _x	Nightly span out of tolerance	12/07/2015	CP	
1/06/2015 1:05	30/06/2015 23:40	PM _{2.5}	Intermittent instrument faults - fault codes logged	12/07/2015	CP	
1/06/2015 4:55	30/06/2015 14:20	PM ₁₀ , PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/07/2015	CP	
1/06/2015 18:15	1/06/2015 18:40	NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP	
29/06/2015 14:15	29/06/2015 15:30	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP	

Table 32 Station 3 Lewis St AQMS Data Validation Table

Station 4 Airport Link Operation Centre

Station 4 Airport Link Operation Centre AQMS Data Validation Table June 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/06/2015 0:00	30/06/2015 23:55	PM _{2.5}	Instrument fault	12/07/2015	CP	
1/06/2015 0:00	3/06/2015 17:00	CO	Data adjusted: CO * 1.06667 due to nightly spans being low	12/07/2015	CP	
1/06/2015 0:30	30/06/2015 23:05	PM ₁₀	Intermittent instrument fault	12/07/2015	CP	
3/06/2015 17:05	3/06/2015 17:40	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP	
10/06/2015 11:30	10/06/2015 11:30	All parameters	Communication error - not enough samples recorded	12/07/2015	CP	
29/06/2015 8:45	29/06/2015 10:20	CO, NO, NO ₂ , NO _x	Maintenance	12/07/2015	CP	

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

Station 5 Bryden St

Station 5 Bryden St AQMS Data Validation Table June 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/06/2015 0:05	30/06/2015 23:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults - fault codes logged	12/07/2015	CP
5/06/2015 6:50	8/06/2015 16:45	PM ₁₀	Instrument fault	12/07/2015	CP
7/06/2015 14:50	29/06/2015 14:45	PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/07/2015	CP
29/06/2015 10:20	29/06/2015 11:35	CO, NO, NO ₂ , NO _x	Instrument fault	12/07/2015	CP

Table 34 Station 5 Bryden St AQMS Data Validation Table