

11 November 2020

Julie Thomas
Environmental Superintendent
Muswellbrook Coal Company Ltd

Dear Julie,

Ambient Air Monitoring - Muscle Creek Rd - October 2020

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 Advanced Sense II 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 an Advanced Sense unit 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 to 31 October 2020.

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.

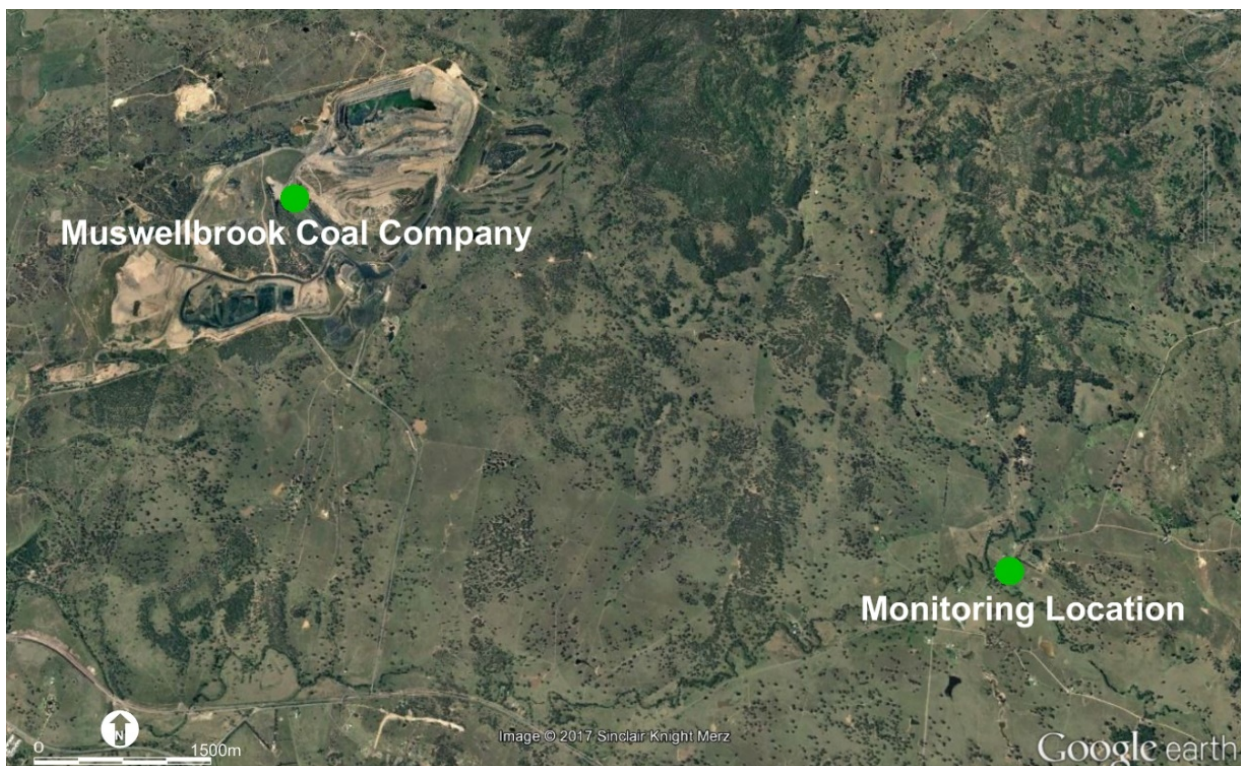


Figure 1 Musclee Creek Rd Monitoring Location

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 typically performed by a GrayWolf Advanced Sense II Probe fitted with H₂S and SO₂ sensors.

Consistent issues with the unit have occurred since its installation with the unit failing to log continuously, requiring regular site visits to restart the unit. While efforts are continuing with GrayWolf to achieve a reliable solution an interim GrayWolf set-up was installed on site on 23 September 2020. The interim set-up is a GrayWolf Advanced Sense I probe fitted with H₂S and SO₂ sensors connected to a Microsoft Surface Go tablet acting as the logger. A GrayWolf Advanced Sense II probe was installed alongside the tablet on 23 October in an attempt to improve data collection following a period between 15 and 23 October where the Advanced Sense I probe was failing to connect to the tablet and not collecting data.

The unit is enclosed in a weatherproof case with the sensor at a height of approximately 1.8m above the ground.

The GrayWolf Advanced Sense monitors measure 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 October 2020 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 – October 2020

Parameter	Units	Hydrogen Sulfide (H ₂ S)	Sulfur Dioxide (SO ₂)
Maximum 1 Hour Average	ppb	49.2	59.2
Maximum 24 Hour Average	ppb	21.0	7.6
Number of Exceedances – 1 Hour	-	0	0
Number of Exceedances – 24 Hour	-	0	0

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

There were no exceedances of the applicable criteria for either H₂S or SO₂ for the October 2020 monitoring period. Due to the logging issues discussed in **Section 4.0** the data capture rates for October 2020 were 61.81% for both H₂S and SO₂. It should be noted that hourly and daily averages are only reported if there is valid data for at least 75% of the respective time period.

Table 4 24hr Averages (Midnight to Midnight) and Maximum 1hr Averages – October 2020

Date	Hydrogen Sulfide (H ₂ S) (ppb)		Sulfur Dioxide (SO ₂) (ppb)	
	24hr Average	Maximum 1hr Average	24hr Average	Maximum 1hr Average
1/10/2020	10.7	28.3	5*	5*
2/10/2020	12.8	49.2	5.6	13.3
3/10/2020	Insufficient Data	16.3	Insufficient Data	7.9
4/10/2020	No Data	No Data	No Data	No Data
5/10/2020	No Data	No Data	No Data	No Data
6/10/2020	No Data	No Data	No Data	No Data
7/10/2020	Insufficient Data	8.3	Insufficient Data	59.2
8/10/2020	7.2	34.2	7.6	54.2
9/10/2020	13.7	39.2	5*	5*
10/10/2020	20.2	43.3	5.0	5.4
11/10/2020	21.0	40.0	5.1	7.9
12/10/2020	12.2	29.2	5.0	5.4
13/10/2020	10.3	33.3	5.2	9.6
14/10/2020	6.2	15.0	5*	5*
15/10/2020	Insufficient Data	8.3	Insufficient Data	9.2
16/10/2020	No Data	No Data	No Data	No Data
17/10/2020	No Data	No Data	No Data	No Data
18/10/2020	No Data	No Data	No Data	No Data
19/10/2020	No Data	No Data	No Data	No Data
20/10/2020	No Data	No Data	No Data	No Data
21/10/2020	No Data	No Data	No Data	No Data
22/10/2020	No Data	No Data	No Data	No Data
23/10/2020	Insufficient Data	5*	Insufficient Data	27.5
24/10/2020	5*	5*	7.4	22.5
25/10/2020	5*	5*	5.1	6.3
26/10/2020	5*	5*	5.1	6.3
27/10/2020	Insufficient Data	5*	Insufficient Data	5*
28/10/2020	Insufficient Data	5*	Insufficient Data	5*
29/10/2020	No Data	No Data	No Data	No Data
30/10/2020	Insufficient Data	5*	Insufficient Data	5*
31/10/2020	Insufficient Data	5*	Insufficient Data	5*
Criteria	100	500	80	200
Capture Rate	61.81%		61.81%	

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

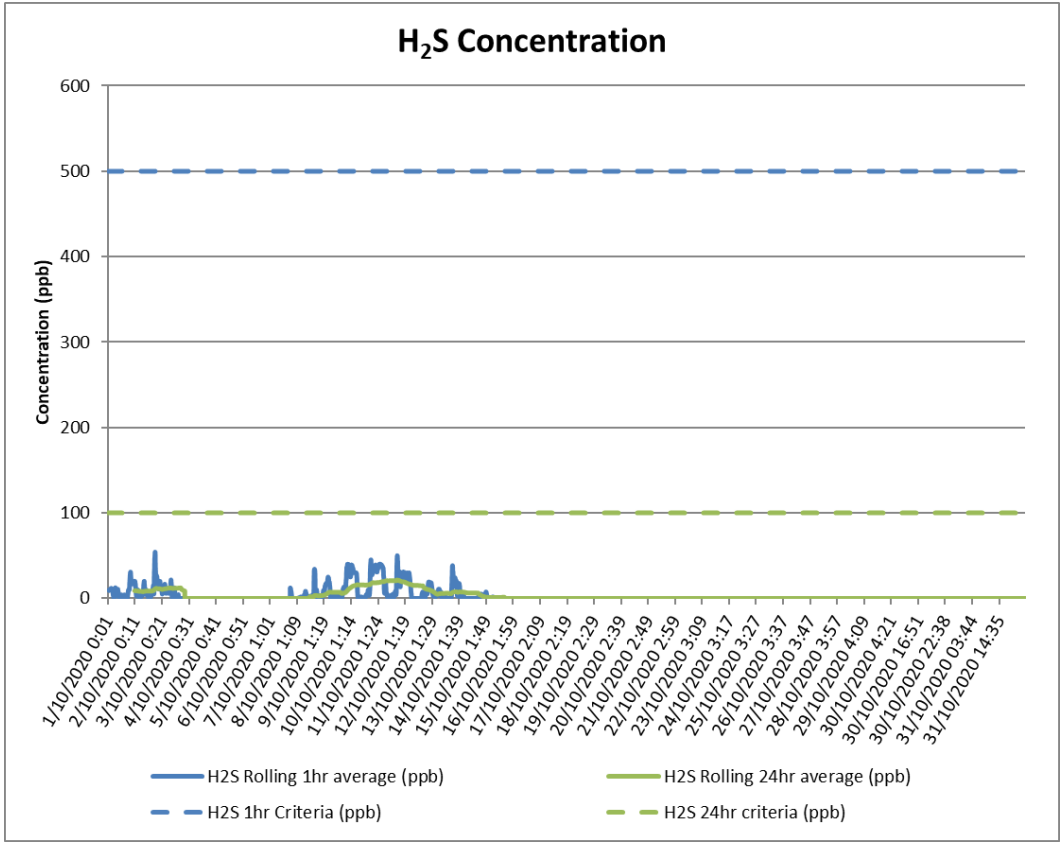


Figure 2 H₂S Concentrations – October 2020

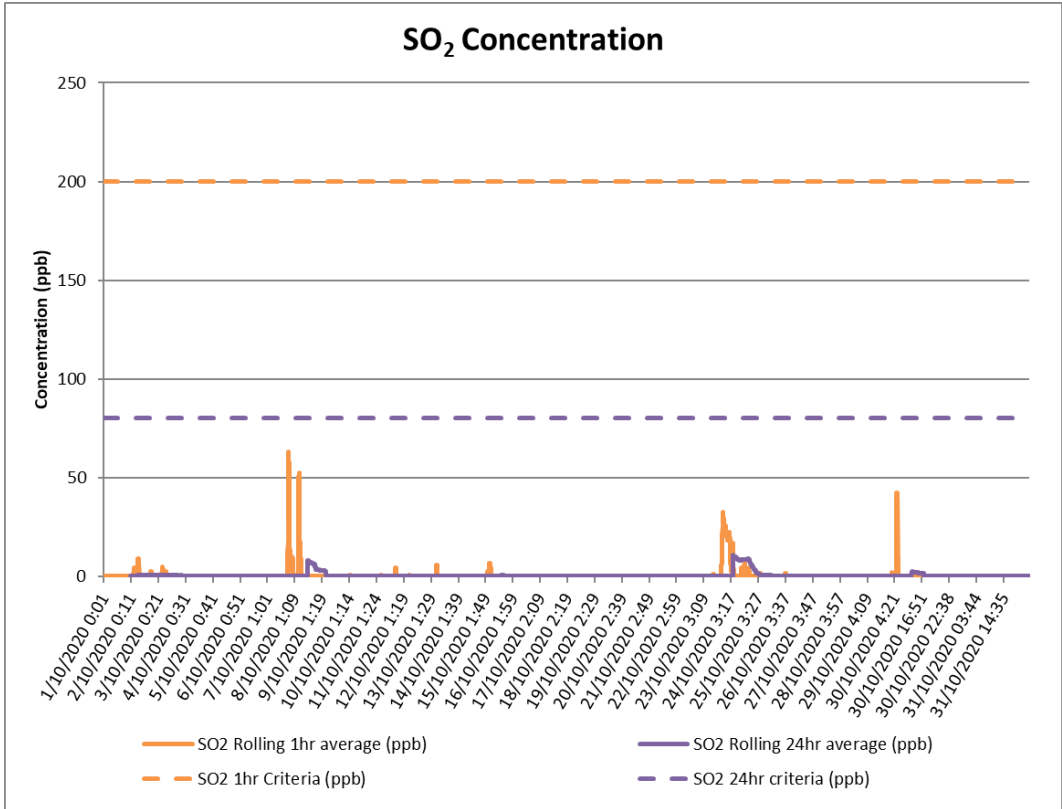


Figure 3 SO₂ Concentrations – October 2020

5.1 Meteorology

Meteorology data sourced from MCC's onsite meteorology station for October indicated winds were from the North to Northwest quadrant as well as from the Southeast. The average wind speed for the month was 2.90 m/s.

When winds are from the Northwest, 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 31 October 2020 returned no exceedances of either the 1hr or 24hr criteria for H₂S or SO₂. A data capture rate of 61.81% was recorded for both H₂S and SO₂ during October 2020.

Wind data obtained from the MCC meteorology station indicates that winds for this period were from the North and Northwest as well as from the Southeast placing the monitoring location downwind of the mine for a portion of the month during October 2020.

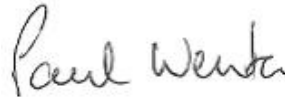
Yours faithfully,



James Enright
Scientist – Compliance Services
james.enright@aecom.com

Direct Dial: +T +61 2 4911 4900
Direct Fax: +F +61 2 4911 4999

encl: Hourly Monitoring Data, Wind Rose



Paul Wenta
Principal Scientist - Air Quality
paul.wenta@aecom.com

Mobile: +61 438 670 281
Direct Dial: +61 2 4911 4855
Direct Fax: +61 2 4911 4999

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Table 5 H₂S 1hr Data (ppb) – October 2020

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
1/10/2020	0	9.6	2/10/2020	0	11.3	3/10/2020	0	8.3	4/10/2020	0	No Data	5/10/2020	0	No Data
1/10/2020	1	10.0	2/10/2020	1	7.1	3/10/2020	1	12.9	4/10/2020	1	No Data	5/10/2020	1	No Data
1/10/2020	2	11.7	2/10/2020	2	11.3	3/10/2020	2	16.3	4/10/2020	2	No Data	5/10/2020	2	No Data
1/10/2020	3	10.0	2/10/2020	3	6.3	3/10/2020	3	9.2	4/10/2020	3	No Data	5/10/2020	3	No Data
1/10/2020	4	6.3	2/10/2020	4	6.7	3/10/2020	4	12.1	4/10/2020	4	No Data	5/10/2020	4	No Data
1/10/2020	5	9.2	2/10/2020	5	6.3	3/10/2020	5	9.6	4/10/2020	5	No Data	5/10/2020	5	No Data
1/10/2020	6	9.6	2/10/2020	6	7.9	3/10/2020	6	10.0	4/10/2020	6	No Data	5/10/2020	6	No Data
1/10/2020	7	10.0	2/10/2020	7	15.0	3/10/2020	7	12.5	4/10/2020	7	No Data	5/10/2020	7	No Data
1/10/2020	8	10.4	2/10/2020	8	12.5	3/10/2020	8	14.2	4/10/2020	8	No Data	5/10/2020	8	No Data
1/10/2020	9	6.7	2/10/2020	9	10.4	3/10/2020	9	5.8	4/10/2020	9	No Data	5/10/2020	9	No Data
1/10/2020	10	5.8	2/10/2020	10	6.7	3/10/2020	10	12.5	4/10/2020	10	No Data	5/10/2020	10	No Data
1/10/2020	11	7.1	2/10/2020	11	6.7	3/10/2020	11	7.1	4/10/2020	11	No Data	5/10/2020	11	No Data
1/10/2020	12	5.4	2/10/2020	12	5.8	3/10/2020	12	5.4	4/10/2020	12	No Data	5/10/2020	12	No Data
1/10/2020	13	5.8	2/10/2020	13	5.4	3/10/2020	13	5.8	4/10/2020	13	No Data	5/10/2020	13	No Data
1/10/2020	14	6.3	2/10/2020	14	6.7	3/10/2020	14	8.0	4/10/2020	14	No Data	5/10/2020	14	No Data
1/10/2020	15	6.3	2/10/2020	15	12.1	3/10/2020	15	No Data	4/10/2020	15	No Data	5/10/2020	15	No Data
1/10/2020	16	5	2/10/2020	16	12.5	3/10/2020	16	No Data	4/10/2020	16	No Data	5/10/2020	16	No Data
1/10/2020	17	7.9	2/10/2020	17	49.2	3/10/2020	17	No Data	4/10/2020	17	No Data	5/10/2020	17	No Data
1/10/2020	18	10.0	2/10/2020	18	26.7	3/10/2020	18	No Data	4/10/2020	18	No Data	5/10/2020	18	No Data
1/10/2020	19	28.3	2/10/2020	19	23.3	3/10/2020	19	No Data	4/10/2020	19	No Data	5/10/2020	19	No Data
1/10/2020	20	18.3	2/10/2020	20	14.2	3/10/2020	20	No Data	4/10/2020	20	No Data	5/10/2020	20	No Data
1/10/2020	21	18.3	2/10/2020	21	15.8	3/10/2020	21	No Data	4/10/2020	21	No Data	5/10/2020	21	No Data
1/10/2020	22	18.3	2/10/2020	22	15.4	3/10/2020	22	No Data	4/10/2020	22	No Data	5/10/2020	22	No Data
1/10/2020	23	20.0	2/10/2020	23	12.5	3/10/2020	23	No Data	4/10/2020	23	No Data	5/10/2020	23	No Data
Maximum		28.3			49.2			16.3			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
6/10/2020	0	No Data	7/10/2020	0	No Data	8/10/2020	0	5	9/10/2020	0	9.2	10/10/2020	0	27.9
6/10/2020	1	No Data	7/10/2020	1	No Data	8/10/2020	1	5	9/10/2020	1	11.7	10/10/2020	1	37.5
6/10/2020	2	No Data	7/10/2020	2	No Data	8/10/2020	2	5.4	9/10/2020	2	16.7	10/10/2020	2	35.0
6/10/2020	3	No Data	7/10/2020	3	No Data	8/10/2020	3	5	9/10/2020	3	18.3	10/10/2020	3	30.0
6/10/2020	4	No Data	7/10/2020	4	No Data	8/10/2020	4	6.3	9/10/2020	4	25.0	10/10/2020	4	30.0
6/10/2020	5	No Data	7/10/2020	5	No Data	8/10/2020	5	5	9/10/2020	5	18.3	10/10/2020	5	29.2
6/10/2020	6	No Data	7/10/2020	6	No Data	8/10/2020	6	5.8	9/10/2020	6	7.5	10/10/2020	6	12.5
6/10/2020	7	No Data	7/10/2020	7	No Data	8/10/2020	7	7.1	9/10/2020	7	5.4	10/10/2020	7	5
6/10/2020	8	No Data	7/10/2020	8	No Data	8/10/2020	8	8.8	9/10/2020	8	6.7	10/10/2020	8	5.8
6/10/2020	9	No Data	7/10/2020	9	No Data	8/10/2020	9	5	9/10/2020	9	5.4	10/10/2020	9	5.8
6/10/2020	10	No Data	7/10/2020	10	No Data	8/10/2020	10	5.8	9/10/2020	10	6.7	10/10/2020	10	5.4
6/10/2020	11	No Data	7/10/2020	11	No Data	8/10/2020	11	5.4	9/10/2020	11	7.1	10/10/2020	11	5
6/10/2020	12	No Data	7/10/2020	12	No Data	8/10/2020	12	6.3	9/10/2020	12	5	10/10/2020	12	5
6/10/2020	13	No Data	7/10/2020	13	No Data	8/10/2020	13	5	9/10/2020	13	5.8	10/10/2020	13	5.8
6/10/2020	14	No Data	7/10/2020	14	No Data	8/10/2020	14	6.7	9/10/2020	14	6.7	10/10/2020	14	7.1
6/10/2020	15	No Data	7/10/2020	15	No Data	8/10/2020	15	7.1	9/10/2020	15	7.1	10/10/2020	15	8.8
6/10/2020	16	No Data	7/10/2020	16	No Data	8/10/2020	16	34.2	9/10/2020	16	5.8	10/10/2020	16	9.6
6/10/2020	17	No Data	7/10/2020	17	No Data	8/10/2020	17	6.7	9/10/2020	17	9.2	10/10/2020	17	10.4
6/10/2020	18	No Data	7/10/2020	18	No Data	8/10/2020	18	9.2	9/10/2020	18	13.3	10/10/2020	18	43.3
6/10/2020	19	No Data	7/10/2020	19	8.3	8/10/2020	19	5.4	9/10/2020	19	10.0	10/10/2020	19	27.5
6/10/2020	20	No Data	7/10/2020	20	5	8/10/2020	20	5	9/10/2020	20	22.5	10/10/2020	20	35.0
6/10/2020	21	No Data	7/10/2020	21	5	8/10/2020	21	5.8	9/10/2020	21	39.2	10/10/2020	21	33.3
6/10/2020	22	No Data	7/10/2020	22	5	8/10/2020	22	5.8	9/10/2020	22	37.5	10/10/2020	22	37.5
6/10/2020	23	No Data	7/10/2020	23	5	8/10/2020	23	5.8	9/10/2020	23	29.2	10/10/2020	23	31.7
Maximum		No Data			8.3			34.2			39.2			43.3

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
11/10/2020	0	33.3	12/10/2020	0	28.3	13/10/2020	0	15.8	14/10/2020	0	14.6	15/10/2020	0	7.5
11/10/2020	1	38.3	12/10/2020	1	22.5	13/10/2020	1	7.9	14/10/2020	1	15.0	15/10/2020	1	8.3
11/10/2020	2	40.0	12/10/2020	2	28.3	13/10/2020	2	7.1	14/10/2020	2	5.8	15/10/2020	2	5
11/10/2020	3	39.2	12/10/2020	3	23.3	13/10/2020	3	7.1	14/10/2020	3	6.3	15/10/2020	3	5
11/10/2020	4	37.5	12/10/2020	4	29.2	13/10/2020	4	6.7	14/10/2020	4	7.1	15/10/2020	4	5
11/10/2020	5	30.8	12/10/2020	5	17.5	13/10/2020	5	8.3	14/10/2020	5	5.8	15/10/2020	5	5
11/10/2020	6	9.2	12/10/2020	6	6.7	13/10/2020	6	7.5	14/10/2020	6	5	15/10/2020	6	5
11/10/2020	7	18.3	12/10/2020	7	5	13/10/2020	7	13.3	14/10/2020	7	5	15/10/2020	7	5.8
11/10/2020	8	8.3	12/10/2020	8	5	13/10/2020	8	7.1	14/10/2020	8	5	15/10/2020	8	5.4
11/10/2020	9	5	12/10/2020	9	5	13/10/2020	9	8.3	14/10/2020	9	5	15/10/2020	9	5
11/10/2020	10	5.4	12/10/2020	10	5	13/10/2020	10	5.4	14/10/2020	10	5	15/10/2020	10	5
11/10/2020	11	6.7	12/10/2020	11	5	13/10/2020	11	5	14/10/2020	11	5	15/10/2020	11	5
11/10/2020	12	5.4	12/10/2020	12	5	13/10/2020	12	5.8	14/10/2020	12	5	15/10/2020	12	No Data
11/10/2020	13	7.5	12/10/2020	13	5	13/10/2020	13	5	14/10/2020	13	5	15/10/2020	13	No Data
11/10/2020	14	5.4	12/10/2020	14	5	13/10/2020	14	5.4	14/10/2020	14	5	15/10/2020	14	No Data
11/10/2020	15	7.1	12/10/2020	15	5	13/10/2020	15	5	14/10/2020	15	5	15/10/2020	15	No Data
11/10/2020	16	10.8	12/10/2020	16	10.0	13/10/2020	16	5	14/10/2020	16	5	15/10/2020	16	No Data
11/10/2020	17	38.3	12/10/2020	17	5.4	13/10/2020	17	5	14/10/2020	17	5	15/10/2020	17	No Data
11/10/2020	18	31.7	12/10/2020	18	5.8	13/10/2020	18	13.3	14/10/2020	18	5.8	15/10/2020	18	No Data
11/10/2020	19	31.7	12/10/2020	19	8.3	13/10/2020	19	33.3	14/10/2020	19	5	15/10/2020	19	No Data
11/10/2020	20	16.3	12/10/2020	20	9.6	13/10/2020	20	16.3	14/10/2020	20	6.7	15/10/2020	20	No Data
11/10/2020	21	21.7	12/10/2020	21	15.4	13/10/2020	21	23.3	14/10/2020	21	7.1	15/10/2020	21	No Data
11/10/2020	22	25.8	12/10/2020	22	19.2	13/10/2020	22	20.8	14/10/2020	22	5	15/10/2020	22	No Data
11/10/2020	23	30.8	12/10/2020	23	17.5	13/10/2020	23	8.3	14/10/2020	23	5	15/10/2020	23	No Data
Maximum		40.0			29.2			33.3			15.0			8.3

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
16/10/2020	0	No Data	17/10/2020	0	No Data	18/10/2020	0	No Data	19/10/2020	0	No Data	20/10/2020	0	No Data
16/10/2020	1	No Data	17/10/2020	1	No Data	18/10/2020	1	No Data	19/10/2020	1	No Data	20/10/2020	1	No Data
16/10/2020	2	No Data	17/10/2020	2	No Data	18/10/2020	2	No Data	19/10/2020	2	No Data	20/10/2020	2	No Data
16/10/2020	3	No Data	17/10/2020	3	No Data	18/10/2020	3	No Data	19/10/2020	3	No Data	20/10/2020	3	No Data
16/10/2020	4	No Data	17/10/2020	4	No Data	18/10/2020	4	No Data	19/10/2020	4	No Data	20/10/2020	4	No Data
16/10/2020	5	No Data	17/10/2020	5	No Data	18/10/2020	5	No Data	19/10/2020	5	No Data	20/10/2020	5	No Data
16/10/2020	6	No Data	17/10/2020	6	No Data	18/10/2020	6	No Data	19/10/2020	6	No Data	20/10/2020	6	No Data
16/10/2020	7	No Data	17/10/2020	7	No Data	18/10/2020	7	No Data	19/10/2020	7	No Data	20/10/2020	7	No Data
16/10/2020	8	No Data	17/10/2020	8	No Data	18/10/2020	8	No Data	19/10/2020	8	No Data	20/10/2020	8	No Data
16/10/2020	9	No Data	17/10/2020	9	No Data	18/10/2020	9	No Data	19/10/2020	9	No Data	20/10/2020	9	No Data
16/10/2020	10	No Data	17/10/2020	10	No Data	18/10/2020	10	No Data	19/10/2020	10	No Data	20/10/2020	10	No Data
16/10/2020	11	No Data	17/10/2020	11	No Data	18/10/2020	11	No Data	19/10/2020	11	No Data	20/10/2020	11	No Data
16/10/2020	12	No Data	17/10/2020	12	No Data	18/10/2020	12	No Data	19/10/2020	12	No Data	20/10/2020	12	No Data
16/10/2020	13	No Data	17/10/2020	13	No Data	18/10/2020	13	No Data	19/10/2020	13	No Data	20/10/2020	13	No Data
16/10/2020	14	No Data	17/10/2020	14	No Data	18/10/2020	14	No Data	19/10/2020	14	No Data	20/10/2020	14	No Data
16/10/2020	15	No Data	17/10/2020	15	No Data	18/10/2020	15	No Data	19/10/2020	15	No Data	20/10/2020	15	No Data
16/10/2020	16	No Data	17/10/2020	16	No Data	18/10/2020	16	No Data	19/10/2020	16	No Data	20/10/2020	16	No Data
16/10/2020	17	No Data	17/10/2020	17	No Data	18/10/2020	17	No Data	19/10/2020	17	No Data	20/10/2020	17	No Data
16/10/2020	18	No Data	17/10/2020	18	No Data	18/10/2020	18	No Data	19/10/2020	18	No Data	20/10/2020	18	No Data
16/10/2020	19	No Data	17/10/2020	19	No Data	18/10/2020	19	No Data	19/10/2020	19	No Data	20/10/2020	19	No Data
16/10/2020	20	No Data	17/10/2020	20	No Data	18/10/2020	20	No Data	19/10/2020	20	No Data	20/10/2020	20	No Data
16/10/2020	21	No Data	17/10/2020	21	No Data	18/10/2020	21	No Data	19/10/2020	21	No Data	20/10/2020	21	No Data
16/10/2020	22	No Data	17/10/2020	22	No Data	18/10/2020	22	No Data	19/10/2020	22	No Data	20/10/2020	22	No Data
16/10/2020	23	No Data	17/10/2020	23	No Data	18/10/2020	23	No Data	19/10/2020	23	No Data	20/10/2020	23	No Data
Maximum		No Data			No Data			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
21/10/2020	0	No Data	22/10/2020	0	No Data	23/10/2020	0	No Data	24/10/2020	0	5	25/10/2020	0	5
21/10/2020	1	No Data	22/10/2020	1	No Data	23/10/2020	1	No Data	24/10/2020	1	5	25/10/2020	1	5
21/10/2020	2	No Data	22/10/2020	2	No Data	23/10/2020	2	No Data	24/10/2020	2	5	25/10/2020	2	5
21/10/2020	3	No Data	22/10/2020	3	No Data	23/10/2020	3	No Data	24/10/2020	3	5	25/10/2020	3	5
21/10/2020	4	No Data	22/10/2020	4	No Data	23/10/2020	4	No Data	24/10/2020	4	5	25/10/2020	4	5
21/10/2020	5	No Data	22/10/2020	5	No Data	23/10/2020	5	No Data	24/10/2020	5	5	25/10/2020	5	5
21/10/2020	6	No Data	22/10/2020	6	No Data	23/10/2020	6	No Data	24/10/2020	6	5	25/10/2020	6	5
21/10/2020	7	No Data	22/10/2020	7	No Data	23/10/2020	7	No Data	24/10/2020	7	5	25/10/2020	7	5
21/10/2020	8	No Data	22/10/2020	8	No Data	23/10/2020	8	No Data	24/10/2020	8	5	25/10/2020	8	5
21/10/2020	9	No Data	22/10/2020	9	No Data	23/10/2020	9	No Data	24/10/2020	9	5	25/10/2020	9	5
21/10/2020	10	No Data	22/10/2020	10	No Data	23/10/2020	10	No Data	24/10/2020	10	5	25/10/2020	10	5
21/10/2020	11	No Data	22/10/2020	11	No Data	23/10/2020	11	5	24/10/2020	11	5	25/10/2020	11	5
21/10/2020	12	No Data	22/10/2020	12	No Data	23/10/2020	12	5	24/10/2020	12	5	25/10/2020	12	5
21/10/2020	13	No Data	22/10/2020	13	No Data	23/10/2020	13	5	24/10/2020	13	5	25/10/2020	13	5
21/10/2020	14	No Data	22/10/2020	14	No Data	23/10/2020	14	5	24/10/2020	14	5	25/10/2020	14	5
21/10/2020	15	No Data	22/10/2020	15	No Data	23/10/2020	15	5	24/10/2020	15	5	25/10/2020	15	5
21/10/2020	16	No Data	22/10/2020	16	No Data	23/10/2020	16	5	24/10/2020	16	5	25/10/2020	16	5
21/10/2020	17	No Data	22/10/2020	17	No Data	23/10/2020	17	5	24/10/2020	17	5	25/10/2020	17	5
21/10/2020	18	No Data	22/10/2020	18	No Data	23/10/2020	18	5	24/10/2020	18	5	25/10/2020	18	5
21/10/2020	19	No Data	22/10/2020	19	No Data	23/10/2020	19	5	24/10/2020	19	5	25/10/2020	19	5
21/10/2020	20	No Data	22/10/2020	20	No Data	23/10/2020	20	5	24/10/2020	20	5	25/10/2020	20	5
21/10/2020	21	No Data	22/10/2020	21	No Data	23/10/2020	21	5	24/10/2020	21	5	25/10/2020	21	5
21/10/2020	22	No Data	22/10/2020	22	No Data	23/10/2020	22	5	24/10/2020	22	5	25/10/2020	22	5
21/10/2020	23	No Data	22/10/2020	23	No Data	23/10/2020	23	5	24/10/2020	23	5	25/10/2020	23	5
Maximum		No Data			No Data			5*			5*			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
26/10/2020	0	5	27/10/2020	0	5	28/10/2020	0	No Data	29/10/2020	0	No Data	30/10/2020	0	No Data
26/10/2020	1	5	27/10/2020	1	5	28/10/2020	1	No Data	29/10/2020	1	No Data	30/10/2020	1	No Data
26/10/2020	2	5	27/10/2020	2	5	28/10/2020	2	No Data	29/10/2020	2	No Data	30/10/2020	2	5
26/10/2020	3	5	27/10/2020	3	5	28/10/2020	3	No Data	29/10/2020	3	No Data	30/10/2020	3	5
26/10/2020	4	5	27/10/2020	4	5	28/10/2020	4	No Data	29/10/2020	4	No Data	30/10/2020	4	5
26/10/2020	5	5	27/10/2020	5	5	28/10/2020	5	No Data	29/10/2020	5	No Data	30/10/2020	5	5
26/10/2020	6	5	27/10/2020	6	5	28/10/2020	6	No Data	29/10/2020	6	No Data	30/10/2020	6	No Data
26/10/2020	7	5	27/10/2020	7	5	28/10/2020	7	No Data	29/10/2020	7	No Data	30/10/2020	7	No Data
26/10/2020	8	5	27/10/2020	8	5	28/10/2020	8	No Data	29/10/2020	8	No Data	30/10/2020	8	No Data
26/10/2020	9	5	27/10/2020	9	5	28/10/2020	9	5	29/10/2020	9	No Data	30/10/2020	9	No Data
26/10/2020	10	5	27/10/2020	10	5	28/10/2020	10	5	29/10/2020	10	No Data	30/10/2020	10	No Data
26/10/2020	11	5	27/10/2020	11	5	28/10/2020	11	5	29/10/2020	11	No Data	30/10/2020	11	No Data
26/10/2020	12	5	27/10/2020	12	5	28/10/2020	12	5	29/10/2020	12	No Data	30/10/2020	12	5
26/10/2020	13	5	27/10/2020	13	5	28/10/2020	13	5	29/10/2020	13	No Data	30/10/2020	13	5
26/10/2020	14	5	27/10/2020	14	5	28/10/2020	14	No Data	29/10/2020	14	No Data	30/10/2020	14	5
26/10/2020	15	5	27/10/2020	15	5	28/10/2020	15	No Data	29/10/2020	15	No Data	30/10/2020	15	5
26/10/2020	16	5	27/10/2020	16	5	28/10/2020	16	No Data	29/10/2020	16	No Data	30/10/2020	16	5
26/10/2020	17	5	27/10/2020	17	No Data	28/10/2020	17	No Data	29/10/2020	17	No Data	30/10/2020	17	5
26/10/2020	18	5	27/10/2020	18	No Data	28/10/2020	18	No Data	29/10/2020	18	No Data	30/10/2020	18	5
26/10/2020	19	5	27/10/2020	19	No Data	28/10/2020	19	No Data	29/10/2020	19	No Data	30/10/2020	19	5
26/10/2020	20	5	27/10/2020	20	No Data	28/10/2020	20	No Data	29/10/2020	20	No Data	30/10/2020	20	5
26/10/2020	21	5	27/10/2020	21	No Data	28/10/2020	21	No Data	29/10/2020	21	No Data	30/10/2020	21	5
26/10/2020	22	5	27/10/2020	22	No Data	28/10/2020	22	No Data	29/10/2020	22	No Data	30/10/2020	22	5
26/10/2020	23	5	27/10/2020	23	No Data	28/10/2020	23	No Data	29/10/2020	23	No Data	30/10/2020	23	5
Maximum		5*			5*			5*			No Data			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
31/10/2020	0	5												
31/10/2020	1	5												
31/10/2020	2	5												
31/10/2020	3	5												
31/10/2020	4	5												
31/10/2020	5	5												
31/10/2020	6	5												
31/10/2020	7	5												
31/10/2020	8	No Data												
31/10/2020	9	No Data												
31/10/2020	10	No Data												
31/10/2020	11	No Data												
31/10/2020	12	No Data												
31/10/2020	13	5												
31/10/2020	14	5												
31/10/2020	15	5												
31/10/2020	16	No Data												
31/10/2020	17	No Data												
31/10/2020	18	No Data												
31/10/2020	19	No Data												
31/10/2020	20	No Data												
31/10/2020	21	No Data												
31/10/2020	22	No Data												
31/10/2020	23	No Data												
Maximum		5*												

Table 6 SO₂ 1hr Data (ppb) – October 2020

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
1/10/2020	0	5	2/10/2020	0	5	3/10/2020	0	5	4/10/2020	0	No Data	5/10/2020	0	No Data
1/10/2020	1	5	2/10/2020	1	5	3/10/2020	1	5.4	4/10/2020	1	No Data	5/10/2020	1	No Data
1/10/2020	2	5	2/10/2020	2	6.7	3/10/2020	2	5	4/10/2020	2	No Data	5/10/2020	2	No Data
1/10/2020	3	5	2/10/2020	3	6.7	3/10/2020	3	6.3	4/10/2020	3	No Data	5/10/2020	3	No Data
1/10/2020	4	5	2/10/2020	4	5	3/10/2020	4	7.9	4/10/2020	4	No Data	5/10/2020	4	No Data
1/10/2020	5	5	2/10/2020	5	5	3/10/2020	5	5	4/10/2020	5	No Data	5/10/2020	5	No Data
1/10/2020	6	5	2/10/2020	6	13.3	3/10/2020	6	6.7	4/10/2020	6	No Data	5/10/2020	6	No Data
1/10/2020	7	5	2/10/2020	7	5	3/10/2020	7	5	4/10/2020	7	No Data	5/10/2020	7	No Data
1/10/2020	8	5	2/10/2020	8	5	3/10/2020	8	5	4/10/2020	8	No Data	5/10/2020	8	No Data
1/10/2020	9	5	2/10/2020	9	5	3/10/2020	9	5	4/10/2020	9	No Data	5/10/2020	9	No Data
1/10/2020	10	5	2/10/2020	10	5	3/10/2020	10	5	4/10/2020	10	No Data	5/10/2020	10	No Data
1/10/2020	11	5	2/10/2020	11	5	3/10/2020	11	5	4/10/2020	11	No Data	5/10/2020	11	No Data
1/10/2020	12	5	2/10/2020	12	5	3/10/2020	12	5	4/10/2020	12	No Data	5/10/2020	12	No Data
1/10/2020	13	5	2/10/2020	13	5	3/10/2020	13	5	4/10/2020	13	No Data	5/10/2020	13	No Data
1/10/2020	14	5	2/10/2020	14	5	3/10/2020	14	5	4/10/2020	14	No Data	5/10/2020	14	No Data
1/10/2020	15	5	2/10/2020	15	5	3/10/2020	15	No Data	4/10/2020	15	No Data	5/10/2020	15	No Data
1/10/2020	16	5	2/10/2020	16	5	3/10/2020	16	No Data	4/10/2020	16	No Data	5/10/2020	16	No Data
1/10/2020	17	5	2/10/2020	17	6.7	3/10/2020	17	No Data	4/10/2020	17	No Data	5/10/2020	17	No Data
1/10/2020	18	5	2/10/2020	18	5	3/10/2020	18	No Data	4/10/2020	18	No Data	5/10/2020	18	No Data
1/10/2020	19	5	2/10/2020	19	5	3/10/2020	19	No Data	4/10/2020	19	No Data	5/10/2020	19	No Data
1/10/2020	20	5	2/10/2020	20	5	3/10/2020	20	No Data	4/10/2020	20	No Data	5/10/2020	20	No Data
1/10/2020	21	5	2/10/2020	21	5	3/10/2020	21	No Data	4/10/2020	21	No Data	5/10/2020	21	No Data
1/10/2020	22	5	2/10/2020	22	5	3/10/2020	22	No Data	4/10/2020	22	No Data	5/10/2020	22	No Data
1/10/2020	23	5	2/10/2020	23	5	3/10/2020	23	No Data	4/10/2020	23	No Data	5/10/2020	23	No Data
Maximum		5*			13.3			7.9			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
6/10/2020	0	No Data	7/10/2020	0	No Data	8/10/2020	0	5.4	9/10/2020	0	5	10/10/2020	0	5
6/10/2020	1	No Data	7/10/2020	1	No Data	8/10/2020	1	5	9/10/2020	1	5	10/10/2020	1	5.4
6/10/2020	2	No Data	7/10/2020	2	No Data	8/10/2020	2	5.4	9/10/2020	2	5	10/10/2020	2	5
6/10/2020	3	No Data	7/10/2020	3	No Data	8/10/2020	3	5.4	9/10/2020	3	5	10/10/2020	3	5
6/10/2020	4	No Data	7/10/2020	4	No Data	8/10/2020	4	54.2	9/10/2020	4	5	10/10/2020	4	5
6/10/2020	5	No Data	7/10/2020	5	No Data	8/10/2020	5	17.9	9/10/2020	5	5	10/10/2020	5	5
6/10/2020	6	No Data	7/10/2020	6	No Data	8/10/2020	6	5	9/10/2020	6	5	10/10/2020	6	5
6/10/2020	7	No Data	7/10/2020	7	No Data	8/10/2020	7	5	9/10/2020	7	5	10/10/2020	7	5
6/10/2020	8	No Data	7/10/2020	8	No Data	8/10/2020	8	5	9/10/2020	8	5	10/10/2020	8	5
6/10/2020	9	No Data	7/10/2020	9	No Data	8/10/2020	9	5	9/10/2020	9	5	10/10/2020	9	5
6/10/2020	10	No Data	7/10/2020	10	No Data	8/10/2020	10	5	9/10/2020	10	5	10/10/2020	10	5
6/10/2020	11	No Data	7/10/2020	11	No Data	8/10/2020	11	5	9/10/2020	11	5	10/10/2020	11	5
6/10/2020	12	No Data	7/10/2020	12	No Data	8/10/2020	12	5	9/10/2020	12	5	10/10/2020	12	5
6/10/2020	13	No Data	7/10/2020	13	No Data	8/10/2020	13	5	9/10/2020	13	5	10/10/2020	13	5
6/10/2020	14	No Data	7/10/2020	14	No Data	8/10/2020	14	5	9/10/2020	14	5	10/10/2020	14	5
6/10/2020	15	No Data	7/10/2020	15	No Data	8/10/2020	15	5	9/10/2020	15	5	10/10/2020	15	5
6/10/2020	16	No Data	7/10/2020	16	No Data	8/10/2020	16	5	9/10/2020	16	5	10/10/2020	16	5
6/10/2020	17	No Data	7/10/2020	17	No Data	8/10/2020	17	5	9/10/2020	17	5	10/10/2020	17	5
6/10/2020	18	No Data	7/10/2020	18	No Data	8/10/2020	18	5	9/10/2020	18	5	10/10/2020	18	5
6/10/2020	19	No Data	7/10/2020	19	59.2	8/10/2020	19	5	9/10/2020	19	5	10/10/2020	19	5
6/10/2020	20	No Data	7/10/2020	20	5.4	8/10/2020	20	5	9/10/2020	20	5	10/10/2020	20	5
6/10/2020	21	No Data	7/10/2020	21	9.2	8/10/2020	21	5	9/10/2020	21	5	10/10/2020	21	5
6/10/2020	22	No Data	7/10/2020	22	14.2	8/10/2020	22	5	9/10/2020	22	5	10/10/2020	22	5
6/10/2020	23	No Data	7/10/2020	23	5	8/10/2020	23	5	9/10/2020	23	5	10/10/2020	23	5
Maximum		No Data			59.2			54.2			5*			5.4

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
11/10/2020	0	5	12/10/2020	0	5	13/10/2020	0	5	14/10/2020	0	5	15/10/2020	0	5
11/10/2020	1	5	12/10/2020	1	5	13/10/2020	1	5	14/10/2020	1	5	15/10/2020	1	5
11/10/2020	2	5	12/10/2020	2	5	13/10/2020	2	5	14/10/2020	2	5	15/10/2020	2	5.4
11/10/2020	3	5	12/10/2020	3	5	13/10/2020	3	5	14/10/2020	3	5	15/10/2020	3	5.8
11/10/2020	4	5.4	12/10/2020	4	5	13/10/2020	4	5	14/10/2020	4	5	15/10/2020	4	6.3
11/10/2020	5	5	12/10/2020	5	5.4	13/10/2020	5	5	14/10/2020	5	5	15/10/2020	5	9.2
11/10/2020	6	5	12/10/2020	6	5	13/10/2020	6	9.6	14/10/2020	6	5	15/10/2020	6	5
11/10/2020	7	5	12/10/2020	7	5	13/10/2020	7	5	14/10/2020	7	5	15/10/2020	7	5
11/10/2020	8	5	12/10/2020	8	5	13/10/2020	8	5	14/10/2020	8	5	15/10/2020	8	5
11/10/2020	9	5	12/10/2020	9	5	13/10/2020	9	5	14/10/2020	9	5	15/10/2020	9	5
11/10/2020	10	5	12/10/2020	10	5	13/10/2020	10	5	14/10/2020	10	5	15/10/2020	10	5
11/10/2020	11	5	12/10/2020	11	5	13/10/2020	11	5	14/10/2020	11	5	15/10/2020	11	5
11/10/2020	12	5	12/10/2020	12	5	13/10/2020	12	5	14/10/2020	12	5	15/10/2020	12	No Data
11/10/2020	13	5	12/10/2020	13	5	13/10/2020	13	5	14/10/2020	13	5	15/10/2020	13	No Data
11/10/2020	14	5	12/10/2020	14	5	13/10/2020	14	5	14/10/2020	14	5	15/10/2020	14	No Data
11/10/2020	15	5	12/10/2020	15	5	13/10/2020	15	5	14/10/2020	15	5	15/10/2020	15	No Data
11/10/2020	16	5	12/10/2020	16	5	13/10/2020	16	5	14/10/2020	16	5	15/10/2020	16	No Data
11/10/2020	17	7.9	12/10/2020	17	5	13/10/2020	17	5	14/10/2020	17	5	15/10/2020	17	No Data
11/10/2020	18	5	12/10/2020	18	5	13/10/2020	18	5	14/10/2020	18	5	15/10/2020	18	No Data
11/10/2020	19	5	12/10/2020	19	5	13/10/2020	19	5	14/10/2020	19	5	15/10/2020	19	No Data
11/10/2020	20	5	12/10/2020	20	5	13/10/2020	20	5	14/10/2020	20	5	15/10/2020	20	No Data
11/10/2020	21	5	12/10/2020	21	5	13/10/2020	21	5	14/10/2020	21	5	15/10/2020	21	No Data
11/10/2020	22	5	12/10/2020	22	5	13/10/2020	22	5	14/10/2020	22	5	15/10/2020	22	No Data
11/10/2020	23	5	12/10/2020	23	5	13/10/2020	23	5	14/10/2020	23	5	15/10/2020	23	No Data
Maximum		7.9			5.4			9.6			5*			9.2

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
16/10/2020	0	No Data	17/10/2020	0	No Data	18/10/2020	0	No Data	19/10/2020	0	No Data	20/10/2020	0	No Data
16/10/2020	1	No Data	17/10/2020	1	No Data	18/10/2020	1	No Data	19/10/2020	1	No Data	20/10/2020	1	No Data
16/10/2020	2	No Data	17/10/2020	2	No Data	18/10/2020	2	No Data	19/10/2020	2	No Data	20/10/2020	2	No Data
16/10/2020	3	No Data	17/10/2020	3	No Data	18/10/2020	3	No Data	19/10/2020	3	No Data	20/10/2020	3	No Data
16/10/2020	4	No Data	17/10/2020	4	No Data	18/10/2020	4	No Data	19/10/2020	4	No Data	20/10/2020	4	No Data
16/10/2020	5	No Data	17/10/2020	5	No Data	18/10/2020	5	No Data	19/10/2020	5	No Data	20/10/2020	5	No Data
16/10/2020	6	No Data	17/10/2020	6	No Data	18/10/2020	6	No Data	19/10/2020	6	No Data	20/10/2020	6	No Data
16/10/2020	7	No Data	17/10/2020	7	No Data	18/10/2020	7	No Data	19/10/2020	7	No Data	20/10/2020	7	No Data
16/10/2020	8	No Data	17/10/2020	8	No Data	18/10/2020	8	No Data	19/10/2020	8	No Data	20/10/2020	8	No Data
16/10/2020	9	No Data	17/10/2020	9	No Data	18/10/2020	9	No Data	19/10/2020	9	No Data	20/10/2020	9	No Data
16/10/2020	10	No Data	17/10/2020	10	No Data	18/10/2020	10	No Data	19/10/2020	10	No Data	20/10/2020	10	No Data
16/10/2020	11	No Data	17/10/2020	11	No Data	18/10/2020	11	No Data	19/10/2020	11	No Data	20/10/2020	11	No Data
16/10/2020	12	No Data	17/10/2020	12	No Data	18/10/2020	12	No Data	19/10/2020	12	No Data	20/10/2020	12	No Data
16/10/2020	13	No Data	17/10/2020	13	No Data	18/10/2020	13	No Data	19/10/2020	13	No Data	20/10/2020	13	No Data
16/10/2020	14	No Data	17/10/2020	14	No Data	18/10/2020	14	No Data	19/10/2020	14	No Data	20/10/2020	14	No Data
16/10/2020	15	No Data	17/10/2020	15	No Data	18/10/2020	15	No Data	19/10/2020	15	No Data	20/10/2020	15	No Data
16/10/2020	16	No Data	17/10/2020	16	No Data	18/10/2020	16	No Data	19/10/2020	16	No Data	20/10/2020	16	No Data
16/10/2020	17	No Data	17/10/2020	17	No Data	18/10/2020	17	No Data	19/10/2020	17	No Data	20/10/2020	17	No Data
16/10/2020	18	No Data	17/10/2020	18	No Data	18/10/2020	18	No Data	19/10/2020	18	No Data	20/10/2020	18	No Data
16/10/2020	19	No Data	17/10/2020	19	No Data	18/10/2020	19	No Data	19/10/2020	19	No Data	20/10/2020	19	No Data
16/10/2020	20	No Data	17/10/2020	20	No Data	18/10/2020	20	No Data	19/10/2020	20	No Data	20/10/2020	20	No Data
16/10/2020	21	No Data	17/10/2020	21	No Data	18/10/2020	21	No Data	19/10/2020	21	No Data	20/10/2020	21	No Data
16/10/2020	22	No Data	17/10/2020	22	No Data	18/10/2020	22	No Data	19/10/2020	22	No Data	20/10/2020	22	No Data
16/10/2020	23	No Data	17/10/2020	23	No Data	18/10/2020	23	No Data	19/10/2020	23	No Data	20/10/2020	23	No Data
Maximum		No Data			No Data			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
21/10/2020	0	No Data	22/10/2020	0	No Data	23/10/2020	0	No Data	24/10/2020	0	19.2	25/10/2020	0	5
21/10/2020	1	No Data	22/10/2020	1	No Data	23/10/2020	1	No Data	24/10/2020	1	22.5	25/10/2020	1	5
21/10/2020	2	No Data	22/10/2020	2	No Data	23/10/2020	2	No Data	24/10/2020	2	9.2	25/10/2020	2	5
21/10/2020	3	No Data	22/10/2020	3	No Data	23/10/2020	3	No Data	24/10/2020	3	8.8	25/10/2020	3	5
21/10/2020	4	No Data	22/10/2020	4	No Data	23/10/2020	4	No Data	24/10/2020	4	15.4	25/10/2020	4	6.3
21/10/2020	5	No Data	22/10/2020	5	No Data	23/10/2020	5	No Data	24/10/2020	5	5	25/10/2020	5	5
21/10/2020	6	No Data	22/10/2020	6	No Data	23/10/2020	6	No Data	24/10/2020	6	5	25/10/2020	6	5
21/10/2020	7	No Data	22/10/2020	7	No Data	23/10/2020	7	No Data	24/10/2020	7	5	25/10/2020	7	5
21/10/2020	8	No Data	22/10/2020	8	No Data	23/10/2020	8	No Data	24/10/2020	8	5	25/10/2020	8	5
21/10/2020	9	No Data	22/10/2020	9	No Data	23/10/2020	9	No Data	24/10/2020	9	5	25/10/2020	9	5
21/10/2020	10	No Data	22/10/2020	10	No Data	23/10/2020	10	No Data	24/10/2020	10	5	25/10/2020	10	5
21/10/2020	11	No Data	22/10/2020	11	No Data	23/10/2020	11	5.4	24/10/2020	11	5.4	25/10/2020	11	5
21/10/2020	12	No Data	22/10/2020	12	No Data	23/10/2020	12	5	24/10/2020	12	6.7	25/10/2020	12	5
21/10/2020	13	No Data	22/10/2020	13	No Data	23/10/2020	13	5	24/10/2020	13	5	25/10/2020	13	5
21/10/2020	14	No Data	22/10/2020	14	No Data	23/10/2020	14	5	24/10/2020	14	7.1	25/10/2020	14	5
21/10/2020	15	No Data	22/10/2020	15	No Data	23/10/2020	15	5	24/10/2020	15	6.3	25/10/2020	15	5
21/10/2020	16	No Data	22/10/2020	16	No Data	23/10/2020	16	5	24/10/2020	16	5.4	25/10/2020	16	5
21/10/2020	17	No Data	22/10/2020	17	No Data	23/10/2020	17	5	24/10/2020	17	5.4	25/10/2020	17	5
21/10/2020	18	No Data	22/10/2020	18	No Data	23/10/2020	18	8.8	24/10/2020	18	7.1	25/10/2020	18	5
21/10/2020	19	No Data	22/10/2020	19	No Data	23/10/2020	19	27.5	24/10/2020	19	5	25/10/2020	19	5
21/10/2020	20	No Data	22/10/2020	20	No Data	23/10/2020	20	26.7	24/10/2020	20	5	25/10/2020	20	5
21/10/2020	21	No Data	22/10/2020	21	No Data	23/10/2020	21	22.5	24/10/2020	21	5	25/10/2020	21	5
21/10/2020	22	No Data	22/10/2020	22	No Data	23/10/2020	22	23.3	24/10/2020	22	5	25/10/2020	22	5
21/10/2020	23	No Data	22/10/2020	23	No Data	23/10/2020	23	20.0	24/10/2020	23	5	25/10/2020	23	5
Maximum		No Data			No Data			27.5			22.5			6.3

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
26/10/2020	0	5	27/10/2020	0	5	28/10/2020	0	No Data	29/10/2020	0	No Data	30/10/2020	0	No Data
26/10/2020	1	5	27/10/2020	1	5	28/10/2020	1	No Data	29/10/2020	1	No Data	30/10/2020	1	No Data
26/10/2020	2	5	27/10/2020	2	5	28/10/2020	2	No Data	29/10/2020	2	No Data	30/10/2020	2	5
26/10/2020	3	6.3	27/10/2020	3	5	28/10/2020	3	No Data	29/10/2020	3	No Data	30/10/2020	3	5
26/10/2020	4	5	27/10/2020	4	5	28/10/2020	4	No Data	29/10/2020	4	No Data	30/10/2020	4	5
26/10/2020	5	5	27/10/2020	5	5	28/10/2020	5	No Data	29/10/2020	5	No Data	30/10/2020	5	5
26/10/2020	6	5	27/10/2020	6	5	28/10/2020	6	No Data	29/10/2020	6	No Data	30/10/2020	6	No Data
26/10/2020	7	5	27/10/2020	7	5	28/10/2020	7	No Data	29/10/2020	7	No Data	30/10/2020	7	No Data
26/10/2020	8	5	27/10/2020	8	5	28/10/2020	8	No Data	29/10/2020	8	No Data	30/10/2020	8	No Data
26/10/2020	9	5	27/10/2020	9	5	28/10/2020	9	5	29/10/2020	9	No Data	30/10/2020	9	No Data
26/10/2020	10	5	27/10/2020	10	5	28/10/2020	10	5	29/10/2020	10	No Data	30/10/2020	10	No Data
26/10/2020	11	5	27/10/2020	11	5	28/10/2020	11	5	29/10/2020	11	No Data	30/10/2020	11	No Data
26/10/2020	12	5	27/10/2020	12	5	28/10/2020	12	5	29/10/2020	12	No Data	30/10/2020	12	5
26/10/2020	13	5	27/10/2020	13	5	28/10/2020	13	5	29/10/2020	13	No Data	30/10/2020	13	5
26/10/2020	14	5	27/10/2020	14	5	28/10/2020	14	No Data	29/10/2020	14	No Data	30/10/2020	14	5
26/10/2020	15	5	27/10/2020	15	5	28/10/2020	15	No Data	29/10/2020	15	No Data	30/10/2020	15	5
26/10/2020	16	5	27/10/2020	16	5	28/10/2020	16	No Data	29/10/2020	16	No Data	30/10/2020	16	5
26/10/2020	17	5	27/10/2020	17	No Data	28/10/2020	17	No Data	29/10/2020	17	No Data	30/10/2020	17	5
26/10/2020	18	5	27/10/2020	18	No Data	28/10/2020	18	No Data	29/10/2020	18	No Data	30/10/2020	18	5
26/10/2020	19	5	27/10/2020	19	No Data	28/10/2020	19	No Data	29/10/2020	19	No Data	30/10/2020	19	5
26/10/2020	20	5	27/10/2020	20	No Data	28/10/2020	20	No Data	29/10/2020	20	No Data	30/10/2020	20	5
26/10/2020	21	5	27/10/2020	21	No Data	28/10/2020	21	No Data	29/10/2020	21	No Data	30/10/2020	21	5
26/10/2020	22	5	27/10/2020	22	No Data	28/10/2020	22	No Data	29/10/2020	22	No Data	30/10/2020	22	5
26/10/2020	23	5	27/10/2020	23	No Data	28/10/2020	23	No Data	29/10/2020	23	No Data	30/10/2020	23	5
Maximum		6.3			5*			5*			No Data			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
31/10/2020	0	5												
31/10/2020	1	5												
31/10/2020	2	5												
31/10/2020	3	5												
31/10/2020	4	5												
31/10/2020	5	5												
31/10/2020	6	5												
31/10/2020	7	5												
31/10/2020	8	No Data												
31/10/2020	9	No Data												
31/10/2020	10	No Data												
31/10/2020	11	No Data												
31/10/2020	12	No Data												
31/10/2020	13	5												
31/10/2020	14	5												
31/10/2020	15	5												
31/10/2020	16	No Data												
31/10/2020	17	No Data												
31/10/2020	18	No Data												
31/10/2020	19	No Data												
31/10/2020	20	No Data												
31/10/2020	21	No Data												
31/10/2020	22	No Data												
31/10/2020	23	No Data												
Maximum		5*												

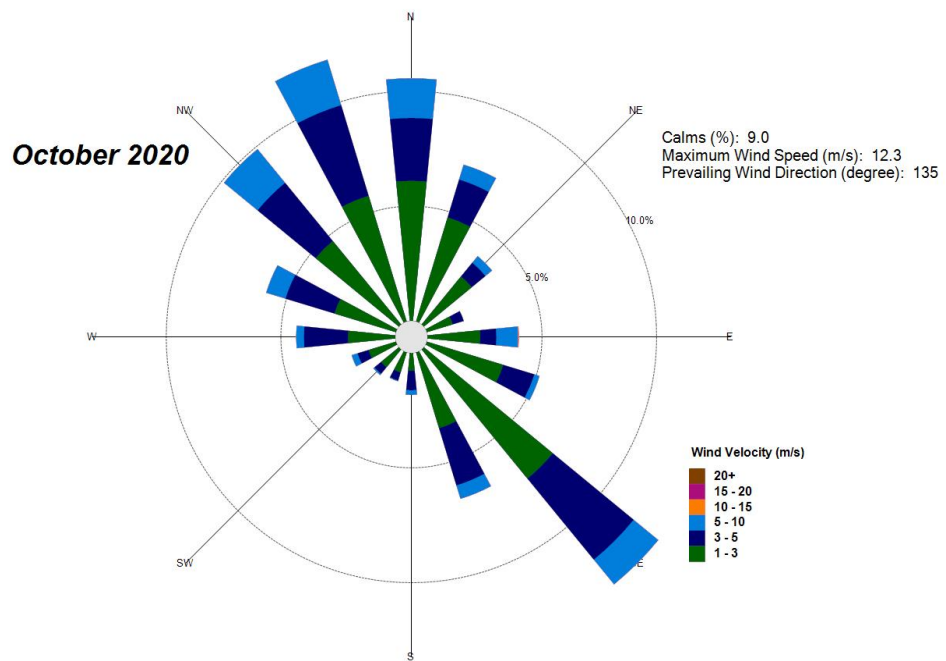


Figure 4 MCC October 2020 Meteorology Data