



# Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

May 2015

Ref: DR.1505APL181.2

Issue Date: 3 July 2015

Norditech Pty Ltd  
Unit 36/70 Holbeche Road  
Arndell Park NSW 2148

m: [+61 403 248 038](tel:+61403248038)  
p: [+ 61 2 9622 6327](tel:+61296226327)  
f: [+61 2 9622 6340](tel:+61296226340)  
[bruno.nourdine@norditech.com.au](mailto:bruno.nourdine@norditech.com.au)  
[www.norditech.com.au](http://www.norditech.com.au)



## Document Control

Revision	Date	Details	Prepared By	Approved By
0	22/06/2015	Original	CP	BN
1	01/07/2015	Added notes and validation tables	CP	BN
2	03/07/2015	Corrected minor formatting errors	CP	BN

Prepared by



Chris Priser  
3 July 2015

Approved by



Bruno Nourdine  
3 July 2015

## Contents

<b>Glossary</b> .....	<b>1</b>
<b>Executive Summary</b> .....	<b>2</b>
<i>Exceedence Reporting</i> .....	2
<b>Introduction</b> .....	<b>3</b>
<b>Monitoring</b> .....	<b>4</b>
<i>Site Locations</i> .....	4
<i>Station Instrumentation Details</i> .....	4
<i>Data Logging</i> .....	5
<b>Results</b> .....	<b>6</b>
<i>Station 1 (Aviation High School)</i> .....	6
Summary.....	6
Nitrogen Dioxide Summary.....	7
Carbon Monoxide Summary.....	8
PM <sub>2.5</sub> Summary .....	9
PM <sub>10</sub> Summary.....	10
<i>Station 2 (Kedron State High School)</i> .....	11
Summary.....	11
Nitrogen Dioxide Summary.....	12
Carbon Monoxide Summary.....	13
PM <sub>2.5</sub> Summary.....	14
PM <sub>10</sub> Summary.....	15
<i>Station 3 (Lewis Street)</i> .....	16
Summary.....	16
Nitrogen Dioxide Summary.....	17
Carbon Monoxide Summary.....	18
PM <sub>2.5</sub> Summary .....	19
PM <sub>10</sub> Summary.....	20
<i>Station 4 (Airportlink Operation Centre)</i> .....	21
Summary.....	21
Nitrogen Dioxide Summary.....	22
Carbon Monoxide Summary.....	23
PM <sub>2.5</sub> Summary .....	24
PM <sub>10</sub> Summary.....	25
<i>Station 5 (Bryden Street)</i> .....	26
Summary.....	26
Nitrogen Dioxide Summary.....	27
Carbon Monoxide Summary.....	28
PM <sub>2.5</sub> Summary .....	29
PM <sub>10</sub> Summary.....	30
<b>Graphical Representations</b> .....	<b>31</b>
<i>Nitrogen Dioxide</i> .....	31
<i>Carbon Monoxide 8hr Rolling Averages</i> .....	32
<i>PM<sub>10</sub> 24hr Averages</i> .....	33
<i>PM<sub>2.5</sub> 24hr Averages</i> .....	34
<b>TSP High Volume Air Sampler Results</b> .....	<b>35</b>
<b>Validation Tables</b> .....	<b>36</b>

---

<i>Station 1 Aviation High School .....</i>	<i>36</i>
<i>Station 2 Kedron State High School .....</i>	<i>37</i>
<i>Station 3 Lewis Street.....</i>	<i>38</i>
<i>Station 4 Airport Link Operation Centre .....</i>	<i>39</i>
<i>Station 5 Bryden St.....</i>	<i>40</i>

## Glossary

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

AQMS – Air Quality Monitoring Station

EPA – Environment Protection Authority

NO – Nitric Oxide

NO<sub>2</sub> – Nitrogen Dioxide

NO<sub>x</sub> – Nitrogen Oxides

CO – Carbon Monoxide

PM<sub>10</sub> – Particulate matter of 10 microns or less aerodynamic equivalent size

PM<sub>2.5</sub> – 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/m<sup>3</sup> – 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 May 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences May 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 <sup>3</sup>	0	0	0	0	0
PM2.5	24 hour	25 µg/m <sup>3</sup>	0	0	0	0	0
PM10	24 hour	50 µg/m <sup>3</sup>	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)
- NO<sub>2</sub> (Nitrogen Dioxide)
- NO<sub>x</sub> (Total Oxides of Nitrogen)
- CO (Carbon Monoxide)
- PM<sub>10</sub>
- PM<sub>2.5</sub>
- 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 <sub>2</sub> NO <sub>x</sub>	ppm	2.78%	AS 3580.5.1	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
CO	ppm	2.56%	AS 3580.7.1	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
PM <sub>10</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
PM <sub>2.5</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	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 <sup>3</sup>	7.34%	AS 3580.9.3	29/4/15	28/4/15	28/4/15	29/4/15	29/4/15

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:

$$Data\ Capture\ Rate\ \% = \frac{Available\ data\ points}{Total\ data\ points} * 100$$

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 May 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.010	0.2	5.6	14.9
Min 1hr Average	-0.001	-0.2	-1.0	2.2
Max 1hr Average	0.033	0.9	39.0	107.8
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	11.9	25.4
Capture Rate (%)	92.9	80.9	87.1	79.0

Table 4 Station 1 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

*Nitrogen Dioxide Summary*

**Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary May 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		
1/05/2015	0.007	-0.001	0.015	15:00	0	95.8
2/05/2015	0.006	0.001	0.021	19:00	0	95.8
3/05/2015	0.006	0.001	0.018	18:00	0	95.8
4/05/2015	0.013	0.004	0.027	19:00	0	95.8
5/05/2015	0.015	0.006	0.025	20:00	0	95.8
<sup>1</sup> 6/05/2015	-	-	-	-	0	58.3
<sup>1</sup> 7/05/2015	-	-	-	-	0	56.5
8/05/2015	0.009	0.001	0.022	19:00	0	95.8
9/05/2015	0.009	0.002	0.024	18:00	0	95.8
10/05/2015	0.008	0.001	0.023	17:00	0	95.8
11/05/2015	0.008	0.001	0.029	7:00	0	91.7
12/05/2015	0.014	0.001	0.033	19:00	0	95.8
13/05/2015	0.008	0.001	0.021	6:00	0	95.8
14/05/2015	0.011	-0.001	0.029	18:00	0	95.8
15/05/2015	0.012	0.005	0.019	7:00	0	95.8
16/05/2015	0.002	0.000	0.006	8:00	0	95.8
17/05/2015	0.003	-0.001	0.008	21:00	0	95.8
18/05/2015	0.008	0.001	0.017	17:00	0	91.7
19/05/2015	0.012	0.003	0.023	17:00	0	95.8
20/05/2015	0.012	0.006	0.018	18:00	0	95.8
21/05/2015	0.010	0.003	0.019	19:00	0	95.8
22/05/2015	0.003	0.000	0.017	7:00	0	95.8
23/05/2015	0.006	0.000	0.019	18:00	0	95.8
24/05/2015	0.002	-0.001	0.006	22:00	0	95.8
25/05/2015	0.009	0.001	0.023	19:00	0	95.8
26/05/2015	0.013	0.005	0.025	21:00	0	95.8
27/05/2015	0.013	0.005	0.022	19:00	0	91.7
28/05/2015	0.015	0.003	0.028	18:00	0	95.8
29/05/2015	0.015	0.009	0.023	8:00	0	95.8
30/05/2015	0.012	0.006	0.024	19:00	0	95.8
31/05/2015	0.010	0.004	0.018	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 5 Station 1 Nitrogen Dioxide Monthly Summary

1.No data due to system maintenance

*Carbon Monoxide Summary*

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary May 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		
1/05/2015	0.1	0.1	0.3	15:00	0.2	00:00	0	95.5
2/05/2015	0.1	0.1	0.4	21:00	0.3	23:00	0	94.4
3/05/2015	0.3	0.1	0.9	18:00	0.6	23:00	0	94.8
4/05/2015	0.3	0.1	0.6	19:00	0.7	1:00	0	94.8
5/05/2015	0.3	0.1	0.6	6:00	0.4	8:00	0	94.8
<sup>1</sup> 6/05/2015	-	-	-	-	-	-	0	59.4
<sup>1</sup> 7/05/2015	-	-	-	-	-	-	0	53.7
8/05/2015	0.2	0.1	0.5	23:00	0.3	23:00	0	94.8
9/05/2015	0.2	0.1	0.4	0:00	0.4	2:00	0	94.4
10/05/2015	0.2	0.1	0.3	17:00	0.2	23:00	0	94.8
11/05/2015	0.2	0.1	0.6	7:00	0.3	12:00	0	95.5
12/05/2015	0.2	0.1	0.7	7:00	0.4	8:00	0	94.8
13/05/2015	0.1	-0.1	0.6	6:00	0.3	1:00	0	95.1
14/05/2015	0.0	-0.2	0.5	20:00	0.2	23:00	0	95.5
<sup>2</sup> 15/05/2015	-	-	-	-	-	-	0	4.5
<sup>2</sup> 16/05/2015	-	-	-	-	-	-	0	4.2
<sup>2</sup> 17/05/2015	-	-	-	-	-	-	0	0.3
18/05/2015	0.0	-0.2	0.1	17:00	0.1	22:00	0	93.1
19/05/2015	0.2	0.0	0.5	23:00	0.3	23:00	0	94.8
20/05/2015	0.2	0.0	0.5	0:00	0.4	3:00	0	95.1
<sup>2</sup> 21/05/2015	-	-	-	-	-	-	0	4.5
22/05/2015	0.0	-0.1	0.1	7:00	0.1	7:00	0	95.5
23/05/2015	0.0	0.0	0.1	20:00	0.0	23:00	0	95.1
24/05/2015	0.1	0.0	0.2	22:00	0.1	2:00	0	96.2
25/05/2015	0.1	0.1	0.3	19:00	0.2	23:00	0	96.2
26/05/2015	0.2	0.1	0.5	23:00	0.3	23:00	0	96.2
27/05/2015	0.2	0.0	0.6	21:00	0.4	3:00	0	93.1
28/05/2015	0.3	0.0	0.7	20:00	0.5	23:00	0	95.8
29/05/2015	0.3	0.1	0.5	0:00	0.6	2:00	0	96.5
30/05/2015	0.3	0.1	0.5	19:00	0.4	7:00	0	96.5
31/05/2015	0.3	0.1	0.5	7:00	0.5	8:00	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 6 Station 1 Carbon Monoxide Monthly Summary

- 1.No data due to system maintenance
- 2.No data due to instrument fault

**PM<sub>2.5</sub> Summary**

**Station 1 Aviation High School Ambient AQMS Particulate PM<sub>2.5</sub> Summary May 2015**

Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
<sup>1</sup> 1/05/2015	-	-	-	-	0	37.5
<sup>1</sup> 2/05/2015	-	-	-	-	0	56.5
3/05/2015	7.4	-1.0	39.0	19:00	0	95.8
4/05/2015	11.9	3.0	31.8	18:00	0	91.7
5/05/2015	9.3	3.3	19.7	13:00	0	100.0
<sup>2</sup> 6/05/2015	-	-	-	-	0	58.3
<sup>2</sup> 7/05/2015	-	-	-	-	0	56.5
8/05/2015	7.6	2.2	12.7	22:00	0	100.0
9/05/2015	7.7	2.0	16.8	7:00	0	100.0
10/05/2015	4.1	-1.0	9.9	18:00	0	95.8
11/05/2015	4.2	0.0	9.0	9:00	0	83.3
12/05/2015	6.6	-1.0	17.3	16:00	0	91.7
13/05/2015	5.8	0.3	11.8	7:00	0	83.3
14/05/2015	6.1	-1.0	16.5	23:00	0	95.8
15/05/2015	5.5	-0.6	11.8	1:00	0	95.8
16/05/2015	3.3	-1.0	5.9	18:00	0	95.8
17/05/2015	1.4	-0.8	6.0	10:00	0	87.5
18/05/2015	4.2	0.0	8.0	17:00	0	91.7
19/05/2015	4.1	1.1	8.8	13:00	0	100.0
20/05/2015	6.5	0.3	10.8	2:00	0	87.5
21/05/2015	5.0	-0.8	15.3	9:00	0	100.0
22/05/2015	3.8	1.0	7.0	15:00	0	83.3
23/05/2015	4.2	-0.8	10.9	22:00	0	100.0
24/05/2015	4.3	0.0	14.2	0:00	0	95.8
25/05/2015	5.8	2.4	9.8	23:00	0	95.8
26/05/2015	5.7	0.2	14.3	1:00	0	100.0
27/05/2015	3.7	-1.0	12.8	1:00	0	87.5
28/05/2015	3.7	-0.6	8.4	8:00	0	83.3
29/05/2015	3.2	-1.0	8.9	7:00	0	91.7
30/05/2015	4.1	-0.7	9.8	23:00	0	87.5
31/05/2015	3.5	-1.0	8.9	2:00	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.

Table 7 Station 1 PM<sub>2.5</sub> Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to system maintenance

*PM<sub>10</sub> Summary*

**Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary May 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		
<sup>1</sup> 1/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 2/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 3/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 4/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 5/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 6/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 7/05/2015	-	-	-	-	0	54.2
8/05/2015	25.4	10.8	63.6	13:00	0	100.0
9/05/2015	15.2	8.5	25.4	7:00	0	100.0
10/05/2015	10.4	5.9	18.9	17:00	0	100.0
11/05/2015	16.9	2.2	104.6	13:00	0	100.0
12/05/2015	21.6	10.5	32.6	14:00	0	100.0
13/05/2015	11.8	7.0	20.3	6:00	0	100.0
14/05/2015	15.9	9.9	28.5	20:00	0	100.0
15/05/2015	16.0	10.4	41.7	7:00	0	100.0
16/05/2015	11.7	4.0	22.0	14:00	0	100.0
17/05/2015	8.1	5.1	14.7	16:00	0	100.0
18/05/2015	9.5	3.9	17.7	19:00	0	100.0
19/05/2015	10.9	6.0	18.1	19:00	0	100.0
20/05/2015	12.7	7.0	24.2	8:00	0	100.0
21/05/2015	15.9	6.0	107.8	13:00	0	100.0
22/05/2015	6.7	2.5	9.6	11:00	0	100.0
23/05/2015	14.4	3.9	21.3	19:00	0	100.0
24/05/2015	13.5	4.5	21.3	17:00	0	100.0
25/05/2015	15.6	10.0	21.6	9:00	0	100.0
26/05/2015	13.7	7.7	21.2	19:00	0	100.0
27/05/2015	12.9	6.6	19.9	0:00	0	95.8
28/05/2015	18.4	7.8	64.1	13:00	0	100.0
29/05/2015	19.0	9.8	103.7	13:00	0	100.0
30/05/2015	15.6	9.9	26.0	7:00	0	100.0
31/05/2015	15.2	5.7	24.4	7:00	0	100.0

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

Table 8 Station 1 PM<sub>10</sub> Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to system maintenance

## Station 2 (Kedron State High School)

### Summary

Station 2 Kedron State High School Ambient AQMS Summary May 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.011	0.3	4.2	11.3
Min 1hr Average	0.001	0.1	-1.0	-1.0
Max 1hr Average	0.042	0.7	20.4	60.1
Max 8hr Rolling Average	N/A	0.6	N/A	N/A
Max 24hr Average	N/A	N/A	8.4	36.4
Capture Rate (%)	95.3	95.3	91.5	96.4

Table 9 Station 2 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

Station 2 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary May 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		
1/05/2015	0.010	0.001	0.021	7:00	0	95.8
2/05/2015	0.006	0.002	0.019	20:00	0	95.8
3/05/2015	0.005	0.001	0.013	19:00	0	95.8
4/05/2015	0.010	0.004	0.021	21:00	0	95.8
5/05/2015	0.011	0.004	0.017	21:00	0	95.8
6/05/2015	0.015	0.004	0.042	19:00	0	95.8
7/05/2015	0.012	0.003	0.021	21:00	0	91.7
8/05/2015	0.013	0.005	0.024	19:00	0	95.8
9/05/2015	0.010	0.004	0.021	18:00	0	95.8
10/05/2015	0.008	0.003	0.020	18:00	0	95.8
11/05/2015	0.008	0.002	0.021	7:00	0	95.8
12/05/2015	0.011	0.003	0.028	19:00	0	95.8
13/05/2015	0.008	0.003	0.018	7:00	0	95.8
14/05/2015	0.010	0.002	0.025	18:00	0	95.8
15/05/2015	0.013	0.005	0.021	6:00	0	95.8
16/05/2015	0.007	0.003	0.015	6:00	0	95.8
17/05/2015	0.006	0.002	0.012	6:00	0	95.8
18/05/2015	0.010	0.003	0.017	7:00	0	95.8
19/05/2015	0.015	0.010	0.021	18:00	0	95.8
20/05/2015	0.010	0.003	0.019	18:00	0	95.8
21/05/2015	0.009	0.004	0.017	19:00	0	95.8
22/05/2015	0.004	0.003	0.011	7:00	0	95.8
23/05/2015	0.008	0.002	0.022	20:00	0	95.8
24/05/2015	0.005	0.002	0.014	22:00	0	95.8
25/05/2015	0.012	0.003	0.023	21:00	0	95.8
26/05/2015	0.014	0.006	0.023	20:00	0	83.3
27/05/2015	0.015	0.008	0.022	19:00	0	95.8
28/05/2015	0.016	0.006	0.025	18:00	0	95.8
29/05/2015	0.016	0.006	0.022	19:00	0	95.8
30/05/2015	0.012	0.007	0.018	20:00	0	95.8
31/05/2015	0.009	0.004	0.016	0:00	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



*Carbon Monoxide Summary*

**Station 2 Kedron State High School Ambient AQMS Carbon Monoxide Summary May 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		
1/05/2015	0.3	0.2	0.4	07:00	0.4	00:00	0	95.5
2/05/2015	0.3	0.2	0.5	20:00	0.4	23:00	0	95.1
3/05/2015	0.2	0.1	0.6	23:00	0.4	1:00	0	95.5
4/05/2015	0.4	0.2	0.6	21:00	0.5	2:00	0	95.5
5/05/2015	0.4	0.3	0.5	7:00	0.5	1:00	0	95.5
6/05/2015	0.4	0.2	0.7	19:00	0.5	22:00	0	95.5
7/05/2015	0.2	0.1	0.4	21:00	0.5	0:00	0	93.8
8/05/2015	0.3	0.2	0.6	21:00	0.5	23:00	0	95.5
9/05/2015	0.2	0.1	0.4	0:00	0.5	1:00	0	95.5
10/05/2015	0.3	0.2	0.4	18:00	0.3	23:00	0	95.1
11/05/2015	0.3	0.1	0.7	7:00	0.4	12:00	0	95.1
12/05/2015	0.4	0.2	0.7	19:00	0.5	23:00	0	95.1
13/05/2015	0.4	0.2	0.7	6:00	0.5	1:00	0	95.1
14/05/2015	0.3	0.2	0.7	21:00	0.6	23:00	0	95.1
15/05/2015	0.4	0.3	0.5	6:00	0.6	1:00	0	95.1
16/05/2015	0.3	0.3	0.4	8:00	0.4	1:00	0	95.1
17/05/2015	0.3	0.3	0.4	7:00	0.4	8:00	0	95.1
18/05/2015	0.3	0.2	0.4	7:00	0.4	1:00	0	95.1
19/05/2015	0.5	0.3	0.7	23:00	0.6	23:00	0	95.1
20/05/2015	0.4	0.2	0.6	8:00	0.6	1:00	0	95.5
21/05/2015	0.3	0.2	0.6	8:00	0.4	10:00	0	95.1
22/05/2015	0.2	0.1	0.3	7:00	0.3	7:00	0	95.5
23/05/2015	0.3	0.2	0.4	20:00	0.4	23:00	0	95.5
24/05/2015	0.3	0.2	0.3	22:00	0.4	1:00	0	96.9
25/05/2015	0.3	0.2	0.5	21:00	0.4	23:00	0	96.5
26/05/2015	0.4	0.3	0.5	23:00	0.4	12:00	0	86.8
27/05/2015	0.2	0.1	0.5	23:00	0.4	2:00	0	96.5
28/05/2015	0.3	0.1	0.5	21:00	0.4	23:00	0	96.5
29/05/2015	0.3	0.2	0.5	20:00	0.4	1:00	0	96.5
30/05/2015	0.4	0.2	0.4	0:00	0.4	2:00	0	96.5
31/05/2015	0.3	0.2	0.5	0:00	0.5	7:00	0	96.5

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

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM2.5 Summary

**Station 2 Kedron State High School Ambient AQMS Particulate PM2.5 Summary May 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		
<sup>1</sup> 1/05/2015	-	-	-	-	0	66.7
<sup>1</sup> 2/05/2015	-	-	-	-	0	41.7
3/05/2015	3.1	-1.0	12.8	21:00	0	79.2
4/05/2015	4.9	1.1	8.8	22:00	0	100.0
5/05/2015	4.7	0.0	10.9	5:00	0	100.0
6/05/2015	7.5	0.0	19.4	19:00	0	100.0
7/05/2015	7.8	2.3	10.8	7:00	0	100.0
8/05/2015	4.8	0.2	9.8	20:00	0	100.0
9/05/2015	4.8	0.0	10.8	6:00	0	100.0
10/05/2015	4.3	0.9	20.4	15:00	0	87.5
11/05/2015	2.3	-1.0	5.9	17:00	0	91.7
12/05/2015	3.0	-0.4	7.8	23:00	0	100.0
13/05/2015	2.9	-0.7	6.8	7:00	0	87.5
14/05/2015	4.4	-0.9	12.8	22:00	0	100.0
15/05/2015	4.3	-0.9	11.6	3:00	0	100.0
16/05/2015	3.1	-0.8	7.8	9:00	0	95.8
17/05/2015	1.5	-1.0	3.9	5:00	0	91.3
18/05/2015	2.4	-1.0	5.8	12:00	0	95.8
19/05/2015	3.3	-1.0	11.6	4:00	0	95.8
20/05/2015	4.3	0.1	7.8	17:00	0	100.0
21/05/2015	3.8	0.0	8.8	9:00	0	100.0
22/05/2015	1.6	-1.0	5.0	8:00	0	100.0
23/05/2015	3.5	0.0	11.6	22:00	0	100.0
24/05/2015	3.6	-0.8	9.7	10:00	0	100.0
25/05/2015	4.2	-0.9	9.0	7:00	0	100.0
<sup>2</sup> 26/05/2015	-	-	-	-	0	70.8
<sup>2</sup> 27/05/2015	-	-	-	-	0	58.3
28/05/2015	3.2	-0.8	6.0	22:00	0	83.3
29/05/2015	4.8	1.0	16.3	9:00	0	100.0
30/05/2015	7.6	3.5	13.0	23:00	0	100.0
31/05/2015	<b>8.4</b>	1.3	15.9	3:00	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 12 Station 2 PM<sub>2.5</sub> Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to system maintenance

*PM<sub>10</sub> Summary*

Station 2 Kedron State High School Ambient AQMS Particulate PM10 Summary May 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/05/2015	7.3	-0.6	22.5	12:00	0	100.0
2/05/2015	5.8	-0.7	12.9	20:00	0	95.8
3/05/2015	4.8	-0.6	14.0	23:00	0	91.7
4/05/2015	12.1	7.2	18.5	16:00	0	100.0
5/05/2015	12.4	4.4	22.7	7:00	0	100.0
6/05/2015	14.2	4.1	34.6	8:00	0	100.0
7/05/2015	36.4	9.8	49.0	19:00	0	100.0
8/05/2015	17.5	4.3	24.8	18:00	0	100.0
9/05/2015	13.0	8.2	21.2	4:00	0	100.0
10/05/2015	6.9	2.4	11.6	10:00	0	100.0
11/05/2015	10.1	0.2	22.3	8:00	0	100.0
12/05/2015	18.8	7.7	28.7	20:00	0	100.0
13/05/2015	9.4	6.0	17.6	7:00	0	87.5
14/05/2015	10.1	5.2	17.5	23:00	0	100.0
15/05/2015	10.8	5.1	22.1	8:00	0	100.0
16/05/2015	9.3	1.0	21.1	11:00	0	79.2
17/05/2015	3.7	-0.8	7.0	14:00	0	100.0
18/05/2015	4.9	-1.0	9.0	13:00	0	79.2
19/05/2015	6.3	0.2	15.5	4:00	0	91.7
20/05/2015	4.8	-0.8	19.3	9:00	0	95.8
21/05/2015	9.1	3.0	24.6	8:00	0	95.8
22/05/2015	3.0	-0.9	6.8	13:00	0	91.7
23/05/2015	10.5	0.1	25.6	22:00	0	100.0
24/05/2015	13.3	1.5	60.1	17:00	0	100.0
25/05/2015	12.9	6.2	19.6	8:00	0	100.0
26/05/2015	12.3	3.3	28.4	8:00	0	83.3
27/05/2015	9.8	4.3	22.5	8:00	0	100.0
28/05/2015	7.9	0.1	15.6	8:00	0	100.0
29/05/2015	11.3	4.3	26.8	10:00	0	100.0
30/05/2015	10.3	2.3	27.6	10:00	0	100.0
31/05/2015	11.3	5.0	21.0	3:00	0	100.0

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

Table 13 Station 2 PM<sub>10</sub> Monthly Summary

## Station 3 (Lewis Street)

### Summary

Station 3 Lewis St Ambient AQMS Summary May 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.009	0.4	3.9	13.3
Min 1hr Average	-0.002	0.0	-1.0	0.0
Max 1hr Average	0.039	0.9	17.3	42.2
Max 8hr Rolling Average	N/A	0.8	N/A	N/A
Max 24hr Average	N/A	N/A	9.7	29.8
Capture Rate (%)	<b>52.7</b>	88.8	76.5	97.0

Table 14 Station 3 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

*Nitrogen Dioxide Summary*

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary May 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		
1/05/2015	0.009	0.002	0.016	7:00	0	95.8
2/05/2015	0.006	0.002	0.016	20:00	0	95.8
3/05/2015	0.005	0.002	0.012	19:00	0	95.8
<sup>1</sup> 4/05/2015	-	-	-	-	0	66.7
<sup>1</sup> 5/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 6/05/2015	-	-	-	-	0	17.4
7/05/2015	0.012	0.004	0.022	7:00	0	95.8
8/05/2015	0.014	0.007	0.025	18:00	0	95.8
9/05/2015	0.010	0.003	0.024	18:00	0	95.8
10/05/2015	0.007	0.003	0.014	18:00	0	95.8
11/05/2015	0.007	0.002	0.025	7:00	0	95.8
12/05/2015	0.014	0.004	0.029	19:00	0	95.8
13/05/2015	0.008	0.003	0.018	7:00	0	95.8
14/05/2015	0.007	0.002	0.024	18:00	0	75.0
<sup>2</sup> 15/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 16/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 17/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 18/05/2015	-	-	-	-	0	34.8
19/05/2015	0.010	0.002	0.020	18:00	0	95.8
20/05/2015	0.007	-0.001	0.012	18:00	0	95.8
21/05/2015	0.005	-0.001	0.013	8:00	0	95.8
<sup>3</sup> 22/05/2015	-	-	-	-	0	4.2
<sup>3</sup> 23/05/2015	-	-	-	-	0	0.0
<sup>3</sup> 24/05/2015	-	-	-	-	0	0.0
25/05/2015	0.010	0.002	0.019	18:00	0	95.7
26/05/2015	0.011	0.006	0.017	18:00	0	95.8
<sup>3</sup> 27/05/2015	-	-	-	-	0	4.2
<sup>3</sup> 28/05/2015	-	-	-	-	0	0.0
<sup>3</sup> 29/05/2015	-	-	-	-	0	0.0
<sup>3</sup> 30/05/2015	-	-	-	-	0	0.0
<sup>3</sup> 31/05/2015	-	-	-	-	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 15 Station 3 Nitrogen Dioxide Monthly Summary

- 1.No data due to system maintenance
- 2.No data due to instrument fault
- 3.No data due to nightly spans outside of tolerance

### Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary May 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/05/2015	0.4	0.3	0.5	15:00	0.5	20:00	0	95.8
2/05/2015	0.5	0.4	0.7	21:00	0.6	23:00	0	95.8
3/05/2015	0.5	0.4	0.9	23:00	0.7	23:00	0	95.8
<sup>1</sup> 4/05/2015	-	-	-	-	0.8	3:00	0	68.4
<sup>1</sup> 5/05/2015	-	-	-	-	-	-	0	0.0
<sup>1</sup> 6/05/2015	-	-	-	-	-	-	0	15.7
7/05/2015	0.5	0.1	0.7	21:00	0.6	23:00	0	95.5
8/05/2015	0.3	0.2	0.7	21:00	0.6	1:00	0	95.5
9/05/2015	0.3	0.2	0.6	0:00	0.6	1:00	0	95.5
10/05/2015	0.3	0.3	0.4	17:00	0.4	23:00	0	95.5
11/05/2015	0.3	0.2	0.7	7:00	0.4	12:00	0	95.5
12/05/2015	0.4	0.3	0.7	19:00	0.6	23:00	0	95.5
13/05/2015	0.3	0.1	0.5	7:00	0.6	1:00	0	95.5
14/05/2015	0.3	0.2	0.9	20:00	0.6	23:00	0	95.5
15/05/2015	0.4	0.3	0.5	0:00	0.7	1:00	0	95.5
16/05/2015	0.3	0.2	0.4	17:00	0.4	23:00	0	95.5
17/05/2015	0.3	0.2	0.3	21:00	0.4	0:00	0	95.5
18/05/2015	0.3	0.2	0.4	18:00	0.3	12:00	0	91.0
19/05/2015	0.4	0.3	0.6	23:00	0.5	23:00	0	95.5
20/05/2015	0.5	0.4	0.7	8:00	0.6	23:00	0	95.5
21/05/2015	0.4	0.2	0.6	8:00	0.6	0:00	0	95.5
22/05/2015	0.1	0.1	0.3	0:00	0.3	0:00	0	95.5
23/05/2015	0.3	0.2	0.4	21:00	0.3	23:00	0	95.5
24/05/2015	0.3	0.3	0.3	21:00	0.3	1:00	0	96.9
25/05/2015	0.3	0.3	0.4	19:00	0.4	23:00	0	96.9
26/05/2015	0.4	0.3	0.7	22:00	0.5	23:00	0	96.9
27/05/2015	0.4	0.3	0.7	22:00	0.6	1:00	0	91.3
28/05/2015	0.5	0.3	0.8	22:00	0.6	23:00	0	96.9
29/05/2015	0.5	0.3	0.7	0:00	0.7	2:00	0	96.9
30/05/2015	0.4	0.4	0.6	2:00	0.5	3:00	0	96.9
31/05/2015	0.4	0.3	0.6	3:00	0.5	8:00	0	96.9

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

Table 16 Station 3 Carbon Monoxide Monthly Summary

1.No data due to system maintenance

**PM<sub>2.5</sub> Summary**

Station 3 Lewis St Ambient AQMS Particulate PM <sub>2.5</sub> Summary May 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 25.0 µg/m <sup>3</sup>	
<sup>1</sup> 1/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 2/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 3/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 4/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 5/05/2015	-	-	-	-	0	0.0
<sup>2</sup> 6/05/2015	-	-	-	-	0	16.7
7/05/2015	4.9	-0.7	9.5	20:00	0	100.0
8/05/2015	4.2	0.0	8.8	21:00	0	100.0
9/05/2015	5.9	1.0	17.3	19:00	0	100.0
10/05/2015	2.6	-0.6	5.0	9:00	0	91.7
11/05/2015	2.2	0.0	8.8	8:00	0	83.3
12/05/2015	3.5	-0.9	8.9	20:00	0	91.7
13/05/2015	3.0	-1.0	9.9	0:00	0	87.5
14/05/2015	3.6	-1.0	16.0	22:00	0	87.5
15/05/2015	3.3	-0.8	12.7	0:00	0	91.7
16/05/2015	2.0	-0.9	5.9	7:00	0	95.8
17/05/2015	1.3	-0.9	5.1	23:00	0	91.7
18/05/2015	1.9	-0.9	5.8	0:00	0	100.0
19/05/2015	1.9	-0.9	5.0	5:00	0	100.0
20/05/2015	3.3	-0.9	7.8	9:00	0	95.8
21/05/2015	4.7	0.1	12.9	9:00	0	95.8
22/05/2015	1.2	-1.0	4.8	9:00	0	83.3
23/05/2015	2.5	-0.9	10.9	22:00	0	91.7
24/05/2015	3.0	-1.0	6.0	15:00	0	100.0
25/05/2015	3.4	0.0	7.6	21:00	0	100.0
26/05/2015	4.4	1.1	9.9	22:00	0	100.0
27/05/2015	5.0	0.3	9.7	6:00	0	83.3
28/05/2015	5.9	0.3	10.8	9:00	0	91.7
29/05/2015	5.8	0.1	11.0	9:00	0	100.0
30/05/2015	6.3	3.0	12.5	23:00	0	100.0
31/05/2015	<b>9.7</b>	3.0	16.8	0:00	0	91.7

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

Table 17 Station 3 PM<sub>2.5</sub> Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to system maintenance

**PM<sub>10</sub> Summary**
**Station 3 Lewis St Ambient AQMS Particulate PM<sub>10</sub> Summary May 2015**

Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 50.0 µg/m <sup>3</sup>	
1/05/2015	6.7	0.4	20.2	21:00	0	100.0
2/05/2015	5.9	0.2	17.8	18:00	0	100.0
3/05/2015	5.9	0.0	17.8	22:00	0	91.7
4/05/2015	13.0	5.3	23.0	21:00	0	87.5
5/05/2015	11.5	6.2	27.0	8:00	0	100.0
<sup>1</sup> 6/05/2015	-	-	-	-	0	33.3
7/05/2015	<b>29.8</b>	11.0	42.2	16:00	0	100.0
8/05/2015	16.8	7.9	27.8	15:00	0	100.0
9/05/2015	12.6	7.0	21.6	18:00	0	100.0
10/05/2015	8.8	5.0	18.4	17:00	0	100.0
11/05/2015	11.1	4.1	35.8	7:00	0	100.0
12/05/2015	18.4	9.4	27.7	8:00	0	100.0
13/05/2015	9.1	5.0	12.4	6:00	0	100.0
14/05/2015	15.9	10.3	29.2	20:00	0	100.0
15/05/2015	16.2	12.7	22.6	7:00	0	100.0
16/05/2015	14.1	4.6	34.7	14:00	0	100.0
17/05/2015	9.1	5.3	15.8	9:00	0	100.0
18/05/2015	10.2	4.9	15.7	12:00	0	100.0
19/05/2015	9.6	6.6	14.1	19:00	0	100.0
20/05/2015	10.1	4.9	21.8	8:00	0	100.0
21/05/2015	9.4	5.8	27.7	8:00	0	100.0
22/05/2015	6.0	2.8	8.7	18:00	0	100.0
23/05/2015	15.7	4.9	25.3	21:00	0	100.0
24/05/2015	15.2	5.5	22.7	17:00	0	100.0
25/05/2015	17.1	11.3	24.5	1:00	0	100.0
26/05/2015	13.8	7.9	18.3	8:00	0	100.0
27/05/2015	13.0	5.1	22.5	8:00	0	95.8
28/05/2015	12.2	4.3	35.4	7:00	0	100.0
29/05/2015	12.8	5.9	23.6	8:00	0	100.0
30/05/2015	13.0	6.7	21.6	7:00	0	100.0
31/05/2015	12.6	4.0	19.2	7:00	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 PM<sub>10</sub> Monthly Summary

1.No data due to system maintenance



## Station 4 (Airportlink Operation Centre)

### Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary May 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> <sup>1</sup> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.013	0.3	-	12.7
Min 1hr Average	0.002	0.1	-	-0.9
Max 1hr Average	0.039	0.8	-	48.9
Max 8hr Rolling Average	N/A	0.6	N/A	N/A
Max 24hr Average	N/A	N/A	-	33.7
Capture Rate (%)	95.2	94.5	0.0	98.1

Table 19 Station 4 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

1. No data due to instrument failure

### Nitrogen Dioxide Summary

#### Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary May 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		
1/05/2015	0.013	0.006	0.021	7:00	0	95.8
2/05/2015	0.010	0.005	0.022	19:00	0	91.7
3/05/2015	0.009	0.004	0.019	20:00	0	95.8
4/05/2015	0.015	0.008	0.025	20:00	0	91.7
5/05/2015	0.019	0.013	0.024	18:00	0	95.8
6/05/2015	0.021	0.013	0.039	19:00	0	95.8
7/05/2015	0.014	0.007	0.025	18:00	0	95.8
8/05/2015	0.014	0.005	0.030	18:00	0	95.8
9/05/2015	0.010	0.004	0.029	18:00	0	95.8
10/05/2015	0.008	0.003	0.014	18:00	0	95.8
11/05/2015	0.007	0.002	0.028	7:00	0	95.8
12/05/2015	0.014	0.004	0.031	18:00	0	95.8
13/05/2015	0.008	0.002	0.024	6:00	0	95.8
14/05/2015	0.011	0.002	0.029	18:00	0	95.8
15/05/2015	0.014	0.005	0.024	16:00	0	95.8
16/05/2015	0.008	0.005	0.017	14:00	0	95.8
17/05/2015	0.009	0.007	0.012	16:00	0	95.8
18/05/2015	0.014	0.005	0.028	17:00	0	95.8
19/05/2015	0.016	0.006	0.025	17:00	0	95.8
20/05/2015	0.013	0.004	0.026	18:00	0	95.8
21/05/2015	0.010	0.004	0.018	8:00	0	95.8
22/05/2015	0.004	0.003	0.012	7:00	0	95.8
23/05/2015	0.008	0.002	0.023	20:00	0	95.8
24/05/2015	0.008	0.003	0.015	17:00	0	95.8
25/05/2015	0.016	0.003	0.029	17:00	0	91.7
26/05/2015	0.017	0.007	0.033	21:00	0	87.5
27/05/2015	0.017	0.010	0.027	19:00	0	95.8
28/05/2015	0.017	0.010	0.031	19:00	0	95.8
29/05/2015	0.018	0.011	0.026	18:00	0	95.8
30/05/2015	0.016	0.009	0.025	18:00	0	95.8
31/05/2015	0.009	0.003	0.019	0:00	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 May 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/05/2015	0.3	0.2	0.4	08:00	0.4	00:00	0	95.5
2/05/2015	0.4	0.2	0.7	21:00	0.6	22:00	0	94.1
3/05/2015	0.3	0.2	0.8	21:00	0.6	0:00	0	95.5
4/05/2015	0.3	0.2	0.5	20:00	0.6	2:00	0	93.1
5/05/2015	0.3	0.2	0.5	23:00	0.4	1:00	0	95.5
6/05/2015	0.4	0.2	0.6	18:00	0.5	23:00	0	95.5
7/05/2015	0.2	0.1	0.4	18:00	0.4	0:00	0	95.5
8/05/2015	0.2	0.1	0.5	18:00	0.4	23:00	0	95.5
9/05/2015	0.3	0.2	0.6	18:00	0.4	0:00	0	95.5
10/05/2015	0.2	0.1	0.3	6:00	0.3	0:00	0	95.5
11/05/2015	0.2	0.1	0.7	7:00	0.3	08:00	0	95.5
12/05/2015	0.3	0.2	0.5	7:00	0.3	12:00	0	95.5
13/05/2015	0.3	0.2	0.7	6:00	0.4	7:00	0	95.5
14/05/2015	0.3	0.1	0.8	20:00	0.5	23:00	0	95.5
15/05/2015	0.3	0.2	0.5	15:00	0.5	1:00	0	95.5
16/05/2015	0.3	0.2	0.4	14:00	0.3	17:00	0	95.5
17/05/2015	0.3	0.2	0.4	16:00	0.3	21:00	0	95.5
18/05/2015	0.4	0.2	0.6	17:00	0.4	22:00	0	95.5
19/05/2015	0.4	0.2	0.6	22:00	0.5	23:00	0	95.5
20/05/2015	0.4	0.2	0.6	8:00	0.5	1:00	0	95.5
21/05/2015	0.3	0.2	0.6	8:00	0.5	8:00	0	95.5
22/05/2015	0.2	0.2	0.2	7:00	0.3	1:00	0	95.5
23/05/2015	0.2	0.1	0.4	20:00	0.3	23:00	0	95.5
24/05/2015	0.3	0.2	0.4	18:00	0.3	18:00	0	96.9
25/05/2015	0.3	0.2	0.7	17:00	0.4	21:00	0	94.1
<sup>1</sup> 26/05/2015	-	-	-	-	0.4	0:00	0	68.4
27/05/2015	0.4	0.3	0.6	20:00	0.5	23:00	0	96.9
28/05/2015	0.4	0.3	0.7	21:00	0.5	23:00	0	96.9
29/05/2015	0.5	0.3	0.7	23:00	0.5	1:00	0	96.9
30/05/2015	0.4	0.3	0.6	0:00	0.6	3:00	0	96.2
31/05/2015	0.4	0.2	0.6	0:00	0.5	7:00	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

1.No data due to system maintenance

**PM<sub>2.5</sub> Summary**
**Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM<sub>2.5</sub> Summary May 2015**

Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 25.0 µg/m <sup>3</sup>	
1/05/2015	-	-	-	-	0	0.0
2/05/2015	-	-	-	-	0	0.0
3/05/2015	-	-	-	-	0	0.0
4/05/2015	-	-	-	-	0	0.0
5/05/2015	-	-	-	-	0	0.0
6/05/2015	-	-	-	-	0	0.0
7/05/2015	-	-	-	-	0	0.0
8/05/2015	-	-	-	-	0	0.0
9/05/2015	-	-	-	-	0	0.0
10/05/2015	-	-	-	-	0	0.0
11/05/2015	-	-	-	-	0	0.0
12/05/2015	-	-	-	-	0	0.0
13/05/2015	-	-	-	-	0	0.0
14/05/2015	-	-	-	-	0	0.0
15/05/2015	-	-	-	-	0	0.0
16/05/2015	-	-	-	-	0	0.0
17/05/2015	-	-	-	-	0	0.0
18/05/2015	-	-	-	-	0	0.0
19/05/2015	-	-	-	-	0	0.0
20/05/2015	-	-	-	-	0	0.0
21/05/2015	-	-	-	-	0	0.0
22/05/2015	-	-	-	-	0	0.0
23/05/2015	-	-	-	-	0	0.0
24/05/2015	-	-	-	-	0	0.0
25/05/2015	-	-	-	-	0	0.0
26/05/2015	-	-	-	-	0	0.0
27/05/2015	-	-	-	-	0	0.0
28/05/2015	-	-	-	-	0	0.0
29/05/2015	-	-	-	-	0	0.0
30/05/2015	-	-	-	-	0	0.0
31/05/2015	-	-	-	-	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<sub>2.5</sub> Monthly Summary

Note: No data due to instrument fault

**PM<sub>10</sub> Summary**
**Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM<sub>10</sub> Summary May 2015**

Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 50.0 µg/m <sup>3</sup>	
1/05/2015	8.2	1.2	20.2	12:00	0	100.0
2/05/2015	6.9	-0.8	25.9	20:00	0	83.3
3/05/2015	6.3	0.1	21.5	21:00	0	91.7
4/05/2015	12.2	6.0	21.5	18:00	0	100.0
5/05/2015	14.3	8.0	22.1	22:00	0	100.0
6/05/2015	14.5	5.0	28.8	19:00	0	100.0
7/05/2015	<b>33.8</b>	6.9	48.9	19:00	0	100.0
8/05/2015	17.4	8.0	31.2	0:00	0	100.0
9/05/2015	11.4	6.0	18.0	0:00	0	100.0
10/05/2015	6.8	3.1	10.8	5:00	0	100.0
11/05/2015	8.1	2.1	19.0	15:00	0	100.0
12/05/2015	17.0	5.0	29.6	18:00	0	100.0
13/05/2015	9.1	5.0	16.6	8:00	0	100.0
14/05/2015	11.5	4.2	23.8	21:00	0	100.0
15/05/2015	13.7	7.3	23.5	15:00	0	100.0
16/05/2015	10.6	2.2	24.5	14:00	0	100.0
17/05/2015	7.3	-0.9	17.0	13:00	0	100.0
18/05/2015	10.4	2.1	25.8	18:00	0	100.0
19/05/2015	9.8	3.5	19.2	0:00	0	100.0
20/05/2015	8.7	1.5	20.2	16:00	0	95.8
21/05/2015	9.2	3.2	17.9	8:00	0	100.0
22/05/2015	3.8	-0.6	12.6	14:00	0	100.0
23/05/2015	13.3	6.0	22.5	13:00	0	100.0
24/05/2015	12.8	2.0	20.0	14:00	0	100.0
25/05/2015	16.2	7.1	21.5	13:00	0	91.7
26/05/2015	11.9	5.2	19.0	20:00	0	91.7
27/05/2015	13.0	5.1	18.7	23:00	0	100.0
28/05/2015	10.8	3.3	19.7	20:00	0	100.0
29/05/2015	13.3	6.0	23.7	9:00	0	100.0
30/05/2015	18.6	8.9	28.1	11:00	0	91.7
31/05/2015	15.2	8.0	27.0	0:00	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 23 Station 4 PM<sub>10</sub> Monthly Summary

## Station 5 (Bryden Street)

### Summary

Station 5 Bryden St Ambient AQMS Summary May 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.013	0.3	7.6	19.4
Min 1hr Average	0.001	0.0	-1.0	0.9
Max 1hr Average	0.047	1.0	25.2	68.5
Max 8hr Rolling Average	N/A	0.6	N/A	N/A
Max 24hr Average	N/A	N/A	12.5	42.3
Capture Rate (%)	95.2	95.2	91.4	87.8

Table 24 Station 5 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary May 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		
1/05/2015	0.012	0.002	0.023	7:00	0	95.8
2/05/2015	0.007	0.002	0.024	19:00	0	95.8
3/05/2015	0.007	0.002	0.019	18:00	0	95.8
4/05/2015	0.014	0.007	0.032	19:00	0	95.8
5/05/2015	0.018	0.005	0.029	19:00	0	79.2
6/05/2015	0.020	0.006	0.047	18:00	0	95.8
7/05/2015	0.015	0.002	0.032	6:00	0	95.8
8/05/2015	0.016	0.007	0.027	20:00	0	95.8
9/05/2015	0.013	0.002	0.029	18:00	0	95.8
10/05/2015	0.012	0.002	0.029	18:00	0	95.8
11/05/2015	0.008	0.001	0.029	7:00	0	95.8
12/05/2015	0.016	0.002	0.035	19:00	0	95.8
13/05/2015	0.010	0.002	0.026	7:00	0	95.8
14/05/2015	0.012	0.001	0.030	17:00	0	95.8
15/05/2015	0.015	0.007	0.024	6:00	0	95.8
16/05/2015	0.007	0.003	0.013	6:00	0	95.8
17/05/2015	0.006	0.002	0.012	20:00	0	95.8
18/05/2015	0.012	0.005	0.020	17:00	0	95.8
19/05/2015	0.017	0.007	0.024	19:00	0	95.8
20/05/2015	0.014	0.009	0.024	18:00	0	95.8
21/05/2015	0.010	0.004	0.019	8:00	0	95.8
22/05/2015	0.004	0.001	0.012	6:00	0	95.8
23/05/2015	0.010	0.003	0.021	20:00	0	95.8
24/05/2015	0.006	0.002	0.013	5:00	0	95.8
25/05/2015	0.015	0.004	0.022	21:00	0	91.7
26/05/2015	0.016	0.008	0.025	18:00	0	95.8
27/05/2015	0.015	0.007	0.024	20:00	0	95.8
28/05/2015	0.018	0.007	0.031	19:00	0	95.8
29/05/2015	0.017	0.006	0.025	20:00	0	95.8
30/05/2015	0.015	0.008	0.026	19:00	0	95.8
31/05/2015	0.010	0.002	0.020	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 25 Station 5 Nitrogen Dioxide Monthly Summary

*Carbon Monoxide Summary*

Station 5 Bryden St Ambient AQMS Carbon Monoxide Summary May 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/05/2015	0.3	0.2	0.4	07:00	0.4	20:00	0	95.8
2/05/2015	0.2	0.1	0.5	21:00	0.3	23:00	0	95.8
3/05/2015	0.3	0.2	0.7	21:00	0.5	23:00	0	95.8
4/05/2015	0.4	0.2	0.7	20:00	0.5	1:00	0	95.8
<sup>1</sup> 5/05/2015	0.3	0.2	0.5	22:00	-	-	0	79.2
6/05/2015	0.4	0.1	1.0	19:00	0.5	23:00	0	95.8
7/05/2015	0.2	0.0	0.4	21:00	0.5	0:00	0	95.8
8/05/2015	0.2	0.1	0.5	20:00	0.4	23:00	0	95.8
9/05/2015	0.2	0.1	0.4	19:00	0.4	1:00	0	95.8
10/05/2015	0.2	0.1	0.4	18:00	0.3	0:00	0	95.8
11/05/2015	0.2	0.1	0.6	6:00	0.3	8:00	0	95.8
12/05/2015	0.4	0.1	0.7	20:00	0.5	23:00	0	95.8
13/05/2015	0.2	0.1	0.7	7:00	0.5	1:00	0	95.8
14/05/2015	0.3	0.1	0.6	22:00	0.4	23:00	0	95.8
15/05/2015	0.2	0.2	0.4	0:00	0.5	0:00	0	95.8
16/05/2015	0.2	0.2	0.3	8:00	0.3	0:00	0	95.8
17/05/2015	0.2	0.2	0.3	21:00	0.3	23:00	0	95.8
18/05/2015	0.2	0.2	0.3	17:00	0.3	23:00	0	95.8
19/05/2015	0.3	0.2	0.7	22:00	0.5	23:00	0	95.8
20/05/2015	0.3	0.2	0.5	0:00	0.5	2:00	0	95.8
21/05/2015	0.3	0.2	0.5	8:00	0.4	9:00	0	95.8
22/05/2015	0.1	0.0	0.2	6:00	0.2	0:00	0	95.8
23/05/2015	0.1	0.1	0.3	20:00	0.2	23:00	0	95.8
24/05/2015	0.2	0.2	0.2	21:00	0.2	1:00	0	95.8
25/05/2015	0.3	0.2	0.4	21:00	0.3	23:00	0	91.7
26/05/2015	0.3	0.2	0.5	22:00	0.4	23:00	0	95.8
27/05/2015	0.3	0.2	0.6	20:00	0.4	23:00	0	95.8
28/05/2015	0.4	0.2	0.8	22:00	0.6	23:00	0	95.8
29/05/2015	0.4	0.2	0.7	23:00	0.6	1:00	0	95.8
30/05/2015	0.4	0.3	0.6	0:00	0.6	2:00	0	95.8
31/05/2015	0.3	0.2	0.6	0:00	0.5	2:00	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

1.No 8 hour average due to system maintenance



PM<sub>2.5</sub> Summary

Station 5 Bryden St Ambient AQMS Particulate PM <sub>2.5</sub> Summary May 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 25.0 µg/m <sup>3</sup>	
1/05/2015	5.0	1.4	11.2	12:00	0	100.0
2/05/2015	4.8	0.8	13.3	21:00	0	100.0
3/05/2015	9.0	3.8	18.6	22:00	0	100.0
4/05/2015	10.2	3.5	16.6	8:00	0	95.8
5/05/2015	10.5	6.2	21.0	18:00	0	83.3
6/05/2015	12.5	3.0	25.2	8:00	0	95.8
7/05/2015	9.1	3.8	19.0	3:00	0	100.0
8/05/2015	8.7	5.2	18.5	17:00	0	100.0
9/05/2015	9.9	4.3	18.0	13:00	0	91.7
10/05/2015	7.7	3.5	16.5	17:00	0	100.0
11/05/2015	5.7	2.0	16.3	17:00	0	100.0
12/05/2015	8.3	3.0	24.8	21:00	0	100.0
13/05/2015	6.9	1.8	17.3	17:00	0	95.8
14/05/2015	7.3	2.3	15.5	23:00	0	100.0
15/05/2015	8.8	4.3	17.3	17:00	0	100.0
16/05/2015	7.9	2.7	17.0	14:00	0	95.8
17/05/2015	5.2	1.7	14.5	14:00	0	100.0
18/05/2015	3.7	1.0	7.8	4:00	0	95.8
19/05/2015	8.2	3.3	16.3	16:00	0	100.0
20/05/2015	10.4	5.2	20.2	17:00	0	100.0
21/05/2015	8.1	3.2	17.2	8:00	0	100.0
<sup>1</sup> 22/05/2015	-	-	-	-	0	70.8
<sup>1</sup> 23/05/2015	-	-	-	-	0	26.1
24/05/2015	2.6	-1.0	6.8	18:00	0	79.2
25/05/2015	3.5	0.3	12.6	18:00	0	79.2
26/05/2015	5.2	0.6	10.7	16:00	0	83.3
<sup>2</sup> 27/05/2015	-	-	-	-	0	66.7
28/05/2015	5.6	0.0	12.7	7:00	0	87.5
29/05/2015	6.7	0.3	21.8	20:00	0	100.0
30/05/2015	9.0	3.1	19.0	12:00	0	87.5
31/05/2015	10.3	1.0	22.6	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 27 Station 5 PM<sub>2.5</sub> Monthly Summary

- 1.No data due to instrument fault
- 2.No data due to system maintenance

**PM<sub>10</sub> Summary**

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary May 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max	24hr Avg > 50.0 µg/m <sup>3</sup>	
1/05/2015	12.1	0.9	28.3	12:00	0	100.0
2/05/2015	9.7	3.0	24.4	22:00	0	100.0
3/05/2015	13.0	2.7	27.0	21:00	0	100.0
4/05/2015	21.8	11.8	36.4	9:00	0	100.0
5/05/2015	21.6	11.9	30.8	7:00	0	83.3
6/05/2015	19.0	7.4	40.3	8:00	0	100.0
7/05/2015	42.3	22.0	68.5	7:00	0	100.0
8/05/2015	24.8	8.8	36.9	17:00	0	100.0
<sup>1</sup> 9/05/2015	-	-	-	-	0	12.5
<sup>1</sup> 10/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 11/05/2015	-	-	-	-	0	0.0
<sup>1</sup> 12/05/2015	-	-	-	-	0	30.4
13/05/2015	18.6	10.6	35.5	8:00	0	100.0
14/05/2015	17.2	11.0	22.8	6:00	0	100.0
15/05/2015	16.8	11.2	26.3	0:00	0	100.0
16/05/2015	16.8	4.0	26.5	13:00	0	100.0
17/05/2015	12.0	5.0	19.1	21:00	0	100.0
18/05/2015	13.4	6.2	22.3	12:00	0	100.0
19/05/2015	16.4	6.7	24.8	14:00	0	100.0
20/05/2015	23.5	13.9	31.5	9:00	0	100.0
21/05/2015	18.7	7.5	41.2	9:00	0	100.0
22/05/2015	7.2	3.0	11.8	12:00	0	100.0
23/05/2015	15.8	2.0	25.9	13:00	0	100.0
24/05/2015	17.2	11.0	21.8	18:00	0	100.0
25/05/2015	22.2	16.2	60.6	18:00	0	95.8
26/05/2015	16.3	12.0	26.4	21:00	0	100.0
27/05/2015	17.2	11.6	26.9	3:00	0	100.0
28/05/2015	18.7	11.0	31.3	8:00	0	100.0
29/05/2015	21.6	13.2	33.3	11:00	0	100.0
30/05/2015	21.0	13.0	28.6	11:00	0	100.0
31/05/2015	21.3	13.5	31.9	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 28 Station 5 PM<sub>10</sub> Monthly Summary

1.No data due to instrument fault

## Graphical Representations

### Nitrogen Dioxide

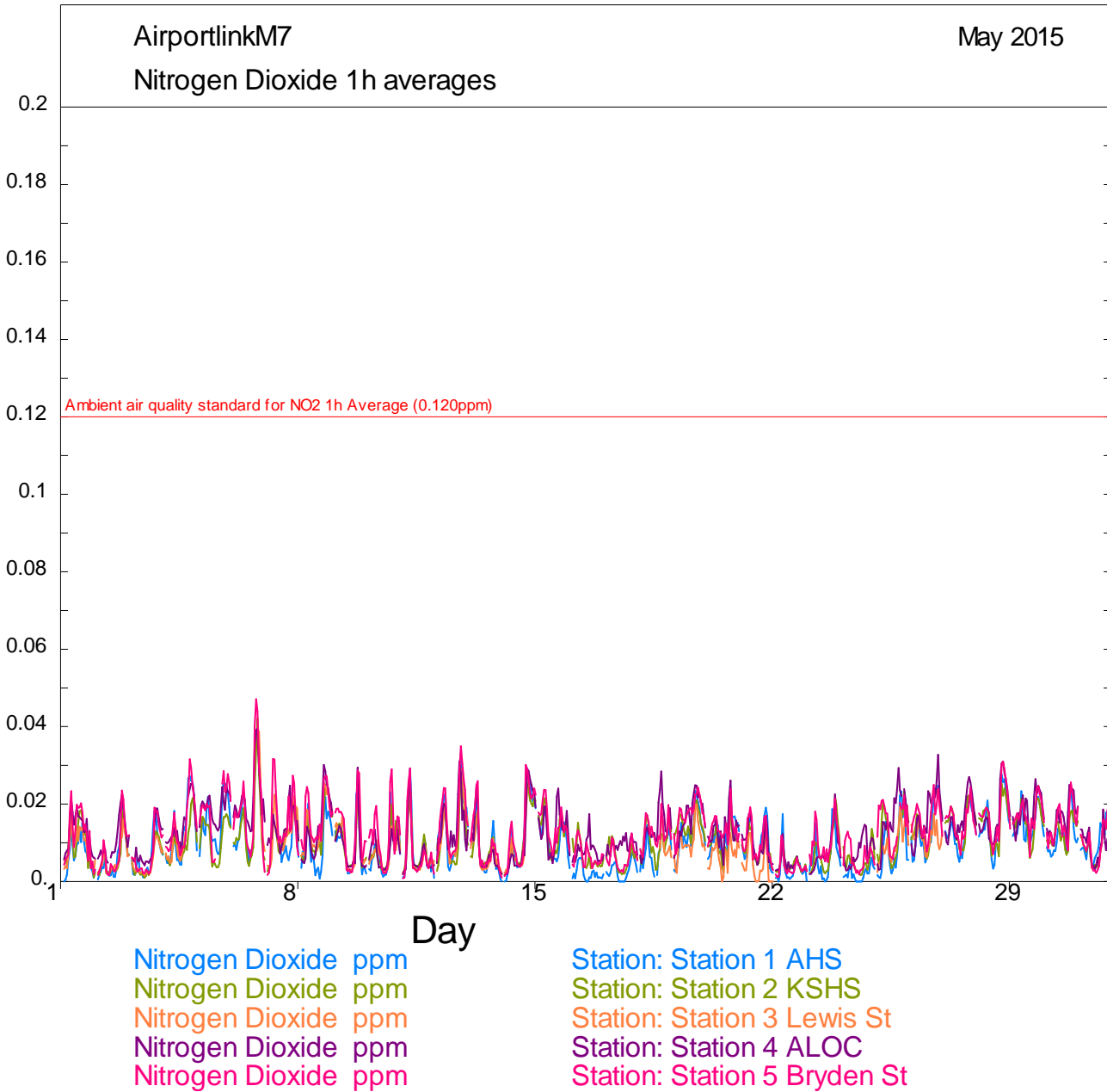


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

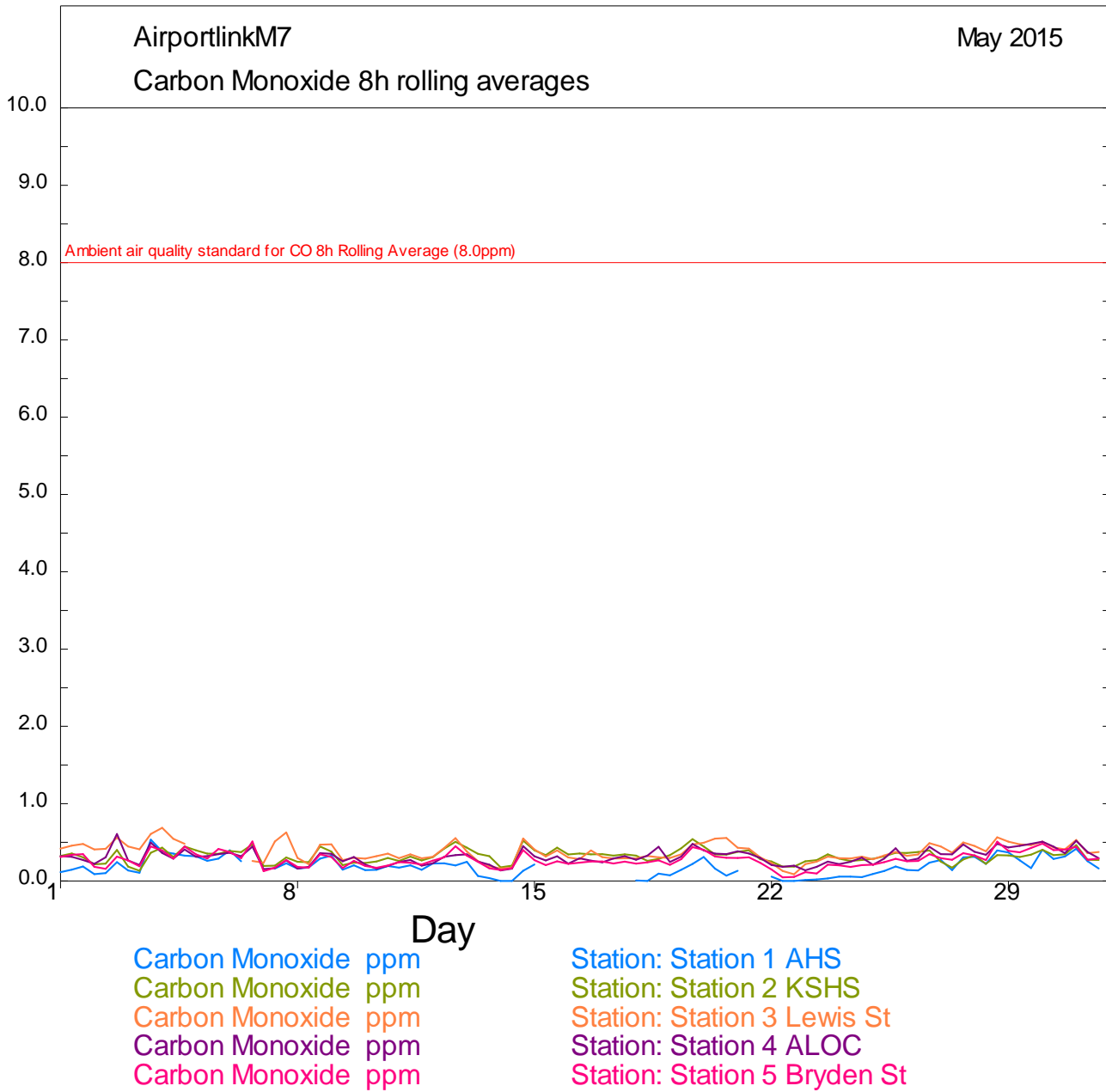


Figure 2 Carbon Monoxide 8hr rolling averages

PM<sub>10</sub> 24hr Averages

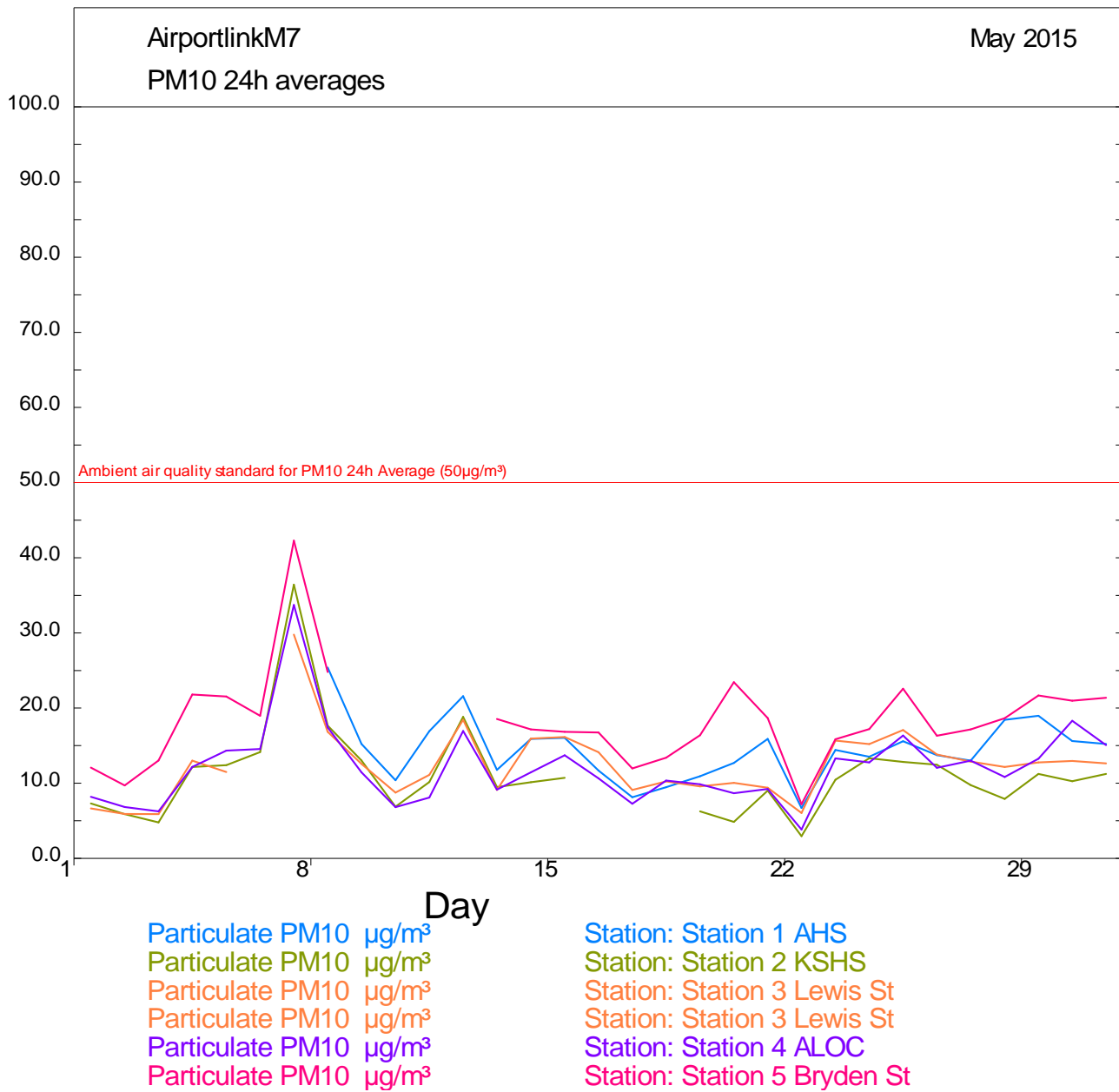


Figure 3 PM<sub>10</sub> 24hr Averages

PM<sub>2.5</sub> 24hr Averages

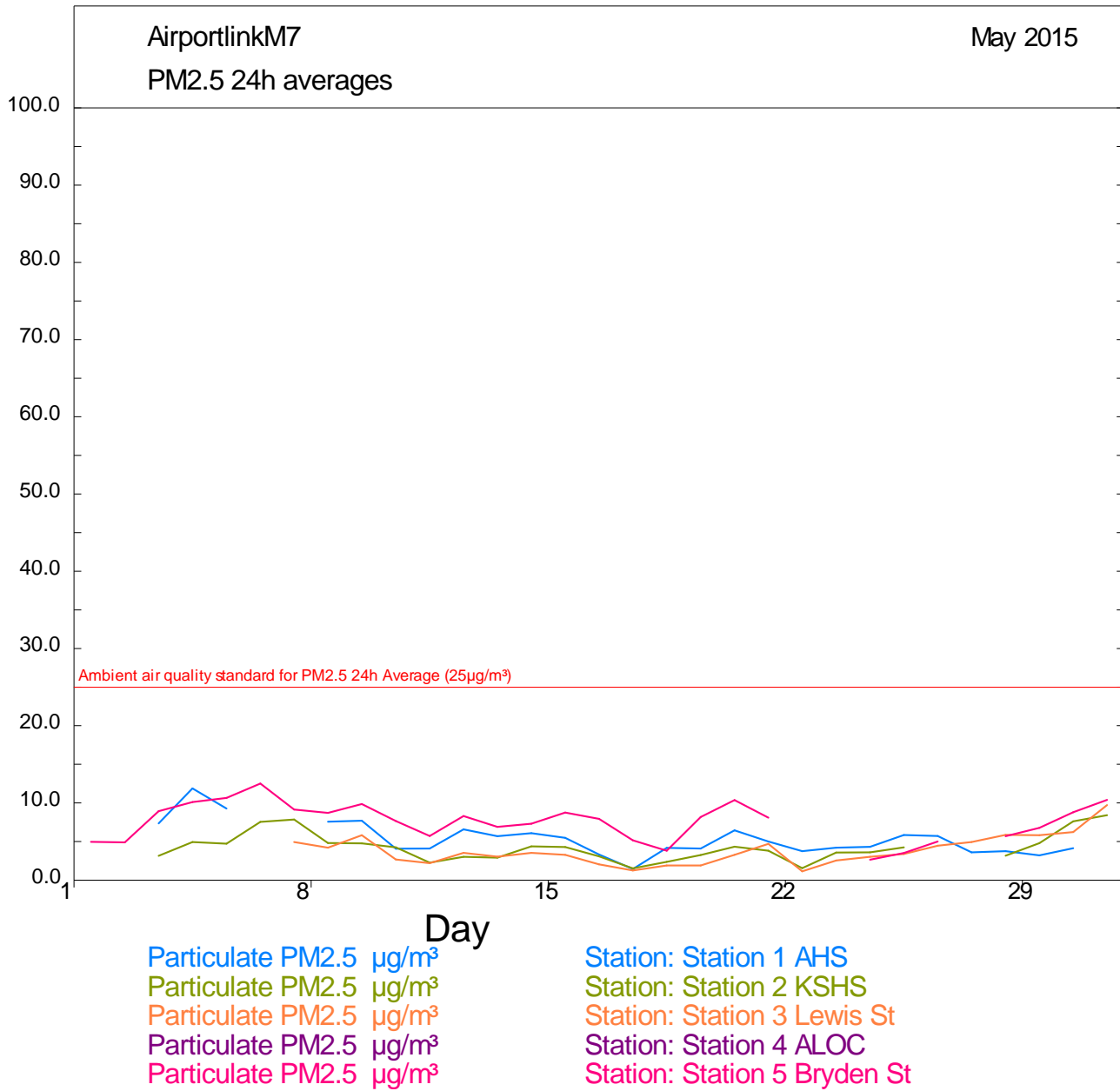


Figure 4 PM<sub>2.5</sub> 24hr Averages

## 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 May 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 ( $\mu\text{g}/\text{m}^3$ )
6/05/2015	61	31	33	28	29
12/05/2015	38	30	29	32	40
18/05/2015	21	16	16	18	15
24/05/2015	15	15	17	16	16
30/05/2015	34	29	24	33	27
Monthly Average	33.8	24.2	23.8	25.4	25.4

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 May 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/05/2015 0:00	6/05/2015 14:40	PM <sub>10</sub>	Instrument fault	14/06/2015	CP
1/05/2015 0:25	31/05/2015 13:35	PM <sub>2.5</sub>	Intermittent instrument fault - fault code logged	14/06/2015	CP
1/05/2015 0:55	31/05/2015 23:50	PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	14/06/2015	CP
2/05/2015 10:05	31/05/2015 10:35	CO	Intermittent instrument automatic background calibrations	14/06/2015	CP
6/05/2015 14:45	7/05/2015 10:55	PM <sub>2.5</sub> , PM <sub>10</sub>	Maintenance	14/06/2015	CP
6/05/2015 15:20	7/05/2015 10:55	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	14/06/2015	CP
15/05/2015 2:00	17/05/2015 23:50	CO	Instrument fault - data drifting negative	14/06/2015	CP
21/05/2015 2:00	21/05/2015 23:45	CO	Instrument fault - data drifting negative	14/06/2015	CP
27/05/2015 17:15	27/05/2015 17:55	All parameters	Maintenance	14/06/2015	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 May 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/05/2015 0:00	7/05/2015 7:15	NO <sub>2</sub> , NO <sub>x</sub>	Data adjusted: NO <sub>2</sub> +7 ppb, NO <sub>x</sub> +7 ppb	14/06/2015	CP
1/05/2015 0:35	31/05/2015 20:25	PM <sub>10</sub> , PM <sub>2.5</sub>	Intermittent instrument faults - fault codes logged	14/06/2015	CP
1/05/2015 0:55	31/05/2015 23:50	PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	14/06/2015	CP
7/05/2015 7:20	7/05/2015 7:40	All parameters	Maintenance	14/06/2015	CP
19/05/2015 2:25	19/05/2015 2:25	All parameters	Communication error - not enough samples recorded	14/06/2015	CP
26/05/2015 17:40	26/05/2015 19:55	All parameters	Maintenance	14/06/2015	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 May 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/05/2015 0:00	4/05/2015 17:20	PM <sub>2.5</sub>	Instrument fault	14/06/2015	CP
1/05/2015 1:05	31/05/2015 23:05	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent instrument faults - fault codes logged	14/06/2015	CP
4/05/2015 17:25	6/05/2015 20:05	CO, NO, NO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub>	Maintenance	14/06/2015	CP
6/05/2015 8:10	6/05/2015 20:05	PM <sub>10</sub>	Maintenance	14/06/2015	CP
10/05/2015 15:55	31/05/2015 13:50	PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	14/06/2015	CP
14/05/2015 18:45	18/05/2015 15:15	NO, NO <sub>2</sub> , NO <sub>x</sub>	Instrument fault	14/06/2015	CP
18/05/2015 12:50	18/05/2015 13:40	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	14/06/2015	CP
18/05/2015 15:20	18/05/2015 15:35	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	14/06/2015	CP
18/05/2015 15:40	22/05/2015 0:55	NO, NO <sub>2</sub>	Data adjusted: NO +4 ppb, NO <sub>2</sub> - 4 ppb	14/06/2015	CP
22/05/2015 2:00	25/05/2015 0:55	NO, NO <sub>2</sub> , NO <sub>x</sub>	Nightly spans out of tolerance	14/06/2015	CP
27/05/2015 1:40	31/05/2015 23:55	NO, NO <sub>2</sub> , NO <sub>x</sub>	Nightly spans out of tolerance	14/06/2015	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 May 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/05/2015 0:00	31/05/2015 23:55	PM <sub>2.5</sub>	Instrument fault	14/06/2015	CP
1/05/2015 1:05	31/05/2015 23:05	PM <sub>10</sub>	Intermittent instrument faults - fault codes logged	14/06/2015	CP
2/05/2015 4:55	20/05/2015 10:50	PM <sub>10</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	14/06/2015	CP
2/05/2015 10:40	2/05/2015 10:55	All parameters	Communication error - not enough samples recorded	14/06/2015	CP
4/05/2015 17:20	4/05/2015 17:50	All parameters	Maintenance	14/06/2015	CP
25/05/2015 20:35	25/05/2015 21:10	All parameters	Maintenance	14/06/2015	CP
26/05/2015 17:05	26/05/2015 18:20	All parameters	Maintenance	14/06/2015	CP
26/05/2015 18:30	26/05/2015 23:55	CO	Large positive offset on data	14/06/2015	CP
27/05/2015 0:05	31/05/2015 23:55	CO	Data adjusted: CO * 1.06667 due to nightly spans being low	14/06/2015	CP
30/05/2015 16:30	30/05/2015 16:30	All parameters	Communication error - not enough samples recorded	14/06/2015	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 May 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/05/2015 0:20	31/05/2015 22:30	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent instrument faults - fault codes logged	14/06/2015	CP
5/05/2015 13:50	5/05/2015 17:45	All parameters	Maintenance	14/06/2015	CP
6/05/2015 14:50	30/05/2015 15:45	PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	14/06/2015	CP
9/05/2015 2:50	12/05/2015 16:45	PM <sub>10</sub>	Instrument fault	14/06/2015	CP
22/05/2015 16:50	23/05/2015 17:45	PM <sub>2.5</sub>	Instrument fault	14/06/2015	CP
25/05/2015 17:00	25/05/2015 17:45	All parameters	Maintenance	14/06/2015	CP

Table 34 Station 5 Bryden St AQMS Data Validation Table