

GLENCORE

Ravensworth Complex

Monthly Pollution Monitoring Report

March 2020

Note: This report will be edited and re-uploaded onto the internet within 14 days of obtaining any data that has not been included in this report.

A map of EPL 2652 monitoring locations can be found at
<http://www.ravensworthoperations.com.au/en/publications/Pages/environmental-monitoring-maps.aspx>

DNR = Data Not Received.

License Holder: Ravensworth Operations Pty Ltd

Site Address: Ravensworth Mining Complex, off Lemington Road, Ravensworth, NSW, 2333

EPL Number: 2652

DEFINITIONS

Abbreviation	Explanation
mm/s	Millimetres per second
db	Decibels
g/m ² /month	Grams per metre square per month
µg/m ³	Micrograms per Cubic Meter of Air
µS/cm	Microsiemens Per Centimeter
pH	A measure of the acidity or alkalinity of a solution
mg/L	Milligrams per litre
NTU	Nephelometric turbidity units
ML/day	Megalitres per day
KL/day	Kilolitres per day
PM10	Particulate Matter of 10 Microns in diameter or smaller
HVAS	High Volume Air Sampler
TSP	Total suspended particles
TSS	Total suspended solids

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BLAST

March 2020

Sampled: Every Blast Event

Obtained: As per date of blast

Published: 17/04/2020

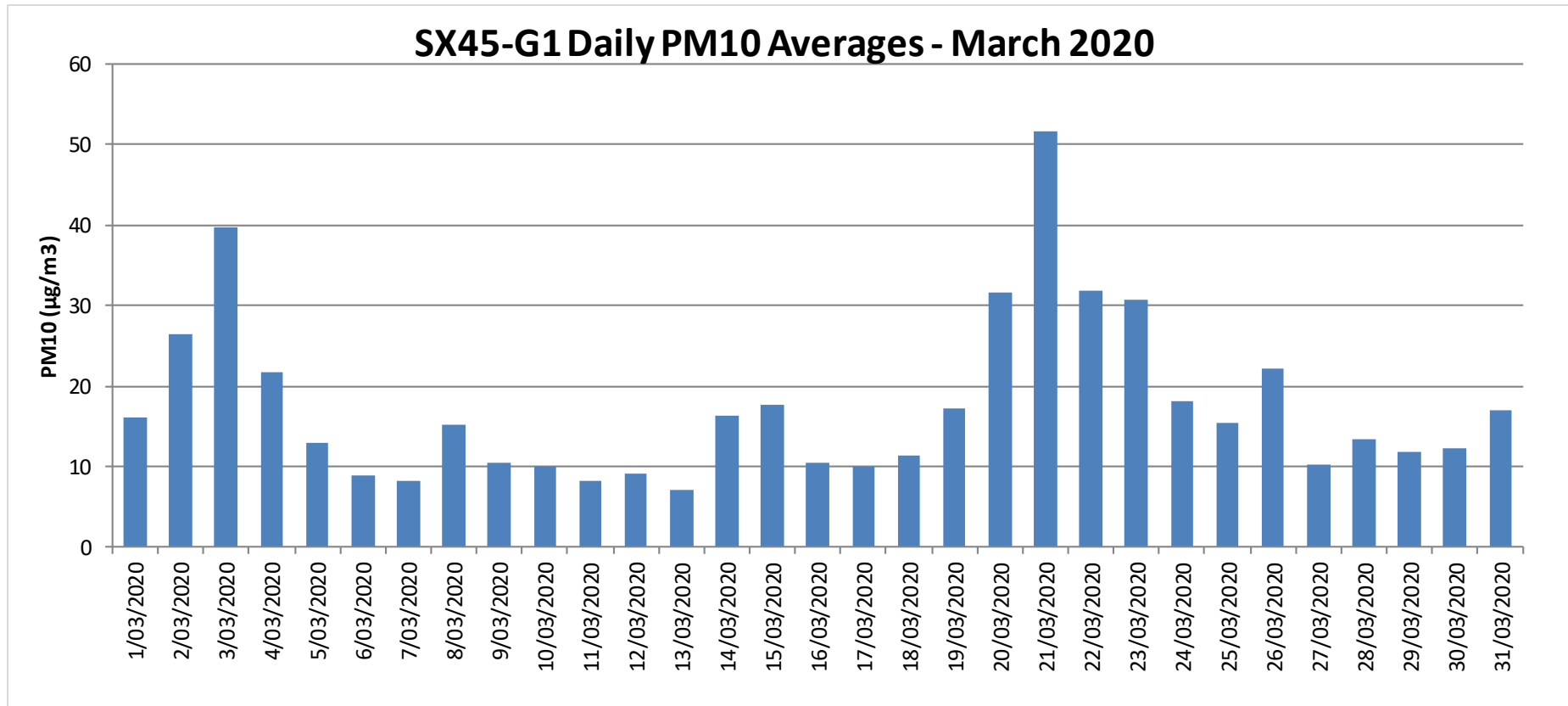
Date/Time	Overpressure (dB)					Vibration (mm/s)				
	BWM - Bowman Residence EPL Point 8	CWL - Camberwell Village EPL Point 7	Allowable Exceedance of 5% of total blasts over 12 month period	Limit	Identified Exceedances (Yes/No)	BWM - Bowman Residence EPL Point 8	CWL - Camberwell Village EPL Point 7	Allowable Exceedance of 5% of total blasts over 12 month period	Limit	Identified Exceedances (Yes/No)
2/03/2020 13:00	98.7	86.6	115	120	N	0.05	0.04	5	10	N
4/03/2020 16:55	92.4	95	115	120	N	0.07	0.06	5	10	N
6/03/2020 13:09	97.2	99	115	120	N	0.14	0.1	5	10	N
9/03/2020 16:06	100.2	90	115	120	N	0.04	0.03	5	10	N
10/03/2020 16:10	94.7	104	115	120	N	0.12	0.08	5	10	N
11/03/2020 13:08	103.4	85.8	115	120	N	0.08	0.06	5	10	N
12/03/2020 13:00	90.1	89	115	120	N	0.05	0.04	5	10	N
13/03/2020 13:00	85.7	79.8	115	120	N	0.01	0.04	5	10	N
13/03/2020 13:01	82.4	85	115	120	N	0.35	0.2	5	10	N
13/03/2020 13:04	88	90.4	115	120	N	0.03	0.08	5	10	N
17/03/2020 12:58	86.9	91.5	115	120	N	0.03	0.03	5	10	N
18/03/2020 16:00	92	92.3	115	120	N	0.15	0.1	5	10	N
19/03/2020 12:59	92.2	86.4	115	120	N	0.13	0.1	5	10	N
20/03/2020 13:04	108.7	97.7	115	120	N	0.03	0.03	5	10	N

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DUST TEOMS

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Sampled: Continuous
Obtained: 02/04/2020
Published: 17/04/2020

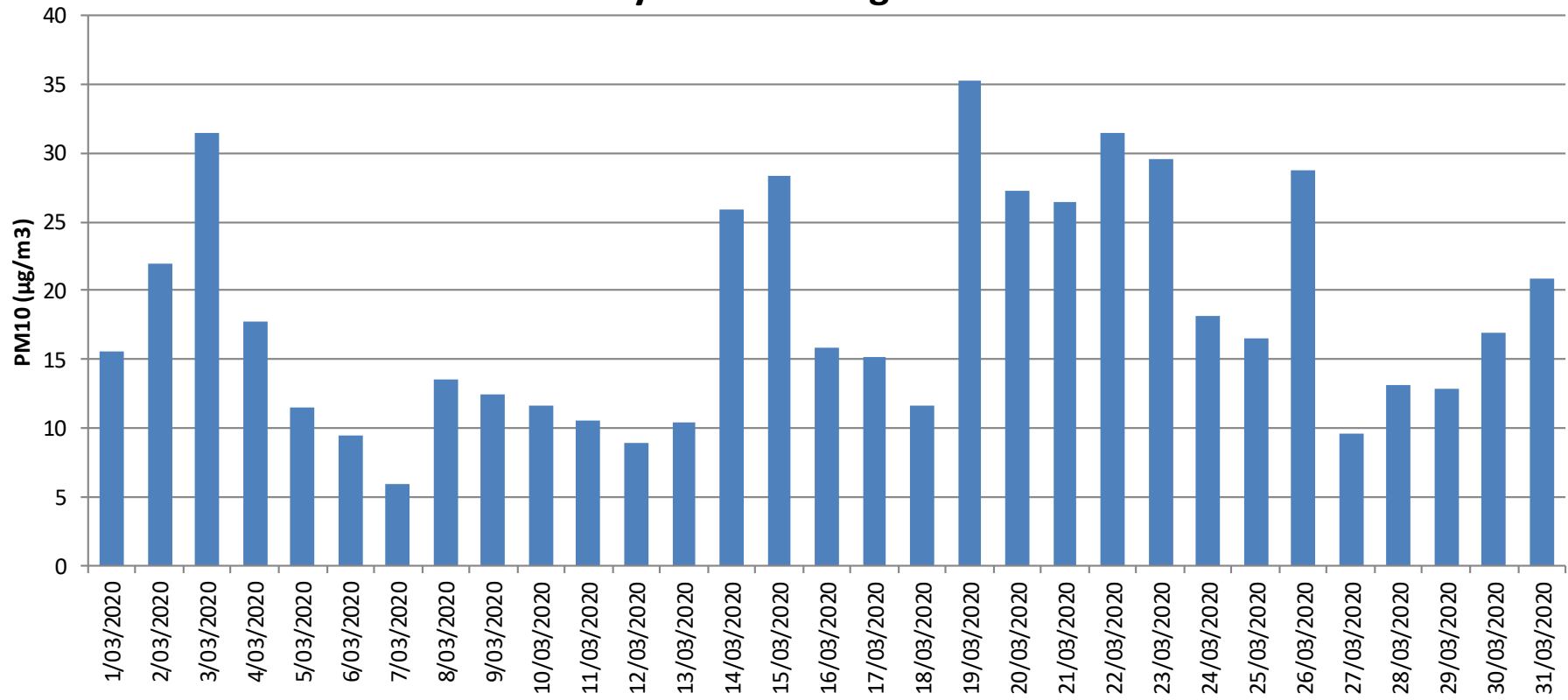


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SX45-G2 Daily PM10 Averages - March 2020



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DISCHARGE MONITORING

March 2020

No discharge events occurred during March.

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NOISE MONITORING

March 2020

Sampled: As Specified

Obtained: 27/03/2020

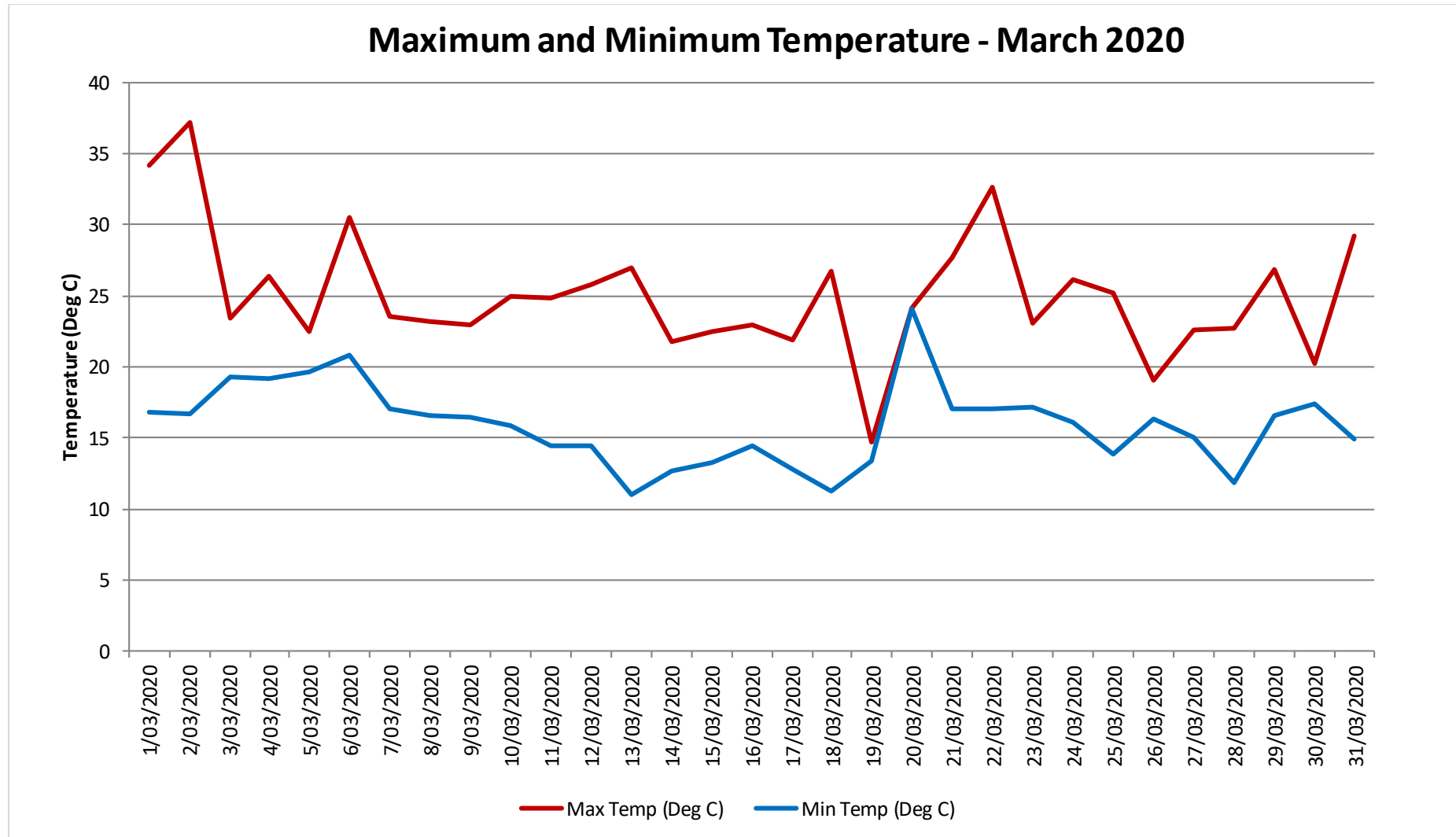
Published: 17/04/2020

Monitoring Location	Receiver Location	Date and Time	dB(A), Leq	Ravensworth Mine Complex Contribution dB(A), Leq	Criterion dB(A) Leq	dB(A), L1 (1min) ¹	Criterion dB(A), L1 (1min) ¹	Stability Class	Wind speed (m/s)	Wind direction (°)	Compliant
Site 2	R2	18/03/2020 9:57 pm	34	27	35	30	45	F	0.5	186	Yes
Site 3	R3	18/03/2020 10:50 pm	40	<20	35	<20	45	F	0.2	34	Yes
Site 5	R3	18/03/2020 11:16 pm	53	<20	35	<20	45	F	0.4	189	Yes
Site 6	R4	18/03/2020 11:35 pm	50	<20	35	<20	45	F	0.2	54	Yes

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Meteorological Data

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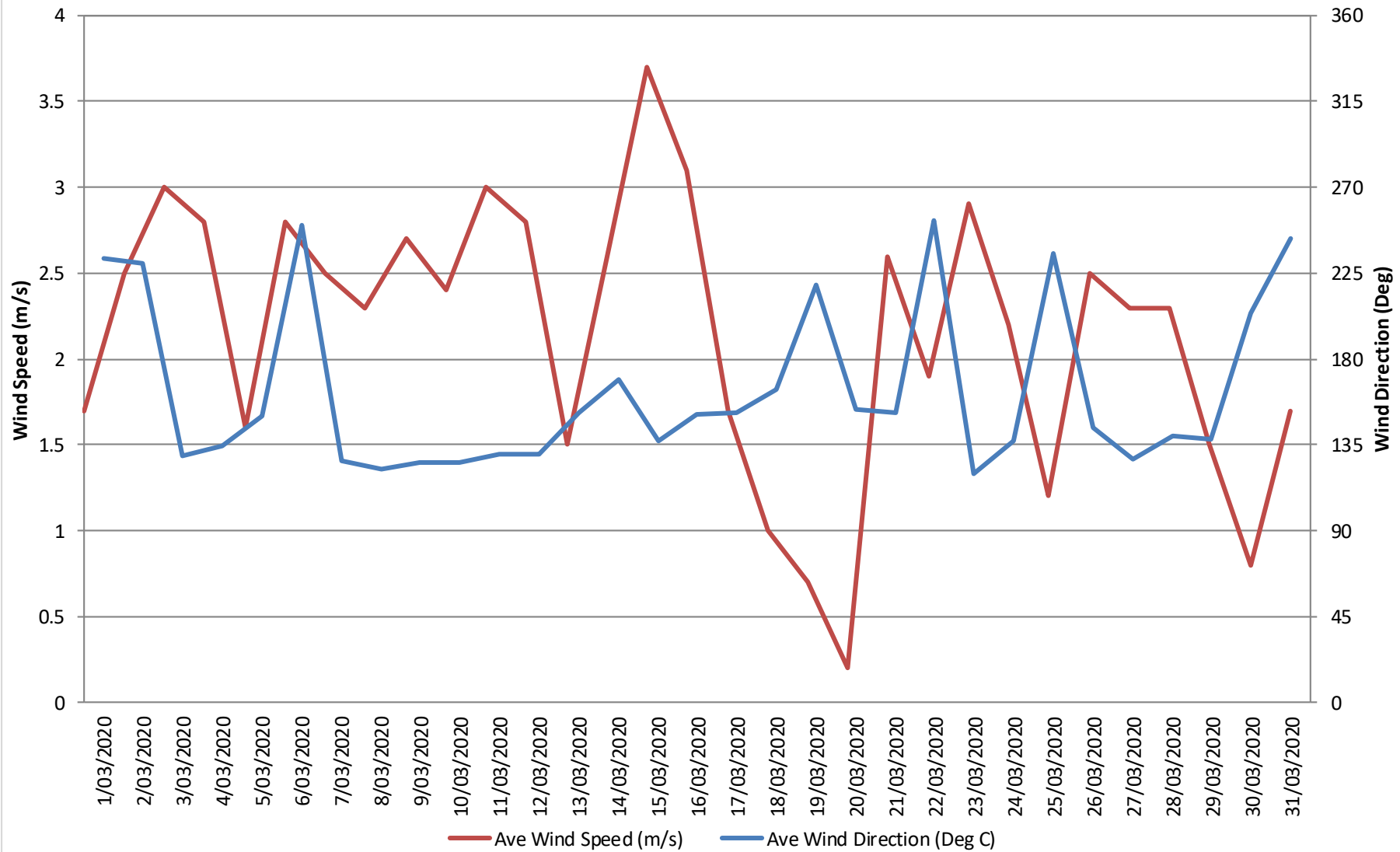


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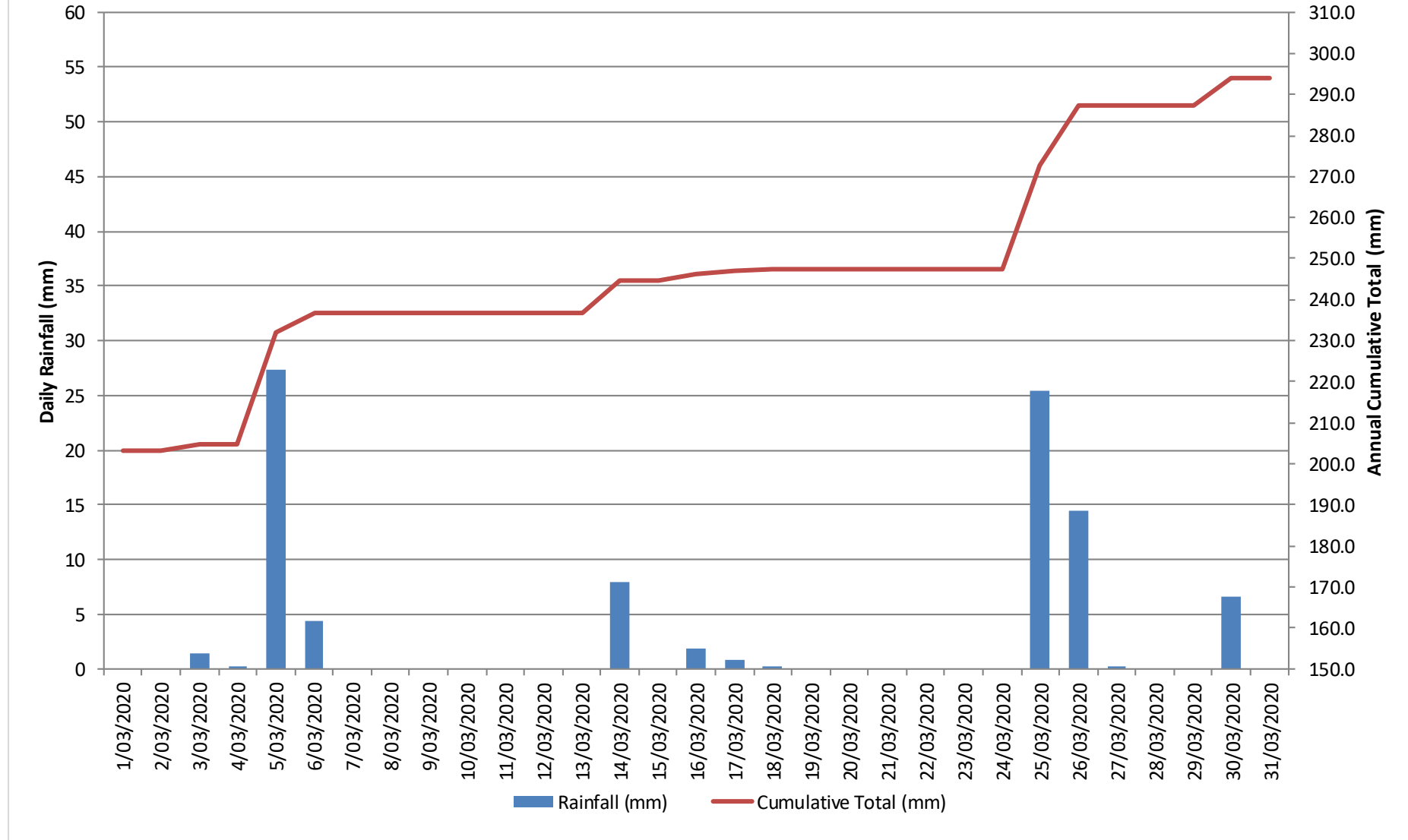
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Average Wind Speed and Direction - March 2020



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Daily and Total Rainfall - March 2020



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