



# Ventia Pty Ltd

## AirportlinkM7 Ambient Air Quality Monitoring Report

June 2016

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

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

**NORDITECH**<sup>1</sup>  
ENVIRONMENTAL MONITORING TECHNOLOGIES

## Document Control

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Prepared by



Chris Priser  
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Approved by



Bruno Nourdine  
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## Glossary

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

AQMS – Air Quality Monitoring Station

EPA – Environment Protection Authority

NO – Nitric Oxide

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

CS – Cartwright St

## Executive Summary

### Exceedance Reporting

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

AirportlinkM7 AQMS Exceedance Reporting June 2016							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences June 2016				
			Station 1 (AHS)	Station 2 (KSHS)	Station 3 (LS)	Station 4 (ALOC)	Station 5 (BS)
Carbon Monoxide	8 hour (rolling average)	8 ppm	0	0	0	0	0
Nitrogen dioxide	1 hour	0.120 ppm	0	0	0	0	0
	1 year	63 µg/m <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 Exceedance Reporting

Maximum allowed concentration criteria are as specified in Condition 19(k) of the Conditions of Approval.

## Introduction

Norditech Pty Ltd was appointed by Ventia Pty Limited in February 2015 to operate, maintain and report on the AirportlinkM7 Air Quality Monitoring Network.

The AirportlinkM7 Air Quality Monitoring Network consists of five sites located in close proximity to key locations of the Airportlink project, and is a requirement of the Conditions of Approval issued by the Coordinator General.

The addresses of the two parties are as follows

AirportlinkM7  
PO Box 412  
Lutwyche QLD 4030

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

## Monitoring

### Site Locations

AirportlinkM7 Site Location Coordinates		
	Latitude	Longitude
Station 1 (Aviation High School)	-27° 24' 46.5084"	153° 3' 48.0744"
Station 2 (Kedron State High School)	-27° 24' 47.5344"	153° 2' 17.8476"
Station 3 (Lewis Street)	-27° 24' 39.5532"	153° 3' 18.18"
Station 4 (Airportlink Operation Centre)	-27° 24' 43.2252"	153° 1' 58.3104"
Station 5 (Cartwright Street)	-27° 26' 22.5852"	153° 2' 5.784"

Table 2 Site Location Coordinates

### Station Instrumentation Details

Each station continuously monitors the following pollutants:

- NO (Nitrogen Oxide)
- 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

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



Instrumentation Details								
Parameter	Units	Uncertainty	Method	Last Calibration Date				
				Station 1	Station 2	Station 3	Station 4	Station 5
NO NO <sub>2</sub> NO <sub>x</sub>	ppm	2.78%	AS 3580.5.1	21/06/2016	22/06/2016	21/06/2016	22/06/2016	22/06/2016
CO	ppm	2.56%	AS 3580.7.1	21/06/2016	22/06/2016	21/06/2016	22/06/2016	22/06/2016
PM <sub>10</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11	23/05/2016*	23/05/2016	22/05/2016*	22/05/2016*	23/05/2016
PM <sub>2.5</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11 / EQPM 0308- 170	23/05/2016	23/05/2016	22/05/2016	22/05/2016	23/05/2016
TSP	µg/m <sup>3</sup>	7.34%	AS 3580.9.3	24/05/2016	23/05/2016	23/05/2016	23/05/2016	24/05/2016

Table 3 Instrumentation Details

\* These sites have TEOMs installed operating under method AS 3580.9.8

## Data Logging

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

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

All data is recorded to Australian Eastern Standard Time.

Data capture rates are calculated as per the following formula:

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

where:

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

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

## Results

### Station 1 (Aviation High School)

#### Summary

Station 1 Aviation High School Ambient AQMS Summary June 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO <sub>2</sub>	ppm	0.120	1 Hour	0.037	08/06/2016 17:00	87.8
CO	ppm	8.0	8 Hours	0.8	17/06/2016 01:00	86.3
PM <sub>2.5</sub>	µg/m3	25	24 Hours	10.7	18/06/2016	83.9
PM <sub>10</sub>	µg/m3	50	24 Hours	22.1	09/06/2016	90.4

Table 4 Station 1 Monthly Summary

## Graphical Representations

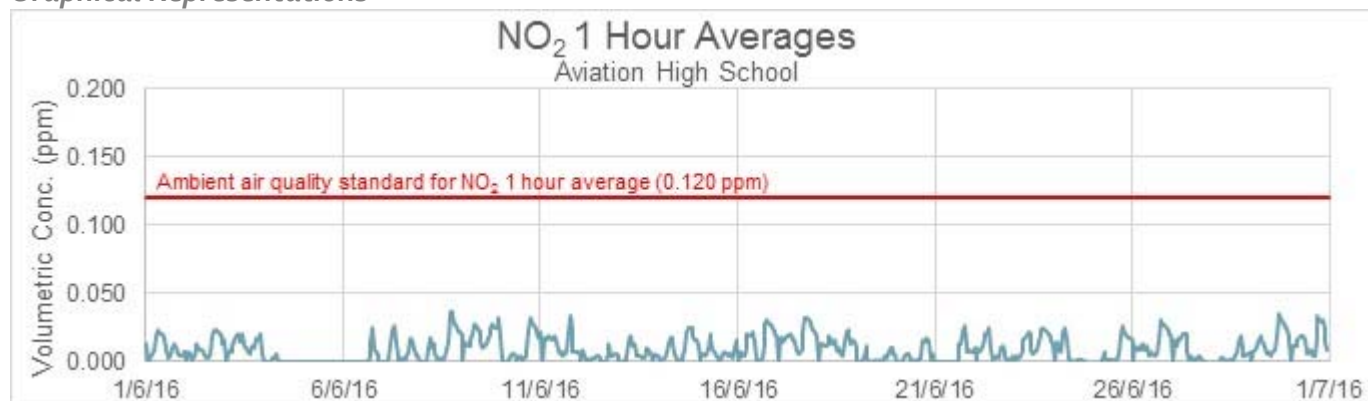


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

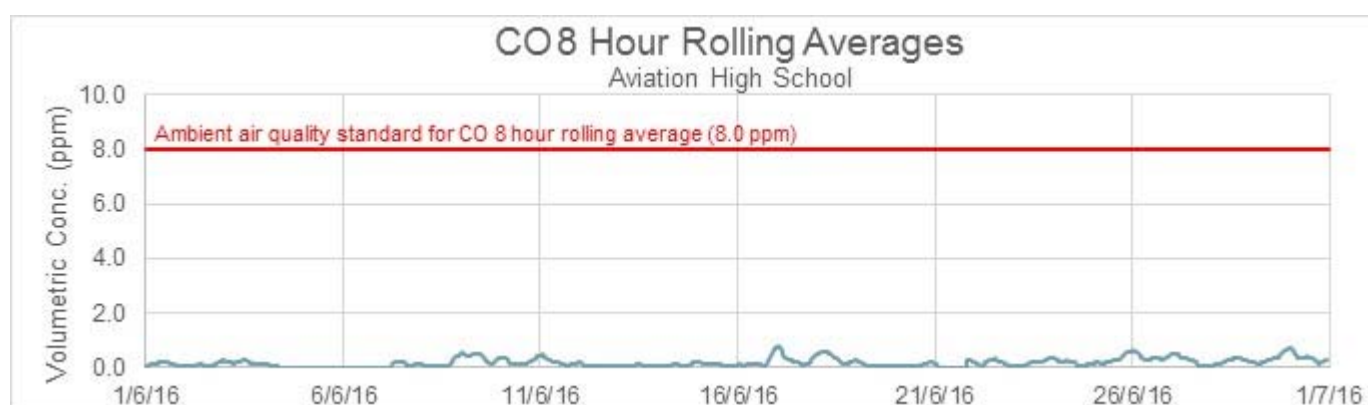


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

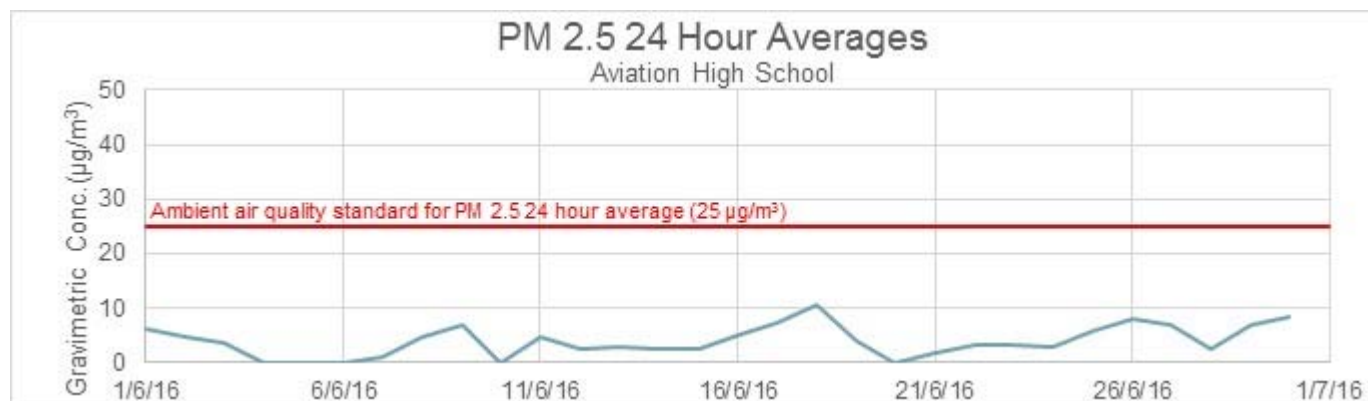


Figure 3 Station 1 PM2.5 24hr averages

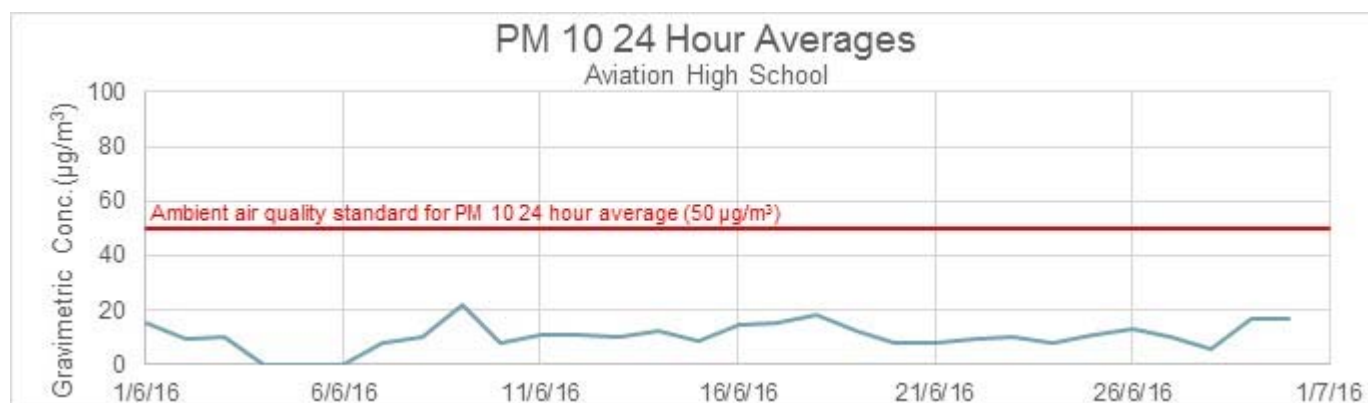


Figure 4 Station 1 PM10 24hr averages

### Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary June 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2016	0.010	0.002	0.024	07:00	0	97.2
2/06/2016	0.011	0.002	0.023	17:00	0	97.2
3/06/2016	0.013	0.005	0.020	08:00	0	97.2
<sup>1</sup> 4/06/2016	-	-0.001	0.005	07:00	0	31.6
<sup>1</sup> 5/06/2016	-	-	-	-	0	0.0
<sup>1</sup> 6/06/2016	-	0.000	0.024	18:00	0	31.9
7/06/2016	0.007	-0.001	0.026	07:00	0	97.2
8/06/2016	0.013	-0.001	0.037	17:00	0	97.2
9/06/2016	0.020	0.011	0.031	23:00	0	97.2
10/06/2016	0.010	-0.001	0.031	18:00	0	97.2
11/06/2016	0.014	0.005	0.034	18:00	0	97.2
12/06/2016	0.004	0.000	0.013	18:00	0	97.2
13/06/2016	0.006	-0.001	0.019	07:00	0	97.2
14/06/2016	0.011	0.000	0.025	18:00	0	97.2
15/06/2016	0.007	0.000	0.020	07:00	0	97.2
16/06/2016	0.014	0.000	0.030	18:00	0	97.2
17/06/2016	0.019	0.006	0.033	17:00	0	97.2
18/06/2016	0.014	0.005	0.024	19:00	0	97.2
19/06/2016	0.003	-0.001	0.011	06:00	0	97.2
20/06/2016	0.004	-0.001	0.017	19:00	0	97.2
<sup>1</sup> 21/06/2016	-	-0.001	0.027	18:00	0	42.0
22/06/2016	0.008	0.001	0.024	09:00	0	97.2
23/06/2016	0.014	0.000	0.025	18:00	0	97.2
24/06/2016	0.006	-0.002	0.024	07:00	0	97.2
25/06/2016	0.007	-0.002	0.027	18:00	0	97.2
26/06/2016	0.014	0.004	0.030	17:00	0	97.2
27/06/2016	0.008	-0.002	0.021	09:00	0	97.2
28/06/2016	0.003	-0.002	0.019	18:00	0	97.2
29/06/2016	0.016	0.004	0.035	17:00	0	97.2
30/06/2016	0.016	0.004	0.033	17:00	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

<sup>1</sup> Loss of data due to power failure

Table 5 Station 1 Nitrogen Dioxide Monthly Summary



## Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary June 2016								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2016	0.1	0.0	0.3	07:00	0.2	11:00	0	96.9
2/06/2016	0.1	0.0	0.4	21:00	0.3	23:00	0	96.9
3/06/2016	0.2	0.1	0.5	08:00	0.3	12:00	0	96.9
<sup>1</sup> 4/06/2016	-	0.0	0.1	07:00	0.1	00:00	0	31.3
<sup>1</sup> 5/06/2016	-	-	-	-	-	-	0	0.0
<sup>1</sup> 6/06/2016	-	-	-	-	-	-	0	0.0
7/06/2016	0.1	0.0	0.6	06:00	0.2	08:00	0	96.2
8/06/2016	0.2	0.0	0.7	18:00	0.5	23:00	0	96.9
9/06/2016	0.4	0.1	0.9	07:00	0.6	00:00	0	96.9
10/06/2016	0.2	0.1	0.5	19:00	0.4	23:00	0	96.9
11/06/2016	0.2	0.0	0.5	18:00	0.5	01:00	0	96.9
12/06/2016	0.1	0.0	0.1	02:00	0.2	00:00	0	96.9
13/06/2016	0.1	0.0	0.2	07:00	0.1	12:00	0	96.9
14/06/2016	0.1	0.0	0.3	19:00	0.2	23:00	0	96.9
15/06/2016	0.1	0.0	0.3	07:00	0.2	00:00	0	96.9
16/06/2016	0.3	0.0	1.1	20:00	0.7	23:00	0	96.9
17/06/2016	0.3	0.0	0.6	23:00	0.8	01:00	0	96.9
18/06/2016	0.3	0.1	0.8	00:00	0.6	03:00	0	96.9
19/06/2016	0.1	0.0	0.1	00:00	0.3	01:00	0	96.9
20/06/2016	0.1	0.0	0.3	17:00	0.2	22:00	0	96.9
<sup>1</sup> 21/06/2016	-	0.0	0.4	18:00	0.3	20:00	0	41.7
22/06/2016	0.2	0.0	0.6	07:00	0.3	13:00	0	96.9
23/06/2016	0.2	0.0	0.5	18:00	0.3	23:00	0	96.9
24/06/2016	0.2	0.0	0.5	07:00	0.3	00:00	0	96.9
25/06/2016	0.4	0.0	0.8	21:00	0.6	23:00	0	96.9
26/06/2016	0.4	0.2	0.7	21:00	0.6	00:00	0	96.9
27/06/2016	0.2	0.0	0.6	08:00	0.5	02:00	0	96.9
28/06/2016	0.3	0.0	0.4	14:00	0.3	15:00	0	96.9
29/06/2016	0.4	0.1	1.1	19:00	0.7	23:00	0	96.5
30/06/2016	0.3	0.1	0.6	09:00	0.7	01:00	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

<sup>1</sup> Loss of data due to power failure

Table 6 Station 1 Carbon Monoxide Monthly Summary

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

Station 1 Aviation High School Ambient AQMS Particulate PM2.5 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	6.1	1.1	12.7	11:00	0	100.0
2/06/2016	4.6	-0.6	9.0	02:00	0	91.7
3/06/2016	3.5	-0.7	9.5	23:00	0	87.5
<sup>1</sup> 4/06/2016	-	0.1	10.5	07:00	0	20.8
<sup>1</sup> 5/06/2016	-	-	-	-	0	0.0
<sup>1</sup> 6/06/2016	-	-0.1	5.8	20:00	0	20.8
7/06/2016	1.2	-1.0	5.9	08:00	0	100.0
8/06/2016	4.7	-1.0	17.9	19:00	0	87.5
9/06/2016	7.1	0.1	14.8	22:00	0	100.0
<sup>2</sup> 10/06/2016	-	-1.0	11.7	00:00	0	70.8
11/06/2016	4.7	0.2	13.8	19:00	0	95.8
12/06/2016	2.5	0.1	4.9	01:00	0	100.0
13/06/2016	2.9	-1.0	7.0	17:00	0	95.8
14/06/2016	2.4	-0.9	5.8	06:00	0	100.0
15/06/2016	2.5	-0.9	9.5	09:00	0	87.5
16/06/2016	5.0	0.2	15.7	21:00	0	95.8
17/06/2016	7.1	2.0	15.8	23:00	0	100.0
18/06/2016	10.7	2.0	23.3	01:00	0	100.0
19/06/2016	3.9	-1.0	16.1	14:00	0	100.0
<sup>2</sup> 20/06/2016	-	-1.0	6.9	19:00	0	58.3
21/06/2016	1.6	-0.9	5.6	09:00	0	79.2
22/06/2016	3.4	-1.0	10.5	10:00	0	95.8
23/06/2016	3.1	0.0	6.8	10:00	0	100.0
24/06/2016	3.1	-1.0	6.8	08:00	0	79.2
25/06/2016	5.7	-0.9	30.8	22:00	0	91.7
26/06/2016	7.9	3.2	20.8	21:00	0	79.2
27/06/2016	6.9	0.0	20.3	00:00	0	95.8
28/06/2016	2.4	-0.8	7.8	19:00	0	87.5
29/06/2016	7.0	-1.0	23.4	21:00	0	95.8
30/06/2016	8.4	2.3	13.8	09:00	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

<sup>1</sup> Loss of data due to power failure

<sup>2</sup> Loss of data due to instrument fault

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

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

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	15.0	6.1	37.9	11:00	0	100.0
2/06/2016	9.7	4.5	17.6	03:00	0	95.8
3/06/2016	10.3	3.7	21.8	14:00	0	95.8
<sup>1</sup> 4/06/2016	-	6.3	26.1	07:00	0	33.3
<sup>1</sup> 5/06/2016	-	-	-	-	0	0.0
<sup>1</sup> 6/06/2016	-	3.2	17.9	18:00	0	25.0
7/06/2016	7.9	2.5	19.5	06:00	0	100.0
8/06/2016	10.1	4.1	27.7	18:00	0	100.0
9/06/2016	22.1	9.7	38.1	10:00	0	100.0
10/06/2016	8.3	4.0	16.6	19:00	0	95.8
11/06/2016	10.9	5.6	21.6	18:00	0	100.0
12/06/2016	11.2	5.6	24.9	13:00	0	100.0
13/06/2016	10.5	6.4	17.2	17:00	0	100.0
14/06/2016	12.2	4.7	18.7	18:00	0	100.0
15/06/2016	8.9	5.3	14.1	07:00	0	100.0
16/06/2016	14.6	5.2	31.3	19:00	0	100.0
17/06/2016	15.7	8.6	21.5	21:00	0	100.0
18/06/2016	18.0	9.0	36.2	00:00	0	100.0
19/06/2016	12.1	2.9	23.5	15:00	0	95.8
20/06/2016	7.8	1.7	25.6	17:00	0	87.5
21/06/2016	7.8	1.1	22.1	18:00	0	83.3
22/06/2016	9.2	4.0	24.3	09:00	0	100.0
23/06/2016	10.0	3.2	16.8	18:00	0	100.0
24/06/2016	7.8	1.8	21.5	21:00	0	100.0
25/06/2016	10.8	4.2	29.9	21:00	0	100.0
26/06/2016	13.1	5.7	26.9	21:00	0	100.0
27/06/2016	9.8	2.0	20.8	08:00	0	100.0
28/06/2016	5.8	1.1	11.7	18:00	0	100.0
29/06/2016	16.7	6.0	38.4	19:00	0	100.0
30/06/2016	16.8	10.5	24.2	17:00	0	100.0

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

<sup>1</sup> Loss of data due to power failure

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



## Station 2 (Kedron State High School)

### Summary

Station 2 Kedron State High School Ambient AQMS Summary June 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO <sub>2</sub>	ppm	0.120	1 Hour	0.032	08/06/2016 18:00	93.7
CO	ppm	8.0	8 Hours	0.6	17/06/2016 01:00	96.4
PM <sub>2.5</sub>	µg/m <sup>3</sup>	25	24 Hours	10.1	18/06/2016	99.7
PM <sub>10</sub>	µg/m <sup>3</sup>	50	24 Hours	16.2	01/06/2016	99.7

Table 9 Station 2 Monthly Summary



## Graphical Representations

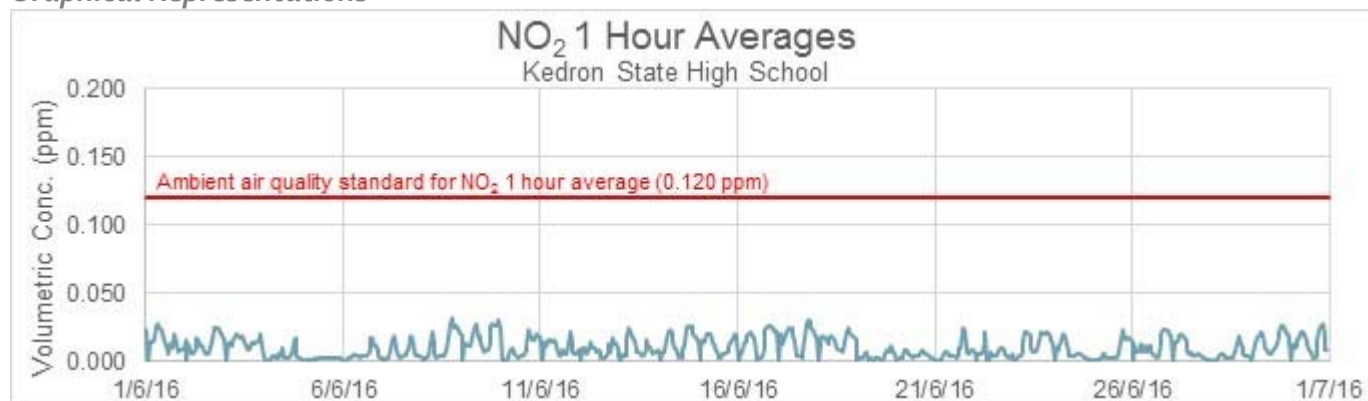


Figure 5 Station 2 Dioxide 1hr averages

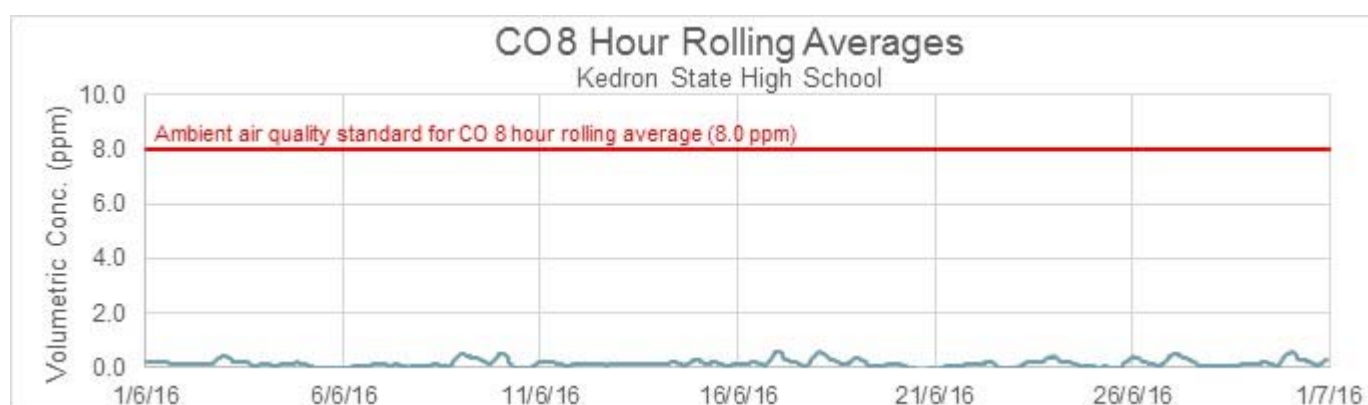


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

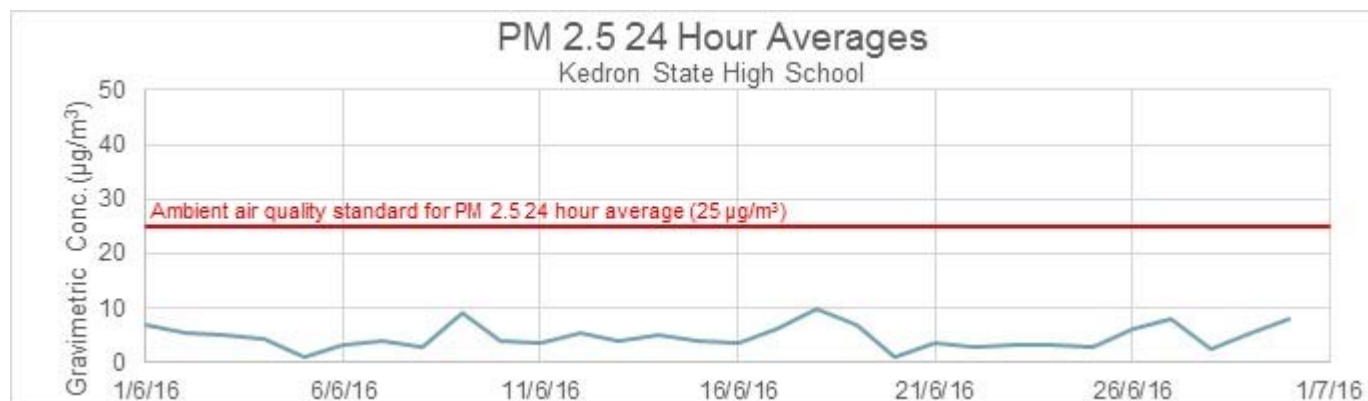


Figure 7 Station 2 PM2.5 24hr averages

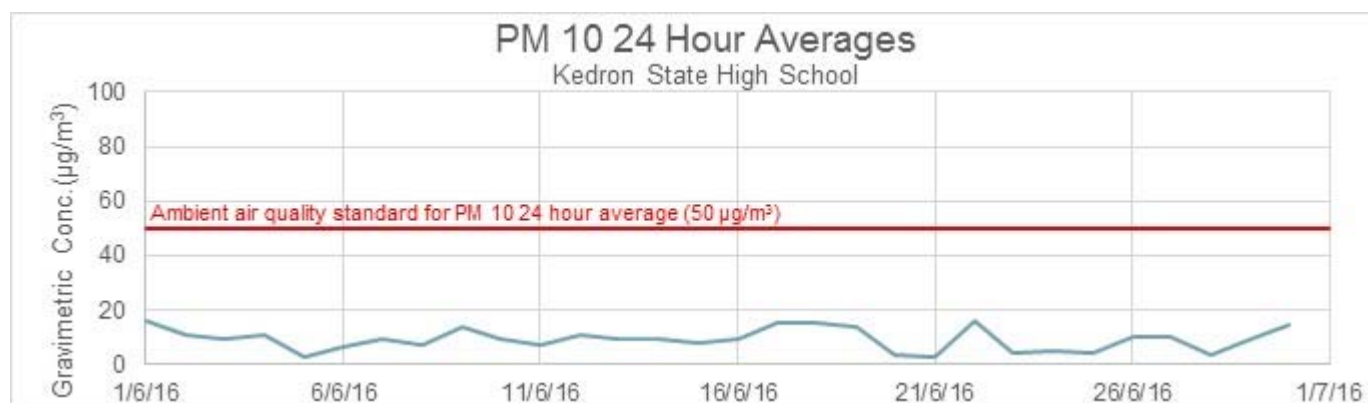


Figure 8 Station 2 PM10 24hr averages

### Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary June 2016						
Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/06/2016	0.015	0.005	0.027	07:00	0	94.4
2/06/2016	0.014	0.005	0.025	20:00	0	92.0
3/06/2016	0.015	0.009	0.020	07:00	0	96.2
4/06/2016	0.005	0.001	0.017	19:00	0	92.0
5/06/2016	0.002	0.001	0.003	16:00	0	93.1
6/06/2016	0.006	0.002	0.017	18:00	0	92.7
7/06/2016	0.007	0.002	0.019	07:00	0	95.5
8/06/2016	0.013	0.002	0.032	18:00	0	94.4
9/06/2016	0.018	0.008	0.031	23:00	0	92.4
10/06/2016	0.010	0.001	0.025	00:00	0	90.6
11/06/2016	0.011	0.004	0.021	18:00	0	93.4
12/06/2016	0.009	0.002	0.018	20:00	0	94.8
13/06/2016	0.010	0.004	0.024	06:00	0	92.4
14/06/2016	0.015	0.002	0.026	18:00	0	94.1
15/06/2016	0.012	0.003	0.021	05:00	0	94.4
16/06/2016	0.015	0.002	0.026	20:00	0	93.4
17/06/2016	0.018	0.003	0.030	19:00	0	93.4
18/06/2016	0.016	0.008	0.025	19:00	0	93.8
19/06/2016	0.005	0.001	0.016	00:00	0	94.8
20/06/2016	0.005	0.002	0.009	06:00	0	95.1
21/06/2016	0.007	0.001	0.025	17:00	0	94.1
22/06/2016	0.007	0.003	0.021	07:00	0	89.2
23/06/2016	0.014	0.002	0.023	17:00	0	95.1
24/06/2016	0.007	0.001	0.020	06:00	0	95.5
25/06/2016	0.008	0.001	0.023	18:00	0	93.4
26/06/2016	0.012	0.003	0.024	20:00	0	93.1
27/06/2016	0.010	0.001	0.020	06:00	0	95.5
28/06/2016	0.005	0.001	0.019	17:00	0	93.1
29/06/2016	0.015	0.003	0.027	20:00	0	94.8
30/06/2016	0.014	0.002	0.028	20:00	0	93.4

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

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

## Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary June 2016								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2016	0.2	0.1	0.4	07:00	0.2	11:00	0	96.5
2/06/2016	0.2	0.1	0.6	20:00	0.4	23:00	0	96.5
3/06/2016	0.2	0.0	0.4	08:00	0.4	00:00	0	96.5
4/06/2016	0.1	0.0	0.3	19:00	0.2	19:00	0	96.5
5/06/2016	0.0	0.0	0.1	00:00	0.2	00:00	0	96.5
6/06/2016	0.1	0.0	0.2	17:00	0.2	23:00	0	96.5
7/06/2016	0.1	0.0	0.4	07:00	0.2	00:00	0	96.5
8/06/2016	0.2	0.0	0.6	22:00	0.5	23:00	0	96.5
9/06/2016	0.3	0.1	0.8	22:00	0.5	01:00	0	96.5
10/06/2016	0.1	-0.1	0.4	22:00	0.5	01:00	0	96.5
11/06/2016	0.1	0.0	0.3	08:00	0.2	04:00	0	96.5
12/06/2016	0.1	0.1	0.2	18:00	0.2	23:00	0	96.5
13/06/2016	0.1	0.1	0.3	06:00	0.2	00:00	0	96.5
14/06/2016	0.2	0.0	0.4	18:00	0.3	23:00	0	96.5
15/06/2016	0.1	0.0	0.3	07:00	0.3	00:00	0	96.5
16/06/2016	0.3	0.0	0.9	21:00	0.5	23:00	0	96.5
17/06/2016	0.3	0.0	0.7	20:00	0.6	01:00	0	96.5
18/06/2016	0.3	0.1	0.7	00:00	0.6	02:00	0	96.5
19/06/2016	0.1	0.1	0.4	00:00	0.4	01:00	0	96.5
20/06/2016	0.0	-0.1	0.1	00:00	0.1	00:00	0	96.5
21/06/2016	0.1	0.0	0.3	18:00	0.2	23:00	0	96.5
22/06/2016	0.1	0.0	0.5	07:00	0.2	08:00	0	91.3
23/06/2016	0.3	0.0	0.7	19:00	0.4	23:00	0	96.5
24/06/2016	0.1	0.0	0.3	06:00	0.4	01:00	0	96.5
25/06/2016	0.1	0.0	0.5	19:00	0.4	23:00	0	96.5
26/06/2016	0.2	0.0	0.6	22:00	0.4	01:00	0	96.5
27/06/2016	0.2	0.0	0.5	00:00	0.5	02:00	0	96.5
28/06/2016	0.1	0.0	0.3	17:00	0.2	22:00	0	96.5
29/06/2016	0.3	0.0	0.8	20:00	0.5	23:00	0	96.5
30/06/2016	0.2	0.1	0.5	20:00	0.6	01:00	0	96.5

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

Table 11 Station 2 Carbon Monoxide Monthly Summary



## PM<sub>2.5</sub> Summary

Station 2 KSHS Ambient AQMS Particulate PM <sub>2.5</sub> Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	7.1	2.4	13.7	10:00	0	100.0
2/06/2016	5.4	2.1	10.7	08:00	0	100.0
3/06/2016	5.2	1.6	11.8	12:00	0	100.0
4/06/2016	4.2	1.0	7.9	14:00	0	100.0
5/06/2016	1.1	0.6	2.0	23:00	0	100.0
6/06/2016	3.2	1.1	7.1	06:00	0	100.0
7/06/2016	3.9	2.0	8.6	12:00	0	100.0
8/06/2016	2.8	1.2	8.8	02:00	0	100.0
9/06/2016	9.0	4.5	14.4	20:00	0	100.0
10/06/2016	3.9	0.9	10.1	04:00	0	100.0
11/06/2016	3.7	1.6	9.7	10:00	0	100.0
12/06/2016	5.4	0.9	11.4	10:00	0	100.0
13/06/2016	3.8	2.2	9.0	10:00	0	100.0
14/06/2016	5.2	2.8	10.9	04:00	0	100.0
15/06/2016	4.0	1.4	9.1	10:00	0	100.0
16/06/2016	3.7	1.7	8.9	10:00	0	100.0
17/06/2016	6.1	2.3	13.6	08:00	0	100.0
18/06/2016	10.1	4.6	22.8	14:00	0	100.0
19/06/2016	6.8	2.6	14.1	00:00	0	100.0
20/06/2016	1.0	0.4	2.0	00:00	0	100.0
21/06/2016	3.7	0.7	13.8	04:00	0	100.0
22/06/2016	2.9	1.3	10.2	06:00	0	91.7
23/06/2016	3.1	1.3	5.9	04:00	0	100.0
24/06/2016	3.2	1.1	7.7	00:00	0	100.0
25/06/2016	2.7	1.1	8.1	08:00	0	100.0
26/06/2016	6.2	2.0	15.0	02:00	0	100.0
27/06/2016	7.9	1.7	16.6	10:00	0	100.0
28/06/2016	2.6	1.1	6.9	08:00	0	100.0
29/06/2016	5.3	1.4	11.6	12:00	0	100.0
30/06/2016	8.0	2.7	14.7	08:00	0	100.0

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

Table 12 Station 2 PM<sub>2.5</sub> Monthly Summary

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

Station 2 KSHS Ambient AQMS Particulate PM10 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	16.2	8.0	22.9	18:00	0	100.0
2/06/2016	10.6	5.6	16.7	04:00	0	100.0
3/06/2016	9.2	4.5	13.4	10:00	0	100.0
4/06/2016	11.1	2.9	19.2	10:00	0	100.0
5/06/2016	2.9	1.6	6.4	23:00	0	100.0
6/06/2016	6.8	3.3	10.1	12:00	0	100.0
7/06/2016	9.8	3.6	27.0	12:00	0	100.0
8/06/2016	7.0	2.2	14.8	22:00	0	100.0
9/06/2016	14.0	6.3	22.4	10:00	0	100.0
10/06/2016	9.1	2.0	22.5	00:00	0	100.0
11/06/2016	7.4	3.4	16.7	10:00	0	100.0
12/06/2016	10.6	4.0	16.8	10:00	0	100.0
13/06/2016	9.2	4.4	13.3	22:00	0	100.0
14/06/2016	9.7	4.2	16.0	18:00	0	100.0
15/06/2016	8.1	3.5	17.3	10:00	0	100.0
16/06/2016	9.7	4.7	21.4	22:00	0	100.0
17/06/2016	15.1	11.5	25.9	10:00	0	100.0
18/06/2016	15.2	10.2	20.9	12:00	0	100.0
19/06/2016	13.8	4.0	25.6	16:00	0	100.0
20/06/2016	3.5	1.9	6.0	18:00	0	100.0
21/06/2016	3.1	1.6	5.7	16:00	0	100.0
22/06/2016	15.8	1.8	80.9	10:00	0	91.7
23/06/2016	4.4	1.8	11.0	10:00	0	100.0
24/06/2016	4.8	2.0	11.3	14:00	0	100.0
25/06/2016	4.6	1.7	9.7	08:00	0	100.0
26/06/2016	10.1	2.9	20.1	23:00	0	100.0
27/06/2016	10.1	2.3	23.0	08:00	0	100.0
28/06/2016	3.9	1.5	8.4	16:00	0	100.0
29/06/2016	9.5	2.2	21.5	10:00	0	100.0
30/06/2016	14.8	7.3	22.6	10:00	0	100.0

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

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

## Station 3 (Lewis Street)

### Summary

Station 3 Lewis St Ambient AQMS Summary June 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO <sub>2</sub>	ppm	0.120	1 Hour	0.032	17/06/2016 18:00	94.8
CO	ppm	8.0	8 Hours	0.7	18/06/2016 03:00	94.1
PM <sub>2.5</sub>	µg/m <sup>3</sup>	25	24 Hours	13.9	18/06/2016	96.7
PM <sub>10</sub>	µg/m <sup>3</sup>	50	24 Hours	18.4	09/06/2016	96.4

Table 14 Station 3 Monthly Summary

## Graphical Representations

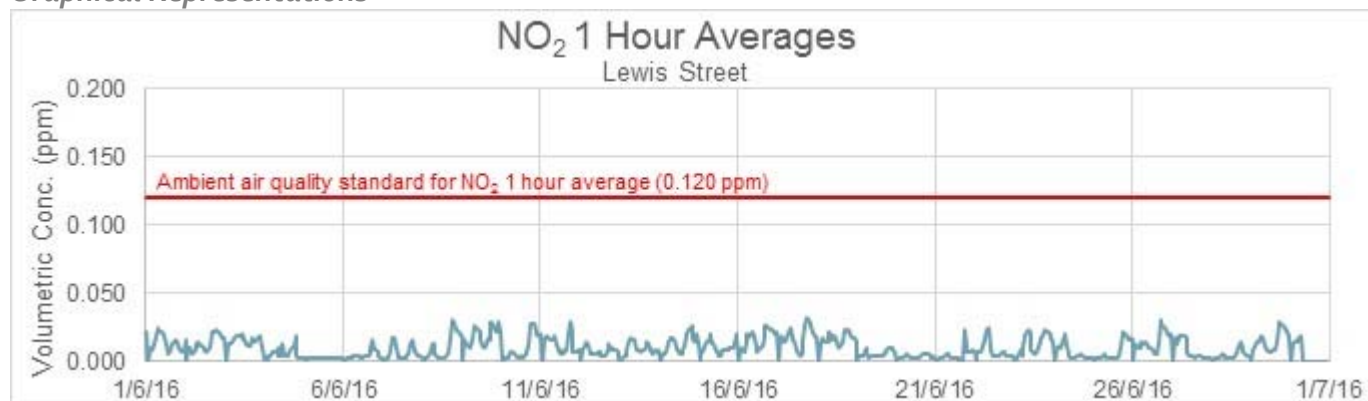


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

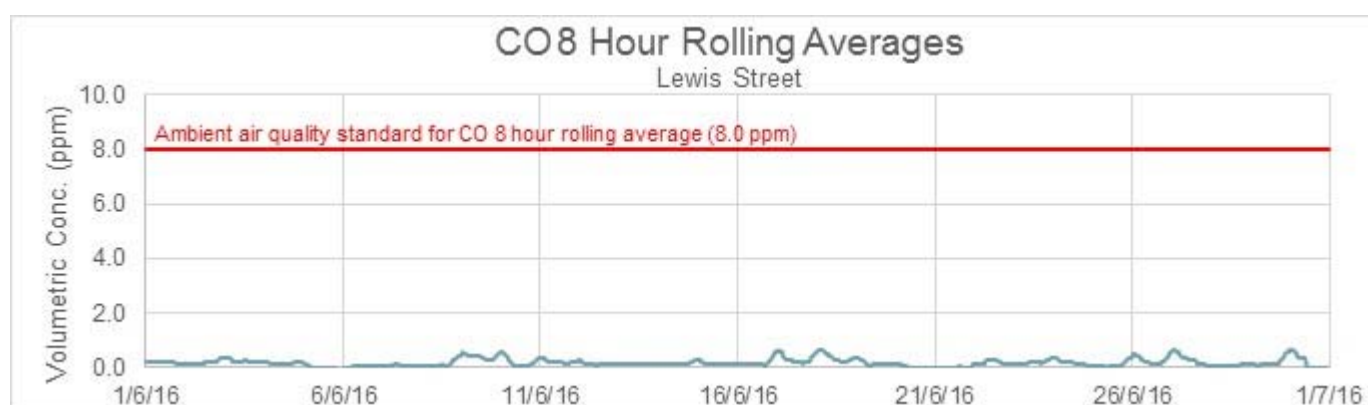


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

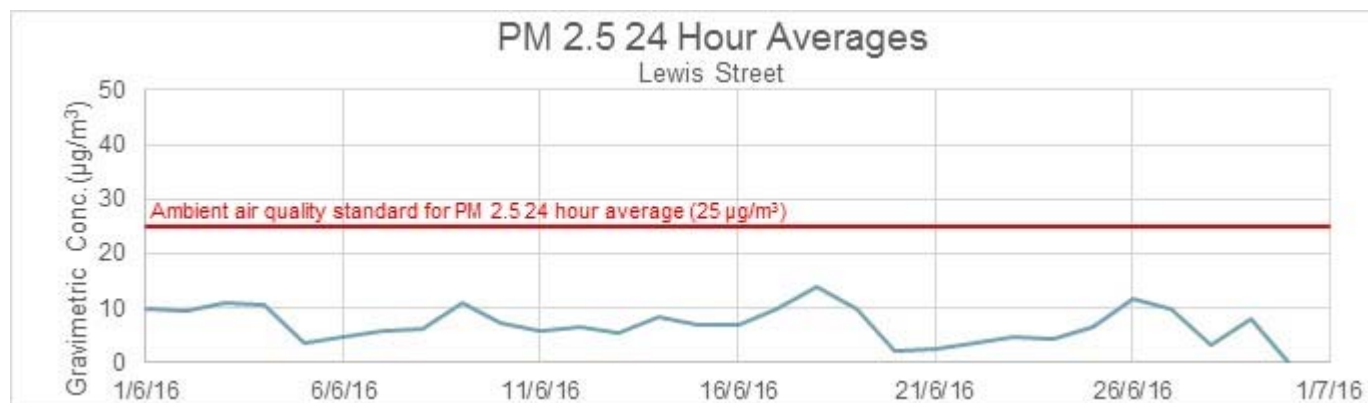


Figure 11 Station 3 PM2.5 24hr averages

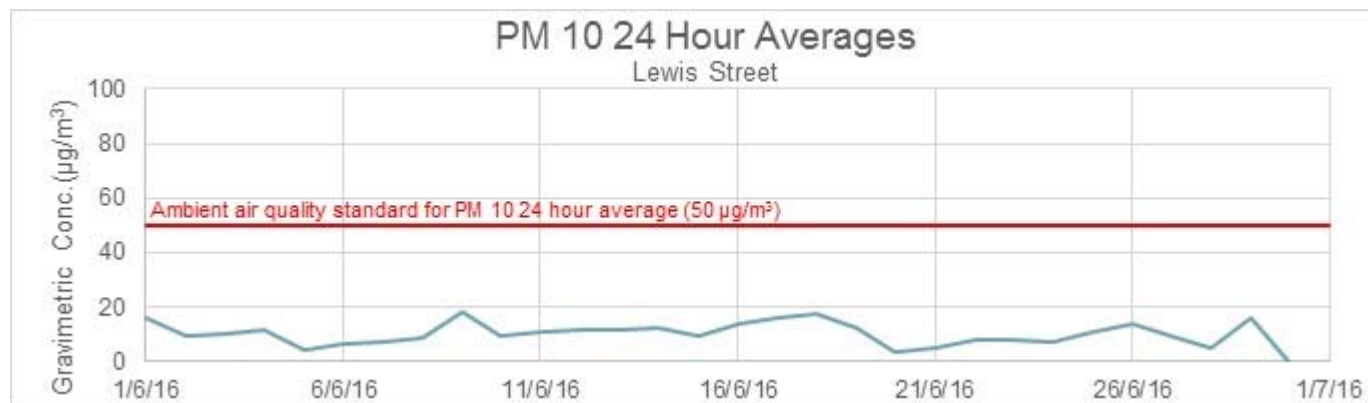


Figure 12 Station 3 PM10 24hr averages



## Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary June 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2016	0.014	0.006	0.025	07:00	0	97.2
2/06/2016	0.014	0.005	0.024	19:00	0	97.2
3/06/2016	0.016	0.010	0.020	11:00	0	97.2
4/06/2016	0.006	0.003	0.019	19:00	0	97.2
5/06/2016	0.003	0.002	0.003	12:00	0	97.2
6/06/2016	0.005	0.002	0.017	18:00	0	97.2
7/06/2016	0.007	0.003	0.017	06:00	0	97.2
8/06/2016	0.011	0.003	0.030	19:00	0	97.2
9/06/2016	0.019	0.010	0.029	23:00	0	97.2
10/06/2016	0.010	0.003	0.028	19:00	0	97.2
11/06/2016	0.014	0.006	0.029	18:00	0	97.2
12/06/2016	0.008	0.004	0.014	04:00	0	97.2
13/06/2016	0.009	0.003	0.018	07:00	0	97.2
14/06/2016	0.014	0.005	0.026	20:00	0	97.2
15/06/2016	0.011	0.005	0.021	23:00	0	97.2
16/06/2016	0.017	0.007	0.026	17:00	0	97.2
17/06/2016	0.018	0.005	0.032	18:00	0	97.2
18/06/2016	0.017	0.010	0.024	18:00	0	97.2
19/06/2016	0.006	0.003	0.014	00:00	0	97.2
20/06/2016	0.004	0.003	0.007	00:00	0	97.2
21/06/2016	0.005	0.002	0.023	18:00	0	87.8
22/06/2016	0.008	0.003	0.025	09:00	0	97.2
23/06/2016	0.013	0.003	0.023	09:00	0	97.2
24/06/2016	0.007	0.002	0.020	07:00	0	97.2
25/06/2016	0.008	0.002	0.022	19:00	0	97.2
26/06/2016	0.015	0.006	0.031	17:00	0	97.2
27/06/2016	0.009	0.002	0.020	00:00	0	97.2
28/06/2016	0.005	0.002	0.014	18:00	0	97.2
29/06/2016	0.015	0.003	0.030	18:00	0	97.2
<sup>1</sup> 30/06/2016	-	0.014	0.019	07:00	0	32.6

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

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

<sup>1</sup> Loss of data due to power failure/logger fault

Table 15 Station 3 Nitrogen Dioxide Monthly Summary



## Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary June 2016								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2016	0.2	0.1	0.3	08:00	0.2	11:00	0	96.5
2/06/2016	0.2	0.1	0.5	20:00	0.4	23:00	0	96.5
3/06/2016	0.2	0.1	0.3	08:00	0.4	01:00	0	96.5
4/06/2016	0.2	0.1	0.3	19:00	0.2	00:00	0	96.5
5/06/2016	0.0	-0.1	0.0	00:00	0.2	00:00	0	96.5
6/06/2016	0.1	0.0	0.2	18:00	0.1	22:00	0	96.5
7/06/2016	0.1	0.0	0.2	07:00	0.1	08:00	0	96.5
8/06/2016	0.2	0.0	0.6	19:00	0.5	23:00	0	96.5
9/06/2016	0.4	0.2	0.8	22:00	0.5	01:00	0	96.5
10/06/2016	0.2	0.1	0.5	19:00	0.6	01:00	0	96.5
11/06/2016	0.2	0.1	0.5	18:00	0.4	01:00	0	96.5
12/06/2016	0.1	0.1	0.2	18:00	0.3	00:00	0	96.5
13/06/2016	0.1	0.1	0.2	08:00	0.2	00:00	0	96.5
14/06/2016	0.2	0.1	0.4	19:00	0.3	23:00	0	96.5
15/06/2016	0.1	0.1	0.2	07:00	0.3	00:00	0	96.5
16/06/2016	0.3	0.1	0.9	21:00	0.5	23:00	0	96.5
17/06/2016	0.3	0.1	0.8	22:00	0.6	01:00	0	96.5
18/06/2016	0.4	0.2	0.8	00:00	0.7	03:00	0	96.5
19/06/2016	0.1	0.1	0.2	00:00	0.4	00:00	0	96.5
20/06/2016	0.0	-0.1	0.1	00:00	0.1	00:00	0	96.5
21/06/2016	0.1	0.0	0.3	18:00	0.2	23:00	0	87.2
22/06/2016	0.2	0.1	0.5	07:00	0.3	12:00	0	96.5
23/06/2016	0.2	0.1	0.5	19:00	0.4	23:00	0	96.5
24/06/2016	0.1	0.0	0.3	07:00	0.4	01:00	0	96.5
25/06/2016	0.2	0.0	0.6	19:00	0.4	23:00	0	96.5
26/06/2016	0.3	0.1	0.8	22:00	0.5	23:00	0	96.9
27/06/2016	0.2	0.0	0.5	00:00	0.6	02:00	0	96.9
28/06/2016	0.1	0.0	0.2	17:00	0.1	21:00	0	96.9
29/06/2016	0.3	0.1	0.9	21:00	0.6	23:00	0	96.9
<sup>1</sup> 30/06/2016	-	0.2	0.5	00:00	0.7	01:00	0	32.3

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

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

<sup>1</sup> Loss of data due to power failure/logger fault

Table 16 Station 3 Carbon Monoxide Monthly Summary

## PM<sub>2.5</sub> Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	9.8	5.2	15.5	10:00	0	100.0
2/06/2016	9.6	5.1	14.8	18:00	0	100.0
3/06/2016	10.9	6.5	14.5	10:00	0	100.0
4/06/2016	10.5	2.2	20.7	03:00	0	100.0
5/06/2016	3.5	0.2	5.9	00:00	0	100.0
6/06/2016	4.8	2.2	7.8	03:00	0	100.0
7/06/2016	5.7	2.5	14.4	07:00	0	100.0
8/06/2016	6.4	0.0	17.6	20:00	0	100.0
9/06/2016	10.9	6.0	22.7	21:00	0	100.0
10/06/2016	7.2	0.2	20.3	20:00	0	100.0
11/06/2016	6.0	1.1	22.3	20:00	0	100.0
12/06/2016	6.7	1.4	11.8	19:00	0	100.0
13/06/2016	5.5	2.2	7.9	07:00	0	100.0
14/06/2016	8.5	2.3	14.6	20:00	0	95.8
15/06/2016	6.9	3.2	11.9	02:00	0	100.0
16/06/2016	6.9	1.1	16.0	20:00	0	100.0
17/06/2016	9.7	4.0	22.8	22:00	0	100.0
18/06/2016	13.9	5.5	20.8	08:00	0	100.0
19/06/2016	9.7	5.3	18.7	00:00	0	100.0
20/06/2016	2.2	-0.8	6.0	20:00	0	83.3
21/06/2016	2.7	0.2	6.8	19:00	0	87.5
22/06/2016	3.7	-0.8	10.8	10:00	0	100.0
23/06/2016	4.9	-0.8	11.5	10:00	0	100.0
24/06/2016	4.2	1.0	7.8	18:00	0	100.0
25/06/2016	6.5	-0.8	27.7	20:00	0	100.0
26/06/2016	11.8	4.0	27.8	22:00	0	100.0
27/06/2016	9.9	3.0	20.0	01:00	0	100.0
28/06/2016	3.2	-0.8	7.8	20:00	0	100.0
29/06/2016	8.2	1.1	22.0	20:00	0	100.0
<sup>1</sup> 30/06/2016	-	8.6	15.1	07:00	0	33.3

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

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

<sup>1</sup> Loss of data due to power failure/logger fault

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

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

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	15.7	6.6	29.6	09:00	0	100.0
2/06/2016	9.4	3.3	18.4	03:00	0	100.0
3/06/2016	10.3	2.3	19.3	14:00	0	95.8
4/06/2016	11.6	0.6	28.2	07:00	0	95.8
5/06/2016	4.3	0.1	8.9	15:00	0	95.8
6/06/2016	6.8	3.3	10.6	08:00	0	100.0
7/06/2016	7.3	3.6	12.6	07:00	0	100.0
8/06/2016	9.0	4.0	21.5	19:00	0	100.0
9/06/2016	18.4	9.5	28.6	16:00	0	100.0
10/06/2016	9.4	4.2	27.7	19:00	0	100.0
11/06/2016	10.6	5.3	26.4	18:00	0	100.0
12/06/2016	12.0	5.7	19.7	13:00	0	100.0
13/06/2016	11.7	6.9	35.6	15:00	0	100.0
14/06/2016	12.3	5.3	18.6	19:00	0	100.0
15/06/2016	9.4	6.4	13.2	07:00	0	100.0
16/06/2016	13.6	6.2	24.5	20:00	0	100.0
17/06/2016	16.1	8.9	26.0	21:00	0	100.0
18/06/2016	17.3	12.9	29.0	08:00	0	100.0
19/06/2016	12.2	2.9	24.3	15:00	0	95.8
20/06/2016	3.9	0.8	6.5	18:00	0	91.7
21/06/2016	5.0	1.6	16.1	18:00	0	87.5
22/06/2016	8.3	4.0	28.2	09:00	0	100.0
23/06/2016	8.3	1.4	15.0	19:00	0	100.0
24/06/2016	7.2	3.0	12.2	13:00	0	100.0
25/06/2016	10.8	3.8	29.7	18:00	0	100.0
26/06/2016	13.8	6.5	30.9	19:00	0	100.0
27/06/2016	9.5	1.4	20.4	04:00	0	95.8
28/06/2016	5.1	1.3	9.2	16:00	0	100.0
29/06/2016	15.7	5.7	31.0	19:00	0	100.0
<sup>1</sup> 30/06/2016	-	10.2	29.7	07:00	0	33.3

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

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

<sup>1</sup> Loss of data due to power failure/logger fault

Table 18 Station 3 PM<sub>10</sub> Monthly Summary



## Station 4 (Airportlink Operation Centre)

### Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary June 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO <sub>2</sub>	ppm	0.120	1 Hour	0.044	29/06/2016 18:00	97.0
CO	ppm	8.0	8 Hours	0.6	17/06/2016 01:00	93.5
PM <sub>2.5</sub>	µg/m <sup>3</sup>	25	24 Hours	10.2	18/06/2016	80.6
PM <sub>10</sub>	µg/m <sup>3</sup>	50	24 Hours	19.0	09/06/2016	98.9

Table 19 Station 4 Monthly Summary

## Graphical Representations

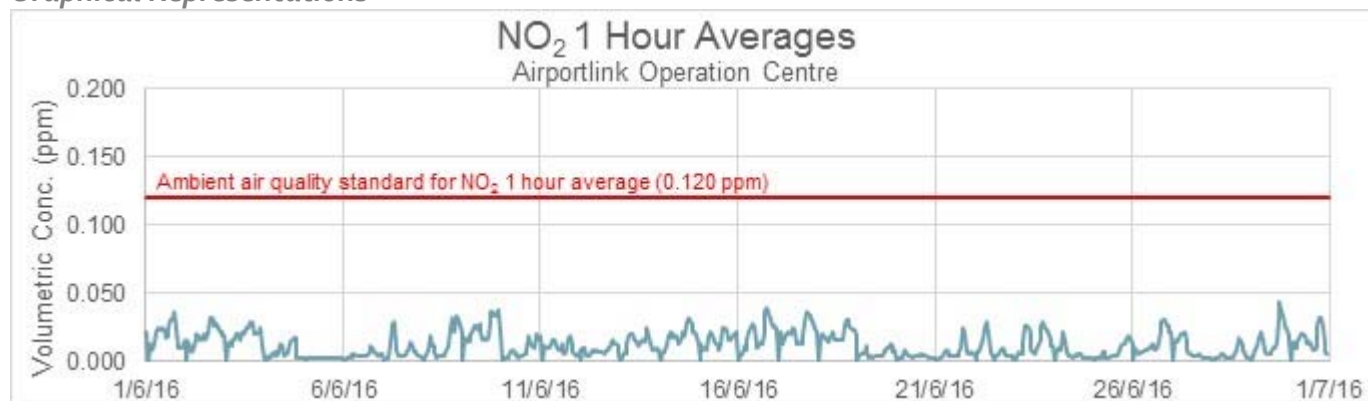


Figure 13 Station 4 Nitrogen Dioxide 1hr averages



Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

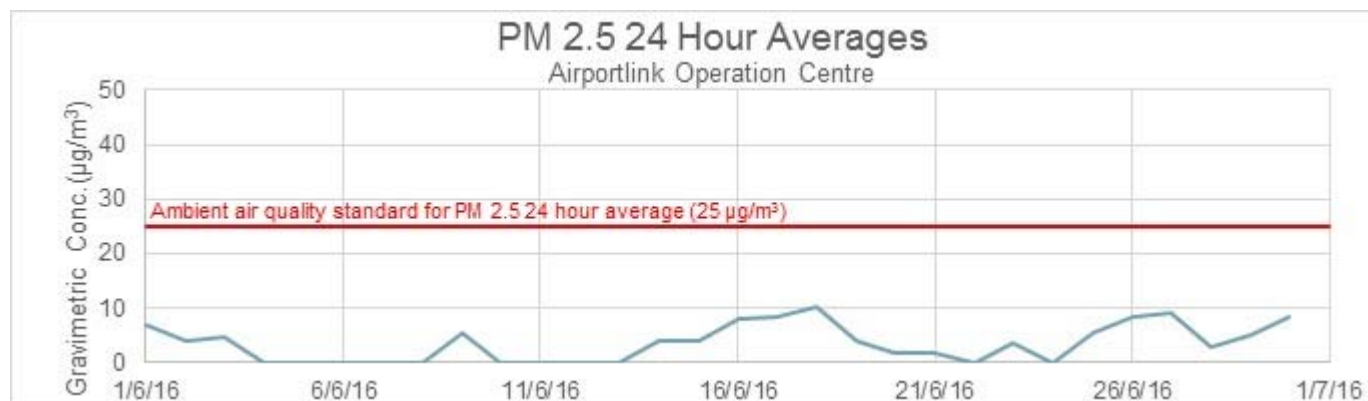


Figure 15 Station 4 PM2.5 24hr averages

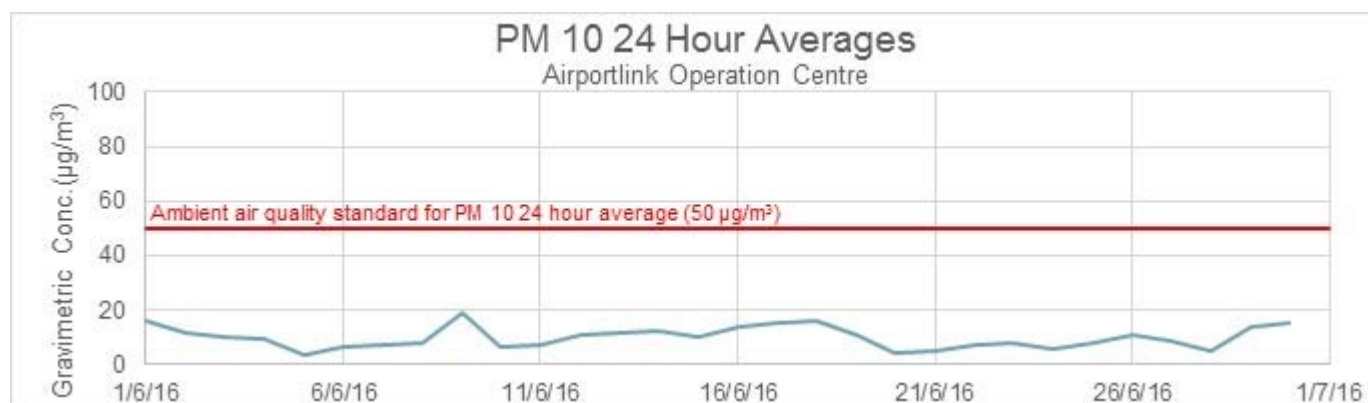


Figure 16 Station 4 PM10 24hr averages

## Nitrogen Dioxide Summary

### Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary June 2016

Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/06/2016	0.019	0.009	0.037	17:00	0	97.2
2/06/2016	0.020	0.007	0.033	15:00	0	97.2
3/06/2016	0.020	0.011	0.030	15:00	0	97.2
4/06/2016	0.007	0.002	0.018	18:00	0	97.2
5/06/2016	0.003	0.002	0.003	17:00	0	97.2
6/06/2016	0.005	0.002	0.011	17:00	0	97.2
7/06/2016	0.008	0.003	0.029	07:00	0	97.2
8/06/2016	0.013	0.003	0.034	21:00	0	97.2
9/06/2016	0.024	0.014	0.037	22:00	0	97.2
10/06/2016	0.009	0.002	0.022	00:00	0	97.2
11/06/2016	0.011	0.005	0.020	18:00	0	97.2
12/06/2016	0.009	0.005	0.016	20:00	0	97.2
13/06/2016	0.013	0.005	0.025	17:00	0	97.2
14/06/2016	0.018	0.007	0.032	18:00	0	97.2
15/06/2016	0.016	0.008	0.024	15:00	0	97.2
16/06/2016	0.020	0.005	0.039	18:00	0	97.2
17/06/2016	0.023	0.013	0.037	18:00	0	97.2
18/06/2016	0.020	0.014	0.030	19:00	0	97.2
19/06/2016	0.007	0.003	0.019	00:00	0	97.2
20/06/2016	0.004	0.002	0.009	06:00	0	97.2
21/06/2016	0.007	0.002	0.024	17:00	0	97.2
22/06/2016	0.010	0.004	0.029	08:00	0	92.0
23/06/2016	0.015	0.003	0.029	18:00	0	97.2
24/06/2016	0.007	0.003	0.022	06:00	0	97.2
25/06/2016	0.007	0.002	0.019	22:00	0	97.2
26/06/2016	0.015	0.006	0.030	19:00	0	97.2
27/06/2016	0.010	0.002	0.022	08:00	0	97.2
28/06/2016	0.005	0.002	0.017	17:00	0	97.2
29/06/2016	0.017	0.003	0.044	18:00	0	97.2
30/06/2016	0.016	0.005	0.032	18:00	0	97.2

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

Table 20 Station 4 Nitrogen Dioxide Monthly Summary

## Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary June 2016								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2016	0.3	0.2	0.5	17:00	0.3	18:00	0	96.9
2/06/2016	0.3	0.1	0.5	20:00	0.5	21:00	0	96.9
3/06/2016	0.3	0.1	0.5	15:00	0.4	00:00	0	96.9
4/06/2016	0.1	0.1	0.3	18:00	0.3	00:00	0	96.9
5/06/2016	0.0	0.0	0.0	11:00	0.1	00:00	0	80.2
6/06/2016	0.0	0.0	0.1	18:00	0.1	23:00	0	92.0
7/06/2016	0.1	0.0	0.4	07:00	0.2	09:00	0	90.3
8/06/2016	0.2	0.0	0.6	21:00	0.3	23:00	0	93.8
9/06/2016	0.4	0.2	0.7	20:00	0.5	23:00	0	96.9
10/06/2016	0.2	0.1	0.3	21:00	0.5	01:00	0	96.9
11/06/2016	0.2	0.1	0.3	08:00	0.2	00:00	0	96.9
12/06/2016	0.1	0.1	0.1	20:00	0.1	00:00	0	96.9
13/06/2016	0.2	0.1	0.3	17:00	0.2	18:00	0	96.9
14/06/2016	0.2	0.1	0.5	18:00	0.3	21:00	0	96.9
15/06/2016	0.2	0.1	0.3	16:00	0.3	00:00	0	96.9
16/06/2016	0.3	0.1	0.8	20:00	0.6	23:00	0	96.9
17/06/2016	0.3	0.1	0.7	23:00	0.6	01:00	0	96.9
18/06/2016	0.4	0.2	0.6	00:00	0.6	02:00	0	96.9
19/06/2016	0.1	0.1	0.4	00:00	0.5	00:00	0	96.9
20/06/2016	0.1	0.0	0.1	00:00	0.2	00:00	0	96.9
21/06/2016	0.1	0.0	0.2	17:00	0.1	22:00	0	94.4
22/06/2016	0.2	0.1	0.5	07:00	0.3	12:00	0	91.7
23/06/2016	0.2	0.0	0.4	18:00	0.3	23:00	0	96.5
24/06/2016	0.1	0.1	0.3	06:00	0.3	00:00	0	96.9
<sup>1</sup> 25/06/2016	-	0.0	0.3	22:00	0.2	23:00	0	37.8
26/06/2016	0.2	0.1	0.6	21:00	0.4	23:00	0	96.9
27/06/2016	0.2	0.1	0.5	08:00	0.5	02:00	0	96.9
28/06/2016	0.1	0.0	0.2	17:00	0.1	21:00	0	96.2
29/06/2016	0.2	0.0	0.9	19:00	0.5	23:00	0	95.5
30/06/2016	0.2	0.1	0.4	07:00	0.5	01:00	0	96.9

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

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

<sup>1</sup> Loss of data due to instrument fault

Table 21 Station 4 Carbon Monoxide Monthly Summary



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

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM2.5 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	6.8	2.0	15.0	10:00	0	100.0
2/06/2016	3.9	-1.0	8.0	16:00	0	87.5
3/06/2016	4.8	-0.6	14.8	16:00	0	100.0
<sup>1</sup> 4/06/2016	-	-1.0	7.5	00:00	0	58.3
<sup>1</sup> 5/06/2016	-	-1.0	3.0	04:00	0	20.8
<sup>1</sup> 6/06/2016	-	-0.7	16.3	00:00	0	62.5
<sup>1</sup> 7/06/2016	-	-1.0	5.4	09:00	0	20.8
<sup>1</sup> 8/06/2016	-	-1.0	8.4	23:00	0	50.0
9/06/2016	5.5	1.1	11.8	00:00	0	100.0
<sup>1</sup> 10/06/2016	-	-1.0	12.5	00:00	0	54.2
<sup>1</sup> 11/06/2016	-	-1.0	2.9	19:00	0	54.2
<sup>1</sup> 12/06/2016	-	-0.9	5.5	23:00	0	66.7
<sup>1</sup> 13/06/2016	-	-1.0	5.8	14:00	0	66.7
14/06/2016	4.0	-1.0	9.6	15:00	0	79.2
15/06/2016	4.1	0.2	8.5	19:00	0	100.0
16/06/2016	8.0	2.2	16.3	21:00	0	91.7
17/06/2016	8.5	2.4	16.4	21:00	0	100.0
18/06/2016	10.2	3.1	21.2	12:00	0	100.0
19/06/2016	3.9	-0.9	19.0	00:00	0	100.0
20/06/2016	1.6	-1.0	5.9	07:00	0	100.0
21/06/2016	1.9	-1.0	6.0	21:00	0	83.3
<sup>1</sup> 22/06/2016	-	-1.0	6.0	08:00	0	58.3
23/06/2016	3.6	-0.9	9.5	12:00	0	95.8
<sup>1</sup> 24/06/2016	-	0.0	4.1	23:00	0	66.7
25/06/2016	5.5	-0.7	19.7	23:00	0	100.0
26/06/2016	8.3	1.3	23.0	23:00	0	100.0
27/06/2016	9.0	-0.9	22.7	00:00	0	100.0
28/06/2016	2.8	-0.6	7.6	23:00	0	100.0
29/06/2016	5.2	0.2	19.1	20:00	0	100.0
30/06/2016	8.3	4.0	16.0	08:00	0	100.0

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

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

<sup>1</sup> Loss of data due to intermittent instrument fault

Table 22 Station 4 PM<sub>2.5</sub> Monthly Summary



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

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	16.0	7.9	26.4	11:00	0	100.0
2/06/2016	11.7	6.2	16.1	08:00	0	100.0
3/06/2016	10.5	5.5	17.3	15:00	0	95.8
4/06/2016	9.6	1.1	24.8	07:00	0	95.8
5/06/2016	3.8	1.0	6.8	16:00	0	91.7
6/06/2016	6.2	3.7	9.5	08:00	0	100.0
7/06/2016	7.6	3.7	14.6	07:00	0	100.0
8/06/2016	8.1	4.3	17.6	21:00	0	100.0
9/06/2016	19.0	7.6	32.3	00:00	0	100.0
10/06/2016	6.5	3.8	13.4	00:00	0	100.0
11/06/2016	7.4	5.3	12.3	09:00	0	100.0
12/06/2016	10.7	6.1	18.2	13:00	0	100.0
13/06/2016	11.3	7.3	19.5	16:00	0	100.0
14/06/2016	12.7	5.5	20.1	15:00	0	100.0
15/06/2016	9.8	6.8	14.7	15:00	0	100.0
16/06/2016	13.6	5.4	23.0	20:00	0	100.0
17/06/2016	15.0	8.1	21.4	20:00	0	100.0
18/06/2016	15.9	11.2	21.8	19:00	0	100.0
19/06/2016	11.1	3.4	21.7	12:00	0	95.8
20/06/2016	4.0	1.5	6.3	01:00	0	91.7
21/06/2016	5.1	1.7	11.4	18:00	0	100.0
22/06/2016	7.4	3.6	23.1	08:00	0	95.8
23/06/2016	7.8	2.9	13.4	18:00	0	100.0
24/06/2016	5.6	2.4	10.4	06:00	0	100.0
25/06/2016	8.0	3.7	16.1	22:00	0	100.0
26/06/2016	11.2	5.6	23.2	21:00	0	100.0
27/06/2016	8.8	1.7	18.0	08:00	0	100.0
28/06/2016	5.2	2.0	9.5	17:00	0	100.0
29/06/2016	13.8	5.4	30.6	19:00	0	100.0
30/06/2016	15.4	9.8	22.8	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 23 Station 4 PM<sub>10</sub> Monthly Summary

## Station 5 (Cartwright Street)

### Summary

Station 5 Cartwright St Ambient AQMS Summary June 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO <sub>2</sub>	ppm	0.120	1 Hour	0.040	09/06/2016 10:00	96.9
CO	ppm	8.0	8 Hours	0.6	10/06/2016 01:00	96.4
PM <sub>2.5</sub>	µg/m3	25	24 Hours	14.7	26/06/2016	98.6
PM <sub>10</sub>	µg/m3	50	24 Hours	34.4	09/06/2016	98.1

Table 24 Station 5 Monthly Summary

## Graphical Representations

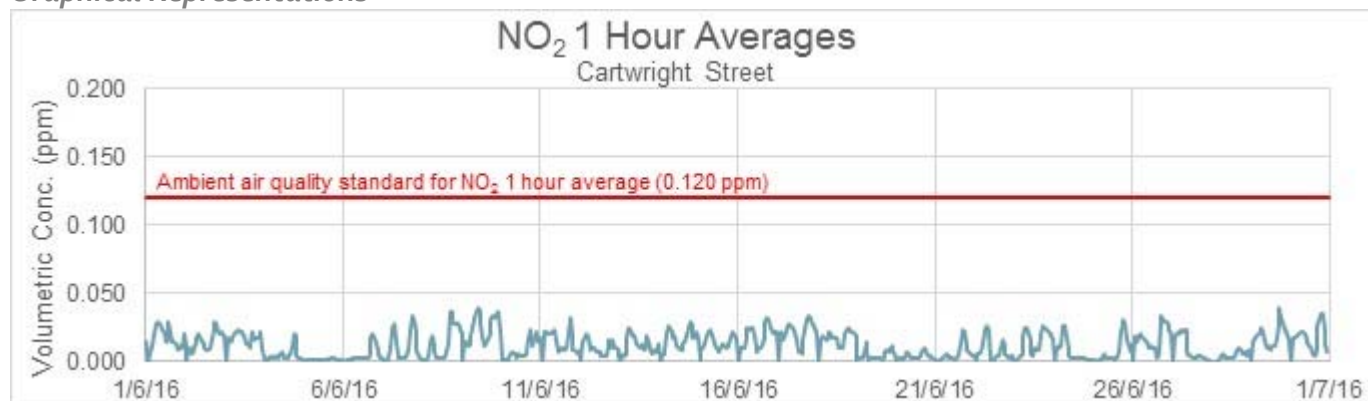


Figure 17 Station 5 Dioxide 1hr averages

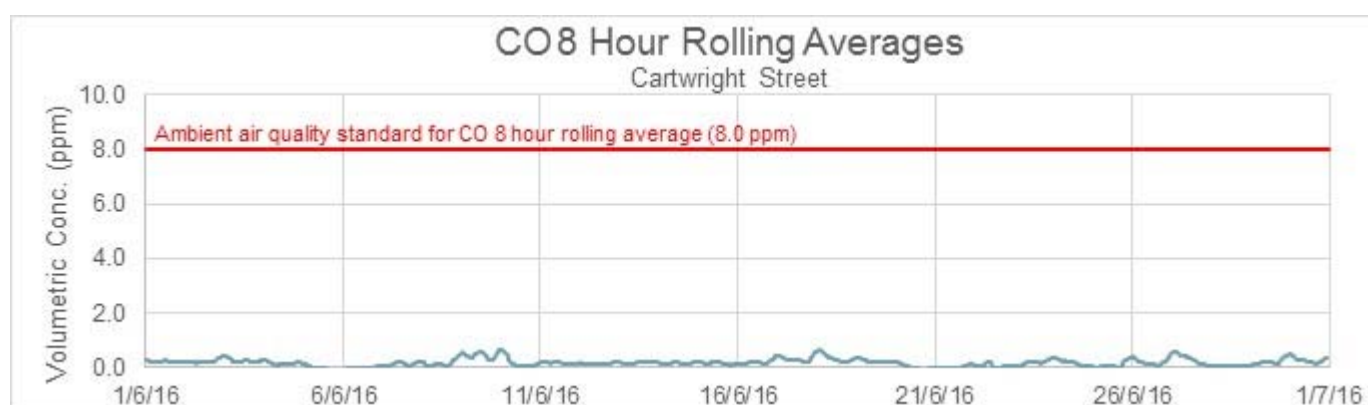


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

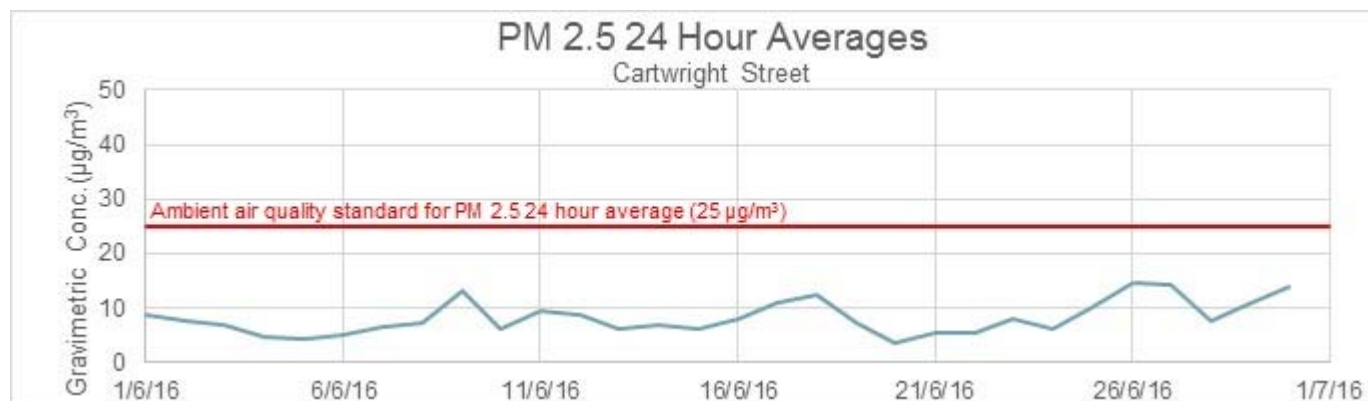


Figure 19 Station 5 PM2.5 24hr averages

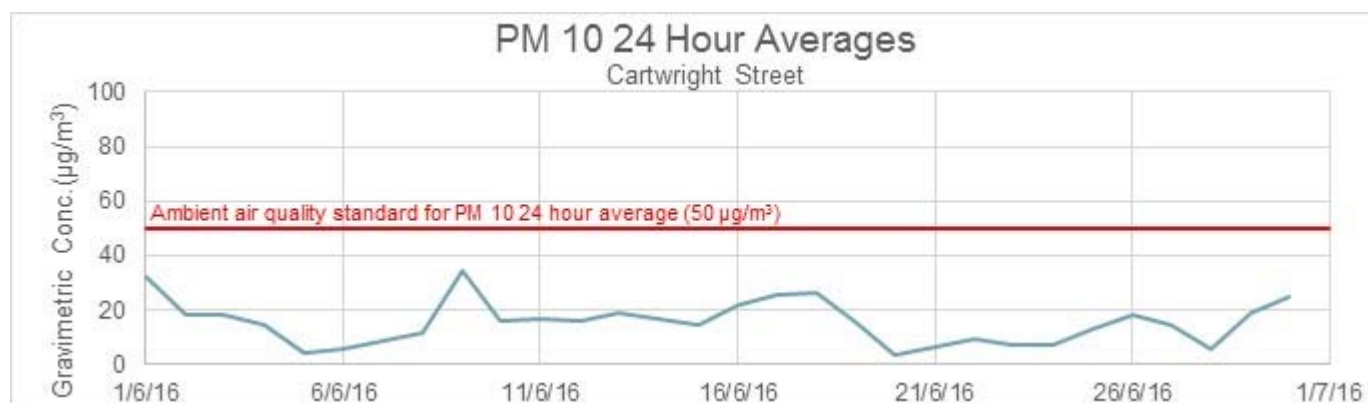


Figure 20 Station 5 PM10 24hr averages

## Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary June 2016						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/06/2016	0.017	0.008	0.030	14:00	0	97.2
2/06/2016	0.016	0.006	0.030	18:00	0	97.2
3/06/2016	0.017	0.009	0.023	08:00	0	97.2
4/06/2016	0.005	0.001	0.020	18:00	0	97.2
5/06/2016	0.001	0.001	0.002	16:00	0	97.2
6/06/2016	0.005	0.001	0.020	18:00	0	97.2
7/06/2016	0.010	0.002	0.033	18:00	0	97.2
8/06/2016	0.013	0.001	0.037	18:00	0	97.2
9/06/2016	0.025	0.012	0.040	10:00	0	97.2
10/06/2016	0.009	0.001	0.023	18:00	0	97.2
11/06/2016	0.016	0.006	0.033	18:00	0	97.2
12/06/2016	0.010	0.003	0.021	04:00	0	97.2
13/06/2016	0.012	0.004	0.025	06:00	0	97.2
14/06/2016	0.016	0.005	0.029	19:00	0	97.2
15/06/2016	0.014	0.007	0.023	07:00	0	97.2
16/06/2016	0.018	0.007	0.033	18:00	0	97.2
17/06/2016	0.022	0.005	0.034	19:00	0	97.2
18/06/2016	0.018	0.010	0.025	19:00	0	97.2
19/06/2016	0.006	0.002	0.019	00:00	0	97.2
20/06/2016	0.004	0.002	0.010	18:00	0	97.2
21/06/2016	0.006	0.001	0.023	17:00	0	97.2
22/06/2016	0.009	0.003	0.026	08:00	0	88.2
23/06/2016	0.014	0.001	0.026	18:00	0	97.2
24/06/2016	0.007	0.001	0.026	06:00	0	97.2
25/06/2016	0.008	0.000	0.031	19:00	0	97.2
26/06/2016	0.018	0.003	0.034	18:00	0	97.2
27/06/2016	0.010	0.001	0.024	08:00	0	97.2
28/06/2016	0.004	0.000	0.010	17:00	0	97.2
29/06/2016	0.018	0.007	0.040	18:00	0	97.2
30/06/2016	0.018	0.004	0.035	19:00	0	97.2

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

Table 25 Station 5 Nitrogen Dioxide Monthly Summary



## Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary June 2016								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/06/2016	0.2	0.1	0.3	09:00	0.3	12:00	0	96.9
2/06/2016	0.3	0.1	0.7	20:00	0.4	23:00	0	96.9
3/06/2016	0.2	0.2	0.4	22:00	0.4	01:00	0	96.9
4/06/2016	0.1	0.0	0.3	18:00	0.3	00:00	0	96.9
5/06/2016	0.0	-0.1	0.0	00:00	0.1	00:00	0	96.9
6/06/2016	0.0	-0.1	0.1	18:00	0.1	23:00	0	96.9
7/06/2016	0.1	0.0	0.5	07:00	0.2	08:00	0	96.9
8/06/2016	0.2	0.0	0.7	18:00	0.5	23:00	0	96.9
9/06/2016	0.5	0.2	1.2	08:00	0.6	23:00	0	96.5
10/06/2016	0.1	0.0	0.3	00:00	0.6	01:00	0	96.9
11/06/2016	0.2	0.1	0.4	18:00	0.2	10:00	0	96.9
12/06/2016	0.2	0.1	0.2	18:00	0.2	23:00	0	96.9
13/06/2016	0.2	0.1	0.2	08:00	0.2	12:00	0	96.9
14/06/2016	0.2	0.1	0.3	19:00	0.2	23:00	0	96.9
15/06/2016	0.1	0.1	0.3	07:00	0.2	00:00	0	96.9
16/06/2016	0.3	0.1	0.6	19:00	0.4	23:00	0	96.9
17/06/2016	0.4	0.1	0.8	23:00	0.5	23:00	0	96.9
18/06/2016	0.3	0.1	0.6	00:00	0.6	02:00	0	96.9
19/06/2016	0.2	0.2	0.4	00:00	0.4	01:00	0	96.9
20/06/2016	0.0	-0.1	0.1	00:00	0.2	00:00	0	96.9
21/06/2016	0.0	0.0	0.2	17:00	0.1	22:00	0	96.9
22/06/2016	0.1	0.0	0.4	07:00	0.2	10:00	0	87.8
23/06/2016	0.2	0.1	0.4	19:00	0.4	23:00	0	96.9
24/06/2016	0.1	0.0	0.4	07:00	0.4	01:00	0	96.5
25/06/2016	0.1	0.0	0.7	19:00	0.3	23:00	0	96.9
26/06/2016	0.2	0.1	0.7	23:00	0.5	23:00	0	96.5
27/06/2016	0.2	0.0	0.6	00:00	0.6	02:00	0	96.5
28/06/2016	0.1	0.0	0.1	17:00	0.1	23:00	0	95.8
29/06/2016	0.3	0.1	0.7	19:00	0.5	23:00	0	96.5
30/06/2016	0.3	0.1	0.6	19:00	0.5	01:00	0	95.8

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

Table 26 Station 5 Carbon Monoxide Monthly Summary

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

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	8.9	2.5	16.4	08:00	0	100.0
2/06/2016	7.8	2.3	15.8	09:00	0	100.0
3/06/2016	7.0	0.1	13.7	10:00	0	100.0
4/06/2016	4.8	-1.0	13.3	21:00	0	91.7
5/06/2016	4.4	-0.3	11.8	14:00	0	100.0
6/06/2016	5.2	1.2	8.9	12:00	0	100.0
7/06/2016	6.5	-0.6	16.0	08:00	0	100.0
8/06/2016	7.2	0.5	17.8	23:00	0	100.0
9/06/2016	13.1	3.8	20.5	17:00	0	100.0
10/06/2016	6.0	-0.8	11.7	11:00	0	100.0
11/06/2016	9.3	3.5	16.8	04:00	0	100.0
12/06/2016	8.8	3.5	14.8	03:00	0	100.0
13/06/2016	6.2	-0.5	10.8	05:00	0	91.7
14/06/2016	6.8	1.0	10.9	00:00	0	100.0
15/06/2016	6.2	2.4	15.3	00:00	0	95.8
16/06/2016	8.0	2.2	18.8	21:00	0	100.0
17/06/2016	11.1	4.3	24.8	23:00	0	100.0
18/06/2016	12.6	4.8	22.5	23:00	0	100.0
19/06/2016	7.3	1.3	16.5	00:00	0	100.0
20/06/2016	3.7	-0.8	7.8	19:00	0	95.8
21/06/2016	5.4	1.2	11.5	20:00	0	100.0
22/06/2016	5.4	1.1	13.0	09:00	0	91.7
23/06/2016	8.1	2.3	15.7	23:00	0	100.0
24/06/2016	6.0	0.1	12.0	00:00	0	91.7
25/06/2016	10.3	2.0	41.8	21:00	0	100.0
26/06/2016	14.7	5.3	32.8	23:00	0	100.0
27/06/2016	14.3	6.3	29.7	00:00	0	100.0
28/06/2016	7.7	4.0	14.5	10:00	0	100.0
29/06/2016	10.9	5.3	20.6	22:00	0	100.0
30/06/2016	13.9	4.0	26.7	08:00	0	100.0

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

Table 27 Station 5 PM<sub>2.5</sub> Monthly Summary

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

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary June 2016						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/06/2016	32.5	10.2	87.3	15:00	0	100.0
2/06/2016	18.4	8.7	32.1	12:00	0	100.0
3/06/2016	18.3	9.6	30.8	10:00	0	100.0
4/06/2016	14.6	4.3	30.5	08:00	0	95.8
5/06/2016	4.1	-0.9	10.8	19:00	0	79.2
6/06/2016	5.7	1.1	9.9	08:00	0	100.0
7/06/2016	8.4	0.1	24.1	08:00	0	100.0
8/06/2016	11.9	2.3	36.7	19:00	0	100.0
9/06/2016	34.4	5.9	102.9	13:00	0	100.0
10/06/2016	16.0	5.3	63.2	12:00	0	100.0
11/06/2016	16.7	8.1	63.5	11:00	0	100.0
12/06/2016	16.1	8.2	32.0	14:00	0	100.0
13/06/2016	18.7	8.8	60.5	12:00	0	100.0
14/06/2016	16.7	8.9	24.1	23:00	0	100.0
15/06/2016	14.2	4.2	23.8	09:00	0	100.0
16/06/2016	22.1	10.1	64.5	17:00	0	100.0
17/06/2016	25.7	8.7	37.9	23:00	0	100.0
18/06/2016	26.1	12.7	46.9	12:00	0	100.0
19/06/2016	15.7	-0.9	37.0	00:00	0	100.0
20/06/2016	3.5	-1.0	8.7	02:00	0	91.7
21/06/2016	6.4	1.4	14.2	14:00	0	95.8
22/06/2016	9.3	-0.8	23.8	12:00	0	91.7
23/06/2016	7.6	1.3	14.9	22:00	0	100.0
24/06/2016	7.1	2.0	15.8	00:00	0	91.7
25/06/2016	13.3	5.1	45.4	21:00	0	100.0
26/06/2016	17.9	9.0	37.4	21:00	0	100.0
27/06/2016	14.7	-0.4	37.0	04:00	0	95.8
28/06/2016	5.8	0.2	11.7	18:00	0	100.0
29/06/2016	19.0	8.3	39.4	19:00	0	100.0
30/06/2016	24.8	15.9	37.7	21:00	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



## 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 June 2016					
Sample Date	Station 1 AHS ( $\mu\text{g}/\text{m}^3$ )	Station 2 KSHS ( $\mu\text{g}/\text{m}^3$ )	Station 3 LS ( $\mu\text{g}/\text{m}^3$ )	Station 4 ALOC ( $\mu\text{g}/\text{m}^3$ )	Station 5 CS ( $\mu\text{g}/\text{m}^3$ )
05/06/2016	21	12	10	8	11
11/06/2016	20	12	16	13	22
17/06/2016	26	30	22	28	36
23/06/2016	17	7	6	8	6
29/06/2016	26	21	18	16	20
Monthly Average	22.0	16.4	14.4	14.6	19.0

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
1/06/2016 05:15:00	30/06/2016 21:35:00	PM <sub>2.5</sub>	Intermittent instrument faults – error code logged	12/07/2016	CP
2/06/2016 13:15:00	29/06/2016 15:50:00	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data less than -1.0 µg/m <sup>3</sup>	12/07/2016	CP
3/06/2016 13:10:00	3/06/2016 14:00:00	PM <sub>10</sub>	Maintenance	12/07/2016	CP
4/06/2016 08:15:00	6/06/2016 16:15:00	All parameters	Power Interruption	12/07/2016	CP
6/06/2016 16:20:00	6/06/2016 17:25:00	PM <sub>10</sub>	Instrument warm-up after power interruption	12/07/2016	CP
6/06/2016 16:20:00	6/06/2016 18:50:00	PM <sub>2.5</sub>	Instrument warm-up after power interruption	12/07/2016	CP
6/06/2016 16:20:00	7/06/2016 00:05:00	CO	Instrument warm-up after power interruption	12/07/2016	CP
21/06/2016 01:00:00	21/06/2016 11:25:00	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Instrument fault	12/07/2016	CP
21/06/2016 11:30:00	21/06/2016 14:50:00	All parameters	Maintenance	12/07/2016	CP

## 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
1/06/2016 02:15:00	30/06/2016 23:55:00	NO, NO <sub>2</sub> , NO <sub>x</sub>	Intermittent communication errors	12/07/2016	CP
22/06/2016 08:25:00	22/06/2016 09:35:00	All parameters	Maintenance	12/07/2016	CP

## 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
1/06/2016 20:10:00	21/06/2016 08:15:00	PM <sub>2.5</sub>	Intermittent instrument faults – error code logged	12/07/2016	CP
2/06/2016 13:20:00	27/06/2016 13:35:00	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data less than -1.0 µg/m <sup>3</sup>	12/07/2016	CP
3/06/2016 12:50:00	3/06/2016 13:30:00	PM <sub>10</sub>	Maintenance	12/07/2016	CP
21/06/2016 15:40:00	21/06/2016 17:50:00	All parameters	Maintenance	12/07/2016	CP
30/06/2016 08:25:00	30/06/2016 23:55:00	All parameters	Logger fault	12/07/2016	CP

## 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
1/06/2016 01:05:00	30/06/2016 23:05:00	PM <sub>2.5</sub>	Intermittent instrument faults – error code logged	12/07/2016	CP
2/06/2016 04:55:00	27/06/2016 13:15:00	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data less than -1.0 µg/m <sup>3</sup>	12/07/2016	CP
3/06/2016 11:55:00	3/06/2016 12:50:00	PM <sub>10</sub>	Maintenance	12/07/2016	CP
5/06/2016 00:35:00	8/06/2016 02:50:00	CO	Intermittent Instrument faults	12/07/2016	CP
21/06/2016 00:55:00	21/06/2016 02:55:00	CO	Intermittent Instrument faults	12/07/2016	CP
22/06/2016 12:05:00	22/06/2016 13:15:00	All parameters	Maintenance	12/07/2016	CP
25/06/2016 00:25:00	25/06/2016 15:10:00	CO	Instrument fault	12/07/2016	CP



## Station 5 Cartwright St

Station 5 Cartwright Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/06/2016 01:05:00	30/06/2016 23:05:00	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent instrument faults – error code logged	12/07/2016	CP
4/06/2016 03:55:00	27/06/2016 15:50:00	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data less than -1.0 µg/m <sup>3</sup>	12/07/2016	CP
20/06/2016 04:55:00	20/06/2016 05:50:00	PM <sub>2.5</sub> , PM <sub>10</sub>	PM <sub>2.5</sub> > PM <sub>10</sub>	12/07/2016	CP
22/06/2016 09:45:00	22/06/2016 11:50:00	All parameters	Maintenance	12/07/2016	CP
24/06/2016 05:55:00	24/06/2016 06:50:00	PM <sub>2.5</sub> , PM <sub>10</sub>	PM <sub>2.5</sub> > PM <sub>10</sub>	12/07/2016	CP
24/06/2016 20:55:00	24/06/2016 21:50:00	PM <sub>2.5</sub> , PM <sub>10</sub>	PM <sub>2.5</sub> > PM <sub>10</sub>	12/07/2016	CP