

3 July 2019

Julie Thomas
Environmental Superintendent
Muswellbrook Coal Company Ltd

Dear Julie,

Ambient Air Monitoring - Muscle Creek Rd - June 2019

1.0 Introduction

AECOM Australia Pty Ltd (AECOM) was appointed by Muswellbrook Coal Company Ltd (MCC) to provide static real time atmospheric monitoring for Hydrogen Sulfide (H₂S) and Sulfur Dioxide (SO₂) at one location on Muscle Creek Road, Muswellbrook.

Monitoring is conducted using a GrayWolf TG-501 Toxic Gas Probe with Hydrogen Sulfide and Sulfur Dioxide sensors capable of reading in the parts per billion range. Data is recorded as 5 minute average concentrations on a tablet computer with live data then transmitted to an online account at regular intervals where it can be viewed and downloaded for further analysis by MCC and AECOM staff.

Meteorology data is obtained from the onsite MCC weather station, located approximately 6km to the northwest of the monitoring location. Wind data will be analysed each month with the aim of identifying any trends or relationships between the wind data and monitoring results. Results are reported on a monthly basis with this report presenting results for the period 1 June to 30 June 2019.

2.0 Site Location

The monitoring location on Muscle Creek Rd was chosen due to it being downwind of the mine site during the prevailing north westerly winds. Siting was performed in accordance with AS 3580.1.1 2016.



Figure 1 Muscle Creek Rd Monitoring Location

3.0 Assessment Criteria

The gaseous ambient air quality criteria in **Table 1** and **Table 2** are reproduced from the MCC Development Consent (DA 205/2002, Condition 28).

Table 1 H₂S Assessment Criteria

Analyte Averaging Period	Criteria	Unit
H ₂ S 1 Hour Average	500	ppb
H ₂ S 24 Hour Average	100	ppb

Table 2 SO₂ Assessment Criteria

Analyte Averaging Period	Criteria	Unit
SO ₂ 1 Hour Average	200	ppb
SO ₂ 24 Hour Average	80	ppb

4.0 Methodology

Monitoring is performed by a GrayWolf TG-501 Toxic Gas Probe fitted with H₂S and SO₂ sensors. The unit is enclosed in a weatherproof case with the sensor at a height of approximately 1.8m above the ground. While the sensor is designed as a passive sampler, a small fan has been installed to generate airflow past the sensor ensuring adequate air movement to provide a representative atmosphere for gas analysis.

The GrayWolf monitor measures gasses in parts per million (ppm) with the following limits of detection (LOD).

- H₂S: 0.01 ppm; and
- SO₂: 0.01 ppm.

Readings are logged in parts per million (ppm) and are converted to parts per billion (ppb) for reporting purposes, with the LOD's being 10 ppb for both H₂S and SO₂. For the calculation of 1hr and 24hr averages, where the instrument returns a zero reading, half the instrument LOD value is used (5 ppb).

5.0 Results

A summary of the H₂S and SO₂ results for June 2019 is presented in **Table 3**. **Table 4** provides a summary of 24hr (midnight to midnight) averages along with maximum 1hr averages for each day. Data is shown graphically against the relevant criteria in **Figure 2** and **Figure 3** with 1 hour data attached in **Tables 5** and **6**. It should be noted that the plots present 1 hour rolling averages calculated from raw data.

Table 3 Gaseous Monitoring Results – June 2019

Parameter	Units	Hydrogen Sulfide (H ₂ S)	Sulfur Dioxide (SO ₂)
Maximum 1 Hour Average	ppb	96.3	34.2
Maximum 24 Hour Average	ppb	12.6	8.4
Number of Exceedances – 1 Hour	-	0	0
Number of Exceedances – 24 Hour	-	0	0

There were no exceedances of the applicable criteria for either H₂S or SO₂ for the June 2019 monitoring period. The data capture rates for June 2019 were 76.76% for both H₂S and SO₂.

Table 4 24hr Averages (Midnight to Midnight) and Maximum 1hr Averages – June 2019

Date	Hydrogen Sulfide (H ₂ S) (ppb)		Sulfur Dioxide (SO ₂) (ppb)	
	24hr Average	Maximum 1hr Average	24hr Average	Maximum 1hr Average
1/06/2019	9.4	41.3	5.1	6.3
2/06/2019	9.2	28.3	5	5.4
3/06/2019	6.2	22.1	5*	5*
4/06/2019	5.2	7.1	5*	5*
5/06/2019	6.0	12.9	5*	5*
6/06/2019	12.1	96.3	6.3	19.6
7/06/2019	11.0	26.7	5.3	10.4
8/06/2019	9.5	22.9	5.5	8.3
9/06/2019	11.6	41.7	6.0	12.1
10/06/2019	7.7	19.5	5.7	9.5
11/06/2019	10.2	51.7	5.8	15.8
12/06/2019	5.8	22.1	5.1	6.7
13/06/2019	6.5	19.2	5*	5*
14/06/2019	9.2	35.8	5.5	8.8
15/06/2019	12.6	61.7	7.9	34.2
16/06/2019	8.5	30.0	5.3	7.9
17/06/2019	8.1	32.1	5.3	8.3
18/06/2019	No Data	No Data	No Data	No Data
19/06/2019	No Data	No Data	No Data	No Data
20/06/2019	No Data	No Data	No Data	No Data
21/06/2019	No Data	No Data	No Data	No Data
22/06/2019	No Data	No Data	No Data	No Data
23/06/2019	No Data	No Data	No Data	No Data
24/06/2019	Insufficient Data	25.8	Insufficient Data	5*
25/06/2019	5*	5*	5*	5*
26/06/2019	5.1	6.3	5.0	5.4
27/06/2019	5.1	6.7	5.1	6.7
28/06/2019	11.5	45.0	8.4	29.2
29/06/2019	10.1	28.8	6.7	10.0
30/06/2019	7.4	34.2	5.2	8.8
Criteria	100	500	80	200
Capture Rate	76.76%		76.76%	

* All raw data returned less than the instrument limit of detection. Half of the LOD value reported. Refer **Section 4.0**.

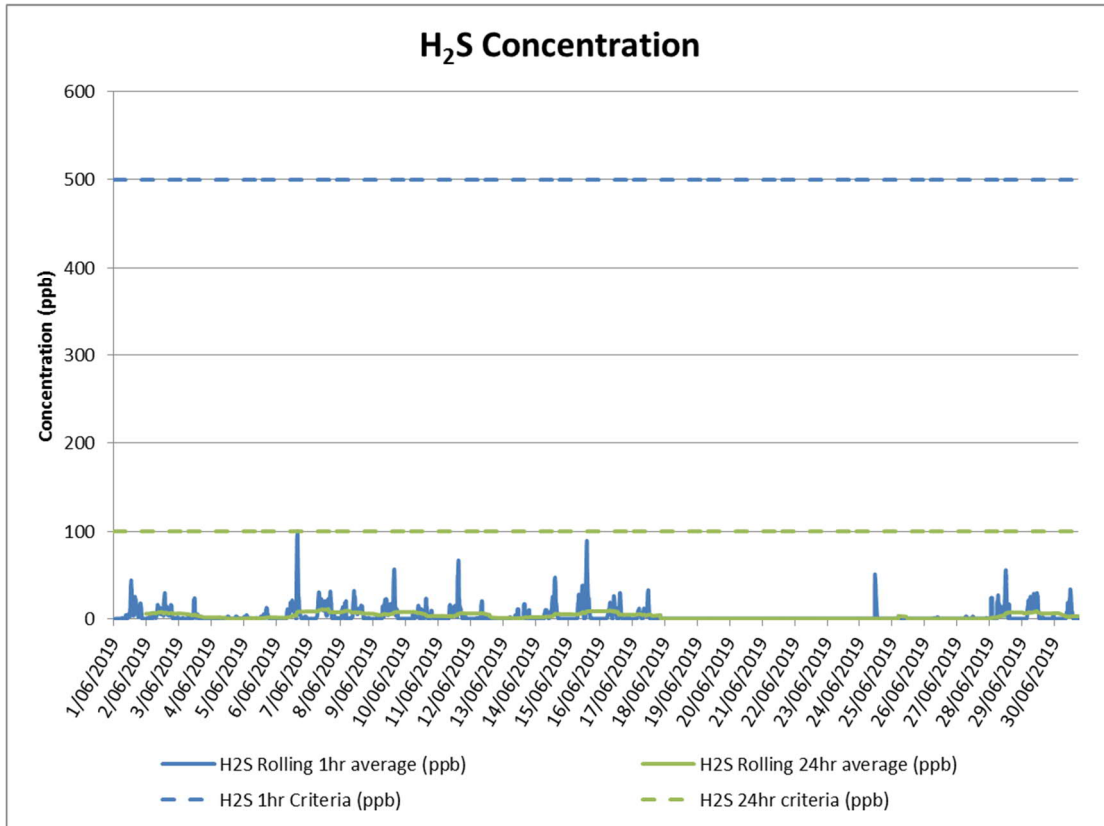


Figure 2 H₂S Concentrations – June 2019

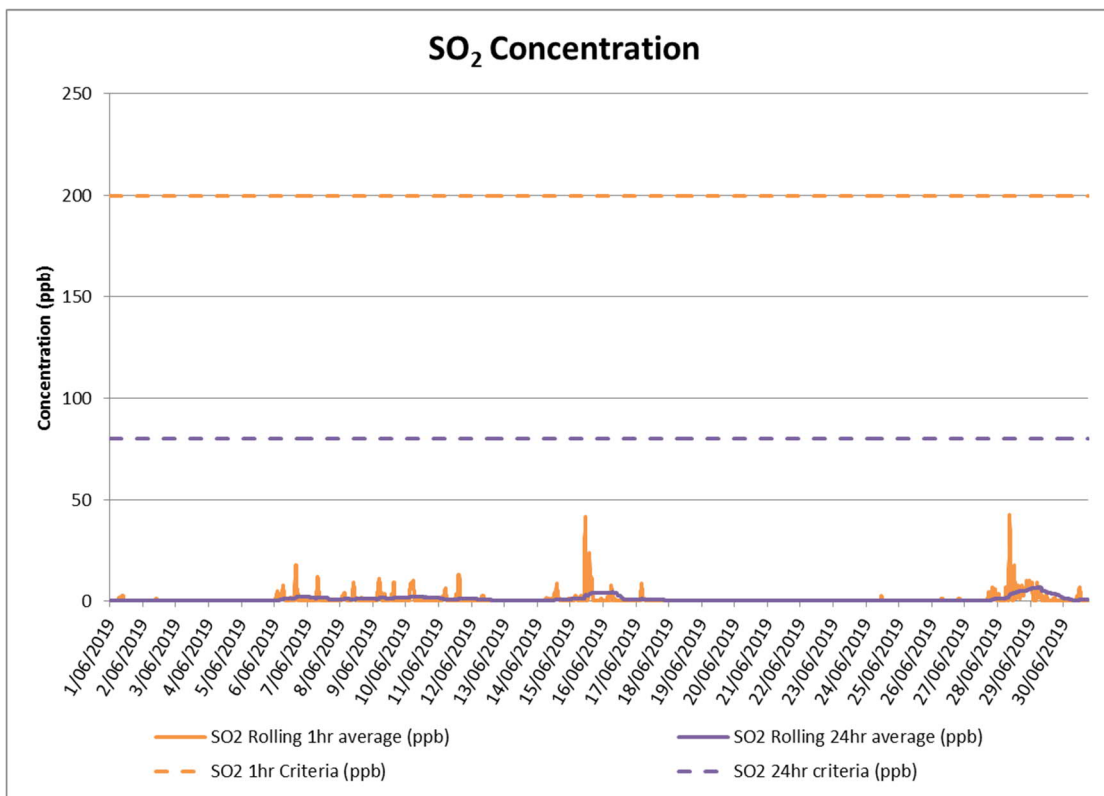


Figure 3 SO₂ Concentrations – June 2019

5.1 Meteorology

Meteorology data sourced from MCC's onsite meteorology station for June indicated winds were variable but predominately from the North West and South East directions. The average wind speed for the month was 1.9 m/s.

When winds are from the North West, the monitoring location is generally down wind of the mine site. A wind rose for this monitoring period can be found attached as **Figure 4**.

6.0 Conclusion

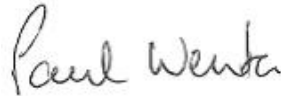
AECOM commenced ambient air quality monitoring on Muscle Creek Rd on 26 July 2017. Monitoring results for the period 1 to 30 June 2019 returned no exceedances of either the 1hr or 24hr criteria for H₂S or SO₂. Wind data obtained from the MCC meteorology station indicates that winds for this period were variable but predominantly from the North West and South East placing the monitoring location generally down wind of the mine site for a significant period of June 2019.

Yours faithfully,



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encl: Hourly Monitoring Data, Wind Rose

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Table 5 H₂S 1hr Data (ppb) – June 2019

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
1/06/2019	0	5	2/06/2019	0	5	3/06/2019	0	5	4/06/2019	0	5	5/06/2019	0	5.4
1/06/2019	1	5	2/06/2019	1	5.4	3/06/2019	1	5	4/06/2019	1	5	5/06/2019	1	5.8
1/06/2019	2	5	2/06/2019	2	5.8	3/06/2019	2	5	4/06/2019	2	5	5/06/2019	2	7.1
1/06/2019	3	5	2/06/2019	3	8.8	3/06/2019	3	5.4	4/06/2019	3	5	5/06/2019	3	5.4
1/06/2019	4	5	2/06/2019	4	6.7	3/06/2019	4	5	4/06/2019	4	5	5/06/2019	4	5
1/06/2019	5	5.4	2/06/2019	5	7.5	3/06/2019	5	5	4/06/2019	5	5	5/06/2019	5	5
1/06/2019	6	5	2/06/2019	6	5.9	3/06/2019	6	5	4/06/2019	6	5	5/06/2019	6	5.5
1/06/2019	7	5	2/06/2019	7	7.5	3/06/2019	7	6.3	4/06/2019	7	5	5/06/2019	7	5
1/06/2019	8	7.1	2/06/2019	8	15.4	3/06/2019	8	5.4	4/06/2019	8	5	5/06/2019	8	5
1/06/2019	9	6.3	2/06/2019	9	12.1	3/06/2019	9	5	4/06/2019	9	5	5/06/2019	9	5.4
1/06/2019	10	7.9	2/06/2019	10	10.0	3/06/2019	10	6.7	4/06/2019	10	5	5/06/2019	10	5.4
1/06/2019	11	6.3	2/06/2019	11	8.8	3/06/2019	11	22.1	4/06/2019	11	5	5/06/2019	11	5
1/06/2019	12	41.3	2/06/2019	12	7.9	3/06/2019	12	7.9	4/06/2019	12	6.7	5/06/2019	12	5
1/06/2019	13	10.4	2/06/2019	13	28.3	3/06/2019	13	6.3	4/06/2019	13	5	5/06/2019	13	6.7
1/06/2019	14	9.6	2/06/2019	14	11.3	3/06/2019	14	7.9	4/06/2019	14	5	5/06/2019	14	7.1
1/06/2019	15	23.8	2/06/2019	15	12.9	3/06/2019	15	5	4/06/2019	15	5	5/06/2019	15	8.8
1/06/2019	16	16.7	2/06/2019	16	8.3	3/06/2019	16	5	4/06/2019	16	5	5/06/2019	16	5.4
1/06/2019	17	7.5	2/06/2019	17	11.7	3/06/2019	17	5	4/06/2019	17	5	5/06/2019	17	12.9
1/06/2019	18	8.8	2/06/2019	18	15.4	3/06/2019	18	5	4/06/2019	18	7.1	5/06/2019	18	9.2
1/06/2019	19	17.9	2/06/2019	19	5.8	3/06/2019	19	5	4/06/2019	19	5	5/06/2019	19	5
1/06/2019	20	6.7	2/06/2019	20	5	3/06/2019	20	5	4/06/2019	20	5.4	5/06/2019	20	5
1/06/2019	21	5	2/06/2019	21	5.4	3/06/2019	21	5	4/06/2019	21	5	5/06/2019	21	5
1/06/2019	22	5	2/06/2019	22	5	3/06/2019	22	5	4/06/2019	22	5	5/06/2019	22	5
1/06/2019	23	5	2/06/2019	23	5.8	3/06/2019	23	5	4/06/2019	23	5	5/06/2019	23	5
Maximum		41.3			28.3			22.1			7.1			12.9

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
6/06/2019	0	5	7/06/2019	0	5	8/06/2019	0	5	9/06/2019	0	5	10/06/2019	0	5
6/06/2019	1	5	7/06/2019	1	5	8/06/2019	1	5	9/06/2019	1	5	10/06/2019	1	5
6/06/2019	2	5	7/06/2019	2	5	8/06/2019	2	14.2	9/06/2019	2	5	10/06/2019	2	5
6/06/2019	3	5	7/06/2019	3	5	8/06/2019	3	9.2	9/06/2019	3	5	10/06/2019	3	5
6/06/2019	4	5	7/06/2019	4	5	8/06/2019	4	22.7	9/06/2019	4	7.1	10/06/2019	4	5
6/06/2019	5	5	7/06/2019	5	5	8/06/2019	5	5.8	9/06/2019	5	5.4	10/06/2019	5	5
6/06/2019	6	5	7/06/2019	6	5.5	8/06/2019	6	5	9/06/2019	6	5	10/06/2019	6	5
6/06/2019	7	5	7/06/2019	7	6.3	8/06/2019	7	5	9/06/2019	7	5	10/06/2019	7	11.3
6/06/2019	8	5.4	7/06/2019	8	26.7	8/06/2019	8	5.4	9/06/2019	8	17.1	10/06/2019	8	7.1
6/06/2019	9	12.9	7/06/2019	9	17.1	8/06/2019	9	5.8	9/06/2019	9	12.9	10/06/2019	9	6.3
6/06/2019	10	6.7	7/06/2019	10	23.3	8/06/2019	10	21.3	9/06/2019	10	20.8	10/06/2019	10	10.4
6/06/2019	11	20.0	7/06/2019	11	18.3	8/06/2019	11	22.9	9/06/2019	11	17.1	10/06/2019	11	15.8
6/06/2019	12	16.7	7/06/2019	12	12.5	8/06/2019	12	12.1	9/06/2019	12	8.3	10/06/2019	12	5
6/06/2019	13	12.5	7/06/2019	13	17.1	8/06/2019	13	8.3	9/06/2019	13	18.3	10/06/2019	13	13.8
6/06/2019	14	10.8	7/06/2019	14	7.5	8/06/2019	14	14.2	9/06/2019	14	15.4	10/06/2019	14	5
6/06/2019	15	8.3	7/06/2019	15	23.3	8/06/2019	15	11.7	9/06/2019	15	19.6	10/06/2019	15	5.4
6/06/2019	16	96.3	7/06/2019	16	16.3	8/06/2019	16	15.0	9/06/2019	16	41.7	10/06/2019	16	19.5
6/06/2019	17	24.2	7/06/2019	17	25.8	8/06/2019	17	9.6	9/06/2019	17	25.0	10/06/2019	17	11.3
6/06/2019	18	10.0	7/06/2019	18	5.4	8/06/2019	18	5	9/06/2019	18	8.3	10/06/2019	18	5
6/06/2019	19	5.4	7/06/2019	19	5.4	8/06/2019	19	5.4	9/06/2019	19	12.1	10/06/2019	19	5
6/06/2019	20	5	7/06/2019	20	6.7	8/06/2019	20	5	9/06/2019	20	5	10/06/2019	20	10.0
6/06/2019	21	5	7/06/2019	21	5.4	8/06/2019	21	5.4	9/06/2019	21	5	10/06/2019	21	7.5
6/06/2019	22	7.1	7/06/2019	22	5.4	8/06/2019	22	5	9/06/2019	22	5	10/06/2019	22	5.4
6/06/2019	23	5	7/06/2019	23	5.4	8/06/2019	23	5	9/06/2019	23	5	10/06/2019	23	5
Maximum		96.3			26.7			22.9			41.7			19.5

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
11/06/2019	0	5	12/06/2019	0	5	13/06/2019	0	5	14/06/2019	0	5	15/06/2019	0	5
11/06/2019	1	5	12/06/2019	1	5	13/06/2019	1	5	14/06/2019	1	5	15/06/2019	1	5
11/06/2019	2	5	12/06/2019	2	5	13/06/2019	2	5	14/06/2019	2	5	15/06/2019	2	5
11/06/2019	3	5	12/06/2019	3	5	13/06/2019	3	5	14/06/2019	3	5	15/06/2019	3	5
11/06/2019	4	5	12/06/2019	4	5	13/06/2019	4	5	14/06/2019	4	5	15/06/2019	4	5
11/06/2019	5	5	12/06/2019	5	5	13/06/2019	5	5	14/06/2019	5	5	15/06/2019	5	5
11/06/2019	6	5.5	12/06/2019	6	5.5	13/06/2019	6	5	14/06/2019	6	5	15/06/2019	6	5
11/06/2019	7	5	12/06/2019	7	5	13/06/2019	7	6.3	14/06/2019	7	5	15/06/2019	7	5
11/06/2019	8	6.7	12/06/2019	8	5.4	13/06/2019	8	5	14/06/2019	8	5	15/06/2019	8	5
11/06/2019	9	5	12/06/2019	9	5	13/06/2019	9	5	14/06/2019	9	9.6	15/06/2019	9	5.4
11/06/2019	10	17.9	12/06/2019	10	22.1	13/06/2019	10	5	14/06/2019	10	13.3	15/06/2019	10	20.0
11/06/2019	11	7.1	12/06/2019	11	5	13/06/2019	11	7.9	14/06/2019	11	6.7	15/06/2019	11	18.8
11/06/2019	12	12.5	12/06/2019	12	5.4	13/06/2019	12	5	14/06/2019	12	5	15/06/2019	12	13.3
11/06/2019	13	11.7	12/06/2019	13	5.4	13/06/2019	13	14.6	14/06/2019	13	11.3	15/06/2019	13	39.2
11/06/2019	14	12.9	12/06/2019	14	5	13/06/2019	14	5	14/06/2019	14	14.2	15/06/2019	14	8.3
11/06/2019	15	11.7	12/06/2019	15	5	13/06/2019	15	5	14/06/2019	15	19.6	15/06/2019	15	5.4
11/06/2019	16	51.7	12/06/2019	16	5.4	13/06/2019	16	5	14/06/2019	16	25.4	15/06/2019	16	61.7
11/06/2019	17	23.3	12/06/2019	17	5	13/06/2019	17	5.4	14/06/2019	17	35.8	15/06/2019	17	39.2
11/06/2019	18	14.2	12/06/2019	18	5	13/06/2019	18	19.2	14/06/2019	18	9.6	15/06/2019	18	21.3
11/06/2019	19	7.5	12/06/2019	19	5	13/06/2019	19	5	14/06/2019	19	5.4	15/06/2019	19	5.4
11/06/2019	20	5.4	12/06/2019	20	5	13/06/2019	20	5	14/06/2019	20	5	15/06/2019	20	5.4
11/06/2019	21	5.4	12/06/2019	21	5	13/06/2019	21	11.7	14/06/2019	21	5	15/06/2019	21	5
11/06/2019	22	6.3	12/06/2019	22	5	13/06/2019	22	5.8	14/06/2019	22	5	15/06/2019	22	5
11/06/2019	23	5	12/06/2019	23	5	13/06/2019	23	5	14/06/2019	23	5	15/06/2019	23	5
Maximum		51.7			22.1			19.2			35.8			61.7

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
16/06/2019	0	5	17/06/2019	0	5.4	18/06/2019	0	No Data	19/06/2019	0	No Data	20/06/2019	0	No Data
16/06/2019	1	5	17/06/2019	1	5	18/06/2019	1	No Data	19/06/2019	1	No Data	20/06/2019	1	No Data
16/06/2019	2	5	17/06/2019	2	5	18/06/2019	2	No Data	19/06/2019	2	No Data	20/06/2019	2	No Data
16/06/2019	3	5	17/06/2019	3	5	18/06/2019	3	No Data	19/06/2019	3	No Data	20/06/2019	3	No Data
16/06/2019	4	5	17/06/2019	4	5	18/06/2019	4	No Data	19/06/2019	4	No Data	20/06/2019	4	No Data
16/06/2019	5	5	17/06/2019	5	5	18/06/2019	5	No Data	19/06/2019	5	No Data	20/06/2019	5	No Data
16/06/2019	6	5	17/06/2019	6	6.8	18/06/2019	6	No Data	19/06/2019	6	No Data	20/06/2019	6	No Data
16/06/2019	7	5.4	17/06/2019	7	10.8	18/06/2019	7	No Data	19/06/2019	7	No Data	20/06/2019	7	No Data
16/06/2019	8	6.7	17/06/2019	8	8.8	18/06/2019	8	No Data	19/06/2019	8	No Data	20/06/2019	8	No Data
16/06/2019	9	13.8	17/06/2019	9	6.3	18/06/2019	9	No Data	19/06/2019	9	No Data	20/06/2019	9	No Data
16/06/2019	10	12.9	17/06/2019	10	5	18/06/2019	10	No Data	19/06/2019	10	No Data	20/06/2019	10	No Data
16/06/2019	11	10.0	17/06/2019	11	12.9	18/06/2019	11	No Data	19/06/2019	11	No Data	20/06/2019	11	No Data
16/06/2019	12	13.3	17/06/2019	12	7.9	18/06/2019	12	No Data	19/06/2019	12	No Data	20/06/2019	12	No Data
16/06/2019	13	19.2	17/06/2019	13	7.1	18/06/2019	13	No Data	19/06/2019	13	No Data	20/06/2019	13	No Data
16/06/2019	14	14.2	17/06/2019	14	32.1	18/06/2019	14	No Data	19/06/2019	14	No Data	20/06/2019	14	No Data
16/06/2019	15	5	17/06/2019	15	7.1	18/06/2019	15	No Data	19/06/2019	15	No Data	20/06/2019	15	No Data
16/06/2019	16	6.3	17/06/2019	16	5	18/06/2019	16	No Data	19/06/2019	16	No Data	20/06/2019	16	No Data
16/06/2019	17	30.0	17/06/2019	17	5	18/06/2019	17	No Data	19/06/2019	17	No Data	20/06/2019	17	No Data
16/06/2019	18	6.7	17/06/2019	18	No Data	18/06/2019	18	No Data	19/06/2019	18	No Data	20/06/2019	18	No Data
16/06/2019	19	5	17/06/2019	19	No Data	18/06/2019	19	No Data	19/06/2019	19	No Data	20/06/2019	19	No Data
16/06/2019	20	5	17/06/2019	20	No Data	18/06/2019	20	No Data	19/06/2019	20	No Data	20/06/2019	20	No Data
16/06/2019	21	5	17/06/2019	21	No Data	18/06/2019	21	No Data	19/06/2019	21	No Data	20/06/2019	21	No Data
16/06/2019	22	5.4	17/06/2019	22	No Data	18/06/2019	22	No Data	19/06/2019	22	No Data	20/06/2019	22	No Data
16/06/2019	23	5.8	17/06/2019	23	No Data	18/06/2019	23	No Data	19/06/2019	23	No Data	20/06/2019	23	No Data
Maximum		30.0			32.1			No Data			No Data			No Data

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
21/06/2019	0	No Data	22/06/2019	0	No Data	23/06/2019	0	No Data	24/06/2019	0	No Data	25/06/2019	0	5
21/06/2019	1	No Data	22/06/2019	1	No Data	23/06/2019	1	No Data	24/06/2019	1	No Data	25/06/2019	1	5
21/06/2019	2	No Data	22/06/2019	2	No Data	23/06/2019	2	No Data	24/06/2019	2	No Data	25/06/2019	2	5
21/06/2019	3	No Data	22/06/2019	3	No Data	23/06/2019	3	No Data	24/06/2019	3	No Data	25/06/2019	3	5
21/06/2019	4	No Data	22/06/2019	4	No Data	23/06/2019	4	No Data	24/06/2019	4	No Data	25/06/2019	4	5
21/06/2019	5	No Data	22/06/2019	5	No Data	23/06/2019	5	No Data	24/06/2019	5	No Data	25/06/2019	5	5
21/06/2019	6	No Data	22/06/2019	6	No Data	23/06/2019	6	No Data	24/06/2019	6	No Data	25/06/2019	6	5
21/06/2019	7	No Data	22/06/2019	7	No Data	23/06/2019	7	No Data	24/06/2019	7	No Data	25/06/2019	7	5
21/06/2019	8	No Data	22/06/2019	8	No Data	23/06/2019	8	No Data	24/06/2019	8	No Data	25/06/2019	8	5
21/06/2019	9	No Data	22/06/2019	9	No Data	23/06/2019	9	No Data	24/06/2019	9	No Data	25/06/2019	9	5
21/06/2019	10	No Data	22/06/2019	10	No Data	23/06/2019	10	No Data	24/06/2019	10	No Data	25/06/2019	10	5
21/06/2019	11	No Data	22/06/2019	11	No Data	23/06/2019	11	No Data	24/06/2019	11	No Data	25/06/2019	11	5
21/06/2019	12	No Data	22/06/2019	12	No Data	23/06/2019	12	No Data	24/06/2019	12	No Data	25/06/2019	12	5
21/06/2019	13	No Data	22/06/2019	13	No Data	23/06/2019	13	No Data	24/06/2019	13	No Data	25/06/2019	13	5
21/06/2019	14	No Data	22/06/2019	14	No Data	23/06/2019	14	No Data	24/06/2019	14	No Data	25/06/2019	14	5
21/06/2019	15	No Data	22/06/2019	15	No Data	23/06/2019	15	No Data	24/06/2019	15	No Data	25/06/2019	15	5
21/06/2019	16	No Data	22/06/2019	16	No Data	23/06/2019	16	No Data	24/06/2019	16	25.8	25/06/2019	16	5
21/06/2019	17	No Data	22/06/2019	17	No Data	23/06/2019	17	No Data	24/06/2019	17	5.8	25/06/2019	17	5
21/06/2019	18	No Data	22/06/2019	18	No Data	23/06/2019	18	No Data	24/06/2019	18	5	25/06/2019	18	5
21/06/2019	19	No Data	22/06/2019	19	No Data	23/06/2019	19	No Data	24/06/2019	19	5	25/06/2019	19	5
21/06/2019	20	No Data	22/06/2019	20	No Data	23/06/2019	20	No Data	24/06/2019	20	5	25/06/2019	20	5
21/06/2019	21	No Data	22/06/2019	21	No Data	23/06/2019	21	No Data	24/06/2019	21	5	25/06/2019	21	5
21/06/2019	22	No Data	22/06/2019	22	No Data	23/06/2019	22	No Data	24/06/2019	22	5	25/06/2019	22	5
21/06/2019	23	No Data	22/06/2019	23	No Data	23/06/2019	23	No Data	24/06/2019	23	5	25/06/2019	23	5
Maximum		No Data			No Data			No Data			25.8			5*

Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average	Date	Hour	H ₂ S 1hr Average
26/06/2019	0	5	27/06/2019	0	5	28/06/2019	0	5	29/06/2019	0	5	30/06/2019	0	5
26/06/2019	1	5	27/06/2019	1	5	28/06/2019	1	5	29/06/2019	1	5	30/06/2019	1	5
26/06/2019	2	5	27/06/2019	2	5	28/06/2019	2	5.4	29/06/2019	2	5	30/06/2019	2	5
26/06/2019	3	5	27/06/2019	3	5	28/06/2019	3	5	29/06/2019	3	5	30/06/2019	3	5
26/06/2019	4	5	27/06/2019	4	5	28/06/2019	4	5	29/06/2019	4	5	30/06/2019	4	7.5
26/06/2019	5	5	27/06/2019	5	5	28/06/2019	5	5	29/06/2019	5	5	30/06/2019	5	5
26/06/2019	6	5	27/06/2019	6	5	28/06/2019	6	30.5	29/06/2019	6	5	30/06/2019	6	5
26/06/2019	7	5	27/06/2019	7	5	28/06/2019	7	5	29/06/2019	7	5	30/06/2019	7	5
26/06/2019	8	5	27/06/2019	8	5	28/06/2019	8	5	29/06/2019	8	5	30/06/2019	8	5
26/06/2019	9	5	27/06/2019	9	5	28/06/2019	9	5	29/06/2019	9	13.3	30/06/2019	9	5
26/06/2019	10	5	27/06/2019	10	5	28/06/2019	10	5	29/06/2019	10	15.4	30/06/2019	10	5
26/06/2019	11	5	27/06/2019	11	6.7	28/06/2019	11	26.3	29/06/2019	11	13.8	30/06/2019	11	5
26/06/2019	12	5.4	27/06/2019	12	5	28/06/2019	12	17.1	29/06/2019	12	24.6	30/06/2019	12	5.4
26/06/2019	13	5	27/06/2019	13	5	28/06/2019	13	12.9	29/06/2019	13	12.5	30/06/2019	13	5.4
26/06/2019	14	6.3	27/06/2019	14	5	28/06/2019	14	7.9	29/06/2019	14	27.9	30/06/2019	14	5.8
26/06/2019	15	5	27/06/2019	15	5	28/06/2019	15	17.1	29/06/2019	15	15.0	30/06/2019	15	20.4
26/06/2019	16	5	27/06/2019	16	6.3	28/06/2019	16	19.6	29/06/2019	16	28.8	30/06/2019	16	6.7
26/06/2019	17	5	27/06/2019	17	5	28/06/2019	17	45.0	29/06/2019	17	14.2	30/06/2019	17	34.2
26/06/2019	18	5	27/06/2019	18	5	28/06/2019	18	8.8	29/06/2019	18	5	30/06/2019	18	10.8
26/06/2019	19	5	27/06/2019	19	5	28/06/2019	19	20.5	29/06/2019	19	5	30/06/2019	19	6.3
26/06/2019	20	5	27/06/2019	20	5	28/06/2019	20	5.4	29/06/2019	20	5.8	30/06/2019	20	5
26/06/2019	21	5	27/06/2019	21	5	28/06/2019	21	5	29/06/2019	21	5	30/06/2019	21	5
26/06/2019	22	5	27/06/2019	22	5	28/06/2019	22	5	29/06/2019	22	5	30/06/2019	22	5
26/06/2019	23	5	27/06/2019	23	5	28/06/2019	23	5	29/06/2019	23	5	30/06/2019	23	5
Maximum		6.3			6.7			45.0			28.8			34.2

Table 6 SO₂ 1hr Data (ppb) – June 2019

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
1/06/2019	0	5	2/06/2019	0	5	3/06/2019	0	5	4/06/2019	0	5	5/06/2019	0	5
1/06/2019	1	5	2/06/2019	1	5	3/06/2019	1	5	4/06/2019	1	5	5/06/2019	1	5
1/06/2019	2	5	2/06/2019	2	5	3/06/2019	2	5	4/06/2019	2	5	5/06/2019	2	5
1/06/2019	3	5	2/06/2019	3	5	3/06/2019	3	5	4/06/2019	3	5	5/06/2019	3	5
1/06/2019	4	5	2/06/2019	4	5	3/06/2019	4	5	4/06/2019	4	5	5/06/2019	4	5
1/06/2019	5	5	2/06/2019	5	5	3/06/2019	5	5	4/06/2019	5	5	5/06/2019	5	5
1/06/2019	6	5.9	2/06/2019	6	5	3/06/2019	6	5	4/06/2019	6	5	5/06/2019	6	5
1/06/2019	7	5	2/06/2019	7	5	3/06/2019	7	5	4/06/2019	7	5	5/06/2019	7	5
1/06/2019	8	6.3	2/06/2019	8	5	3/06/2019	8	5	4/06/2019	8	5	5/06/2019	8	5
1/06/2019	9	5.4	2/06/2019	9	5.4	3/06/2019	9	5	4/06/2019	9	5	5/06/2019	9	5
1/06/2019	10	5	2/06/2019	10	5	3/06/2019	10	5	4/06/2019	10	5	5/06/2019	10	5
1/06/2019	11	5	2/06/2019	11	5	3/06/2019	11	5	4/06/2019	11	5	5/06/2019	11	5
1/06/2019	12	5	2/06/2019	12	5	3/06/2019	12	5	4/06/2019	12	5	5/06/2019	12	5
1/06/2019	13	5	2/06/2019	13	5	3/06/2019	13	5	4/06/2019	13	5	5/06/2019	13	5
1/06/2019	14	5	2/06/2019	14	5	3/06/2019	14	5	4/06/2019	14	5	5/06/2019	14	5
1/06/2019	15	5	2/06/2019	15	5	3/06/2019	15	5	4/06/2019	15	5	5/06/2019	15	5
1/06/2019	16	5	2/06/2019	16	5	3/06/2019	16	5	4/06/2019	16	5	5/06/2019	16	5
1/06/2019	17	5	2/06/2019	17	5	3/06/2019	17	5	4/06/2019	17	5	5/06/2019	17	5
1/06/2019	18	5	2/06/2019	18	5	3/06/2019	18	5	4/06/2019	18	5	5/06/2019	18	5
1/06/2019	19	5	2/06/2019	19	5	3/06/2019	19	5	4/06/2019	19	5	5/06/2019	19	5
1/06/2019	20	5	2/06/2019	20	5	3/06/2019	20	5	4/06/2019	20	5	5/06/2019	20	5
1/06/2019	21	5	2/06/2019	21	5	3/06/2019	21	5	4/06/2019	21	5	5/06/2019	21	5
1/06/2019	22	5	2/06/2019	22	5	3/06/2019	22	5	4/06/2019	22	5	5/06/2019	22	5
1/06/2019	23	5	2/06/2019	23	5	3/06/2019	23	5	4/06/2019	23	5	5/06/2019	23	5
Maximum		6.3			5.4			5*			5*			5*

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
6/06/2019	0	5	7/06/2019	0	5	8/06/2019	0	5	9/06/2019	0	5	10/06/2019	0	5
6/06/2019	1	5.4	7/06/2019	1	5	8/06/2019	1	5	9/06/2019	1	5	10/06/2019	1	5
6/06/2019	2	6.3	7/06/2019	2	5	8/06/2019	2	5.8	9/06/2019	2	5	10/06/2019	2	5.4
6/06/2019	3	6.3	7/06/2019	3	5	8/06/2019	3	5.8	9/06/2019	3	5	10/06/2019	3	5
6/06/2019	4	6.7	7/06/2019	4	5	8/06/2019	4	6.8	9/06/2019	4	6.3	10/06/2019	4	7.5
6/06/2019	5	6.3	7/06/2019	5	5	8/06/2019	5	5.4	9/06/2019	5	10.0	10/06/2019	5	9.2
6/06/2019	6	6.4	7/06/2019	6	5	8/06/2019	6	5	9/06/2019	6	8.6	10/06/2019	6	9.5
6/06/2019	7	7.9	7/06/2019	7	5	8/06/2019	7	5	9/06/2019	7	5.8	10/06/2019	7	7.9
6/06/2019	8	5	7/06/2019	8	10.4	8/06/2019	8	5	9/06/2019	8	5	10/06/2019	8	5
6/06/2019	9	5	7/06/2019	9	7.1	8/06/2019	9	5	9/06/2019	9	5.8	10/06/2019	9	5
6/06/2019	10	5	7/06/2019	10	5.8	8/06/2019	10	7.5	9/06/2019	10	5.8	10/06/2019	10	5.4
6/06/2019	11	5	7/06/2019	11	5	8/06/2019	11	8.3	9/06/2019	11	5	10/06/2019	11	5.4
6/06/2019	12	6.3	7/06/2019	12	5	8/06/2019	12	5.4	9/06/2019	12	5	10/06/2019	12	5
6/06/2019	13	5	7/06/2019	13	5	8/06/2019	13	5.4	9/06/2019	13	5.4	10/06/2019	13	5
6/06/2019	14	5.4	7/06/2019	14	5	8/06/2019	14	5.4	9/06/2019	14	5.4	10/06/2019	14	5
6/06/2019	15	5	7/06/2019	15	5	8/06/2019	15	5	9/06/2019	15	7.5	10/06/2019	15	5
6/06/2019	16	19.6	7/06/2019	16	5	8/06/2019	16	5.8	9/06/2019	16	12.1	10/06/2019	16	5.5
6/06/2019	17	7.9	7/06/2019	17	5	8/06/2019	17	5	9/06/2019	17	5	10/06/2019	17	5
6/06/2019	18	5.4	7/06/2019	18	5	8/06/2019	18	5	9/06/2019	18	5	10/06/2019	18	5
6/06/2019	19	5	7/06/2019	19	5	8/06/2019	19	5	9/06/2019	19	5.4	10/06/2019	19	5
6/06/2019	20	5	7/06/2019	20	5	8/06/2019	20	5	9/06/2019	20	5	10/06/2019	20	5
6/06/2019	21	5	7/06/2019	21	5	8/06/2019	21	5	9/06/2019	21	5	10/06/2019	21	5
6/06/2019	22	5.4	7/06/2019	22	5	8/06/2019	22	5	9/06/2019	22	5.4	10/06/2019	22	5
6/06/2019	23	5	7/06/2019	23	5	8/06/2019	23	5	9/06/2019	23	5.4	10/06/2019	23	5
Maximum		19.6			10.4			8.3			12.1			9.5

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
11/06/2019	0	5	12/06/2019	0	5	13/06/2019	0	5	14/06/2019	0	5	15/06/2019	0	5
11/06/2019	1	5	12/06/2019	1	5	13/06/2019	1	5	14/06/2019	1	5	15/06/2019	1	5
11/06/2019	2	5	12/06/2019	2	5	13/06/2019	2	5	14/06/2019	2	5	15/06/2019	2	5.4
11/06/2019	3	5	12/06/2019	3	5	13/06/2019	3	5	14/06/2019	3	5	15/06/2019	3	5.4
11/06/2019	4	5.8	12/06/2019	4	5	13/06/2019	4	5	14/06/2019	4	5	15/06/2019	4	5
11/06/2019	5	6.3	12/06/2019	5	5	13/06/2019	5	5	14/06/2019	5	5	15/06/2019	5	5.4
11/06/2019	6	7.7	12/06/2019	6	5	13/06/2019	6	5	14/06/2019	6	5	15/06/2019	6	6.4
11/06/2019	7	5.4	12/06/2019	7	5	13/06/2019	7	5	14/06/2019	7	5	15/06/2019	7	5.4
11/06/2019	8	5	12/06/2019	8	5	13/06/2019	8	5	14/06/2019	8	5.4	15/06/2019	8	5
11/06/2019	9	5	12/06/2019	9	5	13/06/2019	9	5	14/06/2019	9	5.4	15/06/2019	9	5
11/06/2019	10	5	12/06/2019	10	6.7	13/06/2019	10	5	14/06/2019	10	5.4	15/06/2019	10	6.7
11/06/2019	11	5	12/06/2019	11	5	13/06/2019	11	5	14/06/2019	11	5	15/06/2019	11	5
11/06/2019	12	5	12/06/2019	12	5	13/06/2019	12	5	14/06/2019	12	5	15/06/2019	12	5.4
11/06/2019	13	5	12/06/2019	13	5	13/06/2019	13	5	14/06/2019	13	5.4	15/06/2019	13	34.2
11/06/2019	14	6.3	12/06/2019	14	5	13/06/2019	14	5	14/06/2019	14	5.8	15/06/2019	14	12.9
11/06/2019	15	6.3	12/06/2019	15	5	13/06/2019	15	5	14/06/2019	15	7.5	15/06/2019	15	5.4
11/06/2019	16	15.8	12/06/2019	16	5	13/06/2019	16	5	14/06/2019	16	8.8	15/06/2019	16	20.0
11/06/2019	17	5	12/06/2019	17	5	13/06/2019	17	5	14/06/2019	17	7.1	15/06/2019	17	11.7
11/06/2019	18	5	12/06/2019	18	5	13/06/2019	18	5	14/06/2019	18	5.4	15/06/2019	18	11.3
11/06/2019	19	5	12/06/2019	19	5	13/06/2019	19	5	14/06/2019	19	5	15/06/2019	19	5
11/06/2019	20	5	12/06/2019	20	5	13/06/2019	20	5	14/06/2019	20	5	15/06/2019	20	5
11/06/2019	21	5	12/06/2019	21	5	13/06/2019	21	5	14/06/2019	21	5	15/06/2019	21	5
11/06/2019	22	5	12/06/2019	22	5	13/06/2019	22	5	14/06/2019	22	5	15/06/2019	22	5
11/06/2019	23	5	12/06/2019	23	5	13/06/2019	23	5	14/06/2019	23	5	15/06/2019	23	5
Maximum		15.8			6.7			5*			8.8			34.2

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
16/06/2019	0	5	17/06/2019	0	5	18/06/2019	0	No Data	19/06/2019	0	No Data	20/06/2019	0	No Data
16/06/2019	1	5.4	17/06/2019	1	5	18/06/2019	1	No Data	19/06/2019	1	No Data	20/06/2019	1	No Data
16/06/2019	2	5	17/06/2019	2	5	18/06/2019	2	No Data	19/06/2019	2	No Data	20/06/2019	2	No Data
16/06/2019	3	5	17/06/2019	3	5	18/06/2019	3	No Data	19/06/2019	3	No Data	20/06/2019	3	No Data
16/06/2019	4	5	17/06/2019	4	5	18/06/2019	4	No Data	19/06/2019	4	No Data	20/06/2019	4	No Data
16/06/2019	5	5	17/06/2019	5	5	18/06/2019	5	No Data	19/06/2019	5	No Data	20/06/2019	5	No Data
16/06/2019	6	5.9	17/06/2019	6	5.9	18/06/2019	6	No Data	19/06/2019	6	No Data	20/06/2019	6	No Data
16/06/2019	7	5	17/06/2019	7	8.3	18/06/2019	7	No Data	19/06/2019	7	No Data	20/06/2019	7	No Data
16/06/2019	8	7.5	17/06/2019	8	5.4	18/06/2019	8	No Data	19/06/2019	8	No Data	20/06/2019	8	No Data
16/06/2019	9	7.9	17/06/2019	9	5.4	18/06/2019	9	No Data	19/06/2019	9	No Data	20/06/2019	9	No Data
16/06/2019	10	5	17/06/2019	10	5	18/06/2019	10	No Data	19/06/2019	10	No Data	20/06/2019	10	No Data
16/06/2019	11	5.4	17/06/2019	11	5	18/06/2019	11	No Data	19/06/2019	11	No Data	20/06/2019	11	No Data
16/06/2019	12	5	17/06/2019	12	5	18/06/2019	12	No Data	19/06/2019	12	No Data	20/06/2019	12	No Data
16/06/2019	13	5	17/06/2019	13	5	18/06/2019	13	No Data	19/06/2019	13	No Data	20/06/2019	13	No Data
16/06/2019	14	5	17/06/2019	14	5	18/06/2019	14	No Data	19/06/2019	14	No Data	20/06/2019	14	No Data
16/06/2019	15	5	17/06/2019	15	5	18/06/2019	15	No Data	19/06/2019	15	No Data	20/06/2019	15	No Data
16/06/2019	16	5	17/06/2019	16	5	18/06/2019	16	No Data	19/06/2019	16	No Data	20/06/2019	16	No Data
16/06/2019	17	5	17/06/2019	17	5	18/06/2019	17	No Data	19/06/2019	17	No Data	20/06/2019	17	No Data
16/06/2019	18	5	17/06/2019	18	No Data	18/06/2019	18	No Data	19/06/2019	18	No Data	20/06/2019	18	No Data
16/06/2019	19	5	17/06/2019	19	No Data	18/06/2019	19	No Data	19/06/2019	19	No Data	20/06/2019	19	No Data
16/06/2019	20	5	17/06/2019	20	No Data	18/06/2019	20	No Data	19/06/2019	20	No Data	20/06/2019	20	No Data
16/06/2019	21	5	17/06/2019	21	No Data	18/06/2019	21	No Data	19/06/2019	21	No Data	20/06/2019	21	No Data
16/06/2019	22	5	17/06/2019	22	No Data	18/06/2019	22	No Data	19/06/2019	22	No Data	20/06/2019	22	No Data
16/06/2019	23	5	17/06/2019	23	No Data	18/06/2019	23	No Data	19/06/2019	23	No Data	20/06/2019	23	No Data
Maximum		7.9			8.3			No Data			No Data			No Data

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
21/06/2019	0	No Data	22/06/2019	0	No Data	23/06/2019	0	No Data	24/06/2019	0	No Data	25/06/2019	0	5
21/06/2019	1	No Data	22/06/2019	1	No Data	23/06/2019	1	No Data	24/06/2019	1	No Data	25/06/2019	1	5
21/06/2019	2	No Data	22/06/2019	2	No Data	23/06/2019	2	No Data	24/06/2019	2	No Data	25/06/2019	2	5
21/06/2019	3	No Data	22/06/2019	3	No Data	23/06/2019	3	No Data	24/06/2019	3	No Data	25/06/2019	3	5
21/06/2019	4	No Data	22/06/2019	4	No Data	23/06/2019	4	No Data	24/06/2019	4	No Data	25/06/2019	4	5
21/06/2019	5	No Data	22/06/2019	5	No Data	23/06/2019	5	No Data	24/06/2019	5	No Data	25/06/2019	5	5
21/06/2019	6	No Data	22/06/2019	6	No Data	23/06/2019	6	No Data	24/06/2019	6	No Data	25/06/2019	6	5
21/06/2019	7	No Data	22/06/2019	7	No Data	23/06/2019	7	No Data	24/06/2019	7	No Data	25/06/2019	7	5
21/06/2019	8	No Data	22/06/2019	8	No Data	23/06/2019	8	No Data	24/06/2019	8	No Data	25/06/2019	8	5
21/06/2019	9	No Data	22/06/2019	9	No Data	23/06/2019	9	No Data	24/06/2019	9	No Data	25/06/2019	9	5
21/06/2019	10	No Data	22/06/2019	10	No Data	23/06/2019	10	No Data	24/06/2019	10	No Data	25/06/2019	10	5
21/06/2019	11	No Data	22/06/2019	11	No Data	23/06/2019	11	No Data	24/06/2019	11	No Data	25/06/2019	11	5
21/06/2019	12	No Data	22/06/2019	12	No Data	23/06/2019	12	No Data	24/06/2019	12	No Data	25/06/2019	12	5
21/06/2019	13	No Data	22/06/2019	13	No Data	23/06/2019	13	No Data	24/06/2019	13	No Data	25/06/2019	13	5
21/06/2019	14	No Data	22/06/2019	14	No Data	23/06/2019	14	No Data	24/06/2019	14	No Data	25/06/2019	14	5
21/06/2019	15	No Data	22/06/2019	15	No Data	23/06/2019	15	No Data	24/06/2019	15	No Data	25/06/2019	15	5
21/06/2019	16	No Data	22/06/2019	16	No Data	23/06/2019	16	No Data	24/06/2019	16	5	25/06/2019	16	5
21/06/2019	17	No Data	22/06/2019	17	No Data	23/06/2019	17	No Data	24/06/2019	17	5	25/06/2019	17	5
21/06/2019	18	No Data	22/06/2019	18	No Data	23/06/2019	18	No Data	24/06/2019	18	5	25/06/2019	18	5
21/06/2019	19	No Data	22/06/2019	19	No Data	23/06/2019	19	No Data	24/06/2019	19	5	25/06/2019	19	5
21/06/2019	20	No Data	22/06/2019	20	No Data	23/06/2019	20	No Data	24/06/2019	20	5	25/06/2019	20	5
21/06/2019	21	No Data	22/06/2019	21	No Data	23/06/2019	21	No Data	24/06/2019	21	5	25/06/2019	21	5
21/06/2019	22	No Data	22/06/2019	22	No Data	23/06/2019	22	No Data	24/06/2019	22	5	25/06/2019	22	5
21/06/2019	23	No Data	22/06/2019	23	No Data	23/06/2019	23	No Data	24/06/2019	23	5	25/06/2019	23	5
Maximum		No Data			No Data			No Data			5*			5*

Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average	Date	Hour	SO ₂ 1hr Average
26/06/2019	0	5	27/06/2019	0	5.4	28/06/2019	0	6.3	29/06/2019	0	6.7	30/06/2019	0	5
26/06/2019	1	5	27/06/2019	1	5	28/06/2019	1	7.9	29/06/2019	1	7.5	30/06/2019	1	5
26/06/2019	2	5	27/06/2019	2	5	28/06/2019	2	7.9	29/06/2019	2	10.0	30/06/2019	2	5
26/06/2019	3	5	27/06/2019	3p	5	28/06/2019	3	5.4	29/06/2019	3	8.8	30/06/2019	3	5
26/06/2019	4	5	27/06/2019	4	5	28/06/2019	4	5	29/06/2019	4	9.6	30/06/2019	4	5
26/06/2019	5	5	27/06/2019	5	5	28/06/2019	5	6.7	29/06/2019	5	8.8	30/06/2019	5	5
26/06/2019	6	5	27/06/2019	6	5	28/06/2019	6	5	29/06/2019	6	9.1	30/06/2019	6	5
26/06/2019	7	5	27/06/2019	7	5	28/06/2019	7	5	29/06/2019	7	5	30/06/2019	7	5
26/06/2019	8	5	27/06/2019	8	5	28/06/2019	8	5	29/06/2019	8	5	30/06/2019	8	5
26/06/2019	9	5	27/06/2019	9	5	28/06/2019	9	5	29/06/2019	9	7.5	30/06/2019	9	5
26/06/2019	10	5	27/06/2019	10	5	28/06/2019	10	5	29/06/2019	10	9.2	30/06/2019	10	5
26/06/2019	11	5	27/06/2019	11	5	28/06/2019	11	10.8	29/06/2019	11	5.8	30/06/2019	11	5
26/06/2019	12	5.4	27/06/2019	12	5	28/06/2019	12	5.4	29/06/2019	12	10.0	30/06/2019	12	5
26/06/2019	13	5	27/06/2019	13	5	28/06/2019	13	29.2	29/06/2019	13	5.4	30/06/2019	13	5
26/06/2019	14	5	27/06/2019	14	5	28/06/2019	14	18.3	29/06/2019	14	5.8	30/06/2019	14	5
26/06/2019	15	5	27/06/2019	15	5	28/06/2019	15	8.8	29/06/2019	15	5	30/06/2019	15	6.3
26/06/2019	16	5	27/06/2019	16	5	28/06/2019	16	10.4	29/06/2019	16	5.8	30/06/2019	16	5
26/06/2019	17	5	27/06/2019	17	5	28/06/2019	17	13.3	29/06/2019	17	5.8	30/06/2019	17	8.8
26/06/2019	18	5	27/06/2019	18	5	28/06/2019	18	5.8	29/06/2019	18	5	30/06/2019	18	5
26/06/2019	19	5	27/06/2019	19	5	28/06/2019	19	7.5	29/06/2019	19	5	30/06/2019	19	5
26/06/2019	20	5	27/06/2019	20	5	28/06/2019	20	7.5	29/06/2019	20	5	30/06/2019	20	5
26/06/2019	21	5	27/06/2019	21	5	28/06/2019	21	5.8	29/06/2019	21	5	30/06/2019	21	5
26/06/2019	22	5	27/06/2019	22	6.7	28/06/2019	22	7.5	29/06/2019	22	5.8	30/06/2019	22	5
26/06/2019	23	5	27/06/2019	23	6.3	28/06/2019	23	7.5	29/06/2019	23	5	30/06/2019	23	5
Maximum		5.4			6.7			29.2			10.0			8.8

June 2019

Calms (%): 26.7
Maximum Wind Speed (m/s): 9.5
Prevailing Wind Direction (degree): 135

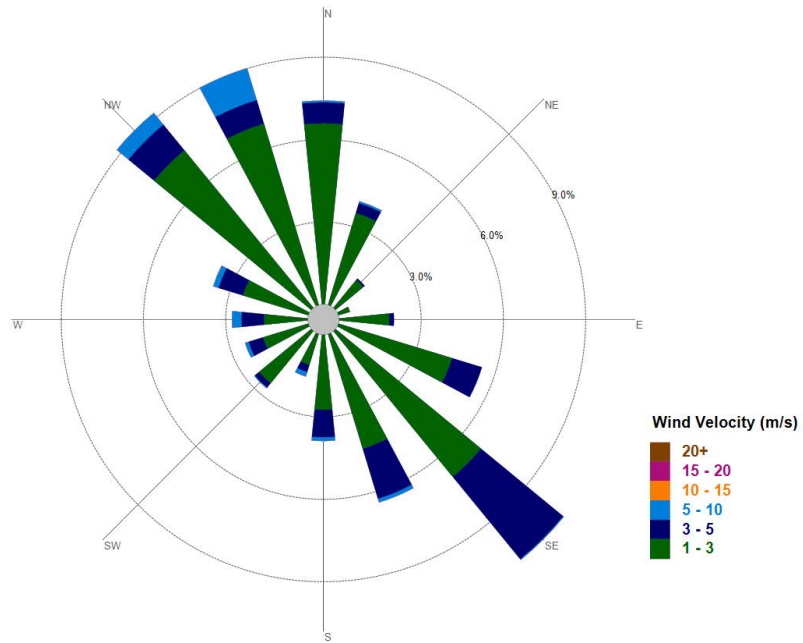


Figure 4 MCC June 2019 Meteorology Data