



Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

October 2015

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Contents

Glossary	1
Executive Summary	2
<i>Exceedence Reporting</i>	2
Introduction	3
Monitoring	4
<i>Site Locations</i>	4
<i>Station Instrumentation Details</i>	4
<i>Data Logging</i>	5
Results	6
<i>Station 1 (Aviation High School)</i>	6
Summary	6
Nitrogen Dioxide Summary.....	7
Carbon Monoxide Summary.....	8
PM _{2.5} Summary	9
PM ₁₀ Summary.....	10
<i>Station 2 (Kedron State High School)</i>	11
Summary.....	11
Nitrogen Dioxide Summary.....	12
Carbon Monoxide Summary.....	13
PM _{2.5} Summary.....	14
PM ₁₀ Summary.....	15
<i>Station 3 (Lewis Street)</i>	16
Summary.....	16
Nitrogen Dioxide Summary.....	17
Carbon Monoxide Summary.....	18
PM _{2.5} Summary	19
PM ₁₀ Summary.....	20
<i>Station 4 (Airportlink Operation Centre)</i>	21
Summary.....	21
Nitrogen Dioxide Summary.....	22
Carbon Monoxide Summary.....	23
PM _{2.5} Summary	24
PM ₁₀ Summary	25
<i>Station 5 (Bryden Street)</i>	26
Summary.....	26
Nitrogen Dioxide Summary.....	27
Carbon Monoxide Summary.....	28
PM _{2.5} Summary	29
PM ₁₀ Summary.....	30
Graphical Representations	31
<i>Nitrogen Dioxide</i>	31
<i>Carbon Monoxide 8hr Rolling Averages</i>	32
<i>PM₁₀ 24hr Averages</i>	33
<i>PM_{2.5} 24hr Averages</i>	34
TSP High Volume Air Sampler Results	35
Validation Tables	36

<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

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 October 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences October 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

- 201508 ALM7 Monthly Validated Data Spreadsheets.xlsx
 - Sheet 1 – 5 minute average data
 - Sheet 2 – 1 hour average data
 - Sheet 3 – 8 hour average data
 - Sheet 4 – 24 hour average data

Instrumentation Details								
Parameter	Units	Uncertainty	Method	Last Calibration Date				
				Station 1	Station 2	Station 3	Station 4	Station 5
NO NO ₂ NO _x	ppm	2.78%	AS 3580.5.1	30/10/2015	30/10/2015	30/10/2015	29/10/2015	29/10/2015
CO	ppm	2.56%	AS 3580.7.1	30/10/2015	30/10/2015	30/10/2015	29/10/2015	29/10/2015
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	28/08/2015*	30/10/2015	27/08/2015*	28/08/2015*	28/08/2015
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.12 / EQPM 0308- 170	28/08/2015	30/10/2015	27/08/2015	28/08/2015	28/08/2015
TSP	µg/m ³	7.34%	AS 3580.9.3	22/09/2015	22/09/2015	22/09/2015	22/09/2015	22/09/2015

Table 3 Instrumentation Details

* These sites have TEOMs installed operating under method AS 3580.9.8

Data Logging

Data are recorded to a WinAQMS data logger located at each site at 5 minute averaging periods, calculated from 10 second samples. All data are retrieved periodically, approximately on an hourly basis, over a private 3G network, to a central WinCollect database, where data validation is performed to remove any data not deemed as valid prior to reporting. Data validation is performed as per the relevant standard, and/or as per the instrument manufacturers recommended guidelines.

All averages greater than 5 minute averages are calculated from the 5 minute average data set. 75% valid data must be available to calculate re-averaged data. For example, to calculate a 1hr average from 5 minute data, there must be a minimum of 9 out of 12 valid 5 minute average data points available.

All data is recorded to Australian Eastern Standard Time.

Data capture rates are calculated as per the following formula:

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

where:

Available data points = total number of 5 minute averages for the reporting period in which valid data was recorded

Total data points = total number of 5 minute averages for the reporting period inclusive of invalid data

Results

Station 1 (Aviation High School)

Summary

Station 1 Aviation High School Ambient AQMS Summary October 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.006	0.3	6.9	15.3
Min 1hr Average	-0.001	-0.1	-1.0	0.7
Max 1hr Average	0.029	0.8	25.1	63.6
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	13.6	33.6
Capture Rate (%)	95.7	91.3	88.4	89.9

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 October 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		
1/10/2015	0.011	0.004	0.020	21:00	0	97.2
2/10/2015	0.012	0.001	0.029	21:00	0	97.2
3/10/2015	0.007	-0.001	0.020	21:00	0	97.2
4/10/2015	0.006	0.000	0.015	0:00	0	97.2
5/10/2015	0.008	0.001	0.018	22:00	0	97.2
6/10/2015	0.014	0.003	0.026	20:00	0	97.2
7/10/2015	0.008	0.000	0.018	8:00	0	97.2
8/10/2015	0.002	-0.001	0.007	7:00	0	97.2
9/10/2015	0.003	-0.001	0.009	20:00	0	97.2
10/10/2015	0.004	-0.001	0.020	22:00	0	97.2
11/10/2015	0.005	-0.001	0.017	0:00	0	97.2
12/10/2015	0.004	0.000	0.015	6:00	0	97.2
13/10/2015	0.005	0.001	0.012	6:00	0	97.2
14/10/2015	0.006	0.001	0.014	8:00	0	97.2
15/10/2015	0.003	0.000	0.009	5:00	0	97.2
16/10/2015	0.007	0.000	0.021	21:00	0	97.2
17/10/2015	0.005	-0.001	0.018	0:00	0	97.2
18/10/2015	0.003	-0.001	0.010	3:00	0	97.2
19/10/2015	0.005	0.000	0.017	23:00	0	97.2
20/10/2015	0.008	0.000	0.017	23:00	0	97.2
21/10/2015	0.007	0.000	0.017	0:00	0	97.2
22/10/2015	0.009	0.000	0.029	18:00	0	97.2
23/10/2015	0.005	0.001	0.015	0:00	0	97.2
24/10/2015	0.003	-0.001	0.010	6:00	0	97.2
25/10/2015	0.003	0.000	0.010	7:00	0	97.2
26/10/2015	0.003	0.000	0.011	7:00	0	97.2
27/10/2015	0.004	-0.001	0.013	6:00	0	97.2
28/10/2015	0.004	0.000	0.009	6:00	0	97.2
29/10/2015	0.003	0.001	0.007	6:00	0	97.2
30/10/2015	0.007	0.001	0.021	20:00	0	92.0
31/10/2015	0.007	-0.001	0.017	2:00	0	97.2

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

Table 5 Station 1 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary October 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		
1/10/2015	0.6	0.4	0.8	10:00	0.7	14:00	0	96.5
2/10/2015	0.6	0.4	0.8	9:00	0.7	15:00	0	96.5
¹ 3/10/2015	-	-	-	-	-	-	0	2.1
¹ 4/10/2015	-	-	-	-	-	-	0	52.4
5/10/2015	0.3	0.0	0.6	8:00	0.4	9:00	0	94.8
6/10/2015	0.4	0.2	0.7	8:00	0.5	9:00	0	95.1
7/10/2015	0.4	0.2	0.6	8:00	0.5	15:00	0	96.9
8/10/2015	0.4	0.2	0.5	8:00	0.4	15:00	0	96.9
9/10/2015	0.3	0.2	0.5	12:00	0.4	16:00	0	96.9
10/10/2015	0.3	0.2	0.5	23:00	0.4	15:00	0	96.9
11/10/2015	0.4	0.3	0.5	8:00	0.4	15:00	0	96.9
12/10/2015	0.2	-0.1	0.5	6:00	0.4	9:00	0	95.8
13/10/2015	0.4	0.3	0.6	8:00	0.6	15:00	0	96.9
14/10/2015	0.4	0.3	0.6	10:00	0.5	15:00	0	96.9
15/10/2015	0.4	0.2	0.6	14:00	0.6	19:00	0	96.9
16/10/2015	0.3	0.2	0.5	21:00	0.4	0:00	0	96.9
17/10/2015	0.3	0.3	0.4	3:00	0.3	4:00	0	96.2
18/10/2015	0.4	0.3	0.5	14:00	0.5	15:00	0	96.9
19/10/2015	0.4	0.2	0.6	14:00	0.5	16:00	0	96.9
20/10/2015	0.4	0.3	0.5	9:00	0.5	15:00	0	96.9
21/10/2015	0.4	0.3	0.5	9:00	0.5	13:00	0	96.9
22/10/2015	0.3	0.2	0.4	8:00	0.3	9:00	0	95.8
23/10/2015	0.3	0.2	0.5	10:00	0.4	10:00	0	96.2
24/10/2015	0.3	0.2	0.4	21:00	0.3	23:00	0	96.9
25/10/2015	0.3	0.2	0.4	14:00	0.3	0:00	0	96.9
26/10/2015	0.3	0.2	0.4	8:00	0.4	9:00	0	95.8
27/10/2015	0.3	0.2	0.4	6:00	0.4	8:00	0	96.2
28/10/2015	0.3	0.2	0.3	6:00	0.3	12:00	0	96.2
29/10/2015	0.3	0.2	0.4	10:00	0.3	15:00	0	96.9
30/10/2015	0.3	0.2	0.4	20:00	0.3	22:00	0	90.6
31/10/2015	0.2	0.0	0.5	05:00	0.4	08:00	0	96.2

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

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

¹ Loss of data due to instrument fault

Table 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM_{2.5} Summary October 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		
1/10/2015	8.9	1.2	16.8	05:00	0	100.0
2/10/2015	7.8	0.3	24.1	21:00	0	83.3
3/10/2015	9.5	2.1	21.0	7:00	0	83.3
4/10/2015	10.1	2.2	19.3	2:00	0	95.8
5/10/2015	9.0	0.5	17.9	18:00	0	100.0
¹ 6/10/2015	-	-	-	-	0	65.2
7/10/2015	10.0	2.3	20.4	23:00	0	95.7
8/10/2015	13.6	5.0	19.8	10:00	0	95.8
9/10/2015	9.0	1.5	16.0	22:00	0	100.0
10/10/2015	5.4	1.2	10.9	7:00	0	91.7
11/10/2015	6.0	0.0	13.8	6:00	0	100.0
12/10/2015	4.0	-1.0	8.4	18:00	0	91.3
13/10/2015	4.2	-0.5	8.0	17:00	0	87.5
14/10/2015	6.1	1.0	14.1	9:00	0	95.8
15/10/2015	5.0	1.4	16.0	16:00	0	87.5
16/10/2015	7.0	1.2	12.0	5:00	0	95.8
17/10/2015	4.6	-0.7	9.8	0:00	0	100.0
18/10/2015	6.4	1.1	11.1	23:00	0	82.6
19/10/2015	5.9	0.1	12.9	2:00	0	78.3
20/10/2015	7.0	3.1	14.4	2:00	0	100.0
21/10/2015	6.7	-0.9	17.1	9:00	0	79.2
22/10/2015	6.7	0.0	14.4	18:00	0	91.7
¹ 23/10/2015	-	-	-	-	0	70.8
¹ 24/10/2015	-	-	-	-	0	34.8
25/10/2015	4.4	-0.7	7.8	22:00	0	100.0
26/10/2015	7.0	1.1	17.9	15:00	0	95.8
27/10/2015	7.3	1.5	11.9	6:00	0	91.7
28/10/2015	4.4	1.2	7.8	16:00	0	100.0
29/10/2015	4.7	1.0	8.0	10:00	0	87.5
30/10/2015	5.4	1.4	15.0	20:00	0	83.3
31/10/2015	6.0	2.0	10.8	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

¹ Loss of data due to instrument fault

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary October 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		
1/10/2015	13.6	9.5	22.1	06:00	0	100.0
2/10/2015	15.9	7.4	30.0	20:00	0	100.0
3/10/2015	18.2	12.7	23.1	5:00	0	100.0
4/10/2015	16.3	7.6	27.9	18:00	0	100.0
5/10/2015	15.4	8.3	25.8	12:00	0	100.0
6/10/2015	17.1	7.0	35.2	6:00	0	100.0
7/10/2015	20.4	10.2	32.8	23:00	0	100.0
8/10/2015	33.6	5.8	63.6	9:00	0	100.0
9/10/2015	21.9	10.7	29.1	7:00	0	100.0
10/10/2015	12.4	9.1	15.1	12:00	0	100.0
11/10/2015	12.9	9.8	22.3	22:00	0	100.0
12/10/2015	13.1	8.2	20.7	15:00	0	100.0
13/10/2015	16.2	8.9	24.5	12:00	0	100.0
14/10/2015	12.3	4.5	24.8	8:00	0	100.0
15/10/2015	11.0	6.4	18.7	18:00	0	100.0
16/10/2015	15.0	7.7	19.6	14:00	0	100.0
17/10/2015	13.9	9.4	19.4	16:00	0	100.0
18/10/2015	11.4	8.1	16.1	5:00	0	100.0
19/10/2015	12.1	7.0	19.7	7:00	0	100.0
20/10/2015	14.3	9.1	20.5	8:00	0	100.0
21/10/2015	14.8	10.6	21.6	6:00	0	100.0
22/10/2015	18.5	8.0	36.7	16:00	0	100.0
23/10/2015	14.7	4.4	23.8	19:00	0	100.0
24/10/2015	15.1	11.4	18.5	7:00	0	100.0
25/10/2015	11.5	8.1	17.5	7:00	0	100.0
26/10/2015	14.1	6.9	20.8	12:00	0	100.0
27/10/2015	12.0	3.1	26.4	17:00	0	100.0
¹ 28/10/2015	-	-	-	-	0	54.2
¹ 29/10/2015	-	-	-	-	0	0.0
¹ 30/10/2015	-	-	-	-	0	0.0
¹ 31/10/2015	-	-	-	-	0	34.8

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

¹ Loss of data due to instrument fault

Table 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary October 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.008	0.1	5.1	16.0
Min 1hr Average	0.001	-0.1	-1.0	2.3
Max 1hr Average	0.031	0.4	19.0	64.8
Max 8hr Rolling Average	N/A	0.3	N/A	N/A
Max 24hr Average	N/A	N/A	13.4	35.8
Capture Rate (%)	94.9	94.9	93.8	92.7

Table 9 Station 2 Monthly Summary

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

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary October 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		
1/10/2015	0.010	0.003	0.021	23:00	0	97.2
2/10/2015	0.015	0.004	0.028	22:00	0	97.2
3/10/2015	0.010	0.003	0.022	0:00	0	97.2
4/10/2015	0.007	0.003	0.017	0:00	0	97.2
5/10/2015	0.008	0.003	0.015	23:00	0	97.2
6/10/2015	0.012	0.003	0.019	6:00	0	96.9
7/10/2015	0.010	0.003	0.027	5:00	0	97.2
8/10/2015	0.007	0.003	0.019	6:00	0	97.2
9/10/2015	0.006	0.002	0.012	7:00	0	97.2
10/10/2015	0.007	0.002	0.021	23:00	0	97.2
11/10/2015	0.007	0.001	0.021	0:00	0	97.2
12/10/2015	0.005	0.002	0.014	6:00	0	97.2
13/10/2015	0.005	0.003	0.012	6:00	0	96.9
14/10/2015	0.009	0.003	0.020	6:00	0	97.2
15/10/2015	0.007	0.003	0.017	6:00	0	97.2
16/10/2015	0.009	0.003	0.019	21:00	0	97.2
17/10/2015	0.008	0.002	0.019	0:00	0	97.2
18/10/2015	0.006	0.002	0.015	4:00	0	97.2
19/10/2015	0.009	0.002	0.019	5:00	0	97.2
20/10/2015	0.009	0.003	0.024	4:00	0	97.2
21/10/2015	0.007	0.002	0.020	6:00	0	97.2
22/10/2015	0.009	0.003	0.031	19:00	0	97.2
23/10/2015	0.008	0.004	0.018	0:00	0	97.2
24/10/2015	0.006	0.003	0.014	4:00	0	97.2
25/10/2015	0.005	0.002	0.009	23:00	0	97.2
26/10/2015	0.004	0.002	0.010	5:00	0	97.2
27/10/2015	0.005	0.003	0.008	6:00	0	97.2
28/10/2015	0.007	0.004	0.012	6:00	0	97.2
¹ 29/10/2015	-	-	-	-	0	71.5
30/10/2015	0.007	0.003	0.014	20:00	0	97.2
31/10/2015	0.008	0.001	0.020	0:00	0	97.2

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

¹ Loss of data due to scheduled maintenance

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary October 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		
1/10/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	96.5
2/10/2015	0.2	0.1	0.4	22:00	0.3	6:00	0	96.5
3/10/2015	0.2	0.1	0.3	22:00	0.3	4:00	0	96.5
4/10/2015	0.1	0.1	0.3	0:00	0.2	3:00	0	96.5
5/10/2015	0.1	0.1	0.2	0:00	0.2	3:00	0	96.5
6/10/2015	0.2	0.1	0.3	6:00	0.2	7:00	0	96.5
7/10/2015	0.2	0.1	0.4	7:00	0.3	7:00	0	96.9
8/10/2015	0.2	0.1	0.2	6:00	0.2	0:00	0	96.9
9/10/2015	0.1	0.1	0.2	7:00	0.1	0:00	0	96.9
10/10/2015	0.1	0.1	0.3	23:00	0.1	23:00	0	96.9
11/10/2015	0.1	0.1	0.3	0:00	0.2	6:00	0	96.9
12/10/2015	0.1	0.0	0.2	6:00	0.1	6:00	0	96.9
13/10/2015	0.1	0.1	0.2	6:00	0.1	23:00	0	96.5
14/10/2015	0.1	0.1	0.2	7:00	0.2	8:00	0	96.9
15/10/2015	0.1	0.1	0.2	6:00	0.2	7:00	0	96.9
16/10/2015	0.1	0.1	0.2	6:00	0.2	7:00	0	96.9
17/10/2015	0.1	0.1	0.2	0:00	0.2	6:00	0	96.9
18/10/2015	0.1	0.1	0.2	4:00	0.2	5:00	0	96.9
19/10/2015	0.1	0.1	0.2	7:00	0.2	8:00	0	96.9
20/10/2015	0.1	0.1	0.3	6:00	0.2	7:00	0	96.9
21/10/2015	0.1	0.1	0.3	6:00	0.2	6:00	0	96.9
22/10/2015	0.2	0.1	0.4	19:00	0.3	23:00	0	96.9
23/10/2015	0.1	0.0	0.3	0:00	0.3	0:00	0	96.9
24/10/2015	0.1	0.1	0.2	21:00	0.1	23:00	0	96.9
25/10/2015	0.1	0.1	0.1	8:00	0.1	4:00	0	96.9
26/10/2015	0.1	0.0	0.2	14:00	0.1	19:00	0	96.9
27/10/2015	0.1	0.1	0.2	15:00	0.2	18:00	0	96.9
28/10/2015	0.1	0.0	0.1	6:00	0.1	0:00	0	96.9
¹ 29/10/2015	-	-	-	-	-	-	0	71.2
30/10/2015	0.0	-0.1	0.2	6:00	0.1	1:00	0	96.9
31/10/2015	0.1	0.0	0.3	2:00	0.2	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

¹ Loss of data due to scheduled maintenance

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary October 2015						
Date	24 hr Avg (µg/m ³)	Min (µg/m ³)	1 hr Avgs		No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
			Max (µg/m ³)	Time of Max		
1/10/2015	5.1	2.0	9.8	07:00	0	100.0
2/10/2015	6.2	-0.8	14.5	6:00	0	100.0
3/10/2015	8.1	3.1	11.9	3:00	0	100.0
4/10/2015	5.9	2.4	11.7	20:00	0	100.0
5/10/2015	7.1	2.4	19.0	14:00	0	87.5
6/10/2015	6.4	2.3	13.8	7:00	0	100.0
7/10/2015	7.6	2.0	16.0	6:00	0	95.8
8/10/2015	13.4	1.0	18.7	18:00	0	100.0
9/10/2015	7.6	1.1	10.8	22:00	0	100.0
10/10/2015	4.1	1.0	8.8	7:00	0	100.0
11/10/2015	3.4	-0.8	10.8	23:00	0	100.0
12/10/2015	2.6	0.1	8.7	0:00	0	100.0
13/10/2015	4.5	1.1	8.8	0:00	0	100.0
14/10/2015	5.4	2.3	7.8	19:00	0	100.0
15/10/2015	5.4	1.1	9.8	2:00	0	100.0
16/10/2015	5.6	3.2	11.6	7:00	0	100.0
17/10/2015	4.3	0.1	8.0	5:00	0	100.0
18/10/2015	2.3	-1.0	4.9	7:00	0	100.0
19/10/2015	3.4	0.0	7.0	7:00	0	100.0
20/10/2015	3.2	-1.0	9.8	6:00	0	95.8
21/10/2015	4.1	-0.6	13.5	7:00	0	100.0
22/10/2015	3.8	1.2	8.8	20:00	0	100.0
23/10/2015	6.3	1.0	15.7	6:00	0	100.0
24/10/2015	3.8	1.2	6.7	21:00	0	100.0
25/10/2015	2.6	-0.5	5.8	11:00	0	100.0
¹ 26/10/2015	-	-	-	-	0	54.2
27/10/2015	3.2	-0.9	12.6	20:00	0	95.7
28/10/2015	3.8	-1.0	15.9	21:00	0	95.8
² 29/10/2015	-	-	-	-	0	37.5
² 30/10/2015	-	-	-	-	0	52.2
31/10/2015	5.9	2.0	12.4	8:00	0	100.0

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

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

¹ Loss of data due to instrument fault

² Loss of data due to scheduled maintenance

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary October 2015						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max	24hr Avg > 50.0 µg/m ³	
1/10/2015	11.4	6.4	16.9	07:00	0	100.0
2/10/2015	16.4	9.3	24.3	8:00	0	100.0
3/10/2015	18.0	13.0	27.6	8:00	0	100.0
4/10/2015	16.6	12.1	22.9	13:00	0	100.0
5/10/2015	14.9	9.6	24.5	11:00	0	100.0
6/10/2015	16.7	9.3	29.5	7:00	0	100.0
7/10/2015	21.4	9.0	37.8	23:00	0	95.8
8/10/2015	35.8	2.3	64.8	15:00	0	95.8
9/10/2015	24.5	6.0	30.4	8:00	0	95.8
10/10/2015	14.5	6.0	20.8	7:00	0	100.0
11/10/2015	13.1	6.3	21.3	23:00	0	95.8
12/10/2015	12.1	6.2	19.3	15:00	0	100.0
13/10/2015	14.8	8.4	26.0	15:00	0	100.0
14/10/2015	13.5	7.8	21.5	5:00	0	95.8
15/10/2015	11.5	5.3	19.7	23:00	0	100.0
16/10/2015	16.3	9.1	22.9	7:00	0	100.0
17/10/2015	15.0	9.7	24.5	9:00	0	100.0
18/10/2015	12.2	6.3	19.3	9:00	0	100.0
19/10/2015	14.9	9.0	23.7	16:00	0	100.0
20/10/2015	17.2	4.3	27.4	8:00	0	100.0
21/10/2015	16.2	9.5	23.5	14:00	0	95.8
22/10/2015	16.5	8.0	33.4	15:00	0	100.0
23/10/2015	17.3	11.6	26.5	17:00	0	100.0
24/10/2015	17.0	11.5	24.5	0:00	0	100.0
25/10/2015	14.2	9.1	21.9	8:00	0	100.0
26/10/2015	16.3	9.5	27.0	12:00	0	100.0
27/10/2015	13.4	6.2	26.3	20:00	0	100.0
28/10/2015	9.4	4.0	20.8	11:00	0	100.0
² 29/10/2015	-	-	-	-	0	70.8
² 30/10/2015	-	-	-	-	0	29.2
² 31/10/2015	-	-	-	-	0	0

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

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

¹ Loss of data due to instrument fault

² Loss of data due to scheduled maintenance

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary October 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.009	0.3	4.2	13.4
Min 1hr Average	0.002	0.1	-1.0	0.9
Max 1hr Average	0.031	0.6	23.9	68.1
Max 8hr Rolling Average	N/A	0.5	N/A	N/A
Max 24hr Average	N/A	N/A	11.7	30.4
Capture Rate (%)	95.6	95.6	93.1	93.3

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 October 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		
1/10/2015	0.012	0.006	0.020	22:00	0	97.2
2/10/2015	0.017	0.008	0.025	18:00	0	97.2
3/10/2015	0.013	0.004	0.025	0:00	0	97.2
4/10/2015	0.008	0.003	0.016	0:00	0	97.2
5/10/2015	0.010	0.004	0.018	23:00	0	97.2
6/10/2015	0.014	0.005	0.023	18:00	0	97.2
7/10/2015	0.011	0.004	0.022	8:00	0	97.2
8/10/2015	0.006	0.004	0.013	7:00	0	97.2
9/10/2015	0.008	0.003	0.017	21:00	0	97.2
10/10/2015	0.008	0.004	0.018	23:00	0	97.2
11/10/2015	0.008	0.002	0.019	0:00	0	97.2
12/10/2015	0.006	0.003	0.015	6:00	0	97.2
13/10/2015	0.006	0.004	0.012	6:00	0	97.2
14/10/2015	0.010	0.004	0.017	8:00	0	97.2
15/10/2015	0.009	0.006	0.014	5:00	0	97.2
16/10/2015	0.012	0.006	0.022	21:00	0	97.2
17/10/2015	0.009	0.003	0.020	0:00	0	97.2
18/10/2015	0.007	0.003	0.013	5:00	0	97.2
19/10/2015	0.010	0.005	0.016	23:00	0	97.2
20/10/2015	0.010	0.004	0.020	5:00	0	97.2
21/10/2015	0.008	0.003	0.021	6:00	0	97.2
22/10/2015	0.010	0.003	0.031	19:00	0	97.2
23/10/2015	0.009	0.005	0.017	0:00	0	97.2
24/10/2015	0.008	0.004	0.016	6:00	0	97.2
25/10/2015	0.006	0.003	0.013	7:00	0	97.2
26/10/2015	0.006	0.003	0.014	3:00	0	97.2
27/10/2015	0.006	0.003	0.010	14:00	0	97.2
28/10/2015	0.008	0.004	0.012	6:00	0	97.22
29/10/2015	0.008	0.005	0.013	19:00	0	97.22
30/10/2015	0.011	0.006	0.024	20:00	0	90.63
31/10/2015	0.010	0.003	0.020	2:00	0	97.22

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

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary October 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	
1/10/2015	0.4	0.3	0.5	23:00	0.4	00:00	0	96.9
2/10/2015	0.4	0.2	0.5	23:00	0.4	3:00	0	96.9
3/10/2015	0.4	0.3	0.6	23:00	0.5	3:00	0	96.9
4/10/2015	0.3	0.2	0.5	0:00	0.5	2:00	0	96.9
5/10/2015	0.3	0.3	0.4	2:00	0.4	3:00	0	96.9
6/10/2015	0.4	0.3	0.6	22:00	0.5	23:00	0	96.9
7/10/2015	0.4	0.3	0.5	7:00	0.5	1:00	0	96.9
8/10/2015	0.3	0.3	0.3	7:00	0.4	0:00	0	96.9
9/10/2015	0.3	0.2	0.3	7:00	0.3	0:00	0	96.9
10/10/2015	0.2	0.2	0.4	23:00	0.3	02:00	0	96.9
11/10/2015	0.3	0.2	0.5	0:00	0.4	6:00	0	96.9
12/10/2015	0.3	0.3	0.5	6:00	0.3	6:00	0	96.9
13/10/2015	0.3	0.3	0.4	6:00	0.3	0:00	0	96.9
14/10/2015	0.3	0.3	0.4	8:00	0.4	8:00	0	96.9
15/10/2015	0.3	0.2	0.4	6:00	0.3	7:00	0	96.9
16/10/2015	0.3	0.3	0.4	5:00	0.4	7:00	0	96.9
17/10/2015	0.3	0.2	0.4	2:00	0.4	3:00	0	96.9
18/10/2015	0.3	0.3	0.4	2:00	0.4	6:00	0	96.9
19/10/2015	0.3	0.2	0.3	7:00	0.3	8:00	0	96.9
20/10/2015	0.3	0.3	0.4	23:00	0.3	7:00	0	96.9
21/10/2015	0.3	0.3	0.5	6:00	0.4	7:00	0	96.9
22/10/2015	0.4	0.3	0.6	18:00	0.5	23:00	0	96.9
23/10/2015	0.3	0.2	0.5	0:00	0.5	0:00	0	96.9
24/10/2015	0.3	0.2	0.3	21:00	0.3	23:00	0	96.9
25/10/2015	0.3	0.2	0.3	3:00	0.3	3:00	0	96.9
26/10/2015	0.3	0.2	0.3	6:00	0.3	7:00	0	96.9
27/10/2015	0.3	0.3	0.4	6:00	0.3	18:00	0	96.9
28/10/2015	0.3	0.3	0.3	6:00	0.3	21:00	0	96.9
29/10/2015	0.3	0.2	0.3	7:00	0.3	0:00	0	96.9
30/10/2015	0.2	0.1	0.3	6:00	0.3	8:00	0	90.2
31/10/2015	0.2	0.1	0.3	2:00	0.3	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 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary
Station 3 Lewis St Ambient AQMS Particulate PM_{2.5} Summary October 2015

Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	Min ($\mu\text{g}/\text{m}^3$)	1 hr Averages		No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
			Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/10/2015	4.7	1.4	8.9	8:00	0	100.0
2/10/2015	6.3	2.0	23.9	18:00	0	100.0
3/10/2015	6.2	2.1	16.1	5:00	0	100.0
4/10/2015	5.1	2.0	9.6	8:00	0	100.0
5/10/2015	6.9	1.3	10.9	14:00	0	100.0
6/10/2015	5.6	0.3	15.5	7:00	0	100.0
7/10/2015	6.7	3.1	12.1	23:00	0	100.0
8/10/2015	11.7	0.0	17.6	8:00	0	100.0
9/10/2015	5.8	1.4	9.7	12:00	0	100.0
10/10/2015	2.6	0.3	4.9	22:00	0	100.0
11/10/2015	2.8	0.1	8.5	23:00	0	100.0
12/10/2015	3.3	-0.7	12.9	0:00	0	100.0
13/10/2015	4.3	0.1	6.0	11:00	0	100.0
14/10/2015	3.6	-0.8	9.9	9:00	0	100.0
15/10/2015	2.2	-0.8	6.8	15:00	0	95.8
16/10/2015	3.6	1.0	5.9	1:00	0	100.0
17/10/2015	3.4	1.1	6.0	19:00	0	100.0
18/10/2015	4.2	0.0	10.5	2:00	0	100.0
19/10/2015	3.0	-0.6	5.0	18:00	0	100.0
20/10/2015	3.4	0.9	7.7	9:00	0	100.0
21/10/2015	3.3	-0.7	10.8	6:00	0	100.0
22/10/2015	4.1	0.1	7.9	21:00	0	100.0
23/10/2015	6.6	1.0	15.7	6:00	0	100.0
¹ 24/10/2015	-	-	-	-	0	70.8
¹ 25/10/2015	-	-	-	-	0	0.0
¹ 26/10/2015	-	-	-	-	0	52.2
27/10/2015	2.9	-1.0	5.9	20:00	0	87.5
28/10/2015	1.6	-0.9	4.0	13:00	0	100.0
29/10/2015	1.4	-0.9	4.8	15:00	0	100.0
30/10/2015	2.3	-0.1	5.5	3:00	0	91.7
31/10/2015	1.6	-0.8	5.7	7:00	0	95.8

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

¹ Loss of data due to intermittent instrument fault

Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary October 2015						
Date	24 hr Avg (µg/m ³)	Min (µg/m ³)	1 hr Averages		No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
			Max (µg/m ³)	Time of Max		
1/10/2015	10.7	4.9	35.4	6:00	0	95.8
¹ 2/10/2015	-	-	-	-	0	70.8
3/10/2015	15.3	6.4	26.7	11:00	0	100.0
4/10/2015	17.3	4.6	46.3	17:00	0	79.2
5/10/2015	14.4	8.1	32.1	18:00	0	75.0
6/10/2015	16.3	5.9	43.1	6:00	0	83.3
7/10/2015	18.3	5.6	42.0	6:00	0	91.7
8/10/2015	30.4	7.7	68.1	8:00	0	100.0
9/10/2015	18.3	7.6	27.6	7:00	0	100.0
10/10/2015	10.9	5.5	16.8	12:00	0	100.0
11/10/2015	10.7	5.1	19.5	22:00	0	95.8
12/10/2015	12.6	5.4	28.4	15:00	0	100.0
13/10/2015	13.8	5.1	23.4	17:00	0	95.8
14/10/2015	11.4	5.7	22.7	8:00	0	87.5
15/10/2015	11.8	3.8	21.8	6:00	0	91.7
16/10/2015	13.5	4.7	31.7	6:00	0	100.0
17/10/2015	11.7	6.9	22.8	16:00	0	91.7
18/10/2015	11.0	5.6	18.3	6:00	0	100.0
19/10/2015	11.2	6.3	20.8	7:00	0	100.0
20/10/2015	11.3	5.0	17.9	12:00	0	100.0
21/10/2015	12.0	5.1	20.6	5:00	0	95.8
22/10/2015	14.5	0.9	30.5	11:00	0	100.0
23/10/2015	13.8	4.6	26.4	6:00	0	83.3
24/10/2015	13.4	8.6	17.2	15:00	0	100.0
25/10/2015	9.2	6.6	14.6	8:00	0	100.0
26/10/2015	11.1	5.4	27.4	11:00	0	95.8
27/10/2015	11.1	2.4	29.4	17:00	0	83.3
28/10/2015	7.2	1.9	18.1	10:00	0	91.7
29/10/2015	9.9	5.0	19.5	13:00	0	91.7
30/10/2015	13.4	8.3	32.4	23:00	0	91.7
31/10/2015	12.4	8.7	21.1	6:00	0	100.0

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

¹ Loss of data due to instrument fault

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary October 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.011	0.3	4.4	12.9
Min 1hr Average	0.003	0.2	-1.0	2.3
Max 1hr Average	0.030	0.6	22.4	34.7
Max 8hr Rolling Average	N/A	0.5	N/A	N/A
Max 24hr Average	N/A	N/A	12.1	25.0
Capture Rate (%)	95.6	95.6	90.2	99.6

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 October 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		
1/10/2015	0.013	0.008	0.024	21:00	0	97.2
2/10/2015	0.018	0.010	0.029	21:00	0	97.2
3/10/2015	0.012	0.006	0.023	21:00	0	97.2
4/10/2015	0.009	0.003	0.018	21:00	0	97.2
5/10/2015	0.011	0.006	0.023	22:00	0	97.2
6/10/2015	0.015	0.009	0.022	0:00	0	97.2
7/10/2015	0.012	0.005	0.028	7:00	0	97.2
8/10/2015	0.011	0.004	0.018	17:00	0	97.2
9/10/2015	0.012	0.003	0.020	19:00	0	97.2
10/10/2015	0.011	0.006	0.024	22:00	0	97.2
11/10/2015	0.008	0.003	0.020	0:00	0	97.2
12/10/2015	0.006	0.003	0.013	5:00	0	97.2
13/10/2015	0.008	0.003	0.011	17:00	0	97.2
14/10/2015	0.011	0.006	0.019	4:00	0	97.2
15/10/2015	0.011	0.007	0.016	7:00	0	97.2
16/10/2015	0.012	0.007	0.022	21:00	0	97.2
17/10/2015	0.009	0.004	0.019	0:00	0	97.2
18/10/2015	0.008	0.004	0.013	4:00	0	97.2
19/10/2015	0.011	0.006	0.017	7:00	0	97.2
20/10/2015	0.011	0.005	0.019	23:00	0	97.2
21/10/2015	0.009	0.005	0.016	0:00	0	97.2
22/10/2015	0.011	0.003	0.030	19:00	0	97.2
23/10/2015	0.012	0.006	0.018	14:00	0	97.2
24/10/2015	0.009	0.006	0.013	4:00	0	97.2
25/10/2015	0.007	0.004	0.010	21:00	0	97.2
26/10/2015	0.006	0.003	0.012	7:00	0	97.2
27/10/2015	0.008	0.003	0.022	16:00	0	97.2
28/10/2015	0.013	0.005	0.028	14:00	0	97.2
29/10/2015	0.013	0.004	0.022	16:00	0	97.2
30/10/2015	0.010	0.006	0.017	20:00	0	97.2
31/10/2015	0.011	0.003	0.020	2:00	0	92.0

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 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary October 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	
1/10/2015	0.3	0.3	0.4	07:00	0.4	8:00	0	96.9
2/10/2015	0.3	0.3	0.5	22:00	0.4	23:00	0	96.9
3/10/2015	0.3	0.2	0.5	22:00	0.4	1:00	0	96.9
4/10/2015	0.3	0.2	0.4	0:00	0.4	2:00	0	96.9
5/10/2015	0.4	0.3	0.5	23:00	0.4	23:00	0	96.9
6/10/2015	0.3	0.3	0.4	6:00	0.4	1:00	0	96.9
7/10/2015	0.4	0.3	0.5	7:00	0.4	11:00	0	96.9
8/10/2015	0.3	0.3	0.4	17:00	0.4	17:00	0	96.9
9/10/2015	0.3	0.2	0.5	19:00	0.4	21:00	0	96.9
10/10/2015	0.3	0.3	0.5	23:00	0.3	0:00	0	96.9
11/10/2015	0.3	0.2	0.4	0:00	0.4	02:00	0	96.9
12/10/2015	0.3	0.2	0.4	6:00	0.3	8:00	0	96.9
13/10/2015	0.3	0.2	0.3	6:00	0.3	0:00	0	96.9
14/10/2015	0.3	0.3	0.5	8:00	0.4	8:00	0	96.9
15/10/2015	0.3	0.3	0.4	19:00	0.3	22:00	0	96.9
16/10/2015	0.3	0.3	0.4	7:00	0.3	9:00	0	96.9
17/10/2015	0.3	0.2	0.4	2:00	0.4	3:00	0	96.9
18/10/2015	0.3	0.2	0.3	18:00	0.3	23:00	0	96.9
19/10/2015	0.2	0.2	0.3	8:00	0.3	1:00	0	96.9
20/10/2015	0.3	0.3	0.4	7:00	0.3	9:00	0	96.9
21/10/2015	0.3	0.2	0.4	6:00	0.4	7:00	0	96.9
22/10/2015	0.4	0.3	0.6	19:00	0.4	23:00	0	96.9
23/10/2015	0.4	0.4	0.5	15:00	0.5	19:00	0	96.9
24/10/2015	0.3	0.2	0.3	9:00	0.4	0:00	0	96.9
25/10/2015	0.3	0.2	0.3	2:00	0.3	8:00	0	96.9
26/10/2015	0.2	0.2	0.3	7:00	0.3	1:00	0	96.9
27/10/2015	0.3	0.2	0.4	18:00	0.3	21:00	0	96.9
28/10/2015	0.4	0.3	0.6	14:00	0.5	18:00	0	96.9
29/10/2015	0.3	0.2	0.4	16:00	0.4	0:00	0	96.9
30/10/2015	0.3	0.2	0.3	21:00	0.3	0:00	0	96.9
31/10/2015	0.3	0.2	0.4	2:00	0.4	6:00	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 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM_{2.5} Summary October 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		
1/10/2015	4.6	-0.9	12.7	9:00	0	91.7
2/10/2015	5.2	-0.7	10.9	14:00	0	100.0
3/10/2015	7.3	3.0	13.8	3:00	0	100.0
4/10/2015	5.3	0.0	9.9	10:00	0	95.8
5/10/2015	7.2	-1.0	15.5	0:00	0	91.7
6/10/2015	6.8	0.1	22.4	7:00	0	100.0
7/10/2015	6.8	-0.1	18.0	8:00	0	95.8
8/10/2015	12.1	0.3	20.9	15:00	0	100.0
9/10/2015	9.5	0.3	17.7	15:00	0	100.0
10/10/2015	4.2	1.0	9.9	14:00	0	95.8
11/10/2015	4.7	-0.5	17.0	9:00	0	87.5
¹ 12/10/2015	-	-	-	-	0	62.5
13/10/2015	2.2	-1.0	6.0	17:00	0	95.8
14/10/2015	2.7	-1.0	7.7	10:00	0	83.3
15/10/2015	2.1	-1.0	4.7	11:00	0	91.7
16/10/2015	2.2	-0.8	16.4	8:00	0	87.5
¹ 17/10/2015	-	-	-	-	0	69.6
18/10/2015	2.9	-1.0	5.9	20:00	0	87.5
19/10/2015	4.9	-0.8	18.2	10:00	0	100.0
20/10/2015	5.0	0.2	11.9	9:00	0	100.0
21/10/2015	2.6	-1.0	6.7	5:00	0	100.0
22/10/2015	3.6	-1.0	8.5	21:00	0	95.8
23/10/2015	4.3	-0.6	9.5	8:00	0	100.0
24/10/2015	4.7	1.0	10.0	16:00	0	95.8
25/10/2015	2.8	-1.0	7.8	8:00	0	83.3
26/10/2015	0.8	-1.0	4.6	10:00	0	78.3
27/10/2015	3.0	-1.0	10.7	17:00	0	87.5
28/10/2015	1.7	-0.9	6.6	11:00	0	87.5
29/10/2015	3.1	-1.0	6.9	10:00	0	79.2
30/10/2015	2.0	-0.9	6.8	21:00	0	95.8
¹ 31/10/2015	-	-	-	-	0	62.5

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

¹ Loss of data due to intermittent instrument fault

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary October 2015

Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max	24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	
1/10/2015	11.3	6.9	15.9	8:00	0	100.0
2/10/2015	13.9	8.3	23.6	18:00	0	100.0
3/10/2015	16.3	12.9	19.6	7:00	0	100.0
4/10/2015	14.1	6.8	25.6	18:00	0	100.0
5/10/2015	13.6	5.6	19.9	12:00	0	100.0
6/10/2015	15.2	9.6	32.6	6:00	0	100.0
7/10/2015	16.8	7.4	24.6	7:00	0	100.0
8/10/2015	25.0	5.2	34.7	8:00	0	100.0
9/10/2015	18.2	9.2	25.1	7:00	0	100.0
10/10/2015	11.8	8.7	14.4	1:00	0	100.0
11/10/2015	11.2	8.8	16.9	21:00	0	100.0
12/10/2015	10.9	7.0	15.3	16:00	0	100.0
13/10/2015	13.1	7.9	17.8	17:00	0	100.0
14/10/2015	11.4	6.1	19.3	8:00	0	95.8
15/10/2015	10.9	6.6	17.5	18:00	0	100.0
16/10/2015	13.9	9.3	18.2	19:00	0	100.0
17/10/2015	12.3	8.2	16.9	6:00	0	100.0
18/10/2015	9.9	7.5	13.9	7:00	0	100.0
19/10/2015	11.5	7.6	16.7	7:00	0	100.0
20/10/2015	13.1	8.1	19.4	7:00	0	100.0
21/10/2015	12.1	8.4	18.7	6:00	0	100.0
22/10/2015	13.6	6.9	22.2	16:00	0	100.0
23/10/2015	12.8	7.6	17.2	22:00	0	100.0
24/10/2015	13.3	11.1	15.9	4:00	0	100.0
25/10/2015	10.6	8.1	15.1	8:00	0	100.0
26/10/2015	11.2	8.2	16.1	11:00	0	100.0
27/10/2015	10.2	2.3	23.6	17:00	0	100.0
28/10/2015	8.3	3.3	16.1	10:00	0	100.0
29/10/2015	11.2	5.9	18.1	13:00	0	100.0
30/10/2015	11.2	8.9	14.0	6:00	0	100.0
31/10/2015	10.4	6.1	16.2	6:00	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 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Bryden Street)

Summary

Station 5 Bryden St Ambient AQMS Summary October 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.009	0.2	12.1	21.4
Min 1hr Average	0.001	0.0	-0.3	2.2
Max 1hr Average	0.035	0.6	30.8	80.5
Max 8hr Rolling Average	N/A	0.4	N/A	N/A
Max 24hr Average	N/A	N/A	19.0	38.0
Capture Rate (%)	95.4	95.7	99.2	99.9

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 October 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		
1/10/2015	0.012	0.006	0.024	23:00	0	97.2
2/10/2015	0.017	0.006	0.031	21:00	0	97.2
3/10/2015	0.011	0.003	0.021	5:00	0	97.2
4/10/2015	0.009	0.002	0.020	23:00	0	97.2
5/10/2015	0.010	0.003	0.021	8:00	0	97.2
6/10/2015	0.015	0.006	0.035	8:00	0	97.2
7/10/2015	0.013	0.004	0.031	7:00	0	97.2
8/10/2015	0.007	0.002	0.017	6:00	0	97.2
9/10/2015	0.007	0.002	0.014	23:00	0	97.2
10/10/2015	0.008	0.002	0.020	23:00	0	97.2
11/10/2015	0.006	0.001	0.016	0:00	0	97.2
12/10/2015	0.005	0.002	0.018	6:00	0	97.2
13/10/2015	0.007	0.002	0.014	23:00	0	96.5
14/10/2015	0.009	0.003	0.019	7:00	0	97.2
15/10/2015	0.008	0.003	0.020	5:00	0	97.2
16/10/2015	0.008	0.003	0.019	3:00	0	96.2
17/10/2015	0.008	0.001	0.020	2:00	0	97.2
18/10/2015	0.006	0.001	0.016	4:00	0	97.2
19/10/2015	0.008	0.003	0.018	7:00	0	97.2
20/10/2015	0.010	0.002	0.023	23:00	0	97.2
21/10/2015	0.009	0.003	0.022	4:00	0	96.2
22/10/2015	0.011	0.003	0.027	18:00	0	83.3
23/10/2015	0.009	0.005	0.018	0:00	0	88.9
24/10/2015	0.006	0.003	0.013	15:00	0	92.7
25/10/2015	0.004	0.001	0.010	2:00	0	94.8
26/10/2015	0.004	0.001	0.012	5:00	0	95.5
27/10/2015	0.006	0.002	0.015	16:00	0	95.1
28/10/2015	0.008	0.003	0.014	6:00	0	95.5
29/10/2015	0.008	0.003	0.013	6:00	0	94.1
30/10/2015	0.009	0.003	0.022	21:00	0	93.8
31/10/2015	0.010	0.001	0.023	23:00	0	77.8

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 October 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	
1/10/2015	0.3	0.1	0.5	23:00	0.3	23:00	0	95.8
2/10/2015	0.3	0.1	0.6	21:00	0.4	2:00	0	96.2
3/10/2015	0.3	0.1	0.5	22:00	0.4	2:00	0	96.2
4/10/2015	0.3	0.2	0.5	23:00	0.4	2:00	0	96.5
5/10/2015	0.3	0.1	0.4	23:00	0.4	2:00	0	96.2
6/10/2015	0.3	0.1	0.5	23:00	0.4	23:00	0	96.5
7/10/2015	0.3	0.2	0.5	7:00	0.4	2:00	0	96.2
8/10/2015	0.2	0.2	0.3	6:00	0.3	0:00	0	96.9
9/10/2015	0.2	0.1	0.2	6:00	0.2	0:00	0	96.9
10/10/2015	0.1	0.0	0.3	23:00	0.2	1:00	0	96.9
11/10/2015	0.2	0.1	0.3	23:00	0.3	6:00	0	96.5
12/10/2015	0.3	0.2	0.5	6:00	0.3	6:00	0	96.2
13/10/2015	0.2	0.2	0.4	6:00	0.3	8:00	0	96.9
14/10/2015	0.2	0.1	0.3	7:00	0.3	8:00	0	96.9
15/10/2015	0.2	0.1	0.3	6:00	0.3	6:00	0	96.9
16/10/2015	0.2	0.1	0.3	6:00	0.3	7:00	0	96.9
17/10/2015	0.2	0.1	0.3	0:00	0.3	6:00	0	96.9
18/10/2015	0.2	0.1	0.3	4:00	0.3	5:00	0	96.2
19/10/2015	0.2	0.1	0.3	6:00	0.3	8:00	0	96.9
20/10/2015	0.2	0.1	0.3	23:00	0.2	7:00	0	96.9
21/10/2015	0.2	0.1	0.4	6:00	0.3	6:00	0	96.9
22/10/2015	0.3	0.2	0.5	18:00	0.4	23:00	0	96.9
23/10/2015	0.2	0.1	0.3	0:00	0.4	0:00	0	96.9
24/10/2015	0.2	0.2	0.2	22:00	0.2	23:00	0	96.9
25/10/2015	0.2	0.2	0.2	2:00	0.2	5:00	0	96.9
26/10/2015	0.2	0.2	0.3	5:00	0.2	7:00	0	96.9
27/10/2015	0.2	0.2	0.3	6:00	0.3	8:00	0	96.9
28/10/2015	0.2	0.2	0.3	6:00	0.2	20:00	0	96.9
29/10/2015	0.2	0.1	0.2	6:00	0.2	0:00	0	96.9
30/10/2015	0.2	0.1	0.4	23:00	0.2	23:00	0	96.9
31/10/2015	0.3	0.1	0.5	23:00	0.4	6:00	0	92.0

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 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Bryden St Ambient AQMS Particulate PM2.5 Summary October 2015						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max	24hr Avg > 25.0 µg/m ³	
1/10/2015	13.0	9.2	21.1	18:00	0	95.8
2/10/2015	14.4	7.2	26.0	19:00	0	100.0
3/10/2015	15.3	4.3	26.8	18:00	0	100.0
4/10/2015	13.9	7.2	26.3	18:00	0	100.0
5/10/2015	15.2	9.3	30.8	18:00	0	100.0
6/10/2015	13.2	2.3	23.1	18:00	0	100.0
7/10/2015	15.1	3.4	26.8	18:00	0	100.0
8/10/2015	19.0	5.5	25.7	18:00	0	100.0
9/10/2015	13.5	6.1	27.7	16:00	0	100.0
10/10/2015	11.5	6.3	23.3	17:00	0	100.0
11/10/2015	10.8	2.0	25.3	17:00	0	100.0
12/10/2015	11.1	0.9	29.5	16:00	0	95.8
13/10/2015	12.3	7.3	18.2	17:00	0	100.0
14/10/2015	11.1	4.3	21.0	18:00	0	100.0
15/10/2015	10.5	6.0	24.1	18:00	0	100.0
16/10/2015	11.5	4.6	25.8	18:00	0	100.0
17/10/2015	13.1	-0.2	26.8	18:00	0	95.8
18/10/2015	11.5	4.7	28.8	18:00	0	100.0
19/10/2015	10.5	1.5	24.3	18:00	0	100.0
20/10/2015	10.4	6.3	23.0	17:00	0	95.8
21/10/2015	12.4	6.1	25.0	18:00	0	100.0
22/10/2015	12.5	6.2	23.3	16:00	0	100.0
23/10/2015	13.3	-0.3	24.5	18:00	0	100.0
24/10/2015	10.9	5.3	20.1	16:00	0	100.0
25/10/2015	10.2	0.3	19.9	12:00	0	100.0
26/10/2015	9.5	6.0	25.0	16:00	0	95.8
27/10/2015	11.1	2.2	23.8	17:00	0	100.0
28/10/2015	10.3	4.3	15.6	22:00	0	100.0
29/10/2015	8.9	6.0	12.7	20:00	0	100.0
30/10/2015	10.4	7.0	22.0	14:00	0	100.0
31/10/2015	9.7	2.3	18.3	6:00	0	95.8

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

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary October 2015						
Date	24 hr Avg (µg/m ³)	1 hr Averages			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/10/2015	18.7	3.2	30.1	17:00	0	100.0
2/10/2015	19.5	10.2	38.0	18:00	0	100.0
3/10/2015	21.5	14.9	28.6	4:00	0	100.0
4/10/2015	20.7	13.4	30.0	7:00	0	100.0
5/10/2015	18.2	11.6	30.3	1:00	0	100.0
6/10/2015	22.1	8.0	45.1	15:00	0	100.0
7/10/2015	28.1	14.6	41.3	9:00	0	100.0
8/10/2015	38.0	3.5	58.1	11:00	0	100.0
9/10/2015	31.0	15.6	72.9	18:00	0	100.0
10/10/2015	24.3	12.6	48.9	13:00	0	100.0
11/10/2015	23.3	8.2	59.9	20:00	0	100.0
12/10/2015	24.2	11.6	56.8	15:00	0	100.0
13/10/2015	25.3	7.0	52.7	16:00	0	100.0
14/10/2015	17.5	10.2	35.6	14:00	0	100.0
15/10/2015	17.5	10.6	25.1	15:00	0	100.0
16/10/2015	22.4	13.5	29.8	19:00	0	100.0
17/10/2015	20.7	13.4	32.8	0:00	0	100.0
18/10/2015	14.4	8.0	20.7	16:00	0	100.0
19/10/2015	19.4	11.8	27.6	22:00	0	100.0
20/10/2015	19.8	12.1	30.7	18:00	0	100.0
21/10/2015	29.7	10.5	68.1	15:00	0	100.0
22/10/2015	24.2	6.0	80.5	15:00	0	100.0
23/10/2015	19.4	8.0	40.9	17:00	0	100.0
24/10/2015	22.2	12.5	30.6	13:00	0	100.0
25/10/2015	19.6	7.9	30.3	19:00	0	100.0
26/10/2015	24.3	5.5	54.7	14:00	0	100.0
27/10/2015	13.3	2.2	32.9	18:00	0	100.0
28/10/2015	14.6	3.5	74.5	6:00	0	100.0
29/10/2015	16.3	6.1	29.0	18:00	0	100.0
30/10/2015	17.5	9.7	26.6	14:00	0	100.0
31/10/2015	15.4	9.2	35.7	11:00	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 28 Station 5 PM₁₀ Monthly Summary

Graphical Representations

Nitrogen Dioxide

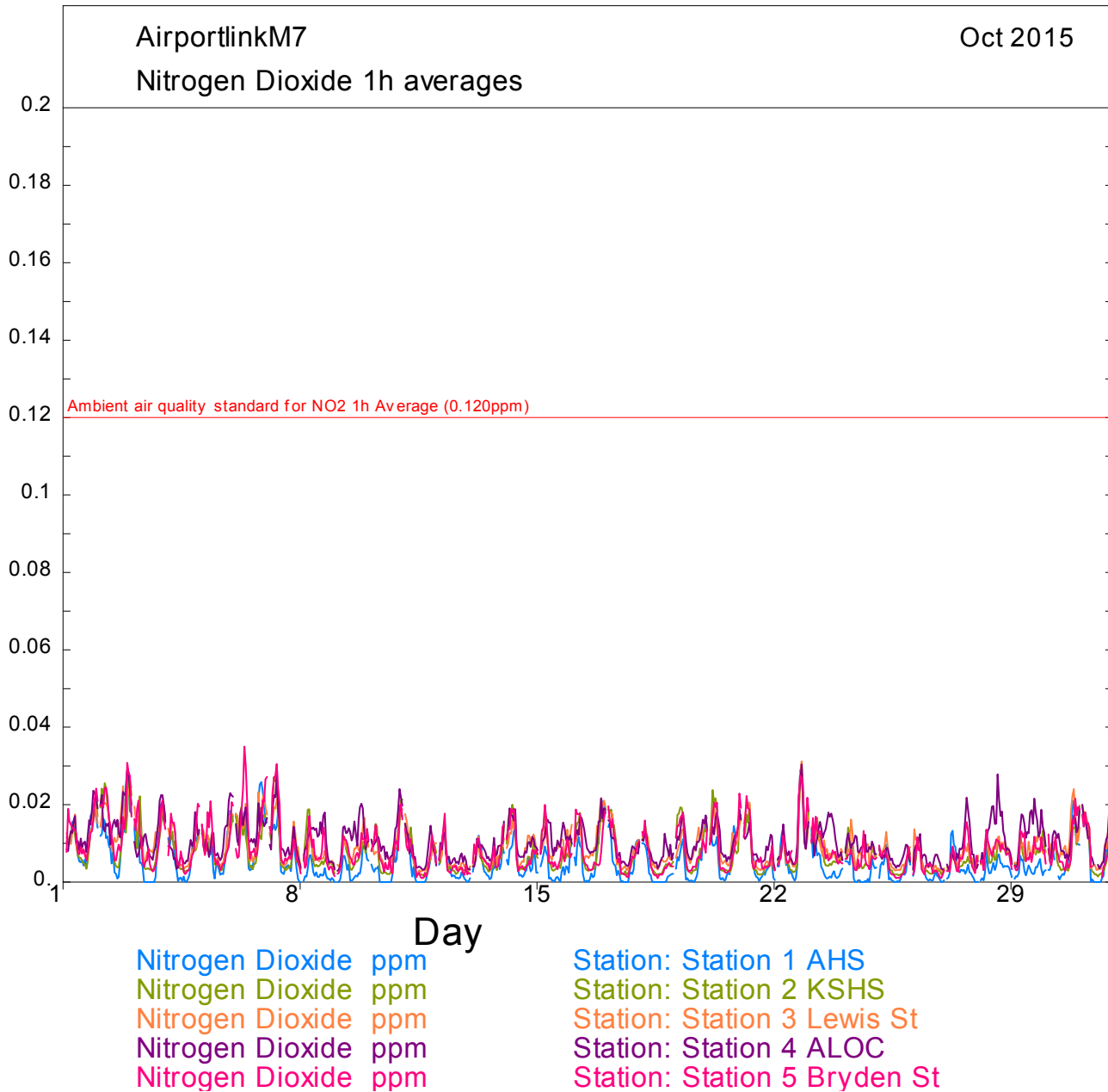


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

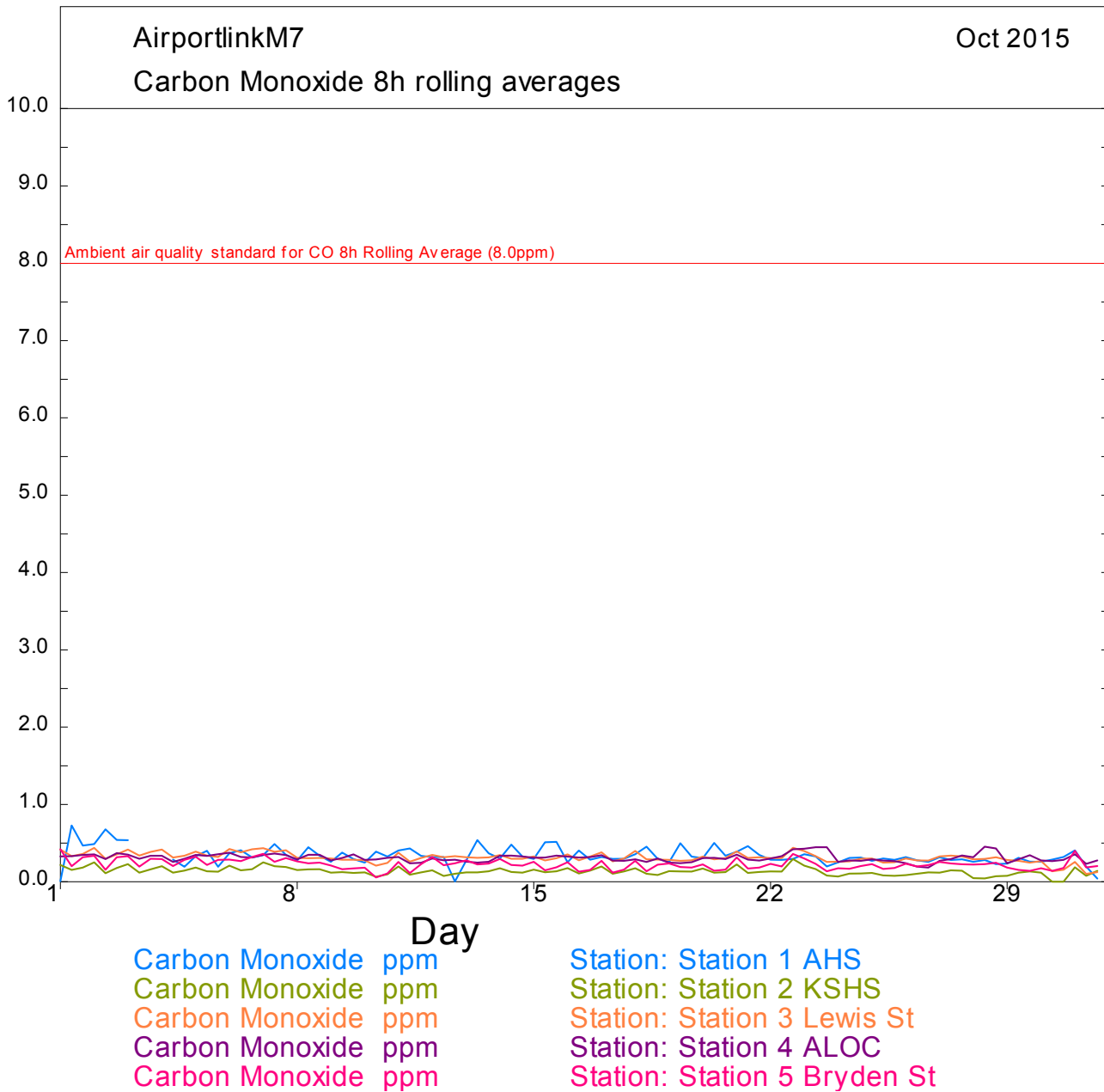


Figure 2 Carbon Monoxide 8hr rolling averages

PM₁₀ 24hr Averages

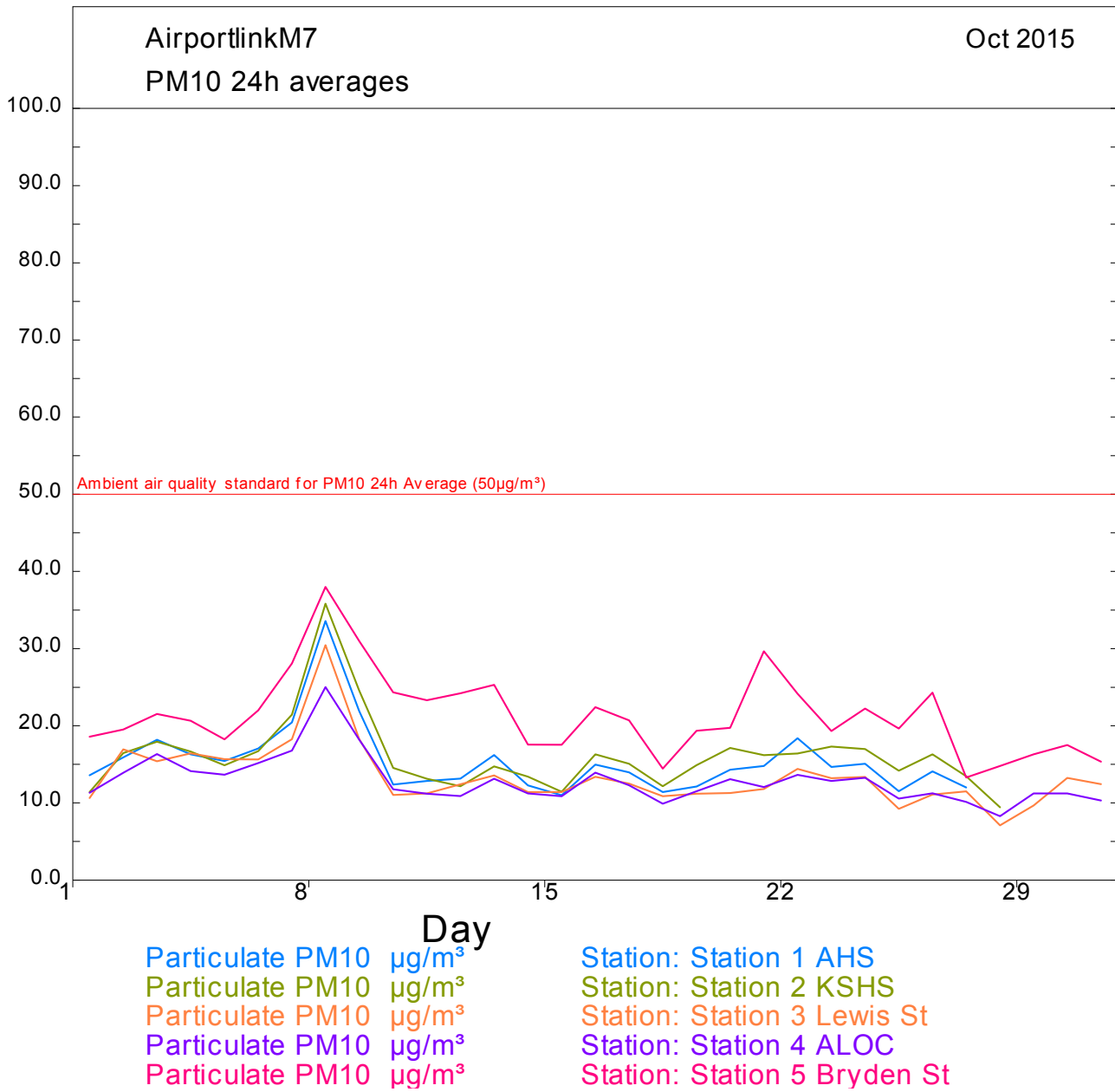


Figure 3 PM₁₀ 24hr Averages

PM_{2.5} 24hr Averages

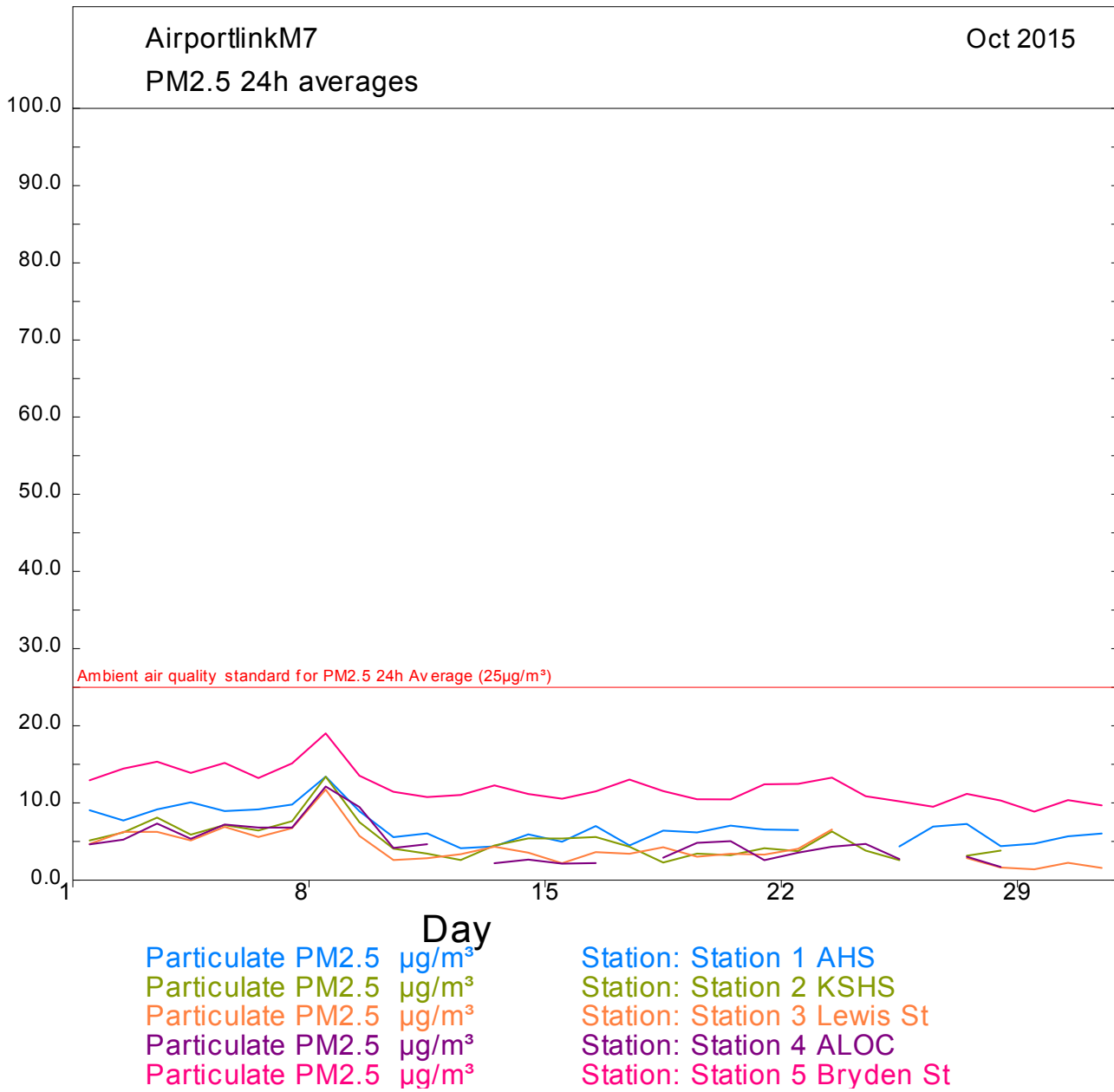


Figure 4 PM_{2.5} 24hr Averages

TSP High Volume Air Sampler Results

Total Suspended Particulate High Volume Air Sampler results are presented in Table 29 below. The HVAS are run on a one in six day cycle.

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

TSP Results October 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 ($\mu\text{g}/\text{m}^3$)
3/10/2015	29	27	29	31	29
9/10/2015	39	36	39	44	38
15/10/2015	22	22	22	28	22
21/10/2015	32	30	25	28	51
27/10/2015	21	21	19	21	20
Monthly Average	28.6	27.2	26.8	30.4	32.0

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					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/10/2015 00:35:00	31/10/2015 23:45:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/11/2015	CP
3/10/2015 00:35:00	4/10/2015 11:05:00	CO	Instrument fault	10/11/2015	CP
4/10/2015 12:00:00	31/10/2015 09:35:00	CO	Intermittent automatic reference adjustments	10/11/2015	CP
10/10/2015 17:55:00	27/10/2015 11:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/11/2015	CP
30/10/2015 07:05:00	30/10/2015 08:15:00	All parameters	Scheduled maintenance	10/11/2015	CP
28/10/2015 13:05:00	31/10/2015 15:35:00	PM ₁₀	Instrument fault	10/11/2015	CP
30/10/2015 08:20:00	31/10/2015 23:55:00	NO, NO ₂ , NO _x	Data adjusted. Multiplier A 0.8958785, B 0.89587852	10/11/2015	CP

Table 30 Station 1 Aviation High School AQMS Data Validation Table

Station 2 Kedron State High School

Station 2 Kedron State High School Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/10/2015 00:20:00	30/10/2015 06:05:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	10/11/2015	CP
5/10/2015 19:55:00	29/10/2015 04:50:00	PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	10/11/2015	CP
29/10/2015 10:25:00	29/10/2015 16:30:00	All parameters	Scheduled maintenance	10/11/2015	CP
29/10/2015 16:35:00	30/10/2015 12:00:00	PM _{2.5}	Instrument fault	10/11/2015	CP
30/10/2015 07:05:00	31/10/2015 23:55:00	PM ₁₀	Instrument fault	10/11/2015	CP

Table 31 Station 2 Kedron High School AQMS Data Validation Table

Station 3 Lewis Street

Station 3 Lewis Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/10/2015 01:05:00	31/10/2015 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/11/2015	CP
1/10/2015 06:50:00	31/10/2015 23:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/11/2015	CP
24/10/2015 16:55:00	26/10/2015 11:50:00	PM _{2.5}	Instrument fault	10/11/2015	CP
30/10/2015 07:55:00	30/10/2015 09:25:00	All parameters	Scheduled maintenance	10/11/2015	CP

Table 32 Station 3 Lewis St AQMS Data Validation Table

Station 4 Airport Link Operation Centre

Station 4 Airport Link Operation Centre Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/10/2015 00:05:00	31/10/2015 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/11/2015	CP
1/10/2015 13:55:00	31/10/2015 20:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/11/2015	CP
31/10/2015 11:40:00	31/10/2015 12:50:00	All parameters	Scheduled maintenance	10/11/2015	CP

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

Station 5 Bryden St

Station 5 Bryden Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/10/2015 01:05:00	31/10/2015 11:25:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	10/11/2015	CP
1/10/2015 13:55:00	26/10/2015 17:50:00	PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	10/11/2015	CP
21/10/2015 20:00:00	31/10/2015 22:55:00	NO, NO ₂ , NO _x	Intermittent instrument fault	10/11/2015	CP
31/10/2015 09:55:00	31/10/2015 11:00:00	All parameters	Scheduled maintenance	10/11/2015	CP

Table 34 Station 5 Bryden St AQMS Data Validation Table