

GLENCORE

Ravensworth Complex

Monthly Pollution Monitoring Report

January 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

January 2020

Sampled: Every Blast Event

Obtained: As per date of blast

Published: 26/02/2020

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)
2/01/2020 13:01	87	92.5	115	120	N	0.1	0.07	5	10	N
7/01/2020 16:02	87.1	85.8	115	120	N	0.04	0.04	5	10	N
7/01/2020 16:03	85.5	90.6	115	120	N	0.12	0.09	5	10	N
7/01/2020 16:04	85.3	98.8	115	120	N	0.02	0.02	5	10	N
10/01/2020 13:05	85.2	89.2	115	120	N	0.17	0.16	5	10	N
10/01/2020 13:07	85	84.3	115	120	N	0.09	0.06	5	10	N
14/01/2020 13:06	93.5	88.1	115	120	N	0.07	0.07	5	10	N
15/01/2020 13:16	87.6	90.2	115	120	N	0.11	0.09	5	10	N
15/01/2020 13:17	85.4	85.4	115	120	N	0.16	0.1	5	10	N
16/01/2020 12:09	109.6	106	115	120	N	0.07	0.05	5	10	N
24/01/2020 13:03	95.1	92.9	115	120	N	0.04	0.04	5	10	N
24/01/2020 13:04	111.6	95.7	115	120	N	0.09	0.06	5	10	N
24/01/2020 13:05	109.5	91.9	115	120	N	0.26	0.11	5	10	N
29/01/2020 13:08	98.2	86.4	115	120	N	0.07	0.06	5	10	N
29/01/2020 13:09	93.8	90.7	115	120	N	0.16	0.1	5	10	N
30/01/2020 12:59	92.9	91.9	115	120	N	0.06	0.05	5	10	N

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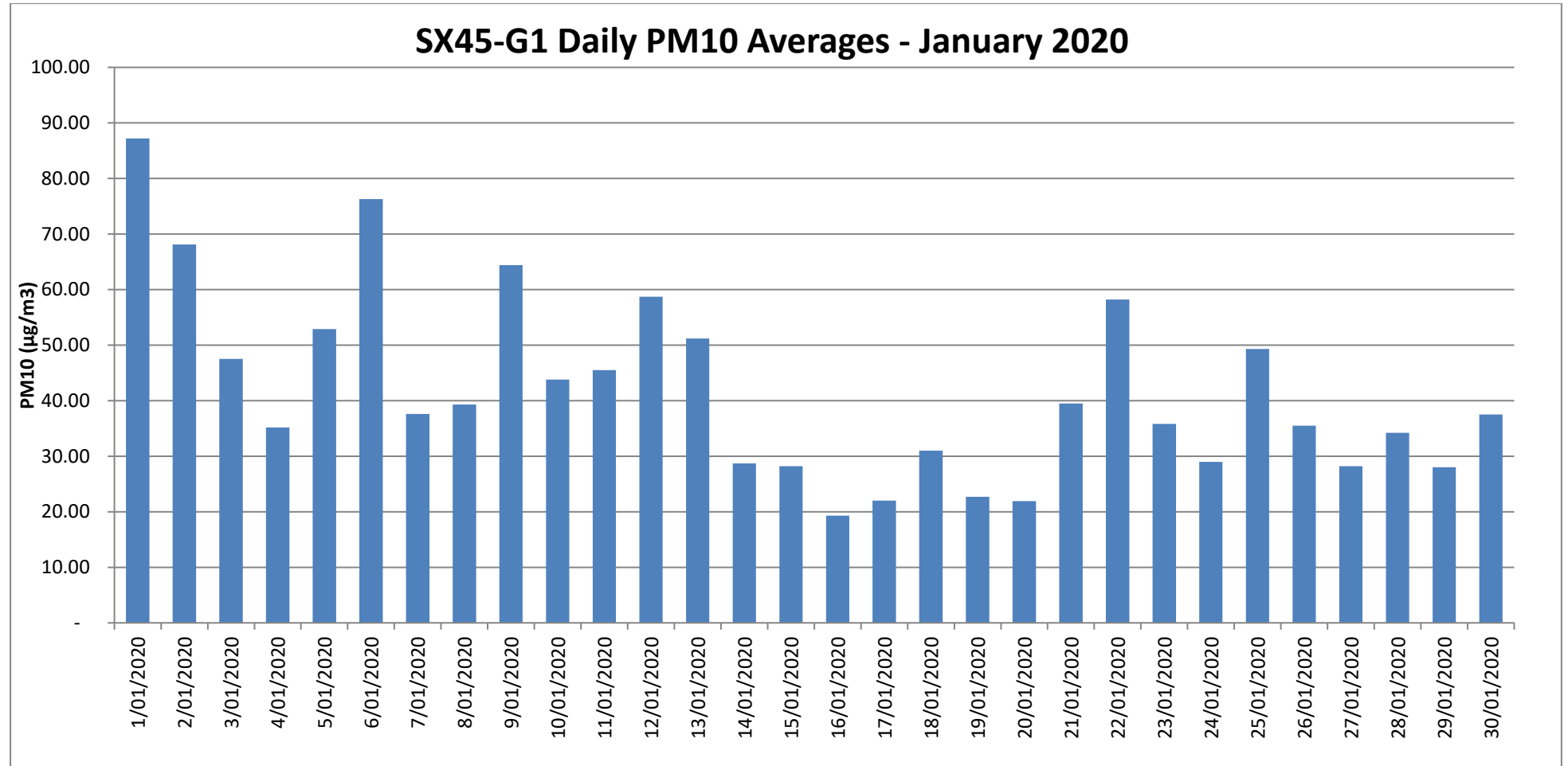
DUST TEOMs

January 2020

Sampled: Continuous

Obtained: 8/01/2020

Published: 26/02/2020

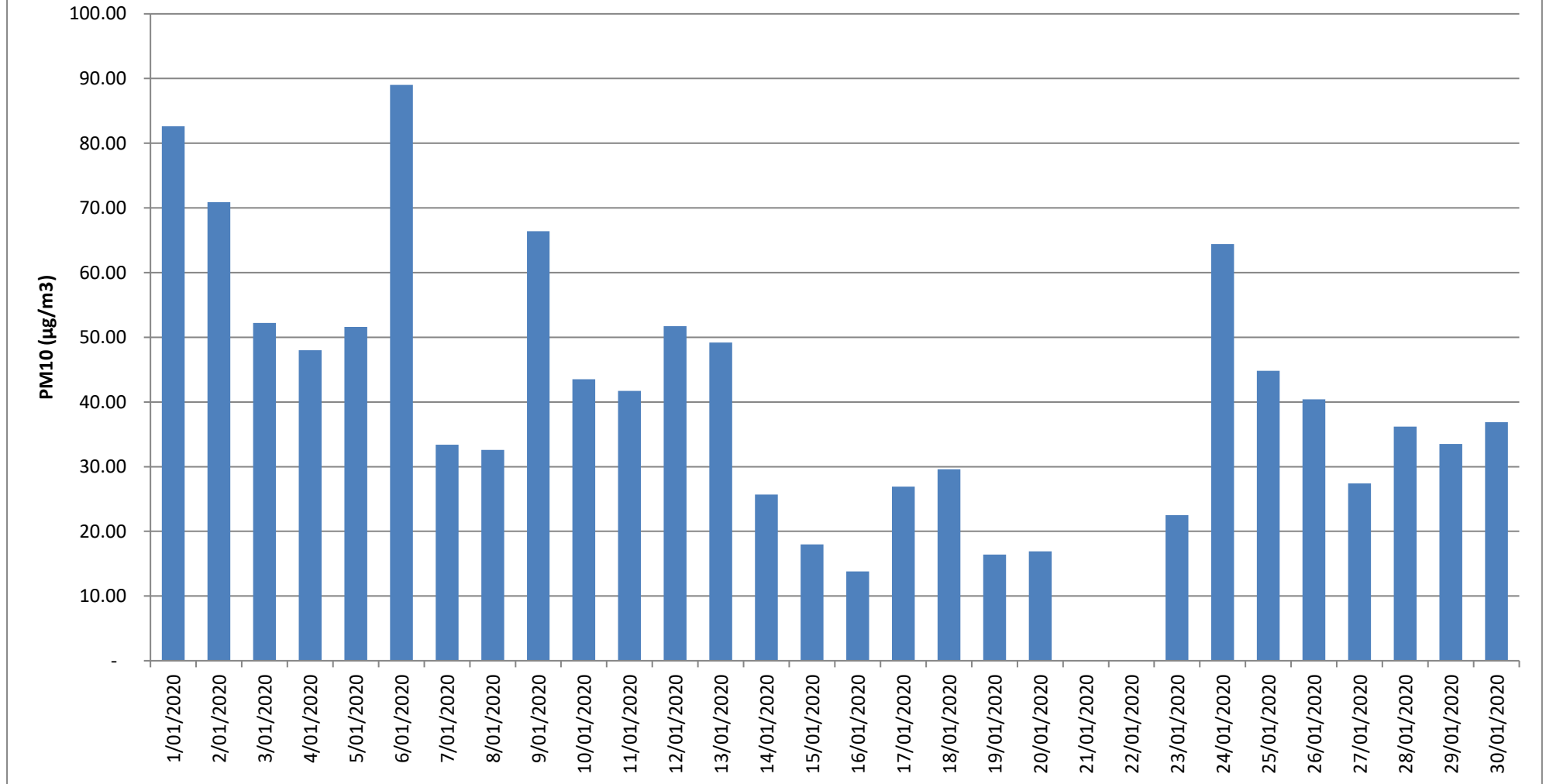


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SX45-G2 Daily PM10 Averages - January 2020



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DISCHARGE MONITORING

January 2020

No discharge events occurred during January.

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EPL Number: 2652

NOISE MONITORING

January 2020

Sampled: As Specified

Obtained: 17/02/2020

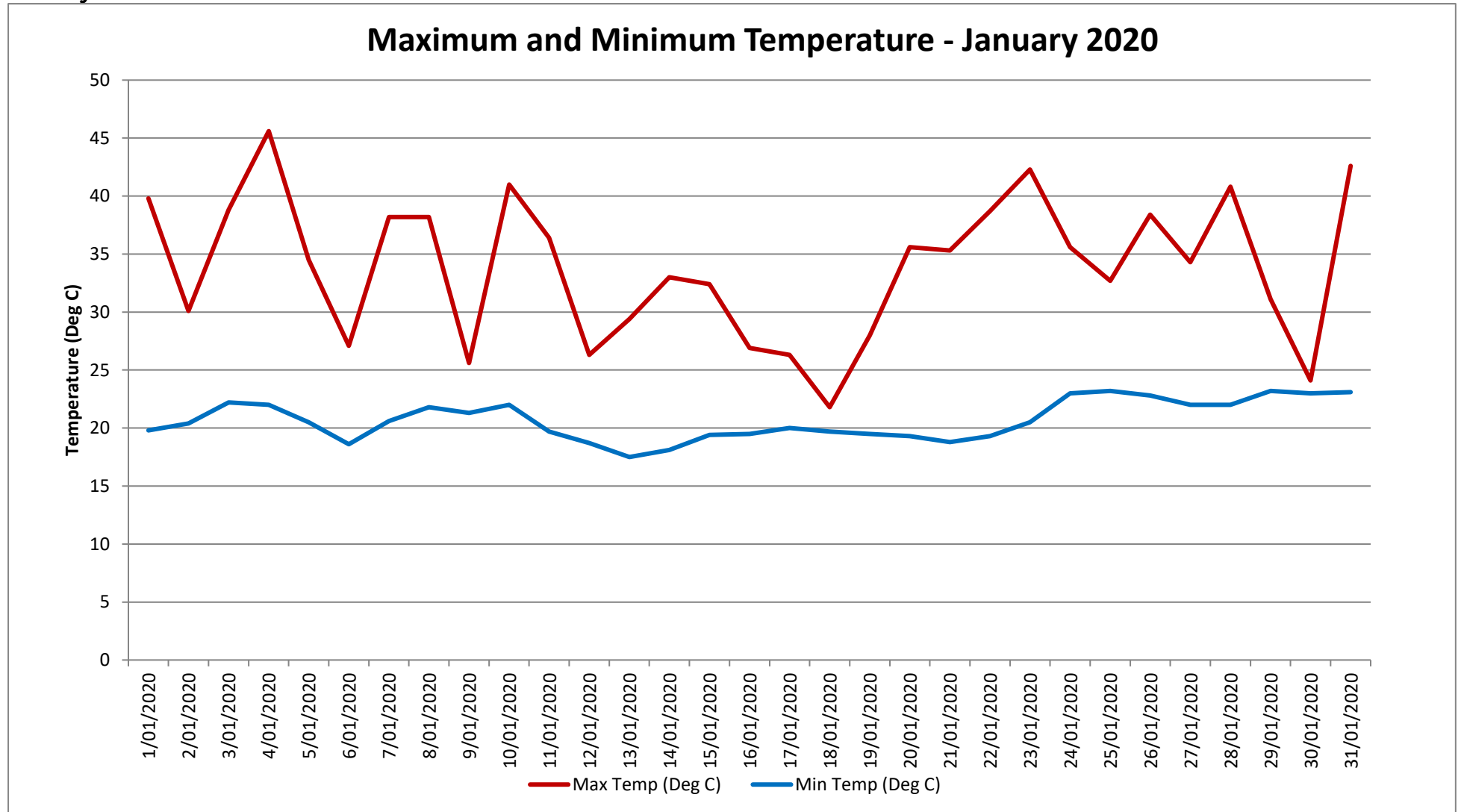
Published: 26/02/2020

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	15/01/20 10:00 pm	33	25	35	28	45	F	1.7	171	Yes
Site 3	R3	15/01/20 10:29 pm	35	<20	35	<20	45	F	1.8	165	Yes
Site 5	R3	15/01/20 10:51 pm	49	<20	35	<20	45	F	0.4	181	Yes
Site 6	R4	15/01/20 11:12 pm	47	25	35	26	45	F	1.8	147	Yes

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Meteorological Data

January 2020

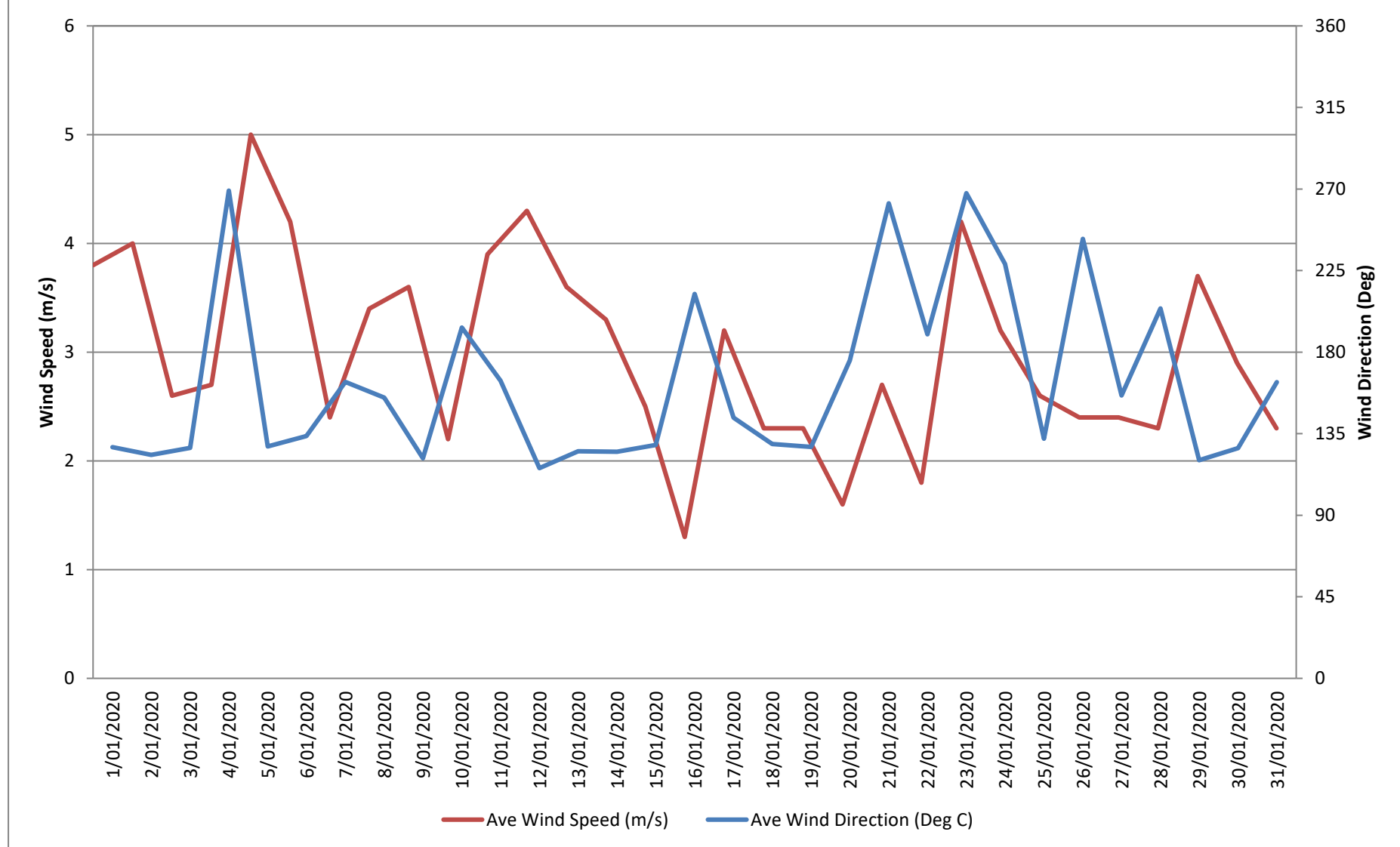


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Average Wind Speed and Direction - January 2020

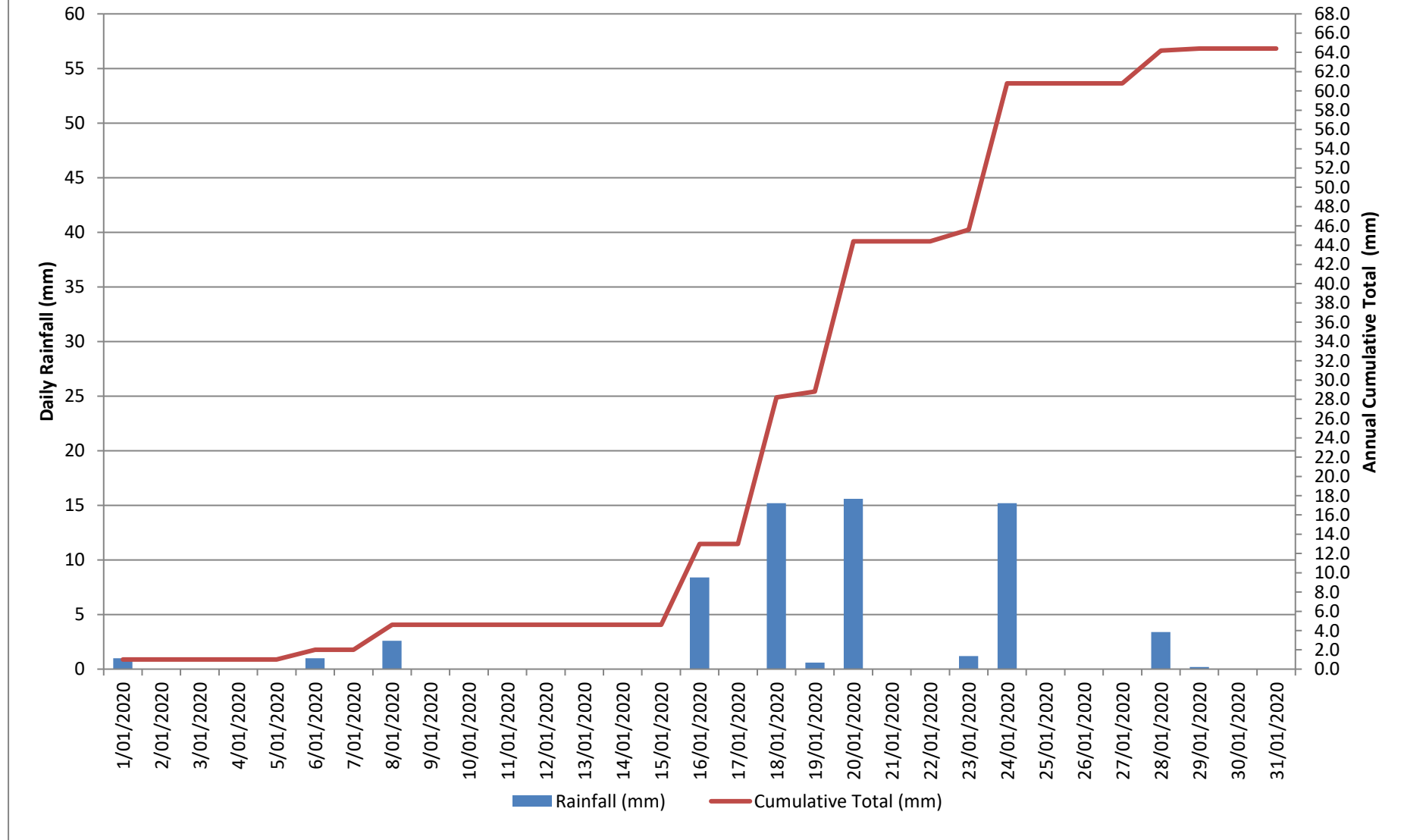


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Daily and Total Rainfall - January 2020



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