

**SANDFIRE RESOURCES AMERICA, INC.
BLACK BUTTE COPPER PROJECT
METEOROLOGICAL
MONITORING PROGRAM
Quarterly Data Report
First Quarter 2023**

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CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the meteorological conditions measured at the Black Butte Copper Project monitoring site. Every effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan*, the *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume I, A Field Guide to Environmental Quality Assurance (April 1994)*, *Volume II, Ambient Air Quality Program (May 2013)*, and *Volume IV, Meteorological Measurements (March 2008)*.

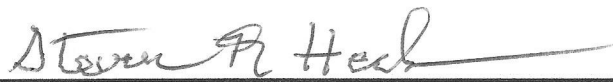
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APPENDICES

Appendix A: Meteorological Data

1.0 INTRODUCTION

Sandfire Resources America, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize the local meteorology and collect baseline data in support of an operating permit application and various environmental studies.

The meteorological monitoring system was installed in April 2012. The site is operated by Bison Engineering, Inc., of Helena and Billings. Figure 1 shows the current location of the monitoring site, depicted by a red star. It is located to the west-southwest of the core shed buildings. On February 6, 2018, the tower was shut down and moved to a new location approximately 300 feet southwest of the original location, where monitoring resumed on March 7, 2018. Relocation activities were documented in the monitoring report for the first quarter of 2018.

This report presents the meteorological data collected during the first quarter (January through March) of 2023. In addition, a description of the monitoring system operations is presented; there were no quality assurance activities conducted during the first quarter of 2023. Tabular summaries of the data completeness achieved, and the periods of missing data also are presented. Appendix A presents hourly meteorological data collected.

On June 23, 2015, an evaporation pan and manual precipitation gauge were installed adjacent to the existing meteorological system. The evaporation data was used for hydrological / water balance studies. The manual rain gauge was installed to provide a backup data source for the automatic rain gauge, which experienced occasional mechanical problems around that time. Neither the evaporation pan nor manual rain gauge were operated during the first quarter of 2023. While the automatic rain gauge includes an AC-powered heater for accurate measurement of frozen precipitation, the AC power to the station became unreliable starting in 2022. Therefore, precipitation data collected from 2022 forward is unreliable during periods of frozen precipitation.

Figure 1. Monitoring Site Location

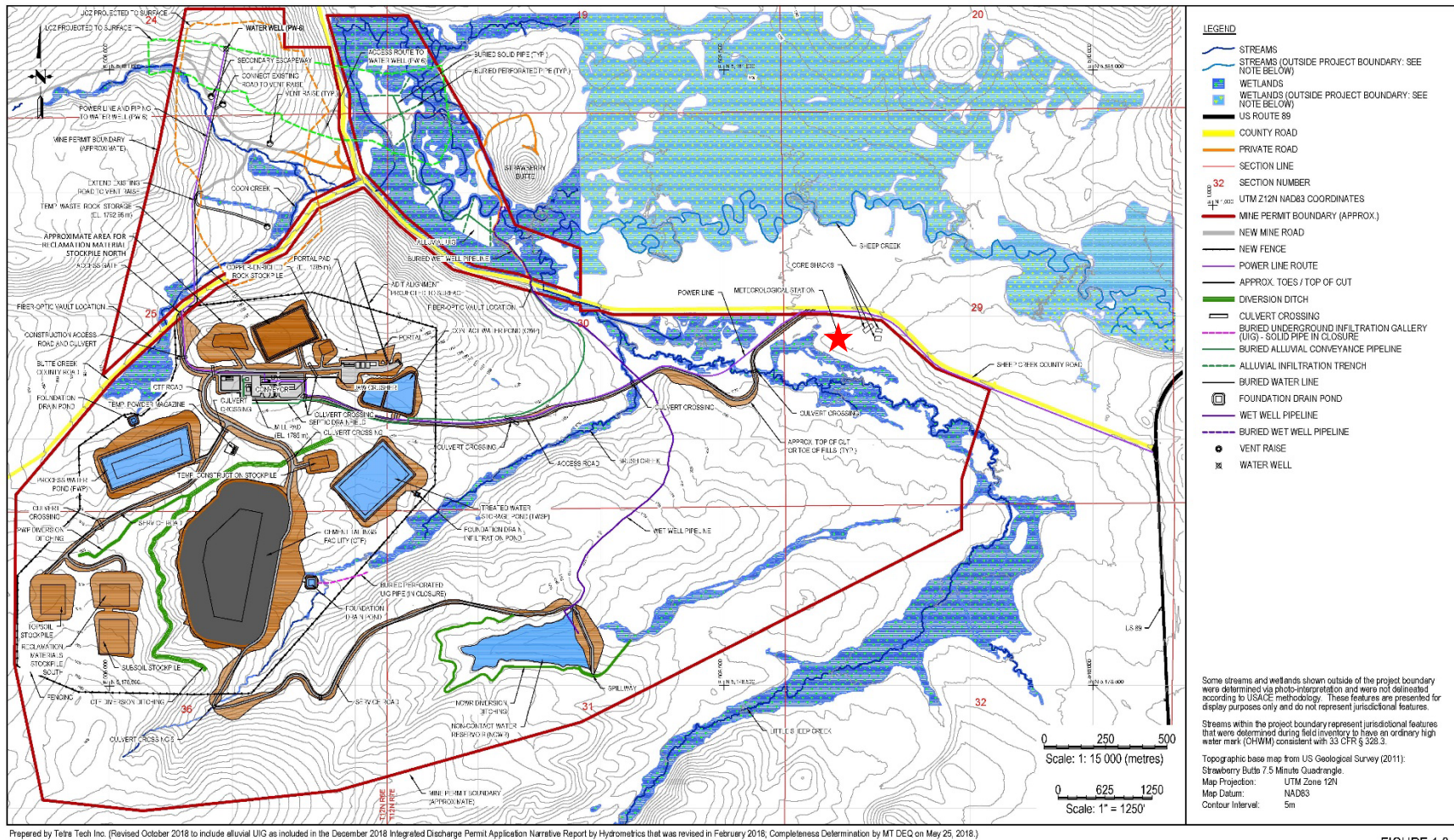


FIGURE 1.3
Facilities Site Plan
Black Butte Copper Project
Mine Operating Permit Application
Meagher County, Montana



2.0 MONITORING SYSTEM OPERATIONS

Monitoring activities occurred sporadically throughout the second half of 2022 due to a significant failure of the station's permanent AC power supply. Bison installed a solar panel and charging/ battery system and restored monitoring capabilities to the station on December 6, 2022. Monitoring efforts continued uninterrupted during the first quarter of 2023. Data would typically be downloaded and inspected by Bison once per week, but the station lost radio capabilities and the ability to remotely download data during the summer of 2022. Therefore, Bison did not collect meteorological data from the station until it performed a site visit on August 10, 2023. No calibrations or performance audits were conducted on the meteorological system during the first quarter of 2023. The most recent audit and calibration was performed on December 7, 2022. Those results are documented in the quarterly data report for the third and fourth quarters of 2022.

3.0 PERFORMANCE AUDIT DATA

There were no performance audits conducted on the meteorological system during the first quarter of 2023.

4.0 CALIBRATION DATA

There were no performance audits conducted on the meteorological system during the first quarter of 2023. and no calibration adjustments were performed.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the first quarter of 2023 are given in Tables 1 through 4. In these tables, the number of possible data values during each month is given, together with the number of valid readings and the number of hours spent on quality assurance activities (such as calibrations, performance audits, and maintenance on the sensors). The quality assurance hours are added to the number of hours of valid data to compute the net percentage data recovery, which was 99.9 percent overall among all parameters. All instruments were operational throughout the quarter except for two instances in January when wind sensors froze for several hours; these data are indicated with the Wx code in the data tables found in Appendix A.

Table 1. Monthly Data Completeness

January 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	744	727	97.7	0	97.7
Wind Direction	744	738	99.2	0	99.2
Standard Deviation	744	738	99.2	0	99.2
9-Meter Temperature	744	744	100.0	0	100.0
2-Meter Temperature	744	744	100.0	0	100.0
9-2 M Delta Temperature	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Barometric Pressure	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Precipitation	744	744	100.0	0	100.0
Total	7,440	7,411	99.6	0	99.6

Table 2. Monthly Data Completeness

February 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	672	672	100.0	0	100.0
Wind Direction	672	672	100.0	0	100.0
Standard Deviation	672	672	100.0	0	100.0
9-Meter Temperature	672	672	100.0	0	100.0
2-Meter Temperature	672	672	100.0	0	100.0
9-2 M Delta Temperature	672	672	100.0	0	100.0
Solar Radiation	672	672	100.0	0	100.0
Barometric Pressure	672	672	100.0	0	100.0
Relative Humidity	672	672	100.0	0	100.0
Precipitation	672	672	100.0	0	100.0
Total	6,720	6,720	100.0	0	100.0

Table 3. Monthly Data Completeness

March 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	744	744	100.0	0	100.0
Wind Direction	744	744	100.0	0	100.0
Standard Deviation	744	744	100.0	0	100.0
9-Meter Temperature	744	744	100.0	0	100.0
2-Meter Temperature	744	744	100.0	0	100.0
9-2 M Delta Temperature	744	744	100.0	0	100.0
Solar Radiation	744	744	100.0	0	100.0
Barometric Pressure	744	744	100.0	0	100.0
Relative Humidity	744	744	100.0	0	100.0
Precipitation	744	744	100.0	0	100.0
Total	7,440	7,440	100.0	0	100.0

Table 4. First Quarter Data Completeness

First Quarter 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,160	2,143	99.2	0	99.2
Wind Direction	2,160	2,154	99.7	0	99.7
Standard Deviation	2,160	2,154	99.7	0	99.7
9-Meter Temperature	2,160	2,160	100.0	0	100.0
2-Meter Temperature	2,160	2,160	100.0	0	100.0
9-2 M Delta Temperature	2,160	2,160	100.0	0	100.0
Solar Radiation	2,160	2,160	100.0	0	100.0
Barometric Pressure	2,160	2,160	100.0	0	100.0
Relative Humidity	2,160	2,160	100.0	0	100.0
Precipitation	2,160	2,160	100.0	0	100.0
Total	21,600	21,571	99.9	0	99.9

6.0 MONITORING DATA

The hourly data values collected at the monitoring site are given in the data tables in Appendix A. Each of these tables presents one month's data for one parameter in the monitoring system. In addition, the average, maximum, and minimum values for each parameter for each day are listed (for wind direction, the prevailing wind direction for the day is given). For those hours with missing data, a code is given that explains the reason the data were missing. These codes are given in Table 5.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 6 through 9. These tables give the percentage frequency of occurrence of winds from 16 cardinal directions and from 22 wind speed ranges. These same data are presented graphically in Figures 2 and 5. In the wind rose figures, the length of each "petal" of the rose is proportional to the percentage of time the wind blew from that direction. On the bottom of each figure is a histogram showing the average wind speed from each of the cardinal wind directions.

Table 5. Missing Data Codes

Mnemonic Code	Description	Equivalent AIRS Null Value Reason Code
Sc	Scheduled but not collected	9972
Ti	Sample time out of limits	9973
Fi	Filter damage	9976
Op	Voided by operator	9978
Mi	Miscellaneous void	9979
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
ZS	Manual zero/span check	9986
Wa	Monitoring waived	9987
Pw	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 6. January Wind Rose Summary, Black Butte Copper Project Met Tower

January 2023																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.2	0.8	0.8	2.1	2.4	4.7	8.3	6.1	2.4	0.6	0.7	0.6	0.7	1.1	1.7	1.9	36.1
	1.1 - 2.0	0.3	1.0	0.6	2.5	4.2	5.3	3.7	2.1	0.7	0.6	0.3	0.6	1.1	1.4	1.7	1.1	26.9
	2.1 - 3.0	0.0	0.4	0.0	0.4	0.7	1.8	1.8	0.3	0.0	0.3	0.1	1.0	1.9	1.4	1.5	0.1	11.8
	3.1 - 4.0	0.0	0.0	0.1	0.7	0.4	1.0	1.1	0.3	0.1	0.0	0.0	0.7	1.4	2.9	0.6	0.3	9.6
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.1	0.0	0.4	0.0	3.1	2.2	0.6	0.4	8.2
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	1.1	0.7	0.4	0.6	3.7
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.8	0.1	0.1	0.4	2.2
	7.1 - 8.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0
	8.1 - 9.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		1.9	2.2	1.5	5.7	7.6	12.8	15.8	10.1	3.5	1.5	1.7	3.5	10.1	9.8	6.5	5.7	100.0
Average Speed		2.4	1.2	1.3	1.5	1.4	1.5	1.5	1.6	1.2	1.6	2.3	2.9	3.7	3.2	2.3	3.3	2.1

Table 7. February Wind Rose Summary, Black Butte Copper Project Met Tower

February 2023																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.1	0.6	1.9	1.8	2.1	3.0	3.6	1.5	0.6	0.1	0.1	0.3	0.6	0.4	0.9	0.6	18.3
	1.1 - 2.0	0.4	0.7	1.3	1.2	2.5	4.6	4.3	2.1	0.6	0.3	0.6	0.7	1.8	1.5	0.9	0.1	23.8
	2.1 - 3.0	0.0	0.1	0.4	1.0	1.2	1.0	0.7	0.3	0.6	0.3	0.3	1.6	1.9	1.8	0.9	0.4	12.8
	3.1 - 4.0	0.0	0.1	0.1	0.1	1.0	0.4	0.1	0.7	0.1	0.3	0.6	1.2	3.7	1.8	1.0	0.1	11.8
	4.1 - 5.0	0.1	0.1	0.0	0.1	0.3	0.0	0.1	0.7	0.9	0.3	1.0	0.9	2.2	1.9	0.3	0.6	9.8
	5.1 - 6.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.2	1.2	3.4	1.5	0.1	0.6	8.9
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.3	0.4	0.3	3.3	0.4	0.4	0.0	6.1
	7.1 - 8.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.7	2.5	1.0	0.3	0.0	5.4
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.6	0.4	0.3	0.0	2.1
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.7
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		1.3	1.8	3.9	4.3	7.1	9.1	8.9	7.0	3.0	1.8	5.4	7.1	20.5	11.0	5.2	2.5	100.0
Average Speed		4.0	1.7	1.3	1.7	1.9	1.4	1.3	3.0	2.8	3.9	5.1	4.1	4.9	4.3	3.4	3.2	3.3

Table 8. March Wind Rose Summary, Black Butte Copper Project Met Tower

March 2023																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.8	1.3	1.3	1.5	2.3	3.8	4.0	3.2	0.4	0.7	0.3	0.0	0.4	0.7	0.7	1.1	22.4
	1.1 - 2.0	0.4	0.7	0.8	1.9	2.2	4.2	5.5	2.0	0.9	0.4	0.1	0.8	0.9	0.9	0.7	0.9	23.4
	2.1 - 3.0	0.1	0.0	0.7	0.7	1.5	1.2	1.5	0.9	0.5	0.1	0.1	1.3	3.1	1.2	1.6	0.1	14.8
	3.1 - 4.0	0.3	0.1	0.0	0.5	0.1	0.4	0.7	2.0	0.5	0.1	0.3	0.9	3.1	1.1	0.9	0.5	11.7
	4.1 - 5.0	0.0	0.1	0.0	0.1	0.0	0.1	0.3	2.8	0.4	0.1	0.0	0.8	2.0	0.8	0.8	0.3	8.7
	5.1 - 6.0	0.3	0.1	0.0	0.0	0.0	0.1	0.4	3.4	0.7	0.0	0.0	0.1	1.3	1.1	0.3	0.3	8.1
	6.1 - 7.0	0.4	0.0	0.0	0.0	0.0	0.1	0.1	1.9	0.5	0.1	0.0	0.5	0.7	1.6	0.3	0.1	6.5
	7.1 - 8.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.8	0.4	0.1	0.0	2.7
	8.1 - 9.0	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.1	0.1	0.4	0.1	0.0	0.0	1.3
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		2.4	2.7	2.8	4.7	6.0	10.2	12.9	16.4	4.4	1.9	1.1	5.0	12.8	7.9	5.4	3.4	100.0
Average Speed		3.2	2.2	1.4	1.8	1.5	1.7	2.0	3.6	3.9	3.0	3.6	3.9	4.0	4.2	3.2	2.3	2.9

Table 9. Q1 Wind Rose Summary, Black Butte Copper Project Met Tower

First Quarter 2023																		
Direction>>>		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	0.7	0.9	1.4	1.8	2.2	3.8	5.3	3.6	1.1	0.5	0.4	0.3	0.6	0.7	1.1	1.2	25.7
	1.1 - 2.0	0.4	0.8	0.9	1.9	2.9	4.7	4.5	2.1	0.7	0.4	0.3	0.7	1.3	1.3	1.1	0.7	24.7
	2.1 - 3.0	0.0	0.2	0.4	0.7	1.1	1.4	1.4	0.5	0.4	0.2	0.2	1.3	2.3	1.5	1.4	0.2	13.1
	3.1 - 4.0	0.1	0.1	0.1	0.5	0.5	0.6	0.7	1.0	0.3	0.1	0.3	0.9	2.7	1.9	0.8	0.3	11.0
	4.1 - 5.0	0.0	0.1	0.0	0.1	0.1	0.0	0.4	1.4	0.5	0.1	0.5	0.6	2.4	1.6	0.6	0.4	8.9
	5.1 - 6.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.3	0.0	0.4	0.6	1.9	1.1	0.3	0.5	6.9
	6.1 - 7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.1	0.1	0.4	1.5	0.7	0.3	0.2	4.9
	7.1 - 8.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.3	1.1	0.5	0.1	2.9
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.3	0.2	0.1	0.1	1.3
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.4
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm																		0.0
Total		1.9	2.2	2.7	4.9	6.9	10.7	12.6	11.3	3.6	1.7	2.6	5.1	14.3	9.5	5.7	3.9	100.0
Average Speed		3.1	1.8	1.3	1.6	1.6	1.5	1.6	2.9	2.8	2.9	4.3	3.8	4.3	3.9	2.9	3.0	2.8

Figure 2. January Wind Rose, Black Butte Copper Project Met Tower

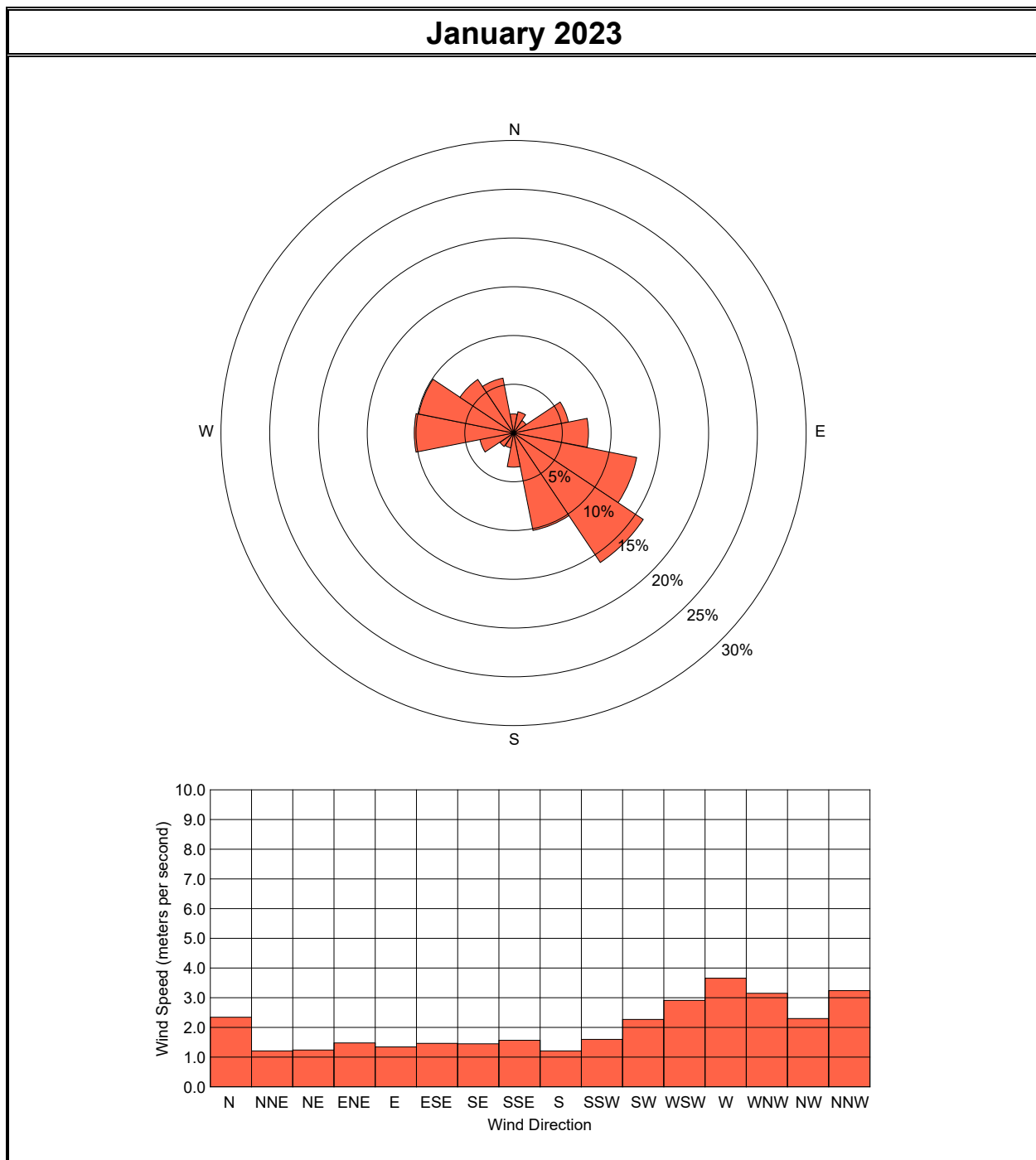


Figure 3. February Wind Rose, Black Butte Copper Project Met Tower

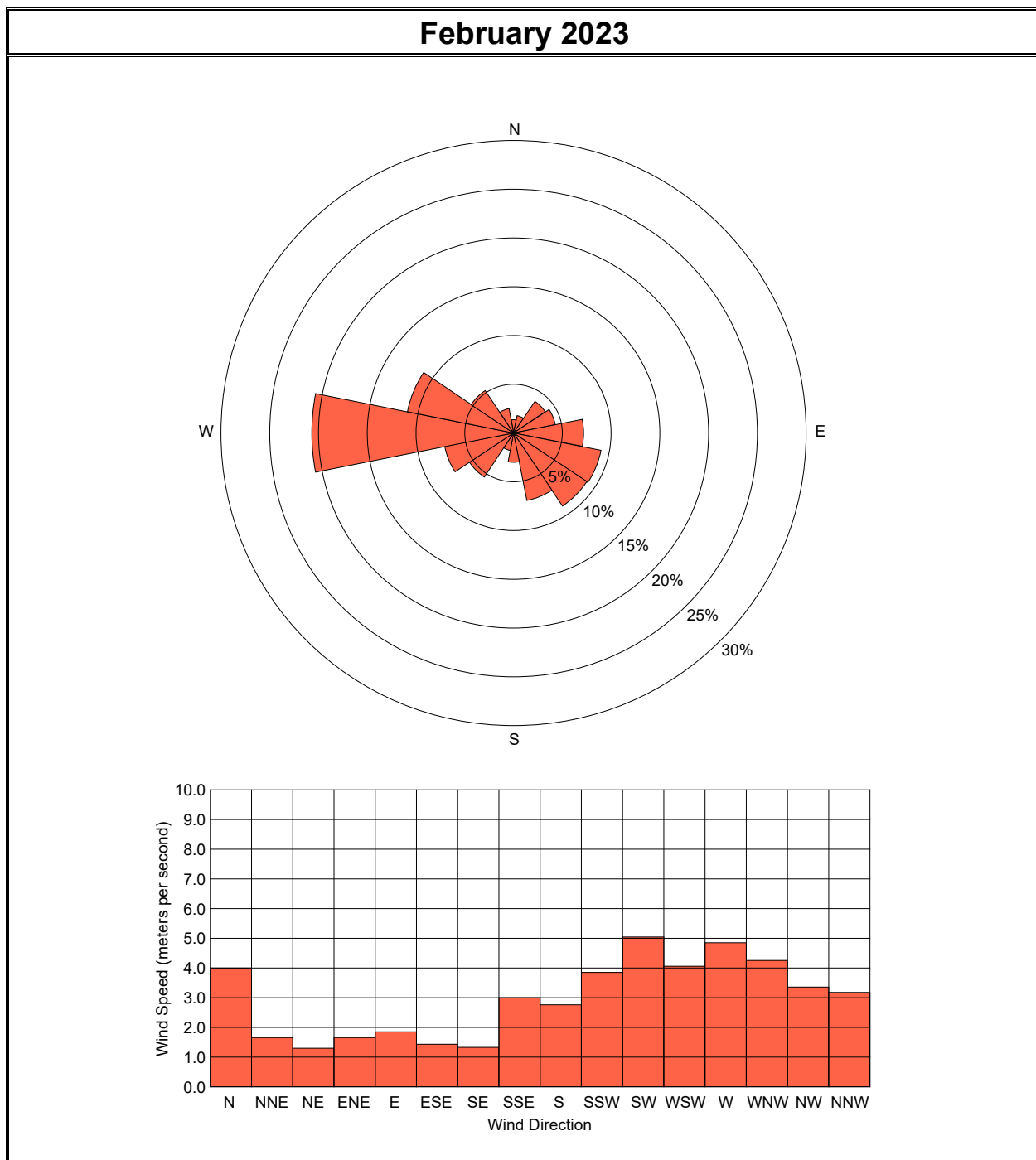


Figure 4. March Wind Rose, Black Butte Copper Project Met Tower

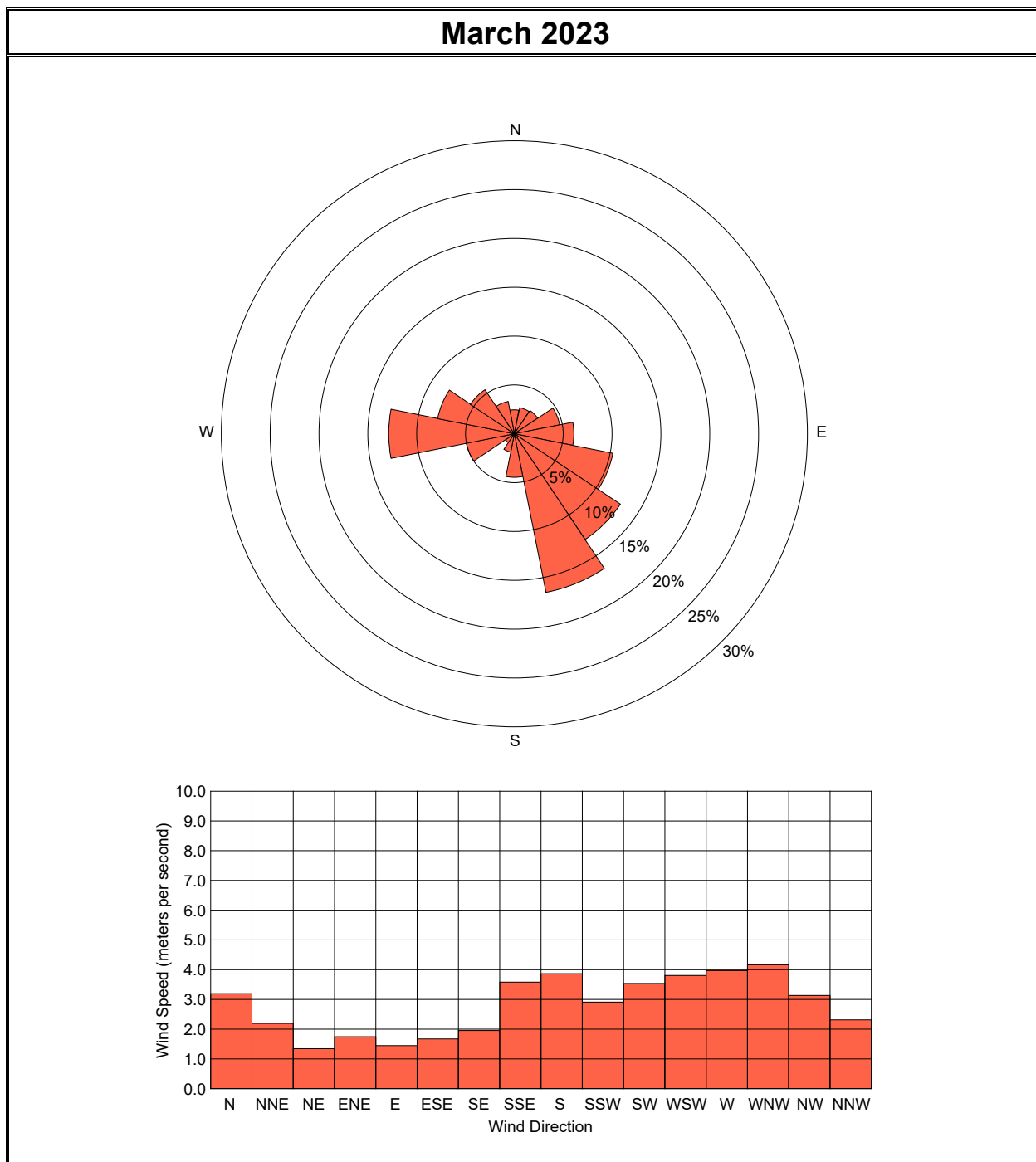
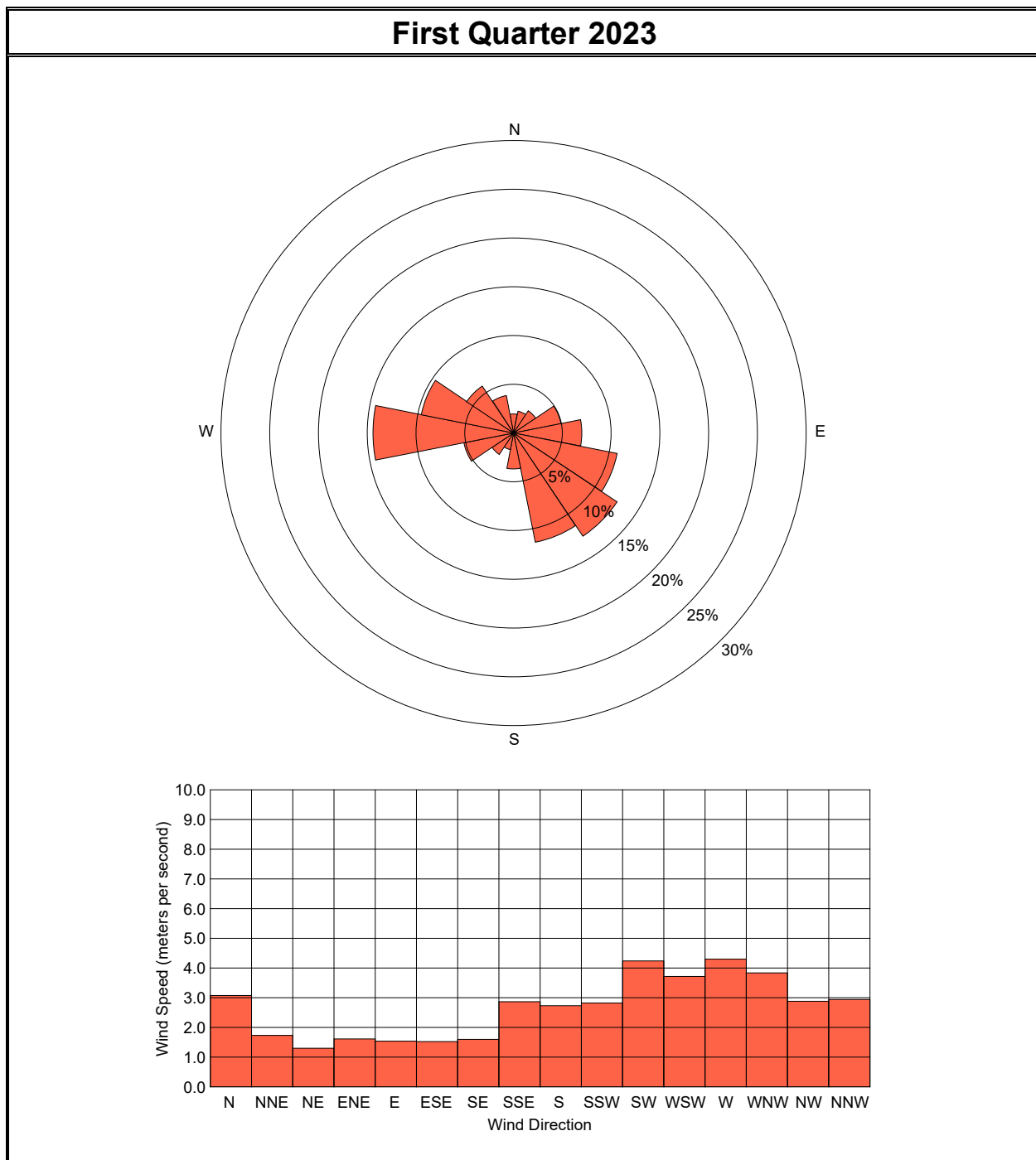


Figure 5. Q1 Wind Rose, Black Butte Copper Project Met Tower



APPENDIX A: HOURLY AIR QUALITY AND METEOROLOGICAL DATA, FIRST QUARTER 2023

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.7	0.7	0.7	0.4	0.3	0.5	0.3	0.3	0.4	0.3	1.5	0.8	0.4	0.8	1.9	0.8	1.0	1.2	2.7	1.2	1.3	1.2	1.3	1.0	0.9	2.7	0.3
2	0.7	0.7	0.6	0.4	0.6	0.4	0.6	0.6	0.6	0.4	0.4	0.8	7.2	7.7	6.4	6.2	6.1	3.6	1.3	0.7	2.6	4.7	3.6	2.5	2.5	7.7	0.4
3	3.6	3.6	4.0	4.0	3.2	3.4	3.6	3.0	1.6	0.9	0.7	0.7	1.7	3.3	4.1	4.5	3.3	1.9	1.5	1.0	1.2	1.2	1.5	1.5	2.5	4.5	0.7
4	2.5	4.2	4.5	4.7	3.8	3.8	2.3	3.0	2.5	1.5	4.5	5.5	4.8	5.5	4.5	2.5	2.0	1.6	2.0	1.7	1.9	1.3	1.6	1.2	3.1	5.5	1.2
5	1.3	1.3	1.2	1.1	1.1	1.2	1.1	1.4	1.5	1.9	1.7	1.6	3.8	4.7	4.4	3.9	3.6	3.4	3.1	1.8	1.1	2.2	1.7	2.1	2.2	4.7	1.1
6	1.5	0.7	0.3	0.4	0.4	0.6	0.9	1.4	0.8	0.5	0.5	0.6	1.8	2.8	1.7	1.4	1.5	1.3	1.6	1.1	1.1	1.0	1.4	0.9	1.1	2.8	0.3
7	1.0	0.6	0.8	0.6	0.5	0.5	0.6	0.5	0.7	0.7	0.4	0.4	0.5	0.6	0.8	1.3	3.1	2.5	3.1	2.8	3.1	3.1	2.1	2.4	1.4	3.1	0.4
8	2.3	1.7	1.6	2.2	2.0	1.9	1.7	2.1	1.4	1.1	1.0	1.1	1.7	1.6	4.1	5.9	5.3	4.9	2.9	3.9	3.7	3.8	2.7	2.8	2.6	5.9	1.0
9	1.8	2.4	3.6	3.1	2.2	5.2	5.7	5.9	2.3	2.4	1.2	1.0	1.1	1.3	4.6	2.5	1.3	1.1	1.5	2.1	2.6	2.4	1.7	1.9	2.5	5.9	1.0
10	1.6	1.3	1.1	2.1	2.4	2.0	1.5	1.5	1.2	0.9	0.8	1.2	1.0	2.9	1.2	1.0	1.3	1.6	1.2	1.8	2.2	1.4	1.3	0.9	1.5	2.9	0.8
11	0.8	0.5	0.5	0.8	0.6	0.5	0.7	0.4	0.3	0.3	0.3	0.4	1.5	0.7	0.7	0.6	0.5	0.6	0.7	1.1	1.1	0.9	0.9	0.8	0.7	1.5	0.3
12	0.7	0.8	0.6	0.6	0.6	0.8	1.5	0.9	0.7	0.6	0.5	2.3	4.1	2.9	2.4	1.8	1.7	1.3	1.6	1.2	1.1	1.2	1.5	1.2	1.4	4.1	0.5
13	1.0	1.2	2.4	3.8	3.8	2.4	1.8	1.3	2.1	1.3	1.1	1.5	1.9	3.2	4.8	5.4	4.4	3.8	1.5	1.1	4.5	4.1	3.1	0.9	2.6	5.4	0.9
14	1.6	1.6	0.9	1.6	2.6	1.2	1.6	2.8	1.5	2.9	1.3	5.0	4.9	4.1	1.8	0.9	0.9	0.9	Wx	Wx	Wx	Wx	Wx	Wx	2.1	5.0	0.9
15	Wx	Wx	Wx	Wx	Wx	Wx	Wx	Wx	Wx	Wx	Wx	0.3	0.7	0.7	0.7	0.6	0.7	1.5	0.6	0.4	0.3	0.3	0.6	0.5	0.6	1.5	0.3
16	0.4	0.3	0.3	0.3	0.3	0.6	0.5	0.4	0.5	0.6	1.4	2.6	3.8	3.4	2.5	1.8	1.6	0.9	1.2	1.1	1.0	0.9	1.0	0.9	1.2	3.8	0.3
17	0.5	0.8	0.8	0.8	1.0	0.7	0.6	0.9	0.8	0.5	1.1	2.7	2.5	2.3	2.2	3.5	2.3	1.1	0.6	1.0	0.8	1.2	1.1	1.2	1.3	3.5	0.5
18	0.8	0.6	0.9	0.6	0.4	0.5	0.5	0.5	0.5	0.4	0.6	3.0	6.1	5.3	4.0	2.8	1.9	1.7	1.8	1.3	0.9	0.5	0.5	0.4	1.5	6.1	0.4
19	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.6	1.2	2.5	2.9	3.2	2.5	1.9	1.3	1.3	0.7	0.8	0.5	1.0	3.2	0.3
20	0.5	0.5	0.9	1.2	1.3	0.7	1.3	1.0	0.9	1.8	1.1	1.5	3.6	4.4	2.8	1.0	0.7	1.2	2.1	1.3	1.4	1.3	0.8	0.9	1.4	4.4	0.5
21	0.9	0.9	1.2	0.7	0.9	0.6	0.5	0.9	0.6	0.7	0.7	0.7	1.0	1.0	1.4	1.1	1.0	1.4	0.9	1.9	1.0	0.9	0.6	0.5	0.9	1.9	0.5
22	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.5	0.5	1.4	1.2	1.9	4.6	4.1	4.3	5.3	3.9	3.6	3.9	3.6	3.3	4.4	2.7	2.2	5.3	0.3
23	2.8	2.8	1.2	2.6	1.9	1.3	0.8	0.6	0.7	1.2	1.6	4.3	6.1	6.2	5.4	4.1	2.0	2.7	1.2	0.9	1.2	1.2	1.6	0.6	2.3	6.2	0.6
24	0.5	0.5	0.5	0.5	0.4	0.7	0.7	0.6	0.7	0.9	0.9	0.7	1.3	1.4	3.5	5.6	5.2	4.2	4.4	4.1	5.1	4.7	4.3	3.1	2.3	5.6	0.4
25	1.8	2.6	1.6	1.0	0.6	0.5	0.4	0.3	0.4	0.3	0.4	0.4	2.0	4.9	5.2	5.1	3.0	3.3	3.5	3.6	3.7	3.0	3.6	3.7	2.3	5.2	0.3
26	2.8	2.4	1.8	3.3	4.3	4.2	2.8	2.5	3.4	4.7	4.9	6.2	5.9	5.4	5.0	5.5	6.2	3.3	2.9	3.7	3.3	1.6	2.2	1.6	3.7	6.2	1.6
27	1.0	1.6	2.8	4.1	3.8	3.6	3.3	3.2	3.6	4.7	4.0	4.2	4.8	4.0	6.5	5.5	4.0	4.8	4.4	3.0	2.7	2.7	4.0	2.5	3.7	6.5	1.0
28	4.8	5.6	7.0	5.6	5.2	8.3	7.9	6.2	5.6	8.8	7.7	7.3	8.5	8.2	8.0	7.4	6.9	5.4	2.4	1.3	0.9	1.1	1.4	1.2	5.5	8.8	0.9
29	1.5	1.5	1.4	1.1	1.2	0.6	0.5	0.8	1.0	1.1	4.1	6.2	6.8	6.2	5.5	4.9	4.0	1.7	1.2	1.1	1.0	1.0	0.8	0.8	2.3	6.8	0.5
30	0.9	0.8	0.5	0.5	0.6	0.9	0.7	0.6	0.7	0.6	1.1	2.6	3.8	2.7	2.2	1.8	0.8	1.2	2.6	2.2	0.8	1.5	1.2	0.6	1.3	3.8	0.5
31	1.1	0.9	1.1	0.8	1.3	2.2	4.8	1.6	1.2	3.5	4.6	4.4	4.6	4.9	4.4	2.9	4.5	5.3	4.9	4.8	6.6	4.7	3.7	2.9	3.4	6.6	0.8
Avg	1.4	1.5	1.5	1.7	1.6	1.7	1.7	1.5	1.3	1.6	1.7	2.3	3.2	3.5	3.5	3.2	2.9	2.4	2.2	1.9	2.1	2.0	1.9	1.5	2.1	4.7	0.6
Max	4.8	5.6	7.0	5.6	5.2	8.3	7.9	6.2	5.6	8.8	7.7	7.3	8.5	8.2	8.0	7.4	6.9	5.4	4.9	4.8	6.6	4.7	4.4	3.7	5.5	8.8	1.6
Min	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.7	0.6	0.5	0.6	0.6	0.4	0.3	0.3	0.5	0.4	0.6	1.5	0.3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	3.3	5.2	6.6	7.5	7.1	3.4	4.0	2.6	3.3	3.7	3.2	6.2	7.2	7.4	4.0	4.2	1.6	2.6	3.1	5.4	3.6	2.7	1.9	1.2	4.2	7.5	1.2
2	1.2	1.8	2.0	1.8	1.5	1.0	0.7	1.0	0.7	0.6	0.7	0.7	0.9	1.2	1.0	0.9	0.7	1.1	1.0	1.8	1.5	2.7	2.6	2.7	1.3	2.7	0.6
3	2.4	1.7	1.2	1.7	1.9	2.0	2.0	1.3	1.6	1.4	0.9	2.1	4.5	3.3	3.9	6.3	3.5	1.4	1.6	2.6	4.3	4.6	4.4	5.7	2.8	6.3	0.9
4	6.2	3.8	6.5	7.5	5.9	2.8	2.3	5.9	5.0	4.0	5.2	4.9	5.8	6.2	7.9	5.4	3.3	2.0	2.4	2.9	1.5	1.9	1.5	1.2	4.3	7.9	1.2
5	1.3	1.3	1.2	1.6	1.4	1.7	1.1	1.0	1.1	1.0	1.0	4.4	7.0	3.6	4.1	4.8	5.1	3.9	5.4	3.6	1.8	4.5	6.5	6.2	3.1	7.0	1.0
6	8.0	5.7	6.1	6.4	5.4	3.1	3.6	3.2	4.4	5.7	4.4	6.5	7.7	7.9	8.4	9.3	8.6	6.4	5.3	5.6	3.0	1.8	4.0	2.8	5.6	9.3	1.8
7	3.5	6.0	4.8	2.5	2.8	3.4	3.7	2.0	3.7	1.9	3.9	3.8	5.9	5.9	4.3	3.1	3.7	5.9	4.7	2.2	2.5	2.0	2.0	2.0	3.6	6.0	1.9
8	3.2	2.5	1.8	4.7	5.3	4.6	7.7	6.3	6.2	6.4	8.1	7.9	8.1	8.0	8.7	7.5	7.3	7.0	7.1	5.6	1.9	1.8	2.3	1.2	5.5	8.7	1.2
9	0.7	0.9	1.0	0.7	0.5	0.5	0.8	0.6	0.6	0.6	0.3	0.6	0.8	0.9	0.7	1.0	1.0	1.2	2.2	1.6	1.4	1.4	0.9	0.7	0.9	2.2	0.3
10	1.1	1.2	1.2	1.2	1.1	0.8	1.4	1.5	0.8	0.7	0.8	1.2	0.8	1.4	1.5	0.9	0.7	1.4	0.7	1.3	1.2	1.4	1.4	1.4	1.1	1.5	0.7
11	0.8	1.0	1.0	0.6	1.0	0.5	0.4	0.6	0.4	0.4	0.8	1.5	2.4	5.2	7.4	6.5	5.0	2.7	1.6	1.1	1.5	1.3	1.5	1.6	2.0	7.4	0.4
12	1.1	1.2	1.1	0.9	0.9	0.8	0.9	0.8	1.0	0.7	0.9	1.1	3.3	4.5	4.5	5.0	4.1	1.5	1.8	2.9	1.7	2.5	2.3	1.5	2.0	5.0	0.7
13	1.6	1.4	1.4	1.1	1.2	0.9	1.7	1.1	1.5	1.5	3.4	6.4	5.9	4.3	4.9	5.3	6.5	4.3	5.3	2.9	4.3	3.4	2.5	3.9	3.2	6.5	0.9
14	3.8	3.6	2.8	3.1	2.1	1.4	1.9	3.9	4.1	5.1	3.1	2.2	4.1	6.0	7.9	7.8	5.8	4.7	5.8	3.3	2.4	1.7	1.2	1.2	3.7	7.9	1.2
15	1.4	0.9	0.7	0.7	0.6	0.5	0.8	0.6	0.8	0.9	0.8	0.7	1.6	2.7	4.2	2.9	1.8	0.8	2.5	1.9	2.0	1.7	1.6	1.0	1.4	4.2	0.5
16	1.2	0.9	1.4	0.8	0.8	0.6	0.7	0.7	0.8	0.6	0.5	0.7	1.2	3.1	3.9	2.3	1.3	1.0	1.9	1.3	1.6	2.3	1.6	1.6	1.4	3.9	0.5
17	1.9	1.3	1.4	1.1	1.2	1.0	1.0	1.4	1.9	1.5	2.5	5.3	4.6	6.0	4.9	3.6	4.5	4.1	2.6	1.9	2.5	1.5	1.8	1.0	2.5	6.0	1.0
18	1.1	1.1	1.0	2.8	4.0	5.9	8.3	5.5	6.0	5.9	5.2	5.5	4.1	5.4	7.2	7.2	5.7	5.0	3.4	2.8	2.9	2.1	1.9	2.6	4.3	8.3	1.0
19	3.3	3.1	2.6	3.7	2.8	0.8	0.8	3.5	6.1	7.1	7.9	7.1	7.1	7.6	8.3	9.0	6.9	7.0	7.2	7.0	5.9	6.9	7.4	4.8	5.6	9.0	0.8
20	5.6	6.0	5.6	5.9	6.7	7.4	8.3	5.2	4.3	3.1	2.3	4.4	4.0	2.6	0.9	1.3	2.1	2.2	3.1	0.9	0.6	3.3	4.1	2.3	3.8	8.3	0.6
21	5.7	5.4	7.7	11.4	9.2	9.3	9.0	8.1	6.5	5.8	7.1	8.0	6.4	4.7	5.0	7.1	6.2	4.8	3.0	2.5	2.7	1.5	2.6	3.6	6.0	11.4	1.5
22	3.7	3.0	3.0	2.8	1.4	2.2	1.6	3.3	3.3	4.2	3.7	3.9	3.4	4.5	4.9	5.9	6.7	7.5	5.0	2.9	2.5	1.7	1.8	2.0	3.5	7.5	1.4
23	1.9	2.2	2.7	1.4	0.4	0.9	0.8	0.8	0.6	0.5	0.7	4.8	3.3	3.7	4.3	5.9	5.0	6.1	7.1	6.6	6.4	5.5	7.0	6.5	3.5	7.1	0.4
24	3.3	2.5	2.6	1.3	1.1	1.0	1.0	0.8	0.9	1.0	0.8	1.0	1.1	1.5	2.0	1.9	1.3	1.1	1.0	1.2	1.0	0.9	0.8	0.8	1.3	3.3	0.8
25	0.7	0.7	0.8	0.7	0.6	0.9	1.2	1.4	1.0	1.1	3.1	4.3	5.3	4.8	5.7	6.5	4.6	3.3	4.9	2.4	1.1	1.2	3.0	4.7	2.7	6.5	0.6
26	4.4	2.8	2.1	2.4	3.3	3.5	2.0	2.3	3.1	3.1	4.3	8.3	8.5	9.2	10.2	9.4	6.4	5.9	6.5	4.4	5.9	5.9	3.6	4.1	5.1	10.2	2.0
27	6.6	6.8	5.6	5.0	4.5	4.4	2.4	3.2	0.8	3.8	7.6	5.4	3.2	2.8	2.6	2.3	5.3	4.0	3.5	4.8	4.2	2.1	1.9	2.9	4.0	7.6	0.8
28	2.4	1.5	1.4	2.8	2.8	3.0	2.1	1.7	1.3	1.2	4.3	7.7	8.2	6.9	6.0	3.7	3.1	2.9	1.5	1.9	1.7	3.0	3.4	1.8	3.2	8.2	1.2
Avg	2.9	2.7	2.8	3.0	2.8	2.4	2.6	2.5	2.6	2.6	3.1	4.2	4.5	4.7	5.0	4.9	4.2	3.6	3.6	3.0	2.6	2.6	2.8	2.6	3.3	6.7	1.0
Max	8.0	6.8	7.7	11.4	9.2	9.3	9.0	8.1	6.5	7.1	8.1	8.3	8.5	9.2	10.2	9.4	8.6	7.5	7.2	7.0	6.4	6.9	7.4	6.5	6.0	11.4	2.0
Min	0.7	0.7	0.7	0.6	0.4	0.5	0.4	0.6	0.4	0.4	0.3	0.6	0.8	0.9	0.7	0.9	0.7	0.8	0.7	0.9	0.6	0.9	0.8	0.7	0.9	1.5	0.3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	1.9	2.0	2.1	1.6	1.3	1.0	1.1	0.7	0.8	0.6	0.9	1.0	1.9	3.7	3.9	4.3	4.2	3.2	2.6	1.8	0.8	1.6	2.6	3.7	2.1	4.3	0.6
2	3.5	5.3	5.0	6.3	2.5	3.3	2.6	4.6	4.8	3.4	3.2	1.6	1.3	1.2	6.1	2.5	4.3	2.9	8.9	6.4	5.1	7.7	7.9	7.0	4.5	8.9	1.2
3	7.1	6.6	4.7	2.5	1.3	4.1	2.5	1.9	1.4	1.6	6.8	7.8	8.8	8.3	6.3	7.3	6.1	6.7	3.7	3.0	0.9	0.9	1.4	1.5	4.3	8.8	0.9
4	1.5	1.3	0.9	0.9	1.1	0.9	1.6	1.9	0.7	0.7	2.3	3.5	2.7	3.6	4.6	3.5	3.4	3.9	3.0	0.9	1.3	2.3	2.8	2.1	2.1	4.6	0.7
5	1.3	1.2	0.8	1.3	0.9	0.7	1.3	1.3	2.4	6.0	8.1	6.9	5.9	5.3	7.0	7.2	8.3	6.0	4.8	4.1	4.9	5.9	5.4	4.6	4.2	8.3	0.7
6	4.3	4.0	4.2	5.1	5.6	6.1	3.9	3.5	4.2	5.2	6.3	6.0	5.2	3.8	2.3	1.5	1.7	1.5	3.4	2.0	1.2	1.4	1.2	1.1	3.5	6.3	1.1
7	0.6	0.7	0.9	0.7	0.9	0.8	0.7	0.6	0.4	0.5	0.8	1.8	4.4	4.3	3.2	3.8	2.1	1.9	1.2	1.1	1.0	0.9	1.1	1.2	1.5	4.4	0.4
8	1.5	1.8	0.9	0.9	0.9	0.9	0.7	0.5	0.9	0.6	1.0	2.0	4.3	5.2	4.0	5.0	4.8	4.4	2.2	1.7	0.5	0.7	0.6	2.1	2.0	5.2	0.5
9	3.7	3.7	2.8	2.6	1.5	0.6	0.8	0.8	3.3	2.2	2.9	3.2	3.3	4.3	3.3	2.3	5.5	3.3	3.4	4.0	2.5	1.6	0.7	1.0	2.6	5.5	0.6
10	1.7	1.5	1.8	2.3	4.8	5.5	5.5	4.1	6.5	5.7	5.0	5.7	5.9	6.7	5.5	5.9	6.9	2.8	4.1	2.7	1.1	1.0	1.1	0.7	3.9	6.9	0.7
11	2.4	2.9	4.4	6.3	6.0	6.2	5.6	4.1	3.8	5.5	3.6	3.9	2.8	1.4	1.8	3.8	2.9	2.6	2.1	1.3	0.8	0.7	0.6	0.9	3.2	6.3	0.6
12	0.7	0.5	0.6	1.0	0.8	0.7	0.5	0.4	0.8	0.4	0.6	1.0	0.9	2.1	2.6	2.8	2.4	2.1	1.5	1.3	2.4	2.3	1.5	1.3	1.3	2.8	0.4
13	1.3	1.2	1.5	1.6	1.5	1.7	2.0	1.5	2.3	3.1	5.3	6.1	6.2	6.5	7.1	6.5	4.9	6.4	4.8	5.8	6.6	5.4	9.7	5.0	4.3	9.7	1.2
14	6.5	7.7	9.3	9.7	7.5	5.9	3.8	3.7	5.9	6.4	4.4	4.2	2.3	2.8	1.6	1.0	3.3	4.0	8.4	7.7	7.6	6.4	5.9	6.5	5.5	9.7	1.0
15	6.1	6.3	5.4	6.2	5.5	3.2	4.3	5.9	6.8	7.2	6.2	5.8	6.2	7.4	8.2	7.1	6.7	4.8	2.0	0.9	1.0	0.7	0.7	1.1	4.8	8.2	0.7
16	0.8	1.0	1.7	1.0	1.2	0.6	0.5	0.6	0.5	0.6	3.4	5.8	8.1	6.8	6.4	5.2	5.3	4.5	2.1	1.7	1.9	1.1	1.1	1.4	2.6	8.1	0.5
17	1.2	0.6	0.7	1.0	0.8	0.7	0.5	0.6	0.5	0.8	0.7	1.0	4.3	5.2	4.1	3.9	3.7	2.0	0.7	1.7	2.6	2.2	2.3	2.4	1.8	5.2	0.5
18	1.8	2.1	2.0	1.8	2.0	1.8	1.8	1.8	0.9	0.6	2.7	5.2	5.4	4.9	4.0	4.5	3.7	2.2	1.2	1.1	0.9	1.4	1.9	2.2	2.4	5.4	0.6
19	2.0	2.1	2.1	1.5	1.6	1.4	2.1	1.0	0.7	1.2	0.8	2.5	3.4	2.9	3.3	3.7	3.1	2.7	1.4	1.4	1.0	0.8	1.1	0.9	1.9	3.7	0.7
20	1.0	1.0	0.9	1.1	0.9	0.7	0.6	0.6	0.6	1.1	4.0	4.0	3.6	2.7	2.4	3.5	2.7	2.3	2.7	2.4	2.1	1.7	1.9	2.3	2.0	4.0	0.6
21	1.7	0.7	0.6	0.5	0.4	0.4	0.5	0.4	0.5	0.6	0.9	5.2	4.5	6.8	7.0	6.9	5.4	3.9	1.3	1.1	2.7	3.1	2.9	2.3	2.5	7.0	0.4
22	1.4	1.0	1.1	0.7	0.8	0.8	0.8	0.7	0.5	0.8	1.5	1.0	2.8	3.3	4.0	3.7	2.1	1.4	0.9	1.3	0.7	1.7	1.6	1.7	1.5	4.0	0.5
23	1.0	1.2	1.2	1.6	2.0	1.3	1.7	0.7	0.6	0.8	1.4	1.1	2.9	3.8	2.2	2.7	3.4	1.5	0.9	1.0	1.5	0.9	1.0	1.4	1.6	3.8	0.6
24	1.1	1.3	1.8	1.8	1.1	1.5	1.6	1.5	3.0	5.6	5.5	5.2	4.2	5.0	5.5	4.8	3.9	5.8	4.8	1.7	2.2	2.8	3.4	4.0	3.3	5.8	1.1
25	3.6	3.8	4.6	4.7	2.6	1.8	1.3	2.4	3.8	3.0	3.2	5.3	6.8	7.0	7.1	5.9	4.6	4.0	3.0	1.4	1.2	0.9	1.4	1.8	3.6	7.1	0.9
26	2.1	1.0	0.9	1.1	1.4	0.6	0.9	0.9	1.7	5.5	4.0	2.7	3.0	6.6	7.5	8.3	3.8	4.4	6.2	5.3	3.9	1.7	1.4	2.9	3.2	8.3	0.6
27	2.4	3.5	1.7	1.0	0.9	0.9	1.5	0.7	0.4	0.8	0.9	2.0	4.3	3.7	3.4	3.1	3.2	3.3	2.9	1.0	1.2	1.9	2.4	2.1	2.1	4.3	0.4
28	2.0	2.1	1.2	1.4	1.6	1.5	1.6	1.4	0.6	0.8	1.0	2.2	1.9	1.1	1.0	2.9	3.1	3.0	5.5	5.9	3.4	2.8	2.6	3.6	2.3	5.9	0.6
29	4.3	6.2	1.5	1.0	1.3	4.7	5.2	2.8	1.8	4.8	4.7	5.3	4.6	5.0	1.7	5.8	3.1	3.1	6.3	7.0	5.7	4.3	4.5	4.7	4.1	7.0	1.0
30	1.8	1.5	3.0	2.7	2.4	2.0	1.4	3.1	2.0	2.2	3.4	5.9	4.5	2.5	2.7	4.4	4.2	3.0	2.2	3.2	2.6	2.3	0.8	1.3	2.7	5.9	0.8
31	1.2	0.9	0.8	0.6	0.8	0.6	0.6	0.8	0.6	1.0	2.2	5.4	7.9	7.6	8.2	7.5	6.3	7.5	4.8	4.4	3.3	1.8	1.4	1.1	3.2	8.2	0.6
Avg	2.4	2.5	2.3	2.3	2.1	2.0	1.9	1.8	2.1	2.6	3.2	3.9	4.3	4.6	4.5	4.6	4.2	3.6	3.3	2.8	2.4	2.3	2.4	2.4	2.9	6.2	0.7
Max	7.1	7.7	9.3	9.7	7.5	6.2	5.6	5.9	6.8	7.2	8.1	7.8	8.8	8.3	8.2	8.3	8.3	7.5	8.9	7.7	7.6	7.7	9.7	7.0	5.5	9.7	1.2
Min	0.6	0.5	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.6	1.0	0.9	1.1	1.0	1.0	1.7	1.4	0.7	0.9	0.5	0.7	0.6	0.7	1.3	2.8	0.4

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
January 2023

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	95	10	142	123	330	136	187	134	276	317	141	56	114	311	294	332	284	79	86	23	97	65	100	110	79
2	64	103	109	55	126	136	117	127	147	160	217	192	147	148	156	158	153	141	118	188	110	129	91	72	132
3	70	77	71	55	64	81	68	90	116	163	20	85	320	273	259	264	258	241	159	125	107	73	115	220	96
4	272	261	269	274	260	257	241	243	243	255	269	274	270	266	272	277	261	129	108	115	105	111	107	119	244
5	97	114	107	119	148	156	147	137	142	128	134	105	146	146	140	137	128	132	123	84	150	132	117	115	129
6	112	127	225	285	8	Wx	Wx	Wx	Wx	Wx	Wx	186	294	297	320	314	285	58	135	108	143	138	134	34	126
7	136	117	100	143	154	151	160	149	130	147	153	151	299	120	124	98	104	125	124	126	120	122	142	118	132
8	129	138	132	108	132	138	79	100	96	175	314	153	135	138	158	180	195	190	116	149	130	102	110	112	134
9	106	213	248	254	236	237	240	220	139	117	94	114	100	123	144	107	40	63	84	143	137	143	152	171	146
10	77	204	167	204	30	154	110	76	57	84	122	92	129	261	309	71	106	105	104	62	84	91	98	59	99
11	135	119	122	118	185	145	138	326	141	173	122	276	93	68	321	281	147	164	323	94	89	89	124	151	128
12	127	147	175	155	144	137	120	151	143	148	157	130	162	167	116	116	113	147	91	98	83	142	142	163	137
13	152	174	129	102	110	114	115	159	137	150	78	137	102	177	146	153	142	132	143	99	161	164	158	113	136
14	115	198	333	237	289	17	95	143	160	157	136	226	231	219	223	102	115	108	117	124	161	138	172	129	155
15	99	134	129	105	121	134	119	105	128	173	269	188	156	309	26	234	116	279	127	133	306	5	139	144	135
16	230	165	142	100	327	212	290	193	184	237	289	269	263	263	266	303	321	318	90	26	155	171	142	356	242
17	328	141	160	164	95	191	141	173	160	76	195	276	283	286	287	295	310	319	237	120	322	191	268	346	231
18	173	102	122	153	155	146	194	146	153	163	100	237	246	250	259	261	273	156	128	123	143	163	132	151	165
19	130	173	137	170	127	131	162	151	338	77	174	277	77	347	270	258	278	314	327	345	244	99	130	63	151
20	129	171	116	146	282	303	105	55	163	282	30	296	278	290	284	335	342	79	81	42	78	78	69	26	41
21	67	65	60	57	5	104	331	103	313	346	327	309	145	105	35	23	91	101	134	113	145	121	91	146	73
22	113	136	240	135	133	138	144	268	26	302	327	328	309	263	275	304	305	297	299	308	302	320	290	281	291
23	317	289	39	74	67	72	109	90	295	318	290	299	272	268	279	290	307	299	355	358	64	57	101	124	348
24	231	331	147	147	159	140	163	137	138	56	80	33	20	308	302	294	295	300	297	283	298	303	307	315	300
25	269	270	261	129	248	174	117	158	125	80	164	148	270	280	280	284	292	299	291	297	309	314	287	294	262
26	277	269	303	286	284	276	272	277	288	294	288	291	291	271	267	262	278	302	305	297	300	273	311	137	284
27	138	193	255	260	272	285	289	301	293	290	286	282	323	333	341	344	340	327	332	346	62	30	79	325	313
28	327	338	344	338	319	341	349	346	346	344	346	356	357	345	344	328	323	326	314	306	4	122	117	96	345
29	85	57	79	79	104	123	130	112	124	344	281	278	274	258	269	266	266	185	124	58	70	70	78	104	97
30	121	165	336	85	80	4	81	49	358	346	334	314	297	292	322	312	303	30	104	109	143	109	125	31	31
31	102	161	140	156	109	15	312	357	136	239	264	277	284	277	283	311	286	281	262	269	268	276	276	240	267
Prev	116	151	137	131	123	141	135	131	140	165	227	252	262	267	280	290	287	104	105	85	112	110	122	106	137

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
February 2023

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	280	265	269	280	282	281	289	334	290	325	308	280	275	282	297	272	244	304	315	273	281	278	292	187	284
2	50	91	80	69	90	90	122	141	246	141	172	81	279	143	155	322	326	96	125	95	106	82	112	118	106
3	114	110	152	132	112	138	132	150	139	170	232	234	184	153	192	218	217	194	51	77	218	246	278	272	171
4	267	253	277	270	276	296	205	260	262	264	247	255	262	249	258	258	277	184	84	78	108	101	115	131	246
5	158	131	149	130	117	97	114	104	126	166	122	168	192	153	190	223	235	258	261	278	278	260	278	273	180
6	278	283	292	287	283	284	299	298	296	281	269	261	255	262	255	259	264	267	269	270	274	259	290	299	276
7	264	289	282	299	269	273	274	229	229	204	270	271	272	281	304	284	243	226	225	186	156	240	297	268	258
8	254	254	215	249	286	269	262	270	278	273	271	284	295	290	286	292	305	305	306	320	261	294	299	139	278
9	73	134	74	100	110	92	97	138	128	137	29	312	329	47	53	41	296	117	87	119	98	135	164	141	96
10	149	131	132	146	151	152	122	107	114	135	98	148	324	295	299	337	317	163	83	143	136	61	103	81	121
11	42	71	106	174	119	36	56	124	136	138	114	171	255	271	262	259	262	261	247	114	118	120	114	48	132
12	97	48	111	68	62	39	87	66	69	172	279	5	297	272	263	296	299	222	38	283	46	92	103	145	50
13	118	148	143	150	156	123	147	80	128	138	219	229	250	265	278	263	274	333	301	297	297	296	345	317	230
14	326	307	304	306	257	325	32	291	333	348	47	44	24	358	351	353	350	5	331	28	108	113	23	31	355
15	76	42	153	122	102	137	128	128	118	128	130	75	309	263	285	300	281	337	54	82	67	83	78	68	89
16	70	68	123	16	98	348	44	106	132	108	182	147	6	268	269	288	304	316	141	107	135	129	141	115	101
17	116	90	116	102	110	112	113	140	32	164	257	283	283	292	285	272	251	240	235	54	30	326	279	266	234
18	260	7	291	260	255	229	210	232	243	233	240	233	231	238	247	252	263	291	300	305	303	302	273	266	261
19	256	266	285	266	289	43	109	268	260	264	263	268	266	268	267	269	271	273	273	277	276	274	276	290	272
20	280	283	278	270	268	275	282	333	341	330	323	269	263	250	31	306	311	312	262	208	156	210	229	329	284
21	233	258	285	293	279	277	307	313	316	329	286	276	308	312	342	250	252	252	278	69	55	296	272	265	290
22	255	252	259	241	285	68	107	85	81	71	86	92	104	151	163	153	178	150	138	242	275	274	252	301	172
23	300	187	241	299	51	66	51	23	81	118	296	159	165	156	160	158	171	162	157	160	161	153	158	160	151
24	144	94	70	22	56	98	82	139	122	148	154	110	92	343	245	306	272	84	95	138	56	140	124	100	103
25	125	127	280	131	74	149	106	62	256	94	270	266	251	226	228	212	198	190	182	176	104	277	187	170	183
26	171	160	79	115	108	85	75	77	75	99	193	214	218	227	222	233	292	275	276	293	299	289	279	274	214
27	269	280	272	291	282	280	243	219	5	273	263	269	258	272	252	202	159	157	115	94	94	112	126	136	237
28	142	149	141	131	96	95	129	125	130	275	218	227	221	235	268	270	275	268	214	109	53	73	82	117	160
Prev	194	161	205	217	123	76	110	122	125	170	240	239	267	259	262	268	267	248	243	130	104	225	224	185	235

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
March 2023

Day	<< Hour >>																								Prev
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	111	64	95	65	57	63	112	92	141	127	131	325	296	257	252	263	263	268	256	251	268	244	265	263	235
2	260	268	264	264	268	268	288	278	278	274	307	46	351	247	243	219	196	173	222	237	261	294	278	299	265
3	279	273	270	240	95	76	46	76	97	347	257	259	273	271	283	278	288	283	265	282	72	164	97	72	287
4	108	87	129	112	149	153	125	107	120	93	189	180	131	164	166	145	159	146	139	90	301	60	104	99	129
5	109	11	29	140	43	30	15	62	121	148	139	143	143	140	120	123	119	119	119	148	162	157	159	162	118
6	150	138	144	154	153	154	163	170	165	158	159	162	149	137	140	90	136	160	151	141	103	111	143	153	146
7	337	103	129	10	36	118	110	168	121	39	47	337	252	250	254	256	200	164	148	118	133	159	171	139	137
8	123	127	161	161	164	160	126	107	119	125	151	288	314	315	312	258	265	254	276	277	328	336	297	72	213
9	76	76	58	80	116	167	232	119	93	131	141	166	162	145	122	125	151	154	157	167	143	103	198	143	134
10	142	168	163	162	161	165	164	164	160	165	166	161	160	160	162	175	292	259	274	275	252	335	153	210	182
11	307	292	299	299	297	311	292	313	260	263	285	255	272	296	193	313	256	287	252	170	153	89	355	148	278
12	123	205	10	280	138	136	158	125	129	140	300	338	18	293	270	264	245	159	139	130	115	125	121	136	151
13	160	141	140	127	155	141	135	138	113	123	169	187	178	164	192	192	175	190	179	178	168	183	204	176	163
14	186	180	169	191	224	264	273	275	295	285	297	297	276	313	5	28	192	164	135	146	149	158	163	160	217
15	155	150	146	154	178	172	298	299	301	303	300	292	282	299	301	306	292	276	268	231	163	95	160	346	257
16	308	62	90	119	126	119	98	117	144	127	287	286	258	293	305	295	334	331	317	125	59	33	51	68	46
17	53	30	24	108	101	145	108	119	116	117	126	294	266	262	260	263	267	266	150	95	74	105	85	97	109
18	88	101	113	127	136	126	123	145	140	37	143	147	147	156	173	161	162	158	187	145	139	137	136	115	137
19	91	105	97	106	108	52	108	92	19	123	54	267	257	255	264	286	259	242	125	80	72	342	118	160	101
20	59	152	91	315	75	61	24	326	133	188	289	281	302	305	257	330	264	291	270	263	274	270	265	267	291
21	267	193	262	100	82	53	140	72	114	94	180	259	266	259	260	264	277	323	28	115	55	61	59	41	78
22	69	11	114	102	126	121	92	149	102	109	131	293	273	287	275	267	269	228	162	118	11	112	106	99	119
23	74	85	78	78	109	96	96	125	54	117	133	333	277	254	273	266	265	209	347	139	131	143	123	155	118
24	130	71	262	254	186	133	98	38	275	258	262	265	286	258	265	282	280	314	321	316	320	326	327	308	287
25	313	326	324	321	297	321	329	300	293	317	342	14	3	356	355	5	21	12	5	30	62	299	141	142	344
26	175	158	162	161	129	59	127	142	14	5	6	45	48	11	15	15	346	340	337	336	358	296	99	99	43
27	92	67	72	54	79	95	106	171	102	92	93	305	275	270	266	270	259	215	154	162	111	125	94	109	116
28	112	91	121	141	134	111	125	150	195	336	18	157	246	39	75	256	269	268	167	164	149	146	137	127	141
29	149	148	117	139	122	156	158	151	148	161	164	160	155	154	142	156	123	156	158	158	161	155	164	161	151
30	132	336	313	296	306	309	188	165	298	158	163	157	160	174	304	277	320	327	253	292	304	265	121	290	264
31	340	143	315	167	28	309	171	360	118	51	305	284	259	256	260	264	251	251	261	256	220	195	174	153	251
Prev	112	109	111	134	121	116	125	124	126	119	178	265	256	255	254	263	250	236	204	167	125	132	137	134	161

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	66	86	38	91	72	47	85	42	76	79	19	85	79	73	25	57	56	61	44	28	35	51	39	27	57	91	19
2	51	35	40	99	30	69	46	38	37	41	47	83	6	6	4	4	4	15	36	92	29	17	32	25	37	99	4
3	19	35	31	12	15	50	13	38	45	35	91	94	55	16	11	9	20	64	68	44	60	72	37	74	42	94	9
4	20	9	11	11	11	11	15	7	59	33	17	14	13	14	12	25	29	52	17	27	27	29	25	34	22	59	7
5	30	30	41	73	17	39	19	17	16	17	16	37	6	7	6	4	7	6	29	14	19	17	12	15	21	73	4
6	17	30	67	26	82	Wx	Wx	Wx	Wx	Wx	Wx	66	21	10	19	21	45	63	23	50	55	75	84	96	47	96	10
7	73	81	67	61	55	37	27	44	31	17	51	73	53	69	71	36	22	18	12	16	14	18	30	23	42	81	12
8	23	25	43	51	73	31	44	36	40	79	94	51	70	61	27	17	10	42	32	47	31	22	28	27	42	94	10
9	19	74	15	17	50	8	12	12	18	27	55	71	72	34	12	19	91	67	58	37	7	19	22	19	35	91	7
10	73	90	68	74	86	92	45	83	47	74	80	49	84	17	86	38	64	26	36	45	28	43	38	46	59	92	17
11	66	72	76	85	101	56	38	81	83	90	59	93	73	45	59	85	85	66	86	43	38	38	43	48	67	101	38
12	40	22	43	36	31	29	17	34	24	44	88	65	23	36	32	32	45	67	86	78	87	51	43	51	46	88	17
13	51	71	63	31	32	56	43	28	18	27	97	53	46	44	12	5	12	9	88	76	10	19	53	58	42	97	5
14	28	57	94	90	42	71	66	9	44	42	74	46	10	13	56	49	47	51	25	48	48	20	62	54	48	94	9
15	42	27	16	25	51	15	19	29	64	61	72	78	79	63	53	91	102	57	33	41	81	43	9	14	49	102	9
16	39	29	26	76	58	43	72	80	44	74	52	10	6	8	9	31	8	18	41	93	65	77	43	83	45	93	6
17	89	19	76	68	67	85	49	31	20	47	93	15	18	19	19	8	20	41	93	62	85	56	35	99	51	99	8
18	53	100	46	56	70	58	83	65	82	64	66	46	7	11	12	16	15	47	26	47	29	55	46	89	50	100	7
19	49	81	74	47	88	84	65	92	80	71	96	87	52	41	25	10	13	10	56	36	88	64	39	87	60	96	10
20	68	79	71	76	38	80	49	60	72	56	43	59	14	8	15	70	82	46	21	35	45	54	55	48	52	82	8
21	71	81	80	78	92	72	77	76	84	53	42	47	44	35	15	16	53	57	70	38	48	59	78	75	60	92	15
22	65	75	76	69	76	90	46	70	94	94	24	20	36	9	10	12	8	8	12	11	13	17	25	22	41	94	8
23	34	28	65	24	55	35	49	89	56	37	27	17	14	11	16	13	27	19	32	46	49	28	33	81	37	89	11
24	82	97	82	70	68	70	73	57	69	86	31	44	11	54	26	8	7	8	8	9	9	8	12	13	42	97	7
25	29	26	73	44	69	78	82	80	77	88	75	68	68	10	9	8	11	14	11	12	9	12	12	14	41	88	8
26	19	20	41	14	13	12	18	17	21	15	9	8	10	11	9	8	9	17	19	10	7	74	68	25	20	74	7
27	22	63	13	15	11	9	16	12	9	7	7	6	27	18	16	13	14	8	10	25	20	17	22	88	20	88	6
28	17	10	10	20	19	12	10	11	12	10	9	8	6	7	7	8	7	10	42	54	84	37	47	42	21	84	6
29	37	28	26	56	29	59	53	65	67	89	10	10	12	11	11	7	8	53	61	34	57	59	66	57	40	89	7
30	43	57	69	73	79	69	79	76	68	68	45	44	14	24	15	26	57	58	21	43	73	63	59	68	54	79	14
31	94	81	65	62	66	52	26	45	73	36	17	17	14	15	11	18	14	12	12	15	9	13	16	15	33	94	9
Avg	46	52	52	53	53	51	45	47	51	52	50	47	34	26	23	25	32	35	39	41	41	40	39	49	42	90	10
Max	94	100	94	99	101	92	85	92	94	94	97	94	84	73	86	91	102	67	93	93	88	77	84	99	67	102	38
Min	17	9	10	11	11	8	10	7	9	7	7	6	6	6	4	4	4	6	8	9	7	8	9	13	20	59	4

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	19	11	10	11	10	18	9	51	21	17	32	13	12	12	21	17	47	23	25	7	13	18	18	56	20	56	7
2	59	27	36	24	27	65	33	51	72	59	83	82	79	47	41	99	78	54	52	31	46	47	23	24	52	99	23
3	27	53	67	79	54	27	46	32	34	45	101	103	22	24	23	15	23	80	70	49	90	15	12	9	46	103	9
4	11	22	19	15	15	41	51	30	18	18	9	13	17	12	14	28	20	78	78	72	70	56	50	68	34	78	9
5	33	34	63	23	42	38	57	82	83	53	91	23	11	30	19	16	10	13	14	12	19	18	11	10	34	91	10
6	8	10	9	7	7	11	7	9	11	9	10	15	8	11	7	8	8	8	11	13	23	35	18	48	13	48	7
7	31	12	11	76	22	15	14	33	25	71	13	19	17	17	11	15	10	9	16	17	43	80	40	55	28	80	9
8	19	11	32	15	12	13	9	12	10	11	11	10	10	10	8	10	8	7	7	7	36	37	68	76	19	76	7
9	99	81	73	57	58	89	72	52	66	69	45	83	55	69	92	36	94	65	28	30	34	37	74	70	64	99	28
10	38	16	46	44	48	46	57	59	76	101	69	48	97	63	70	83	74	24	76	33	43	67	61	56	58	101	16
11	76	70	58	100	43	88	78	19	44	71	73	65	43	17	8	7	8	23	63	38	37	58	62	69	51	100	7
12	63	80	78	85	86	61	83	78	82	86	100	57	24	20	13	17	15	58	51	29	68	44	36	55	57	100	13
13	59	61	36	68	75	84	50	78	36	43	44	11	13	11	11	8	19	14	12	11	15	21	38	6	34	84	6
14	7	14	10	5	71	52	66	14	29	30	61	46	35	18	11	11	12	14	14	61	23	33	20	61	30	71	5
15	58	81	89	94	72	82	49	44	80	33	36	92	33	23	18	20	51	59	22	44	22	39	47	52	52	94	18
16	67	91	90	81	78	71	67	63	63	70	59	75	61	15	14	23	39	96	26	27	43	12	29	44	54	96	12
17	30	46	40	68	65	68	67	52	74	73	63	18	17	12	15	16	14	18	78	86	88	58	41	75	49	88	12
18	76	55	58	55	28	15	9	11	9	9	11	13	13	11	10	9	9	15	14	9	16	24	52	22	23	76	9
19	10	16	25	13	41	81	48	42	11	11	10	10	11	10	10	9	10	11	10	9	9	9	9	11	18	81	9
20	10	9	9	9	9	10	9	34	20	14	19	12	11	9	73	38	21	69	19	69	67	66	16	97	30	97	9
21	15	30	14	11	13	9	10	11	12	25	26	15	31	23	28	6	4	6	64	20	62	69	35	10	23	69	4
22	9	12	10	20	41	60	22	19	15	15	17	13	19	24	5	11	19	6	6	59	13	20	22	19	20	60	5
23	16	59	44	35	52	38	49	85	48	77	74	11	8	6	6	3	9	6	4	4	3	14	5	5	28	85	3
24	20	23	12	42	35	42	59	61	67	75	59	61	76	30	81	34	84	61	48	59	72	79	64	75	55	84	12
25	59	71	82	69	85	59	86	74	99	63	67	17	12	13	12	13	57	45	12	70	39	83	36	9	51	99	9
26	9	24	50	26	23	16	56	52	39	31	37	12	13	10	10	23	13	14	17	16	15	17	11	14	23	56	9
27	13	10	10	15	15	24	67	31	66	36	13	14	16	28	29	49	8	8	29	17	18	31	67	18	26	67	8
28	31	13	31	13	14	20	15	30	62	72	59	16	12	15	16	14	15	16	86	40	36	14	12	30	28	86	12
Avg	35	37	40	41	41	44	44	43	45	46	46	35	28	21	24	23	28	32	34	34	38	39	35	41	36	83	10
Max	99	91	90	100	86	89	86	85	99	101	101	103	97	69	92	99	94	96	86	86	90	83	74	97	64	103	28
Min	7	9	9	5	7	9	7	9	9	9	9	10	8	6	5	3	4	6	4	4	3	9	5	5	13	48	3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	36	35	23	37	33	51	38	33	33	68	55	85	31	6	9	9	11	12	8	18	62	19	19	13	31	85	6
2	12	12	15	11	27	20	26	16	19	29	40	93	73	83	25	78	53	83	9	10	22	11	12	18	33	93	9
3	10	10	12	61	49	10	33	32	37	84	9	14	14	15	10	12	12	10	17	28	85	68	55	77	32	85	9
4	61	68	79	83	84	74	44	27	66	87	58	22	12	12	14	11	17	10	12	84	61	47	15	55	46	87	10
5	26	101	71	26	64	91	45	85	21	16	9	11	11	14	15	12	9	11	13	22	6	6	9	9	29	101	6
6	9	13	20	10	6	5	8	10	10	6	5	4	6	9	47	79	26	35	7	23	38	32	31	32	20	79	4
7	88	56	43	102	66	55	87	70	57	86	67	44	11	17	23	18	43	19	44	48	33	41	53	59	51	102	11
8	22	15	39	43	24	50	43	66	52	42	37	42	8	6	12	10	18	6	30	33	73	42	51	13	32	73	6
9	7	8	38	11	33	48	34	89	21	13	9	12	13	13	20	17	4	8	7	4	22	23	81	32	24	89	4
10	21	14	19	13	6	7	10	7	5	4	3	7	5	5	7	30	23	57	75	38	59	100	68	91	28	100	3
11	22	28	18	11	10	7	12	57	32	8	15	16	37	46	49	15	15	36	58	75	82	64	93	41	35	93	7
12	84	80	89	92	68	71	70	78	70	85	76	17	33	42	14	15	31	29	68	20	19	12	24	37	51	92	12
13	43	32	18	22	21	13	28	54	35	24	25	12	14	10	14	13	13	11	10	11	11	14	10	16	20	54	10
14	15	33	17	19	27	13	13	15	9	16	12	15	28	20	60	80	19	9	8	12	12	12	10	12	20	80	8
15	10	10	13	6	27	17	19	9	9	7	9	11	6	13	11	10	14	12	57	63	88	65	96	42	26	96	6
16	81	36	34	31	55	77	72	51	46	48	29	12	5	24	15	22	12	15	66	46	32	28	31	36	38	81	5
17	36	46	54	38	64	35	64	35	28	37	37	89	6	5	5	4	4	16	56	24	22	20	24	14	32	89	4
18	31	28	18	19	10	19	21	19	25	54	24	7	8	11	16	8	9	13	75	47	48	18	23	21	24	75	7
19	19	23	25	35	42	35	34	38	66	20	65	34	5	9	23	17	9	28	79	47	77	61	81	62	39	81	5
20	66	86	68	63	42	54	56	76	71	95	65	20	14	19	42	33	20	16	27	28	16	8	7	10	42	95	7
21	13	45	96	46	43	72	60	75	30	43	88	7	18	6	5	7	12	30	55	59	17	23	24	26	38	96	5
22	42	44	36	60	67	56	63	59	51	43	24	55	17	18	19	6	10	46	47	57	46	31	22	19	39	67	6
23	58	72	48	38	30	47	31	84	66	82	41	74	32	16	22	12	9	61	89	76	35	73	71	89	52	89	9
24	89	83	89	33	41	69	47	60	39	9	11	13	23	17	15	18	64	15	20	55	20	13	11	9	36	89	9
25	14	9	8	8	41	29	50	12	8	21	17	15	9	9	10	9	15	12	13	42	76	91	66	51	26	91	8
26	32	66	34	58	46	88	86	61	74	7	14	38	36	8	8	7	64	17	12	11	18	40	67	26	38	88	7
27	18	15	42	45	44	46	29	43	64	83	55	64	12	15	11	11	17	31	9	29	31	19	21	22	32	83	9
28	24	29	28	47	26	28	11	16	84	54	45	62	67	28	77	22	10	11	19	3	26	10	13	18	32	84	3
29	16	16	28	57	44	7	4	13	18	7	5	7	6	5	61	6	55	19	4	4	5	11	6	9	17	61	4
30	58	83	35	18	17	22	60	8	60	60	9	4	4	25	41	22	8	8	30	27	21	26	53	87	33	87	4
31	53	60	100	62	88	61	79	87	68	43	48	16	10	10	9	12	10	11	11	12	36	93	66	43	45	100	9
Avg	36	41	41	39	40	41	41	45	41	41	32	30	19	17	23	20	21	22	33	34	39	36	39	35	34	86	7
Max	89	101	100	102	88	91	87	89	84	95	88	93	73	83	77	80	64	83	89	84	88	100	96	91	52	102	12
Min	7	8	8	6	6	5	4	7	5	4	3	4	4	5	5	4	4	6	4	3	5	6	6	9	17	54	3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-12.8	-13.8	-15.2	-15.6	-15.6	-14.2	-13.7	-12.7	-11.8	-10.5	-8.5	-6.2	-3.5	-2.9	-2.6	-2.7	-3.1	-5.1	-8.7	-10.8	-12.3	-14.9	-15.5	-16.2	-10.4	-2.6	-16.2
2	-16.9	-17.8	-18.0	-18.3	-18.8	-19.7	-19.6	-20.5	-20.8	-19.4	-17.0	-12.4	-3.5	-2.3	-2.4	-2.6	-3.0	-5.0	-8.1	-11.3	-8.8	-5.7	-6.5	-7.1	-11.9	-2.3	-20.8
3	-8.8	-10.0	-11.1	-12.7	-13.0	-14.1	-14.6	-15.4	-15.7	-15.6	-14.5	-12.1	-7.1	-4.5	-4.2	-4.4	-5.1	-6.7	-8.6	-7.9	-12.3	-13.3	-12.5	-9.6	-10.6	-4.2	-15.7
4	-5.6	-4.9	-4.8	-4.9	-5.5	-6.1	-5.9	-6.2	-6.7	-6.3	-4.7	-3.9	-3.5	-3.1	-2.9	-2.9	-3.7	-7.8	-11.5	-13.2	-14.7	-15.4	-16.5	-16.7	-7.4	-2.9	-16.7
5	-17.0	-17.4	-17.6	-16.8	-17.1	-16.1	-14.8	-13.7	-11.8	-9.8	-7.2	-3.6	-0.6	0.2	0.4	0.7	0.7	0.8	-0.1	-1.0	-1.5	-1.4	-1.2	-1.2	-7.0	0.8	-17.6
6	-1.2	-1.4	-1.6	-1.7	-1.7	-1.6	-1.4	-1.4	-1.4	-1.2	-1.0	-0.8	-0.3	0.0	0.0	-0.4	-0.6	-1.2	-3.6	-6.2	-8.4	-10.1	-11.8	-12.4	-3.0	0.0	-12.4
7	-13.3	-14.5	-14.7	-15.7	-16.2	-16.2	-16.2	-15.7	-15.4	-13.2	-12.3	-10.3	-7.8	-5.4	-5.0	-4.4	-3.9	-5.1	-6.3	-7.4	-8.2	-8.9	-9.7	-10.3	-10.7	-3.9	-16.2
8	-10.1	-11.1	-10.2	-10.1	-9.9	-10.6	-11.1	-12.1	-12.9	-11.9	-10.4	-8.5	-5.6	-1.5	0.8	1.2	0.0	0.7	-0.4	-1.1	-1.0	-0.7	-1.3	-1.7	-5.8	1.2	-12.9
9	-1.0	-0.8	-0.6	-0.9	-1.0	-0.6	-1.1	-1.9	-6.4	-6.2	-6.0	-4.0	-3.7	-1.8	0.6	0.4	-1.3	-2.2	-2.5	-1.7	-1.4	-0.8	-0.2	-0.3	-1.9	0.6	-6.4
10	-0.4	-0.4	-0.8	-0.4	-0.7	-2.0	-4.4	-7.3	-9.4	-9.7	-9.4	-6.7	-2.5	-0.1	0.1	-0.1	-4.0	-8.1	-10.0	-10.9	-11.1	-13.2	-14.0	-14.3	-5.8	0.1	-14.3
11	-14.4	-14.1	-14.5	-14.3	-14.8	-14.1	-14.2	-13.9	-13.8	-13.2	-11.8	-10.0	-7.3	-4.0	-2.0	-2.0	-3.7	-5.5	-7.0	-7.9	-9.3	-10.8	-12.2	-13.7	-10.4	-2.0	-14.8
12	-14.7	-15.1	-15.5	-15.2	-14.8	-13.7	-13.3	-12.8	-12.8	-12.4	-9.3	-4.6	-0.1	1.7	1.0	1.4	1.7	0.4	-1.9	-3.8	-5.2	-5.6	-5.4	-4.8	-7.3	1.7	-15.5
13	-5.5	-5.5	-3.0	-1.2	-1.1	-1.2	-2.7	-4.1	-5.5	-4.8	-3.3	2.0	5.5	6.6	5.9	5.9	5.3	5.0	2.7	1.9	3.2	3.0	2.5	0.4	0.5	6.6	-5.5
14	-0.1	-0.2	0.5	0.7	1.3	0.7	0.2	0.5	0.8	0.8	0.9	2.1	2.3	2.9	2.8	1.8	0.0	-2.0	-4.1	-5.3	-5.7	-6.3	-6.7	-6.1	-0.8	2.9	-6.7
15	-4.8	-4.7	-4.0	-3.2	-3.7	-3.7	-4.6	-6.2	-7.1	-6.4	-5.5	-3.6	-1.5	-0.4	0.5	0.6	0.9	0.4	-0.6	-1.4	-1.8	-2.0	-2.2	-2.1	-2.8	0.9	-7.1
16	-2.4	-2.5	-2.4	-2.5	-2.7	-2.2	-1.8	-1.9	-2.2	-2.0	-1.6	-1.1	-1.2	-1.4	-1.5	-1.6	-1.9	-2.3	-2.7	-2.9	-3.4	-3.6	-4.1	-3.8	-2.3	-1.1	-4.1
17	-3.5	-3.6	-3.9	-5.5	-5.9	-5.9	-6.9	-6.9	-6.3	-5.9	-4.7	-3.7	-3.6	-3.4	-3.2	-3.0	-3.1	-3.7	-3.8	-4.2	-4.2	-4.0	-3.9	-4.5	-4.5	-3.0	-6.9
18	-5.9	-9.0	-12.1	-14.6	-14.8	-14.8	-15.7	-16.8	-17.0	-16.0	-13.8	-8.1	-5.8	-4.5	-4.2	-4.3	-4.7	-7.9	-11.3	-13.7	-14.8	-15.1	-16.9	-16.9	-11.6	-4.2	-17.0
19	-17.2	-18.2	-18.2	-17.9	-17.4	-15.5	-14.1	-13.2	-11.8	-10.6	-9.4	-8.0	-5.8	-4.6	-4.2	-3.7	-3.6	-3.9	-4.1	-5.0	-5.7	-6.7	-9.7	-12.2	-10.0	-3.6	-18.2
20	-12.3	-11.3	-9.8	-7.1	-7.3	-9.5	-12.6	-14.7	-13.3	-9.6	-8.8	-7.7	-6.4	-5.9	-5.9	-6.1	-7.2	-9.0	-12.3	-14.4	-15.8	-16.7	-17.3	-17.1	-10.8	-5.9	-17.3
21	-18.3	-18.7	-19.2	-19.2	-18.2	-17.2	-17.1	-15.7	-14.2	-12.3	-9.6	-7.9	-6.3	-4.9	-4.1	-3.5	-4.7	-8.1	-10.0	-12.5	-13.4	-14.1	-15.9	-15.9	-12.5	-3.5	-19.2
22	-16.2	-16.4	-15.3	-13.8	-12.8	-12.0	-11.1	-10.5	-9.9	-8.7	-7.2	-6.7	-5.4	-4.3	-3.7	-3.4	-3.6	-4.2	-4.4	-4.5	-4.7	-4.8	-5.2	-5.9	-8.1	-3.4	-16.4
23	-6.4	-7.2	-7.8	-8.1	-8.9	-8.2	-7.6	-8.0	-8.4	-8.0	-7.2	-6.2	-5.7	-6.1	-6.8	-6.9	-6.8	-7.5	-8.5	-11.0	-12.9	-14.6	-17.3	-18.5	-8.9	-5.7	-18.5
24	-19.8	-20.7	-21.2	-21.3	-21.7	-21.0	-18.9	-17.4	-15.3	-11.4	-8.5	-7.6	-6.5	-5.8	-5.3	-5.0	-4.8	-4.8	-4.9	-4.9	-5.0	-5.1	-5.4	-6.7	-11.2	-4.8	-21.7
25	-7.2	-7.1	-8.1	-10.5	-12.9	-15.0	-17.1	-18.2	-17.7	-17.8	-15.6	-13.4	-9.3	-5.2	-3.9	-4.7	-4.9	-4.7	-4.6	-4.6	-4.5	-4.2	-3.6	-3.6	-9.1	-3.6	-18.2
26	-3.8	-3.8	-3.6	-3.6	-3.5	-3.3	-3.3	-3.1	-2.6	-2.0	-1.3	-0.3	0.3	0.8	1.4	1.4	1.5	0.7	0.4	0.1	0.0	-1.0	-1.4	-2.4	-1.4	1.5	-3.8
27	-3.3	-2.3	-0.7	-0.7	-1.0	-1.1	-1.2	-1.3	-1.2	-1.1	-1.0	-1.0	-1.4	-1.7	-1.9	-2.4	-2.9	-3.4	-3.8	-4.2	-4.9	-5.7	-6.8	-7.7	-2.6	-0.7	-7.7
28	-8.6	-9.3	-10.8	-13.1	-14.7	-16.0	-17.1	-17.8	-18.7	-19.2	-19.3	-19.2	-19.0	-18.7	-18.7	-19.3	-20.7	-22.4	-23.8	-25.0	-26.2	-27.6	-30.0	-31.6	-19.4	-8.6	-31.6
29	-32.7	-32.9	-33.2	-33.6	-33.0	-32.7	-32.4	-32.1	-32.0	-30.0	-25.3	-24.6	-24.7	-24.7	-24.3	-24.2	-24.6	-26.6	-29.3	-31.3	-32.2	-33.1	-33.0	-33.3	-29.8	-24.2	-33.6
30	-32.2	-32.2	-32.7	-32.3	-32.4	-31.8	-30.2	-29.2	-27.8	-26.7	-24.1	-20.8	-19.2	-18.5	-17.7	-17.3	-17.0	-18.9	-23.2	-24.7	-26.7	-27.9	-29.1	-29.1	-25.9	-17.0	-32.7
31	-28.2	-27.2	-25.8	-25.5	-23.9	-16.8	-14.0	-14.8	-13.5	-11.2	-10.0	-8.9	-8.2	-7.6	-7.5	-7.6	-6.7	-6.6	-6.7	-6.4	-6.8	-7.0	-6.9	-7.0	-12.7	-6.4	-28.2
Avg	-11.1	-11.4	-11.5	-11.6	-11.7	-11.5	-11.6	-11.8	-11.7	-10.7	-9.3	-7.3	-5.4	-4.2	-3.8	-3.8	-4.4	-5.6	-7.2	-8.3	-9.0	-9.6	-10.3	-10.7	-8.9	-3.1	-15.9
Max	-0.1	-0.2	0.5	0.7	1.3	0.7	0.2	0.5	0.8	0.8	0.9	2.1	5.5	6.6	5.9	5.9	5.3	5.0	2.7	1.9	3.2	3.0	2.5	0.4	0.5	6.6	-3.8
Min	-32.7	-32.9	-33.2	-33.6	-33.0	-32.7	-32.4	-32.1	-32.0	-30.0	-25.3	-24.6	-24.7	-24.7	-24.3	-24.2	-24.6	-26.6	-29.3	-31.3	-32.2	-33.1	-33.0	-33.3	-29.8	-24.2	-33.6

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-6.3	-5.9	-5.7	-4.9	-4.6	-5.0	-5.5	-5.8	-4.8	-5.1	-4.5	-2.4	-1.9	-1.9	-2.2	-2.5	-3.7	-3.6	-2.9	-1.9	-1.8	-2.0	-2.1	-3.4	-3.8	-1.8	-6.3
2	-3.6	-6.2	-9.0	-10.4	-12.9	-13.3	-13.4	-13.5	-13.0	-12.6	-10.9	-9.0	-6.6	-3.7	-2.8	-3.3	-3.4	-3.8	-4.5	-4.6	-6.5	-5.8	-6.7	-7.0	-7.8	-2.8	-13.5
3	-7.4	-8.2	-9.3	-10.6	-10.9	-11.0	-11.0	-11.7	-11.1	-10.4	-8.3	-0.4	3.4	3.3	4.1	4.3	3.3	0.9	0.0	-1.1	0.9	2.1	1.4	1.0	-3.6	4.3	-11.7
4	0.6	0.6	0.8	0.5	0.1	-0.1	-0.3	0.1	-0.1	0.1	0.6	1.0	1.2	1.3	1.4	1.2	0.6	0.2	-2.3	-3.4	-6.7	-9.2	-10.8	-11.0	-1.4	1.4	-11.0
5	-11.7	-11.4	-10.9	-11.0	-11.1	-10.6	-10.0	-10.1	-9.3	-8.2	-5.0	2.0	2.0	0.9	2.2	2.1	1.6	0.9	0.4	0.2	-0.1	0.0	0.1	-0.3	-4.1	2.2	-11.7
6	-0.2	-0.7	-0.9	-0.9	-1.0	-1.2	-1.4	-1.6	-1.6	-1.1	-1.3	-0.5	-0.4	0.2	0.3	0.2	0.0	-0.5	-1.0	-1.5	-1.9	-2.2	-2.2	-2.6	-1.0	0.3	-2.6
7	-2.3	-2.0	-2.0	-1.6	-1.2	-1.3	-1.6	-2.6	-1.6	-1.7	-0.1	0.2	1.3	2.3	2.4	2.5	2.1	2.2	2.3	1.4	0.6	1.9	1.9	0.7	0.2	2.5	-2.6
8	0.4	0.6	-0.9	-0.2	-2.5	-3.0	-3.3	-3.9	-4.3	-4.1	-3.5	-3.7	-4.3	-4.8	-4.9	-4.6	-4.5	-4.8	-5.3	-5.6	-6.6	-7.4	-8.3	-8.4	-4.1	0.6	-8.4
9	-11.0	-13.7	-16.5	-18.2	-19.2	-20.4	-20.3	-21.4	-21.2	-20.6	-18.2	-15.4	-11.5	-8.3	-4.7	-3.4	-5.3	-7.4	-10.3	-12.0	-13.6	-14.4	-15.1	-15.8	-14.1	-3.4	-21.4
10	-16.2	-15.3	-14.8	-13.9	-14.1	-14.5	-13.1	-12.3	-13.2	-12.6	-11.3	-8.4	-5.1	-1.8	0.8	1.9	0.1	-3.0	-5.7	-8.3	-9.2	-11.4	-10.3	-10.8	-9.3	1.9	-16.2
11	-10.6	-11.9	-12.2	-12.9	-14.5	-15.1	-15.0	-15.8	-15.8	-13.8	-11.7	-9.4	-2.2	0.3	0.7	0.3	0.0	-1.2	-3.5	-7.1	-10.5	-12.5	-13.5	-14.0	-9.2	0.7	-15.8
12	-14.4	-15.4	-15.7	-16.0	-16.0	-16.9	-16.9	-17.6	-16.3	-14.5	-11.7	-3.5	0.4	1.5	1.7	2.2	2.3	1.1	0.5	1.5	-0.1	-1.8	-4.2	-4.7	-7.3	2.3	-17.6
13	-6.0	-6.2	-6.3	-5.8	-5.4	-5.6	-6.2	-7.1	-7.6	-4.2	2.4	4.8	4.6	4.5	4.2	3.7	2.2	0.0	-1.3	-2.8	-3.1	-3.4	-3.8	-3.9	-2.2	4.8	-7.6
14	-4.1	-4.9	-5.4	-5.6	-5.8	-5.9	-5.1	-5.7	-6.1	-7.4	-9.6	-9.9	-10.5	-11.8	-12.3	-12.3	-12.3	-13.0	-13.9	-15.9	-19.1	-21.8	-22.9	-23.7	-11.0	-4.1	-23.7
15	-25.2	-25.9	-27.1	-27.9	-28.3	-28.3	-28.5	-29.0	-27.8	-25.6	-22.7	-17.3	-12.0	-9.8	-8.8	-8.7	-8.6	-9.5	-11.0	-15.5	-17.1	-18.7	-20.0	-20.9	-19.8	-8.6	-29.0
16	-21.2	-21.2	-21.4	-21.6	-22.0	-21.5	-21.9	-21.5	-21.2	-20.1	-17.7	-14.1	-7.5	-3.4	-2.6	-2.1	-2.3	-3.4	-7.1	-8.1	-10.3	-11.7	-12.5	-11.6	-13.7	-2.1	-22.0
17	-11.8	-13.7	-14.8	-16.0	-16.9	-17.2	-16.9	-16.9	-11.5	-8.1	-4.9	-3.4	-3.0	-2.5	-2.3	-1.9	-2.0	-2.3	-4.3	-5.3	-4.7	-4.4	-3.7	-4.2	-8.0	-1.9	-17.2
18	-4.8	-4.5	-4.6	-3.7	-3.4	-3.2	-3.4	-3.5	-3.3	-3.1	-2.9	-2.9	-3.5	-3.4	-3.1	-2.4	-2.3	-3.5	-4.4	-4.8	-5.2	-5.2	-6.2	-5.8	-3.9	-2.3	-6.2
19	-6.3	-6.1	-6.2	-6.4	-7.2	-7.6	-7.9	-5.8	-4.8	-4.5	-4.6	-4.3	-4.0	-3.5	-3.2	-3.1	-3.0	-2.7	-2.1	-2.6	-2.7	-1.8	-2.0	-2.5	-4.4	-1.8	-7.9
20	-1.9	-1.9	-1.6	-1.3	-1.2	-1.0	-1.1	-2.9	-4.4	-4.6	-4.7	-4.7	-4.6	-4.3	-3.5	-2.4	-1.6	-0.9	-0.2	-0.5	-1.1	0.2	1.3	1.6	-2.0	1.6	-4.7
21	2.8	2.9	2.4	0.2	-0.3	-0.1	-2.6	-5.4	-7.9	-9.5	-11.7	-13.0	-13.0	-12.6	-12.6	-14.8	-16.0	-16.4	-16.5	-16.0	-16.7	-18.1	-18.8	-19.8	-9.7	2.9	-19.8
22	-20.5	-21.1	-21.3	-22.0	-22.1	-21.7	-21.7	-22.1	-22.2	-22.1	-21.8	-21.5	-21.3	-21.8	-22.4	-22.7	-23.6	-24.2	-24.7	-25.8	-26.9	-27.2	-27.3	-27.2	-23.1	-20.5	-27.3
23	-27.3	-27.1	-28.1	-29.7	-30.8	-32.0	-32.5	-32.9	-32.5	-31.7	-29.6	-25.7	-24.8	-24.2	-23.9	-24.5	-25.3	-26.2	-27.4	-28.1	-28.0	-27.9	-27.1	-27.7	-28.1	-23.9	-32.9
24	-28.5	-28.9	-29.2	-29.5	-30.7	-31.7	-33.2	-33.4	-33.5	-31.7	-29.2	-24.9	-18.4	-12.7	-10.8	-9.8	-10.5	-10.7	-15.1	-17.8	-19.3	-20.9	-20.8	-22.1	-23.1	-9.8	-33.5
25	-23.0	-23.8	-24.0	-22.6	-20.8	-19.5	-18.1	-16.0	-14.3	-11.8	-4.8	-2.5	-1.6	-0.8	0.0	0.7	0.4	-0.5	-0.8	-3.7	-4.6	-4.8	-3.3	-2.1	-9.3	0.7	-24.0
26	-1.7	-3.7	-2.3	-0.7	-0.9	-0.7	-1.6	-2.5	-2.3	1.2	2.9	4.2	4.7	5.2	4.9	4.1	2.2	2.0	-0.4	-0.5	-1.2	-3.4	-3.6	-4.1	0.1	5.2	-4.1
27	-4.8	-5.0	-5.3	-6.0	-6.7	-7.1	-8.0	-9.3	-8.4	-7.3	-6.2	-5.7	-5.3	-4.6	-4.1	-3.7	-3.9	-5.1	-7.7	-9.6	-10.8	-11.6	-9.1	-7.0	-6.8	-3.7	-11.6
28	-7.1	-8.0	-8.0	-6.7	-7.0	-8.8	-11.1	-11.8	-11.1	-9.8	-5.4	-3.5	-3.7	-4.1	-4.4	-3.9	-3.8	-4.1	-6.2	-7.3	-9.1	-8.5	-9.3	-11.2	-7.2	-3.5	-11.8
Avg	-9.8	-10.3	-10.7	-10.9	-11.3	-11.6	-11.8	-12.2	-11.8	-10.9	-9.2	-6.9	-5.3	-4.3	-3.8	-3.7	-4.2	-5.0	-6.3	-7.4	-8.4	-9.0	-9.2	-9.6	-8.5	-2.1	-15.1
Max	2.8	2.9	2.4	0.5	0.1	-0.1	-0.3	0.1	-0.1	1.2	2.9	4.8	4.7	5.2	4.9	4.3	3.3	2.2	2.3	1.5	0.9	2.1	1.9	1.6	0.2	5.2	-2.6
Min	-28.5	-28.9	-29.2	-29.7	-30.8	-32.0	-33.2	-33.4	-33.5	-31.7	-29.6	-25.7	-24.8	-24.2	-23.9	-24.5	-25.3	-26.2	-27.4	-28.1	-28.0	-27.9	-27.3	-27.7	-28.1	-23.9	-33.5

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-13.2	-14.1	-15.5	-16.6	-17.5	-18.8	-19.8	-20.0	-18.6	-16.8	-14.9	-11.7	-5.7	-4.0	-3.8	-3.6	-3.9	-4.6	-6.6	-7.9	-8.7	-8.5	-7.7	-7.2	-11.2	-3.6	-20.0
2	-7.5	-7.2	-7.4	-7.7	-8.0	-7.8	-7.5	-6.9	-6.7	-6.5	-5.6	-4.9	-4.6	-3.7	-2.1	-1.5	-1.4	-1.2	-0.4	-0.7	-0.9	-2.1	-2.4	-4.0	-4.5	-0.4	-8.0
3	-4.9	-5.3	-6.2	-7.7	-9.2	-11.1	-13.5	-13.4	-12.5	-10.7	-6.8	-6.0	-5.1	-5.0	-5.2	-5.1	-5.7	-5.9	-6.6	-7.7	-9.7	-13.6	-12.5	-13.4	-8.4	-4.9	-13.6
4	-15.6	-16.2	-16.2	-16.6	-16.7	-16.8	-17.4	-17.8	-17.9	-15.8	-8.9	-5.9	-5.7	-4.9	-4.6	-4.8	-4.9	-5.0	-5.9	-6.2	-6.6	-6.2	-6.3	-7.2	-10.4	-4.6	-17.9
5	-8.3	-9.7	-11.1	-12.8	-14.1	-14.3	-14.3	-12.5	-8.3	-7.0	-6.5	-6.8	-6.8	-6.6	-5.8	-5.6	-5.7	-6.1	-6.5	-7.3	-8.7	-9.4	-10.2	-10.9	-9.0	-5.6	-14.3
6	-10.8	-10.5	-10.3	-10.5	-10.4	-10.7	-11.0	-11.0	-11.0	-10.9	-10.3	-9.3	-8.8	-8.3	-7.5	-6.9	-7.0	-7.4	-9.1	-11.9	-12.3	-14.8	-16.8	-17.6	-10.6	-6.9	-17.6
7	-19.1	-17.7	-16.8	-16.0	-15.0	-14.2	-13.7	-13.5	-13.2	-11.7	-9.3	-6.9	-6.0	-5.4	-5.0	-4.7	-4.7	-6.3	-8.3	-10.0	-10.9	-13.9	-16.1	-17.1	-11.5	-4.7	-19.1
8	-18.3	-19.2	-18.9	-20.5	-21.3	-21.8	-21.7	-21.5	-20.3	-18.2	-15.1	-10.7	-7.4	-7.6	-7.1	-8.4	-10.5	-12.0	-12.7	-12.9	-13.0	-13.0	-13.1	-13.7	-15.0	-7.1	-21.8
9	-15.1	-16.0	-15.8	-15.5	-15.1	-15.0	-15.0	-14.6	-12.6	-11.6	-10.4	-8.8	-7.7	-7.1	-6.5	-5.9	-5.7	-6.3	-8.8	-10.1	-12.3	-13.3	-14.7	-14.6	-11.6	-5.7	-16.0
10	-12.4	-10.0	-8.6	-8.0	-8.3	-8.7	-7.6	-6.7	-6.8	-7.9	-7.5	-7.2	-4.4	-2.9	-3.5	-3.8	-7.8	-10.0	-10.8	-13.3	-13.6	-14.9	-15.6	-15.1	-9.0	-2.9	-15.6
11	-14.6	-14.7	-14.2	-14.4	-15.3	-14.7	-15.3	-15.8	-15.3	-14.6	-13.7	-13.0	-11.3	-9.5	-8.0	-6.2	-6.7	-7.3	-9.9	-12.6	-14.5	-16.3	-16.6	-16.8	-13.0	-6.2	-16.8
12	-16.0	-15.9	-16.3	-17.2	-17.3	-16.3	-16.0	-15.3	-14.9	-13.4	-11.2	-5.7	-3.0	-2.1	-1.3	-1.1	-1.4	-2.5	-5.0	-6.8	-10.2	-11.0	-13.1	-14.2	-10.3	-1.1	-17.3
13	-14.2	-14.0	-13.9	-13.2	-12.0	-10.8	-9.5	-9.2	-7.4	-1.6	1.4	2.9	3.6	3.9	4.7	5.3	4.8	5.2	4.3	4.1	3.7	3.2	3.3	3.1	-2.2	5.3	-14.2
14	2.9	3.1	3.0	3.2	3.4	0.9	-0.1	-0.5	-0.7	-0.7	-0.6	0.3	1.3	2.3	3.0	3.8	4.4	4.0	1.6	-0.7	-1.1	-1.8	-2.5	-3.1	1.1	4.4	-3.1
15	-3.2	-3.1	-3.2	-3.5	-3.8	-4.4	-4.0	-4.5	-5.0	-5.3	-5.1	-4.9	-4.7	-3.4	-2.8	-3.0	-3.4	-4.2	-4.8	-6.6	-7.4	-7.4	-7.7	-8.1	-4.7	-2.8	-8.1
16	-9.0	-10.2	-12.1	-13.3	-14.7	-15.5	-16.5	-16.9	-16.5	-14.2	-7.4	-4.7	-4.3	-4.0	-3.6	-3.4	-4.1	-4.4	-6.4	-9.0	-12.3	-13.9	-14.8	-16.2	-10.3	-3.4	-16.9
17	-18.1	-19.4	-20.3	-21.0	-22.1	-21.8	-22.7	-22.3	-20.3	-18.4	-14.6	-7.7	-3.3	-2.5	-2.2	-1.7	-1.4	-2.7	-4.6	-8.6	-10.9	-13.7	-14.0	-15.5	-12.9	-1.4	-22.7
18	-16.9	-18.1	-17.7	-18.6	-18.8	-19.3	-18.9	-18.7	-16.9	-13.4	-4.1	0.0	0.8	1.6	2.0	1.8	1.6	-0.3	-2.7	-5.3	-6.8	-8.3	-10.3	-11.2	-9.1	2.0	-19.3
19	-12.6	-13.4	-13.2	-14.3	-14.8	-14.8	-14.6	-14.7	-13.1	-11.5	-6.1	-0.6	0.7	1.3	1.8	2.3	2.3	1.2	-1.8	-5.3	-7.1	-8.9	-9.2	-7.7	-7.3	2.3	-14.8
20	-9.0	-9.3	-9.6	-9.6	-9.8	-11.2	-12.2	-12.3	-10.9	-6.7	-1.4	-1.2	-1.0	-0.7	-0.8	-2.0	-3.4	-3.8	-4.5	-4.9	-5.3	-5.9	-6.4	-7.2	-6.2	-0.7	-12.3
21	-8.1	-9.2	-9.5	-9.2	-9.7	-10.0	-11.1	-11.2	-10.4	-8.8	-6.5	-5.0	-3.9	-2.9	-2.5	-2.2	-2.0	-2.2	-4.3	-6.6	-9.2	-10.8	-13.2	-15.0	-7.6	-2.0	-15.0
22	-17.6	-18.4	-19.3	-20.1	-21.0	-21.9	-22.9	-21.8	-19.8	-17.2	-13.4	-8.6	-2.4	-1.7	-1.3	-1.2	-1.1	-2.0	-4.0	-8.0	-10.6	-12.9	-13.5	-14.1	-12.3	-1.1	-22.9
23	-17.2	-18.1	-19.3	-19.7	-20.1	-20.0	-20.3	-19.8	-18.1	-14.9	-10.1	-3.1	0.7	1.4	1.8	2.2	2.5	1.3	-0.4	-3.0	-4.9	-6.1	-7.9	-7.3	-9.2	2.5	-20.3
24	-6.4	-4.8	-2.1	-2.2	-3.6	-6.1	-6.5	-5.3	-2.4	-1.8	-1.1	-0.8	-0.3	0.2	0.7	1.0	0.2	-0.5	-2.1	-2.9	-3.1	-3.1	-3.2	-3.6	-2.5	1.0	-6.5
25	-4.1	-4.7	-4.7	-4.9	-5.4	-5.6	-5.6	-5.7	-5.6	-5.0	-4.3	-3.6	-3.2	-3.0	-3.0	-2.9	-2.9	-3.2	-3.8	-4.1	-5.6	-5.6	-5.3	-5.9	-4.5	-2.9	-5.9
26	-6.5	-7.5	-7.8	-8.6	-8.5	-8.5	-8.1	-7.9	-6.2	-4.6	-4.0	-3.1	-3.0	-3.6	-4.3	-4.6	-4.5	-4.7	-5.5	-6.2	-6.6	-8.3	-10.3	-11.3	-6.4	-3.0	-11.3
27	-12.1	-13.1	-15.3	-17.4	-18.2	-19.0	-19.6	-18.4	-17.5	-15.4	-10.0	-6.2	-5.1	-4.4	-3.8	-3.2	-3.0	-3.7	-7.4	-8.2	-9.0	-11.7	-13.8	-15.2	-11.3	-3.0	-19.6
28	-16.4	-16.7	-17.4	-17.5	-17.1	-16.6	-16.9	-15.5	-14.1	-10.8	-5.2	-3.0	-2.3	-1.9	-1.4	-1.2	-1.1	-1.9	-3.7	-4.9	-6.0	-7.2	-7.6	-8.1	-8.9	-1.1	-17.5
29	-7.7	-7.4	-7.6	-7.5	-7.3	-7.0	-6.9	-6.4	-5.7	-4.0	-3.2	-2.3	-1.0	-1.0	-1.1	-2.1	-3.2	-3.4	-3.7	-4.1	-3.7	-3.4	-3.2	-3.1	-4.4	-1.0	-7.7
30	-3.6	-4.3	-5.2	-5.3	-5.3	-5.3	-5.3	-4.8	-4.6	-4.3	-3.3	-3.1	-3.0	-2.4	-2.3	-3.3	-3.4	-3.5	-3.5	-4.5	-5.0	-6.0	-5.9	-5.9	-4.3	-2.3	-6.0
31	-6.1	-6.0	-7.2	-8.4	-7.8	-7.2	-7.3	-6.8	-6.2	-4.2	-2.2	-0.7	0.0	0.7	1.2	1.5	1.5	0.8	0.1	-0.3	-1.2	-3.7	-5.8	-6.2	-3.4	1.5	-8.4
Avg	-11.0	-11.3	-11.6	-12.1	-12.4	-12.7	-13.0	-12.6	-11.6	-9.9	-7.1	-4.9	-3.4	-2.8	-2.4	-2.3	-2.6	-3.3	-4.8	-6.3	-7.5	-8.8	-9.6	-10.1	-8.1	-1.9	-14.5
Max	2.9	3.1	3.0	3.2	3.4	0.9	-0.1	-0.5	-0.7	-0.7	1.4	2.9	3.6	3.9	4.7	5.3	4.8	5.2	4.3	4.1	3.7	3.2	3.3	3.1	1.1	5.3	-3.1
Min	-19.1	-19.4	-20.3	-21.0	-22.1	-21.9	-22.9	-22.3	-20.3	-18.4	-15.1	-13.0	-11.3	-9.5	-8.0	-8.4	-10.5	-12.0	-12.7	-13.3	-14.5	-16.3	-16.8	-17.6	-15.0	-7.1	-22.9

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-14.6	-15.5	-16.7	-17.2	-17.1	-15.4	-14.6	-13.5	-12.4	-10.5	-8.8	-6.7	-4.0	-2.7	-2.8	-3.0	-3.5	-6.0	-9.3	-11.7	-14.6	-16.3	-17.3	-17.7	-11.3	-2.7	-17.7
2	-18.4	-19.6	-19.6	-20.0	-21.1	-21.8	-22.2	-22.5	-22.7	-21.3	-17.7	-13.3	-4.1	-2.7	-2.8	-3.3	-4.4	-7.0	-9.5	-12.9	-10.8	-7.2	-8.3	-9.0	-13.4	-2.7	-22.7
3	-10.4	-11.8	-11.7	-12.8	-13.1	-14.0	-14.7	-15.9	-16.3	-15.9	-14.6	-12.1	-7.7	-4.7	-4.5	-4.8	-5.7	-7.8	-10.4	-9.9	-13.9	-15.0	-14.0	-11.2	-11.4	-4.5	-16.3
4	-6.0	-5.1	-4.9	-4.9	-6.0	-7.2	-6.5	-7.6	-7.5	-6.7	-4.9	-4.1	-3.7	-3.3	-3.2	-3.2	-5.0	-9.5	-13.3	-14.8	-16.5	-17.3	-18.3	-18.8	-8.3	-3.2	-18.8
5	-18.8	-19.2	-19.3	-18.4	-18.6	-17.5	-16.3	-14.8	-12.8	-10.7	-8.6	-5.5	-1.4	-0.1	0.0	-0.2	0.0	0.2	-0.4	-1.1	-1.7	-1.5	-1.3	-1.3	-7.9	0.2	-19.3
6	-1.3	-1.5	-1.7	-1.8	-1.8	-1.7	-1.5	-1.4	-1.4	-1.1	-0.8	-0.6	-0.2	0.0	-0.1	-0.6	-0.9	-2.1	-5.1	-7.6	-10.7	-12.1	-13.6	-13.9	-3.5	0.0	-13.9
7	-15.3	-16.6	-16.8	-18.0	-18.3	-18.6	-18.8	-18.9	-17.8	-15.4	-13.7	-11.8	-9.2	-7.4	-6.1	-5.8	-4.7	-7.1	-8.5	-9.7	-10.0	-10.7	-11.5	-12.1	-12.6	-4.7	-18.9
8	-12.1	-13.1	-12.3	-11.3	-11.5	-12.5	-12.9	-14.1	-14.5	-13.1	-11.3	-10.1	-7.6	-4.2	-1.0	0.3	-1.3	-1.9	-1.9	-1.9	-1.7	-1.5	-2.3	-2.2	-7.3	0.3	-14.5
9	-1.3	-1.2	-0.9	-1.2	-1.6	-1.1	-1.7	-3.0	-7.7	-7.1	-6.7	-5.1	-5.0	-3.2	-1.1	-0.8	-2.2	-2.6	-2.8	-2.2	-1.6	-0.9	-0.3	-0.5	-2.6	-0.3	-7.7
10	-0.7	-0.9	-1.4	-1.3	-1.4	-3.1	-5.8	-8.6	-10.7	-11.2	-10.7	-8.5	-5.1	-0.4	-0.3	-1.0	-5.6	-9.8	-12.1	-13.1	-13.6	-15.6	-15.8	-16.2	-7.2	-0.3	-16.2
11	-16.1	-15.9	-16.3	-16.3	-16.4	-16.3	-15.8	-16.1	-15.6	-14.5	-12.7	-10.7	-8.0	-6.3	-2.7	-3.3	-5.4	-7.0	-8.2	-9.6	-10.9	-12.5	-14.3	-16.1	-12.0	-2.7	-16.4
12	-17.0	-17.7	-17.9	-17.5	-17.2	-16.3	-15.5	-15.2	-15.6	-14.7	-11.2	-5.4	-1.2	1.5	0.6	1.0	1.4	-0.5	-3.1	-5.1	-6.5	-7.4	-6.6	-6.0	-8.9	1.5	-17.9
13	-7.0	-7.2	-4.9	-2.1	-1.5	-1.9	-3.7	-5.4	-7.7	-6.6	-5.0	-0.5	4.7	6.1	4.7	4.3	3.9	3.9	1.1	0.0	1.8	1.4	1.3	-0.8	-0.9	6.1	-7.7
14	-1.7	-1.3	-0.8	-0.2	0.8	0.4	0.1	0.4	0.7	0.7	0.8	2.0	2.2	2.8	2.5	1.4	-1.1	-3.1	-6.2	-7.0	-7.3	-7.9	-7.9	-7.4	-1.5	2.8	-7.9
15	-5.5	-5.4	-4.9	-3.9	-4.5	-4.6	-6.2	-7.3	-8.2	-7.5	-6.5	-5.0	-2.7	-1.6	-0.5	0.0	0.5	0.0	-1.0	-1.6	-2.0	-2.2	-2.5	-2.5	-3.6	0.5	-8.2
16	-2.6	-2.7	-2.7	-2.9	-2.9	-2.5	-1.9	-2.1	-2.5	-2.1	-1.6	-1.2	-1.2	-1.4	-1.5	-1.6	-1.9	-2.4	-2.9	-3.4	-3.8	-4.2	-4.6	-4.2	-2.5	-1.2	-4.6
17	-3.9	-3.9	-4.4	-6.4	-6.4	-6.6	-8.0	-7.5	-6.7	-6.1	-4.7	-3.7	-3.5	-3.3	-3.1	-3.1	-3.2	-3.7	-3.9	-4.6	-4.6	-4.3	-4.0	-4.7	-4.8	-3.1	-8.0
18	-6.7	-11.0	-14.7	-16.6	-16.2	-16.8	-18.1	-19.0	-18.7	-17.6	-15.8	-8.8	-6.0	-4.5	-4.2	-4.4	-5.1	-10.3	-13.5	-15.6	-17.4	-17.2	-18.7	-18.7	-13.1	-4.2	-19.0
19	-19.2	-19.8	-19.7	-19.1	-18.5	-16.0	-14.8	-13.6	-12.1	-11.1	-9.6	-8.0	-6.3	-4.5	-4.0	-3.7	-3.6	-3.9	-4.3	-5.1	-6.9	-8.3	-11.6	-13.7	-10.7	-3.6	-19.8
20	-12.8	-11.3	-10.1	-7.7	-8.1	-10.8	-14.6	-16.2	-14.9	-10.2	-8.9	-8.2	-6.9	-6.1	-6.2	-6.4	-8.8	-10.7	-13.3	-15.8	-17.3	-18.1	-18.7	-18.6	-11.7	-6.1	-18.7
21	-20.0	-20.4	-20.5	-20.8	-19.6	-18.1	-18.1	-16.7	-15.1	-12.8	-10.3	-8.1	-6.8	-4.7	-3.8	-3.5	-5.2	-9.6	-12.1	-14.4	-15.3	-15.9	-17.4	-17.6	-13.6	-3.5	-20.8
22	-18.1	-17.9	-16.2	-14.7	-13.3	-12.3	-11.6	-11.1	-10.5	-9.3	-7.1	-6.5	-5.3	-4.5	-3.8	-3.5	-3.7	-4.4	-4.5	-4.7	-4.8	-5.1	-5.4	-6.1	-8.5	-3.5	-18.1
23	-6.8	-7.5	-8.1	-8.2	-8.9	-8.4	-8.0	-8.4	-9.0	-8.1	-6.8	-6.2	-5.7	-6.1	-6.8	-6.9	-7.0	-8.2	-9.0	-12.0	-14.4	-17.1	-18.9	-20.2	-9.4	-5.7	-20.2
24	-21.4	-22.1	-22.7	-23.3	-23.3	-22.5	-20.0	-18.3	-16.3	-13.3	-9.7	-8.0	-6.5	-5.7	-5.2	-5.0	-4.8	-4.8	-4.9	-4.9	-5.1	-5.4	-6.2	-8.5	-12.0	-4.8	-23.3
25	-8.3	-7.8	-8.8	-11.9	-14.3	-17.1	-19.1	-20.1	-19.7	-19.4	-16.6	-13.2	-9.8	-5.2	-4.0	-4.7	-4.9	-4.7	-4.6	-4.6	-4.6	-4.3	-3.6	-3.6	-9.8	-3.6	-20.1
26	-3.9	-3.9	-3.6	-3.5	-3.4	-3.2	-3.2	-3.1	-2.6	-2.0	-1.3	-0.4	0.2	0.7	1.3	1.3	1.5	0.6	0.2	0.0	-0.1	-1.4	-1.9	-3.1	-1.4	1.5	-3.9
27	-4.0	-2.8	-0.9	-0.8	-1.0	-1.1	-1.1	-1.3	-1.3	-1.1	-1.0	-1.0	-1.4	-1.6	-2.0	-2.5	-3.0	-3.6	-4.0	-4.4	-4.9	-5.7	-6.8	-7.7	-2.7	-0.8	-7.7
28	-8.7	-9.3	-10.8	-13.0	-14.7	-16.0	-17.0	-17.8	-18.6	-19.2	-19.3	-19.1	-18.9	-18.7	-18.7	-19.4	-20.9	-22.7	-24.2	-25.6	-27.1	-29.8	-31.4	-32.7	-19.7	-8.7	-32.7
29	-33.9	-34.1	-34.9	-34.8	-34.4	-33.9	-33.5	-33.5	-33.0	-31.7	-26.1	-24.8	-24.8	-24.7	-24.3	-24.3	-25.4	-28.0	-30.5	-32.5	-33.7	-34.2	-34.2	-34.4	-30.8	-24.3	-34.9
30	-33.2	-33.3	-33.9	-33.8	-33.9	-33.4	-31.3	-30.2	-29.1	-27.7	-24.8	-20.6	-19.1	-18.3	-17.3	-17.5	-17.2	-19.9	-24.5	-26.1	-28.6	-29.7	-30.7	-30.6	-26.9	-17.2	-33.9
31	-29.7	-27.8	-26.7	-26.5	-26.2	-17.7	-14.5	-15.4	-14.6	-11.5	-10.2	-8.9	-8.1	-7.5	-7.4	-7.6	-6.8	-6.7	-6.9	-6.5	-6.8	-7.0	-6.9	-7.1	-13.1	-6.5	-29.7
Avg	-12.2	-12.5	-12.5	-12.6	-12.7	-12.5	-12.6	-12.8	-12.7	-11.6	-9.9	-7.9	-5.9	-4.6	-4.1	-4.3	-5.0	-6.6	-8.2	-9.3	-10.2	-10.8	-11.4	-11.8	-9.8	-3.4	-17.4
Max	-0.7	-0.9	-0.8	-0.2	0.8	0.4	0.1	0.4	0.7	0.7	0.8	2.0	4.7	6.1	4.7	4.3	3.9	3.9	1.1	0.0	1.8	1.4	1.3	-0.5	-0.9	6.1	-3.9
Min	-33.9	-34.1	-34.9	-34.8	-34.4	-33.9	-33.5	-33.5	-33.0	-31.7	-26.1	-24.8	-24.8	-24.7	-24.3	-24.3	-25.4	-28.0	-30.5	-32.5	-33.7	-34.2	-34.2	-34.4	-30.8	-24.3	-34.9

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-6.5	-6.3	-5.7	-5.0	-4.7	-5.4	-6.4	-6.5	-5.0	-5.2	-4.5	-2.5	-2.1	-2.2	-2.3	-2.5	-3.7	-3.6	-2.9	-2.0	-2.0	-2.2	-2.5	-4.7	-4.0	-2.0	-6.5
2	-4.8	-7.3	-9.7	-11.5	-14.7	-14.4	-14.8	-15.2	-14.2	-13.5	-11.2	-9.3	-7.3	-5.0	-4.2	-5.0	-4.6	-4.8	-5.3	-5.5	-7.7	-6.7	-8.0	-8.6	-8.9	-4.2	-15.2
3	-8.8	-9.7	-10.9	-12.6	-12.4	-13.5	-12.6	-13.2	-13.3	-12.4	-9.7	-3.2	2.7	2.2	3.0	3.7	2.0	-0.2	-1.7	-3.0	-0.2	1.4	1.0	0.7	-5.0	3.7	-13.5
4	0.2	0.3	0.5	0.2	-0.1	-0.6	-1.1	-0.1	-0.4	0.0	0.4	0.8	1.0	1.0	1.0	0.9	0.2	-0.7	-3.9	-5.4	-8.1	-11.0	-12.6	-12.7	-2.1	1.0	-12.7
5	-13.6	-13.8	-13.0	-13.2	-12.8	-12.5	-11.3	-11.4	-10.6	-8.9	-7.1	1.0	1.8	0.8	2.1	2.0	1.4	0.7	0.3	0.0	-0.4	-0.2	0.0	-0.5	-5.0	2.1	-13.8
6	-0.4	-0.8	-1.0	-1.0	-1.2	-1.4	-1.7	-2.0	-2.1	-1.2	-1.6	-0.5	-0.7	0.1	0.2	0.0	-0.3	-0.9	-1.3	-1.8	-2.2	-2.7	-2.6	-3.1	-1.3	0.2	-3.1
7	-2.6	-2.3	-2.3	-1.8	-1.4	-1.5	-2.1	-3.3	-2.7	-2.3	-0.3	0.0	1.2	2.1	2.3	2.1	1.6	1.7	1.8	0.3	-0.1	1.4	1.4	-0.5	-0.3	2.3	-3.3
8	-0.5	0.0	-1.8	-0.5	-2.7	-3.6	-3.7	-4.2	-4.7	-4.4	-3.8	-3.9	-4.4	-4.8	-4.9	-4.6	-4.6	-4.9	-5.5	-5.9	-7.1	-8.6	-9.6	-8.8	-4.5	0.0	-9.6
9	-12.0	-15.5	-18.1	-20.2	-21.4	-22.3	-22.7	-23.8	-23.7	-22.4	-19.7	-17.2	-13.0	-10.3	-7.1	-3.6	-6.5	-9.2	-11.5	-14.0	-14.8	-16.3	-17.0	-17.9	-15.8	-3.6	-23.8
10	-18.2	-17.7	-16.7	-16.0	-16.3	-16.5	-14.7	-13.3	-14.5	-13.5	-12.7	-10.1	-6.5	-3.5	0.1	1.7	-0.9	-5.1	-7.6	-11.1	-11.8	-13.2	-12.2	-12.8	-11.0	1.7	-18.2
11	-12.3	-13.6	-14.2	-14.8	-16.4	-16.9	-17.3	-18.1	-18.0	-15.5	-13.3	-10.7	-4.0	0.0	0.2	-0.2	-0.8	-2.7	-5.4	-9.5	-12.6	-14.8	-15.3	-15.8	-10.9	0.2	-18.1
12	-16.2	-17.3	-17.5	-18.4	-18.2	-18.9	-18.9	-19.7	-18.0	-15.8	-12.8	-5.4	0.4	1.3	1.4	1.9	1.9	0.4	-0.7	0.7	-1.5	-3.3	-5.5	-6.1	-8.6	1.9	-19.7
13	-7.8	-7.7	-8.1	-7.9	-7.5	-7.3	-7.5	-8.6	-9.2	-6.4	1.2	4.4	4.0	3.9	3.8	3.3	1.9	-0.1	-1.4	-2.8	-3.1	-3.5	-4.0	-4.2	-3.1	4.4	-9.2
14	-4.4	-5.0	-5.5	-5.6	-6.0	-6.1	-5.5	-6.1	-6.2	-7.4	-9.4	-9.6	-10.4	-11.7	-12.3	-12.3	-12.5	-13.7	-14.8	-16.8	-20.5	-23.2	-24.0	-25.2	-11.4	-4.4	-25.2
15	-27.2	-27.8	-28.7	-29.8	-30.2	-30.4	-30.5	-30.7	-29.7	-27.2	-24.0	-19.8	-12.4	-9.8	-8.8	-8.6	-8.8	-9.9	-12.4	-15.8	-18.0	-20.0	-21.4	-22.1	-21.0	-8.6	-30.7
16	-22.7	-22.7	-23.0	-23.4	-23.6	-23.4	-23.7	-23.5	-23.0	-21.8	-18.9	-15.6	-8.8	-3.6	-2.8	-2.2	-2.4	-4.9	-8.6	-9.9	-12.5	-14.0	-14.2	-13.3	-15.1	-2.2	-23.7
17	-13.6	-15.2	-16.4	-17.5	-18.5	-18.5	-18.6	-18.7	-13.9	-9.5	-5.3	-3.5	-3.1	-2.7	-2.4	-2.1	-2.7	-3.4	-6.5	-6.8	-5.6	-5.2	-4.4	-5.3	-9.1	-2.1	-18.7
18	-5.7	-5.0	-5.3	-4.1	-3.7	-3.4	-3.7	-3.7	-3.5	-3.3	-3.1	-3.1	-3.6	-3.4	-3.1	-2.6	-2.4	-3.6	-4.6	-5.0	-5.4	-5.4	-6.7	-6.2	-4.2	-2.4	-6.7
19	-7.0	-6.5	-6.4	-6.8	-7.9	-8.2	-9.0	-6.1	-4.9	-4.6	-4.6	-4.3	-4.0	-3.6	-3.2	-3.1	-3.0	-2.7	-2.2	-2.7	-2.6	-1.8	-2.0	-2.5	-4.6	-1.8	-9.0
20	-1.9	-1.9	-1.6	-1.3	-1.3	-1.1	-1.2	-2.9	-4.4	-4.5	-4.4	-4.7	-4.5	-4.2	-2.9	-2.1	-1.6	-1.0	-0.4	-0.8	-1.4	-0.1	0.9	1.4	-2.0	1.4	-4.7
21	2.4	2.6	2.2	0.1	-0.4	-0.4	-2.9	-5.6	-8.0	-9.5	-11.6	-12.9	-12.9	-12.4	-12.3	-14.7	-16.0	-16.4	-16.6	-15.9	-16.6	-18.3	-18.9	-19.8	-9.8	2.6	-19.8
22	-20.5	-21.0	-21.3	-22.0	-22.1	-21.6	-21.7	-21.9	-22.1	-22.0	-21.7	-21.4	-21.1	-21.7	-22.3	-22.7	-23.6	-24.2	-24.6	-25.7	-26.8	-27.1	-27.2	-27.1	-23.1	-20.5	-27.2
23	-27.2	-27.2	-28.7	-30.4	-31.4	-32.6	-33.0	-33.4	-33.1	-32.2	-29.4	-25.6	-24.7	-24.0	-23.8	-24.7	-25.4	-26.6	-27.8	-28.5	-28.6	-28.2	-27.2	-27.9	-28.4	-23.8	-33.4
24	-28.9	-29.5	-29.5	-29.8	-31.3	-32.4	-34.1	-34.4	-34.3	-31.9	-29.4	-25.5	-19.6	-13.5	-11.2	-9.9	-11.4	-12.0	-16.8	-19.4	-20.8	-22.2	-22.6	-23.8	-23.9	-9.9	-34.4
25	-25.0	-25.7	-26.0	-23.2	-21.6	-20.1	-18.8	-17.1	-15.7	-14.5	-5.6	-2.7	-2.0	-1.0	-0.5	-0.1	0.0	-2.2	-3.4	-6.5	-6.4	-7.7	-5.8	-5.1	-10.7	0.0	-26.0
26	-4.4	-5.8	-4.0	-1.5	-2.0	-1.7	-2.9	-4.1	-3.3	0.7	2.4	3.7	4.2	4.7	4.4	3.7	2.1	1.8	-0.5	-0.7	-1.4	-3.5	-3.9	-4.4	-0.7	4.7	-5.8
27	-4.9	-5.0	-5.4	-6.5	-7.4	-8.0	-9.9	-12.1	-8.7	-7.8	-6.5	-5.9	-5.5	-4.4	-4.2	-4.0	-5.2	-7.9	-9.3	-10.4	-12.1	-15.2	-11.7	-7.4	-7.7	-4.0	-15.2
28	-7.8	-9.0	-8.9	-7.2	-7.3	-9.7	-12.3	-13.1	-12.3	-11.1	-6.4	-3.7	-3.9	-4.3	-4.5	-4.1	-4.6	-5.1	-7.4	-8.3	-9.9	-8.8	-9.5	-12.2	-8.0	-3.7	-13.1
Avg	-10.8	-11.3	-11.7	-11.8	-12.3	-12.6	-12.9	-13.3	-12.8	-11.7	-9.8	-7.5	-5.7	-4.6	-4.1	-3.9	-4.6	-5.8	-7.2	-8.3	-9.3	-10.0	-10.2	-10.6	-9.3	-2.4	-16.4
Max	2.4	2.6	2.2	0.2	-0.1	-0.4	-1.1	-0.1	-0.4	0.7	2.4	4.4	4.2	4.7	4.4	3.7	2.1	1.8	1.8	0.7	-0.1	1.4	1.4	1.4	-0.3	4.7	-3.1
Min	-28.9	-29.5	-29.5	-30.4	-31.4	-32.6	-34.1	-34.4	-34.3	-32.2	-29.4	-25.6	-24.7	-24.0	-23.8	-24.7	-25.4	-26.6	-27.8	-28.5	-28.6	-28.2	-27.2	-27.9	-28.4	-23.8	-34.4

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-14.3	-14.8	-16.7	-18.1	-19.4	-20.3	-21.4	-21.4	-19.9	-17.7	-16.5	-12.9	-6.7	-4.4	-4.6	-4.1	-4.7	-5.8	-8.6	-9.8	-10.8	-10.4	-8.3	-7.9	-12.5	-4.1	-21.4
2	-8.1	-7.5	-7.7	-7.8	-8.2	-8.0	-7.7	-7.1	-6.7	-6.5	-5.6	-5.0	-4.6	-3.5	-2.4	-1.5	-1.9	-1.8	-0.9	-1.0	-1.3	-2.4	-2.6	-4.1	-4.7	-0.9	-8.2
3	-5.1	-5.6	-6.7	-8.7	-10.6	-12.4	-14.0	-14.0	-13.1	-11.3	-7.0	-6.1	-5.3	-5.2	-5.5	-5.4	-5.9	-6.2	-7.1	-8.0	-10.7	-15.1	-13.8	-15.2	-9.1	-5.1	-15.2
4	-17.1	-17.1	-17.4	-17.7	-17.7	-17.8	-19.0	-19.8	-19.3	-17.4	-10.5	-6.2	-5.9	-5.3	-5.2	-5.5	-6.3	-6.9	-6.8	-6.8	-7.8	-6.9	-6.7	-7.7	-11.5	-5.2	-19.8
5	-9.2	-10.9	-12.1	-14.3	-15.4	-15.7	-16.3	-14.3	-9.5	-7.3	-6.7	-7.0	-6.9	-6.7	-5.9	-5.7	-5.9	-6.2	-6.7	-7.5	-9.0	-9.7	-10.8	-11.3	-9.6	-5.7	-16.3
6	-10.9	-10.6	-10.5	-10.6	-10.5	-10.8	-11.0	-11.0	-11.0	-10.9	-10.3	-9.4	-8.7	-8.2	-7.8	-6.8	-7.6	-8.1	-11.0	-13.3	-13.5	-16.6	-18.5	-19.6	-11.1	-6.8	-19.6
7	-20.5	-18.7	-17.1	-16.3	-15.1	-14.4	-13.9	-13.6	-13.6	-12.5	-10.0	-6.7	-6.2	-5.5	-5.0	-5.2	-5.4	-7.7	-10.2	-11.6	-12.7	-16.2	-18.1	-19.2	-12.3	-5.0	-20.5
8	-20.5	-21.6	-21.9	-22.9	-23.8	-23.9	-23.7	-23.5	-22.4	-20.1	-16.2	-11.0	-7.8	-7.3	-6.7	-8.6	-10.7	-12.3	-12.8	-12.8	-13.0	-13.0	-13.1	-13.7	-16.0	-6.7	-23.9
9	-15.2	-15.8	-15.8	-15.5	-15.1	-15.0	-15.0	-14.6	-12.7	-12.1	-10.8	-8.9	-7.7	-7.0	-6.6	-6.1	-6.9	-8.0	-10.7	-12.0	-13.3	-14.3	-15.3	-15.5	-12.1	-6.1	-15.8
10	-13.6	-11.1	-8.9	-8.2	-8.3	-8.7	-7.7	-6.8	-7.0	-8.0	-7.5	-7.3	-4.4	-3.1	-3.6	-3.9	-7.8	-10.0	-10.9	-13.4	-13.8	-15.8	-16.3	-15.5	-9.2	-3.1	-16.3
11	-14.7	-14.7	-14.2	-14.4	-15.4	-14.8	-15.5	-16.1	-15.2	-14.6	-13.5	-12.9	-11.0	-8.7	-7.8	-5.9	-7.7	-7.8	-10.6	-13.5	-15.6	-17.7	-17.8	-17.7	-13.2	-5.9	-17.8
12	-16.7	-16.5	-17.6	-18.8	-18.2	-16.8	-16.6	-16.0	-15.5	-13.9	-11.8	-5.5	-2.1	-2.0	-1.3	-1.5	-2.6	-4.4	-6.5	-9.0	-13.4	-14.5	-15.8	-16.7	-11.4	-1.3	-18.8
13	-16.6	-16.3	-16.2	-14.8	-13.0	-11.8	-11.3	-11.6	-9.8	-3.8	0.8	2.6	3.2	3.4	4.2	4.8	4.3	4.8	3.6	3.5	2.9	2.5	2.8	2.4	-3.3	4.8	-16.6
14	2.3	2.5	2.4	2.6	3.1	0.8	-0.2	-0.7	-0.8	-0.8	-0.6	0.6	1.6	2.5	3.3	3.9	3.9	3.2	1.4	-0.7	-1.1	-1.8	-2.5	-3.0	0.9	3.9	-3.0
15	-3.2	-3.1	-3.2	-3.5	-3.8	-4.3	-4.0	-4.5	-5.1	-5.3	-5.1	-4.8	-4.7	-3.4	-2.8	-2.9	-3.6	-4.6	-5.5	-7.3	-8.2	-7.8	-8.8	-9.1	-4.9	-2.8	-9.1
16	-9.9	-12.1	-13.3	-14.8	-16.3	-17.3	-17.7	-18.6	-18.1	-15.5	-8.0	-4.8	-4.4	-4.0	-3.6	-3.4	-4.5	-5.2	-7.3	-10.4	-13.0	-14.8	-16.0	-17.6	-11.3	-3.4	-18.6
17	-19.6	-21.0	-22.1	-23.0	-24.0	-24.2	-24.6	-24.9	-22.4	-19.5	-15.5	-9.3	-3.6	-2.9	-2.7	-2.5	-2.7	-4.2	-7.2	-12.0	-13.1	-16.7	-16.6	-18.6	-14.7	-2.5	-24.9
18	-19.5	-20.6	-20.8	-21.2	-21.7	-22.1	-22.1	-21.4	-18.7	-14.8	-7.7	-0.9	0.0	0.7	1.0	0.2	-0.7	-2.4	-4.6	-8.0	-9.8	-12.1	-13.3	-14.2	-11.4	1.0	-22.1
19	-15.5	-16.0	-16.1	-16.4	-17.1	-16.3	-16.8	-16.7	-14.4	-13.0	-7.8	-1.1	0.4	1.1	1.4	2.0	0.6	-1.0	-3.4	-6.9	-9.3	-10.6	-10.9	-10.7	-8.9	2.0	-17.1
20	-11.6	-12.1	-12.6	-11.9	-12.0	-12.6	-13.3	-13.6	-12.7	-8.4	-1.7	-1.3	-0.7	-0.3	-0.9	-1.7	-3.3	-3.7	-4.5	-4.9	-5.3	-6.0	-6.6	-7.5	-7.1	-0.3	-13.6
21	-8.6	-10.0	-10.0	-9.8	-10.4	-10.8	-12.0	-12.2	-10.9	-8.9	-6.2	-4.9	-3.7	-3.1	-2.8	-2.6	-2.5	-3.2	-5.1	-8.3	-10.2	-11.6	-14.0	-16.1	-8.2	-2.5	-16.1
22	-19.8	-19.7	-21.2	-22.3	-23.0	-24.1	-25.1	-24.2	-21.5	-18.8	-13.8	-9.3	-2.7	-1.6	-1.5	-2.1	-2.5	-3.6	-6.9	-11.2	-12.6	-15.5	-17.0	-18.8	-14.1	-1.5	-25.1
23	-19.4	-19.9	-21.4	-21.9	-22.8	-22.1	-22.8	-21.6	-19.5	-16.6	-11.4	-3.9	0.8	1.2	1.9	1.9	1.6	-0.6	-1.9	-4.4	-7.0	-8.2	-9.9	-9.1	-10.7	1.9	-22.8
24	-7.5	-5.7	-2.4	-2.5	-4.7	-7.9	-7.5	-6.0	-2.6	-2.0	-1.1	-0.9	-0.2	0.2	0.6	0.9	0.2	-0.6	-2.1	-2.9	-3.1	-3.1	-3.3	-3.8	-2.8	0.9	-7.9
25	-4.4	-5.0	-5.0	-5.0	-5.5	-5.7	-5.8	-5.8	-5.6	-4.8	-4.1	-3.5	-3.2	-3.0	-3.1	-3.0	-2.9	-3.3	-4.0	-4.5	-6.3	-6.4	-5.9	-6.2	-4.7	-2.9	-6.4
26	-7.1	-8.1	-8.8	-9.4	-9.2	-9.0	-8.7	-8.2	-6.4	-4.6	-3.8	-2.9	-2.8	-3.6	-4.3	-4.7	-4.5	-4.8	-5.6	-6.7	-7.4	-9.3	-11.2	-11.5	-6.8	-2.8	-11.5
27	-12.3	-13.3	-16.1	-19.0	-20.1	-20.7	-21.2	-19.5	-18.6	-16.9	-12.0	-5.7	-5.0	-4.4	-3.8	-3.3	-3.6	-5.4	-9.2	-9.8	-10.3	-13.5	-15.4	-16.9	-12.3	-3.3	-21.2
28	-18.3	-18.4	-19.0	-19.1	-18.4	-18.2	-18.5	-16.7	-14.6	-11.6	-5.5	-2.8	-2.0	-1.3	-1.0	-1.5	-1.9	-3.0	-4.8	-5.6	-6.6	-8.2	-8.8	-8.9	-9.8	-1.0	-19.1
29	-8.0	-7.6	-8.3	-7.9	-7.6	-7.1	-7.0	-6.5	-5.8	-4.2	-3.4	-2.4	-1.1	-1.0	-1.0	-2.2	-3.2	-3.4	-3.7	-4.1	-3.8	-3.5	-3.3	-3.2	-4.6	-1.0	-8.3
30	-3.8	-4.9	-5.6	-5.2	-5.3	-5.3	-5.3	-4.8	-4.5	-4.2	-3.4	-3.2	-3.1	-2.4	-1.7	-3.2	-3.2	-3.4	-3.5	-4.5	-5.1	-6.3	-5.9	-6.0	-4.3	-1.7	-6.3
31	-6.1	-6.2	-8.1	-8.9	-8.0	-7.4	-7.5	-7.0	-6.4	-4.2	-1.8	-0.6	-0.1	0.6	1.0	1.3	1.3	0.6	-0.1	-0.7	-2.4	-5.3	-7.0	-7.4	-3.8	1.3	-8.9
Avg	-12.1	-12.3	-12.7	-13.1	-13.5	-13.7	-14.0	-13.6	-12.4	-10.7	-7.7	-5.1	-3.5	-2.8	-2.5	-2.5	-3.2	-4.2	-5.7	-7.4	-8.6	-10.0	-10.7	-11.3	-8.9	-2.1	-15.9
Max	2.3	2.5	2.4	2.6	3.1	0.8	-0.2	-0.7	-0.8	-0.8	0.8	2.6	3.2	3.4	4.2	4.8	4.3	4.8	3.6	3.5	2.9	2.5	2.8	2.4	0.9	4.8	-3.0
Min	-20.5	-21.6	-22.1	-23.0	-24.0	-24.2	-25.1	-24.9	-22.4	-20.1	-16.5	-12.9	-11.0	-8.7	-7.8	-8.6	-10.7	-12.3	-12.8	-13.5	-15.6	-17.7	-18.5	-19.6	-16.0	-6.8	-25.1

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	1.79	1.74	1.59	1.60	1.49	1.18	0.97	0.81	0.56	-0.03	0.32	0.51	0.47	-0.19	0.22	0.26	0.35	0.90	0.67	0.91	2.24	1.42	1.84	1.55	0.97	2.24	-0.19
2	1.56	1.80	1.57	1.70	2.21	2.11	2.60	2.02	1.90	1.92	0.75	1.00	0.56	0.33	0.42	0.65	1.48	2.00	1.31	1.56	2.01	1.54	1.77	1.95	1.53	2.60	0.33
3	1.67	1.92	0.61	0.21	0.11	-0.07	0.02	0.55	0.60	0.29	0.06	0.04	0.64	0.23	0.30	0.41	0.59	1.10	1.79	1.93	1.59	1.70	1.37	1.54	0.80	1.93	-0.07
4	0.41	0.24	0.10	0.07	0.43	1.09	0.61	1.40	0.86	0.44	0.21	0.18	0.19	0.18	0.29	0.31	1.21	1.69	1.87	1.54	1.77	1.89	1.79	2.05	0.87	2.05	0.07
5	1.80	1.81	1.66	1.60	1.50	1.40	1.49	1.15	1.00	0.90	1.44	1.87	0.87	0.38	0.45	0.95	0.80	0.59	0.26	0.07	0.20	0.10	0.05	0.06	0.93	1.87	0.05
6	0.11	0.13	0.13	0.11	0.13	0.12	0.08	0.02	0.00	-0.10	-0.17	-0.22	-0.12	-0.03	0.09	0.15	0.32	0.84	1.51	1.33	2.24	1.98	1.72	1.48	0.49	2.24	-0.22
7	2.09	2.18	2.07	2.38	2.16	2.40	2.60	3.22	2.38	2.17	1.39	1.48	1.34	2.03	1.15	1.35	0.78	2.00	2.16	2.34	1.79	1.80	1.94	1.81	1.96	3.22	0.78
8	2.00	1.98	2.05	1.27	1.57	1.92	1.81	1.99	1.57	1.23	0.92	1.65	1.95	2.71	1.88	0.84	1.22	2.69	1.54	0.79	0.67	0.80	0.92	0.50	1.52	2.71	0.50
9	0.28	0.40	0.26	0.26	0.60	0.50	0.66	1.16	1.32	0.92	0.75	1.05	1.37	1.38	1.72	1.28	0.86	0.41	0.29	0.46	0.18	0.05	0.10	0.26	0.69	1.72	0.05
10	0.34	0.48	0.61	0.85	0.71	1.11	1.39	1.26	1.33	1.48	1.34	1.79	2.62	0.32	0.39	0.93	1.58	1.66	2.13	2.12	2.50	2.35	1.77	1.85	1.37	2.62	0.32
11	1.76	1.78	1.95	1.94	1.68	2.14	1.66	2.21	1.76	1.26	0.84	0.58	0.73	2.23	0.73	1.25	1.63	1.52	1.21	1.68	1.60	1.67	2.08	2.39	1.60	2.39	0.58
12	2.22	2.64	2.42	2.23	2.39	2.52	2.19	2.33	2.88	2.35	1.89	0.75	1.06	0.18	0.42	0.41	0.35	0.94	1.21	1.29	1.36	1.81	1.26	1.22	1.60	2.88	0.18
13	1.54	1.65	1.85	0.92	0.46	0.70	1.00	1.33	2.22	1.77	1.70	2.54	0.84	0.53	1.14	1.69	1.40	1.19	1.58	1.84	1.38	1.62	1.16	1.27	1.39	2.54	0.46
14	1.62	1.08	1.35	0.96	0.59	0.29	0.08	0.06	0.08	0.11	0.11	0.09	0.12	0.13	0.33	0.42	1.16	1.13	2.16	1.65	1.62	1.68	1.23	1.29	0.81	2.16	0.06
15	0.73	0.74	0.87	0.71	0.82	0.84	1.54	1.17	1.05	1.06	0.96	1.43	1.17	1.12	1.05	0.58	0.40	0.42	0.36	0.19	0.23	0.24	0.35	0.38	0.77	1.54	0.19
16	0.24	0.25	0.34	0.32	0.19	0.24	0.11	0.15	0.35	0.07	-0.03	0.02	0.02	0.00	-0.01	-0.01	0.06	0.08	0.20	0.46	0.42	0.60	0.58	0.34	0.21	0.60	-0.03
17	0.39	0.30	0.49	0.89	0.49	0.71	1.06	0.59	0.43	0.24	-0.02	-0.07	-0.09	-0.09	-0.09	0.05	0.11	0.09	0.07	0.36	0.44	0.31	0.10	0.24	0.29	1.06	-0.09
18	0.80	2.03	2.66	1.93	1.47	2.02	2.41	2.13	1.76	1.56	1.98	0.63	0.14	0.01	0.00	0.06	0.37	2.39	2.26	1.92	2.57	2.07	1.77	1.77	1.53	2.66	0.00
19	1.95	1.69	1.40	1.21	1.15	0.48	0.68	0.36	0.39	0.51	0.25	0.00	0.45	-0.15	-0.18	-0.05	0.00	0.09	0.14	0.23	1.16	1.67	1.94	1.38	0.70	1.95	-0.18
20	0.48	0.07	0.29	0.59	0.80	1.30	1.99	1.57	1.60	0.59	0.05	0.46	0.57	0.21	0.34	0.24	1.55	1.75	0.96	1.34	1.58	1.48	1.38	1.54	0.95	1.99	0.05
21	1.76	1.69	1.37	1.55	1.44	0.87	1.02	1.00	0.84	0.47	0.70	0.18	0.49	-0.22	-0.30	-0.04	0.50	1.57	2.07	1.83	1.86	1.75	1.46	1.70	1.06	2.07	-0.30
22	1.82	1.48	0.86	0.83	0.49	0.24	0.51	0.59	0.59	0.62	-0.06	-0.19	-0.10	0.22	0.12	0.09	0.09	0.14	0.11	0.22	0.13	0.21	0.21	0.21	0.39	1.82	-0.19
23	0.39	0.38	0.31	0.09	0.07	0.21	0.45	0.45	0.60	0.08	-0.32	0.00	0.01	0.01	-0.03	0.01	0.21	0.63	0.53	1.02	1.47	2.49	1.68	1.68	0.52	2.49	-0.32
24	1.61	1.46	1.48	1.98	1.63	1.48	1.09	0.90	0.99	1.83	1.28	0.41	-0.02	-0.10	-0.09	0.00	0.04	0.01	-0.01	0.02	0.09	0.27	0.73	1.80	0.79	1.98	-0.10
25	1.14	0.67	0.71	1.45	1.42	2.10	1.96	1.83	2.01	1.63	0.86	-0.15	0.51	0.01	0.15	0.00	-0.02	0.00	0.01	0.02	0.02	0.05	0.02	0.03	0.68	2.10	-0.15
26	0.10	0.09	0.04	0.00	-0.01	-0.01	-0.01	0.00	-0.01	0.01	0.04	0.09	0.08	0.10	0.06	0.10	0.08	0.15	0.23	0.12	0.17	0.41	0.54	0.69	0.13	0.69	-0.01
27	0.63	0.50	0.15	0.08	0.00	-0.02	-0.01	0.02	0.00	0.03	0.04	0.01	-0.01	-0.10	0.01	0.07	0.14	0.17	0.18	0.12	0.03	0.06	0.02	0.07	0.09	0.63	-0.10
28	0.07	0.03	0.02	-0.03	-0.05	-0.04	-0.06	-0.06	-0.05	-0.04	-0.06	-0.07	-0.02	-0.01	0.02	0.06	0.24	0.31	0.38	0.60	0.91	2.21	1.46	1.15	0.29	2.21	-0.07
29	1.25	1.13	1.66	1.20	1.41	1.27	1.15	1.44	0.94	1.68	0.72	0.22	0.02	-0.01	0.02	0.17	0.79	1.34	1.19	1.21	1.48	1.14	1.29	1.12	0.99	1.68	-0.01
30	0.94	1.12	1.28	1.49	1.54	1.54	1.09	0.98	1.26	0.86	0.68	-0.17	-0.16	-0.22	-0.40	0.21	0.23	1.02	1.33	1.44	1.95	1.83	1.59	1.54	0.96	1.95	-0.40
31	1.52	0.60	0.93	1.02	2.36	0.92	0.43	0.64	1.14	0.32	0.21	0.00	-0.02	-0.02	-0.04	-0.06	0.04	0.08	0.16	0.04	0.00	-0.02	-0.02	0.09	0.43	2.36	-0.06
Avg	1.13	1.10	1.07	1.01	1.01	1.02	1.05	1.07	1.04	0.85	0.61	0.52	0.51	0.36	0.33	0.40	0.60	0.93	0.96	0.99	1.15	1.20	1.10	1.13	0.88	2.03	0.04
Max	2.22	2.64	2.66	2.38	2.39	2.52	2.60	3.22	2.88	2.35	1.98	2.54	2.62	2.71	1.88	1.69	1.63	2.69	2.26	2.34	2.57	2.49	2.08	2.39	1.96	3.22	0.78
Min	0.07	0.03	0.02	-0.03	-0.05	-0.07	-0.06	-0.06	-0.05	-0.10	-0.32	-0.22	-0.16	-0.22	-0.40	-0.06	-0.02	0.00	-0.01	0.02	0.00	-0.02	-0.02	0.03	0.09	0.60	-0.40

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.24	0.34	0.06	0.09	0.11	0.31	0.88	0.74	0.19	0.02	-0.03	0.18	0.24	0.28	0.09	0.06	0.00	0.00	0.08	0.11	0.18	0.19	0.38	1.31	0.25	1.31	-0.03
2	1.16	1.10	0.73	0.99	1.84	1.12	1.37	1.70	1.22	0.93	0.29	0.29	0.78	1.27	1.38	1.57	1.18	0.96	0.86	0.82	1.23	0.89	1.26	1.61	1.11	1.84	0.29
3	1.44	1.52	1.62	2.00	1.56	2.48	1.56	1.50	2.22	2.02	1.35	2.72	0.63	1.09	1.19	0.62	1.30	1.19	1.75	1.91	1.20	0.74	0.43	0.29	1.43	2.72	0.29
4	0.42	0.28	0.26	0.27	0.25	0.55	0.82	0.27	0.31	0.18	0.23	0.24	0.20	0.26	0.39	0.28	0.48	0.92	1.58	2.00	1.41	1.82	1.77	1.67	0.70	2.00	0.18
5	1.85	2.41	2.04	2.14	1.74	1.83	1.32	1.33	1.29	0.66	2.07	0.99	0.22	0.12	0.12	0.15	0.21	0.22	0.15	0.15	0.25	0.22	0.14	0.17	0.91	2.41	0.12
6	0.18	0.10	0.13	0.15	0.15	0.21	0.27	0.42	0.46	0.14	0.33	0.11	0.24	0.13	0.13	0.21	0.27	0.33	0.33	0.26	0.31	0.50	0.41	0.52	0.26	0.52	0.10
7	0.36	0.38	0.37	0.19	0.13	0.17	0.46	0.65	1.09	0.62	0.22	0.26	0.18	0.17	0.11	0.35	0.49	0.52	0.53	1.15	0.75	0.52	0.53	1.24	0.48	1.24	0.11
8	1.02	0.58	0.95	0.33	0.19	0.52	0.41	0.31	0.37	0.33	0.26	0.17	0.10	0.01	0.03	-0.01	0.01	0.05	0.23	0.27	0.53	1.23	1.24	0.33	0.39	1.24	-0.01
9	1.06	1.77	1.54	2.10	2.28	1.86	2.34	2.41	2.51	1.77	1.46	1.83	1.50	1.98	2.37	0.19	1.21	1.75	1.22	2.02	1.27	1.98	1.88	2.06	1.77	2.51	0.19
10	2.00	2.45	1.90	2.06	2.24	1.97	1.68	0.99	1.30	0.87	1.39	1.72	1.40	1.69	0.72	0.27	1.07	2.10	1.95	2.79	2.64	1.74	1.81	2.02	1.70	2.79	0.27
11	1.73	1.71	2.04	1.92	1.91	1.88	2.28	2.26	2.21	1.70	1.58	1.24	1.76	0.32	0.42	0.52	0.74	1.46	1.95	2.39	2.06	2.26	1.85	1.79	1.67	2.39	0.32
12	1.80	1.90	1.83	2.38	2.16	1.94	1.99	2.15	1.76	1.39	1.16	1.91	0.00	0.18	0.32	0.33	0.41	0.78	1.29	0.79	1.48	1.44	1.28	1.48	1.34	2.38	0.00
13	1.87	1.51	1.77	2.12	2.06	1.75	1.38	1.43	1.50	2.13	1.17	0.38	0.58	0.56	0.38	0.42	0.31	0.21	0.13	0.01	0.01	0.07	0.17	0.27	0.92	2.13	0.01
14	0.31	0.14	0.04	0.07	0.24	0.20	0.36	0.42	0.17	-0.01	-0.15	-0.34	-0.13	-0.08	-0.01	0.01	0.18	0.70	0.84	0.96	1.40	1.32	1.10	1.59	0.39	1.59	-0.34
15	1.91	1.90	1.65	1.90	1.87	2.16	2.08	1.68	1.89	1.62	1.34	2.44	0.41	0.01	-0.02	-0.02	0.26	0.43	1.34	0.45	0.97	1.21	1.43	1.19	1.25	2.44	-0.02
16	1.47	1.53	1.61	1.76	1.60	1.87	1.75	2.00	1.80	1.67	1.17	1.53	1.22	0.18	0.29	0.09	0.18	1.49	1.44	1.74	2.15	2.42	1.74	1.65	1.43	2.42	0.09
17	1.72	1.58	1.65	1.51	1.61	1.27	1.75	1.80	2.44	1.28	0.31	0.16	0.12	0.17	0.18	0.20	0.72	1.07	2.18	1.46	0.95	0.85	0.74	1.13	1.12	2.44	0.12
18	0.86	0.46	0.70	0.38	0.29	0.26	0.27	0.22	0.17	0.19	0.18	0.18	0.06	0.03	0.05	0.16	0.17	0.09	0.18	0.17	0.22	0.17	0.49	0.40	0.26	0.86	0.03
19	0.70	0.32	0.19	0.36	0.72	0.63	1.01	0.25	0.10	0.08	0.06	0.02	0.04	0.04	0.04	0.02	0.00	0.00	0.02	0.02	-0.01	0.05	0.05	0.00	0.20	1.01	-0.01
20	0.01	0.00	0.00	0.03	0.05	0.04	0.10	0.00	0.01	-0.08	-0.29	-0.04	-0.05	-0.06	-0.61	-0.27	0.07	0.09	0.13	0.32	0.26	0.29	0.36	0.28	0.03	0.36	-0.61
21	0.38	0.21	0.13	0.13	0.11	0.24	0.23	0.20	0.16	-0.02	-0.09	-0.07	-0.15	-0.18	-0.19	-0.01	-0.08	-0.07	-0.02	-0.05	-0.03	0.15	0.10	-0.05	0.04	0.38	-0.19
22	-0.04	-0.03	-0.05	-0.02	-0.02	-0.03	-0.06	-0.08	-0.10	-0.11	-0.14	-0.13	-0.14	-0.11	-0.11	-0.05	0.06	-0.03	-0.07	-0.04	-0.07	-0.10	-0.07	-0.07	-0.07	0.06	-0.14
23	-0.07	0.04	0.52	0.68	0.63	0.65	0.47	0.61	0.60	0.55	-0.21	-0.12	-0.15	-0.16	-0.11	0.06	0.07	0.31	0.45	0.44	0.47	0.35	0.03	0.23	0.26	0.68	-0.21
24	0.45	0.56	0.27	0.34	0.54	0.69	0.87	0.95	0.86	0.30	0.15	0.66	1.13	0.80	0.35	0.13	0.97	1.32	1.73	1.62	1.42	1.35	1.73	1.71	0.87	1.73	0.13
25	1.99	1.84	2.05	0.60	0.81	0.59	0.74	1.08	1.44	2.62	0.89	0.27	0.39	0.21	0.59	0.89	0.49	1.67	2.67	2.82	1.80	2.96	2.51	3.00	1.46	3.00	0.21
26	2.77	2.16	1.76	0.87	1.14	0.96	1.30	1.66	1.04	0.54	0.49	0.45	0.45	0.49	0.53	0.35	0.16	0.20	0.08	0.21	0.19	0.07	0.37	0.34	0.77	2.77	0.07
27	0.09	0.09	0.13	0.42	0.72	0.88	1.89	2.73	0.22	0.50	0.31	0.19	0.17	-0.17	0.09	0.26	1.30	2.86	1.61	0.75	1.24	3.68	2.67	0.41	0.96	3.68	-0.17
28	0.75	1.06	0.97	0.53	0.35	0.91	1.25	1.31	1.24	1.36	0.91	0.21	0.21	0.19	0.15	0.24	0.74	1.06	1.16	0.99	0.77	0.33	0.22	1.00	0.75	1.36	0.15
Avg	1.02	1.00	0.96	0.94	0.97	1.00	1.10	1.11	1.02	0.83	0.59	0.62	0.41	0.34	0.32	0.25	0.46	0.77	0.92	0.95	0.89	1.03	0.95	0.98	0.81	1.79	0.03
Max	2.77	2.45	2.05	2.38	2.28	2.48	2.34	2.73	2.51	2.62	2.07	2.72	1.76	1.98	2.37	1.57	1.30	2.86	2.67	2.82	2.64	3.68	2.67	3.00	1.77	3.68	0.32
Min	-0.07	-0.03	-0.05	-0.02	-0.02	-0.03	-0.06	-0.08	-0.10	-0.11	-0.29	-0.34	-0.15	-0.18	-0.61	-0.27	-0.08	-0.07	-0.07	-0.05	-0.07	-0.10	-0.07	-0.07	-0.07	0.06	-0.61

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	1.07	0.70	1.19	1.47	1.91	1.51	1.56	1.40	1.32	0.81	1.57	1.25	0.97	0.44	0.79	0.51	0.81	1.17	1.99	1.84	2.15	1.83	0.68	0.68	1.23	2.15	0.44
2	0.66	0.30	0.27	0.15	0.22	0.24	0.18	0.13	0.05	0.03	-0.01	0.06	0.00	-0.12	0.26	0.09	0.50	0.57	0.49	0.35	0.31	0.31	0.25	0.11	0.22	0.66	-0.12
3	0.25	0.34	0.52	0.92	1.42	1.32	0.64	0.59	0.59	0.62	0.24	0.13	0.15	0.23	0.23	0.25	0.20	0.23	0.51	0.29	1.05	1.48	1.29	1.79	0.64	1.79	0.13
4	1.40	0.97	1.21	1.10	1.01	0.98	1.59	1.96	1.36	1.67	1.58	0.32	0.27	0.38	0.54	0.70	1.48	1.88	0.98	0.59	1.18	0.68	0.37	0.44	1.03	1.96	0.27
5	0.93	1.22	1.00	1.40	1.33	1.43	2.09	1.75	1.23	0.33	0.20	0.11	0.07	0.05	0.10	0.13	0.19	0.12	0.19	0.27	0.36	0.27	0.61	0.46	0.66	2.09	0.05
6	0.10	0.08	0.10	0.09	0.09	0.05	0.01	0.03	0.01	0.07	0.05	0.10	-0.08	-0.06	0.31	-0.14	0.57	0.63	1.86	1.43	1.20	1.79	1.66	1.98	0.50	1.98	-0.14
7	1.32	1.06	0.30	0.29	0.11	0.16	0.21	0.14	0.37	0.80	0.75	-0.17	0.24	0.17	0.01	0.51	0.65	1.42	1.86	1.62	1.79	2.23	1.97	2.13	0.83	2.23	-0.17
8	2.16	2.34	2.93	2.40	2.58	2.17	1.98	2.06	2.17	1.91	1.14	0.39	0.42	-0.32	-0.45	0.26	0.22	0.22	0.11	-0.07	-0.03	-0.02	-0.01	-0.04	1.02	2.93	-0.45
9	-0.04	-0.04	-0.02	-0.05	-0.01	0.02	0.06	-0.02	0.10	0.41	0.40	0.13	0.03	-0.07	0.09	0.21	1.22	1.70	1.93	1.90	1.02	1.01	0.65	0.93	0.48	1.93	-0.07
10	1.25	1.14	0.29	0.20	0.07	0.03	0.10	0.12	0.12	0.03	0.03	0.03	0.06	0.16	0.08	0.06	0.02	-0.01	0.04	0.05	0.17	0.83	0.69	0.41	0.25	1.25	-0.01
11	0.04	-0.04	0.01	0.08	0.13	0.10	0.21	0.31	-0.02	-0.07	-0.20	-0.13	-0.36	-0.71	-0.16	-0.28	0.98	0.52	0.77	0.83	1.18	1.42	1.14	0.91	0.28	1.42	-0.71
12	0.71	0.57	1.27	1.62	0.81	0.52	0.55	0.69	0.61	0.45	0.54	-0.19	-0.94	-0.11	0.03	0.42	1.17	1.87	1.47	2.20	3.19	3.52	2.67	2.51	1.09	3.52	-0.94
13	2.35	2.30	2.29	1.58	1.12	0.94	1.86	2.35	2.33	2.26	0.58	0.31	0.40	0.48	0.48	0.48	0.51	0.41	0.66	0.58	0.78	0.71	0.47	0.69	1.12	2.35	0.31
14	0.54	0.66	0.64	0.61	0.30	0.09	0.13	0.14	0.13	0.15	-0.04	-0.20	-0.38	-0.23	-0.23	-0.13	0.45	0.89	0.25	0.00	-0.01	-0.02	-0.04	-0.03	0.15	0.89	-0.38
15	-0.01	0.01	0.00	0.06	-0.01	-0.03	0.01	0.01	0.02	0.02	-0.05	-0.04	0.01	0.00	0.05	-0.02	0.19	0.41	0.68	0.75	0.78	0.48	1.12	1.07	0.23	1.12	-0.05
16	0.89	1.87	1.21	1.52	1.57	1.80	1.17	1.69	1.68	1.36	0.59	0.10	0.15	0.02	-0.01	-0.04	0.42	0.78	0.97	1.43	0.62	0.86	1.12	1.40	0.97	1.87	-0.04
17	1.44	1.63	1.78	2.03	2.01	2.45	1.88	2.61	2.16	1.11	0.85	1.52	0.29	0.35	0.47	0.73	1.25	1.50	2.59	3.41	2.24	3.06	2.61	3.11	1.80	3.41	0.29
18	2.65	2.45	3.05	2.65	2.95	2.80	3.28	2.68	1.82	1.41	3.57	0.91	0.83	0.87	0.98	1.68	2.36	2.13	1.88	2.68	3.05	3.82	2.97	3.11	2.36	3.82	0.83
19	2.83	2.64	2.82	2.07	2.21	1.58	2.13	2.00	1.33	1.53	1.64	0.53	0.34	0.27	0.40	0.28	1.64	2.32	1.65	1.52	2.23	1.75	1.77	2.99	1.69	2.99	0.27
20	2.56	2.85	2.90	2.33	2.24	1.40	1.11	1.23	1.85	1.69	0.28	0.13	-0.31	-0.34	0.14	-0.26	-0.06	-0.10	-0.02	0.00	0.05	0.11	0.18	0.28	0.84	2.90	-0.34
21	0.49	0.79	0.40	0.64	0.81	0.75	0.97	1.02	0.52	0.12	-0.28	-0.07	-0.18	0.19	0.36	0.40	0.50	1.03	0.81	1.77	1.04	0.71	0.93	1.09	0.62	1.77	-0.28
22	2.14	1.25	1.93	2.18	2.08	2.23	2.19	2.47	1.68	1.60	0.40	0.68	0.27	-0.04	0.18	0.91	1.39	1.58	2.90	3.21	2.08	2.64	3.47	4.71	1.84	4.71	-0.04
23	2.25	1.83	2.04	2.26	2.67	2.12	2.41	1.78	1.49	1.57	1.24	0.80	-0.08	0.22	-0.11	0.34	0.94	1.90	1.54	1.43	2.07	2.09	1.97	1.86	1.53	2.67	-0.11
24	1.19	0.95	0.31	0.31	1.12	1.81	1.06	0.64	0.24	0.25	0.06	0.09	-0.16	0.03	0.14	0.01	-0.01	0.06	0.00	0.02	0.00	0.06	0.07	0.14	0.35	1.81	-0.16
25	0.22	0.28	0.23	0.14	0.07	0.10	0.19	0.09	-0.03	-0.17	-0.21	-0.08	0.01	0.03	0.08	0.09	0.06	0.07	0.19	0.36	0.73	0.77	0.67	0.32	0.18	0.77	-0.21
26	0.65	0.60	1.00	0.82	0.67	0.52	0.55	0.29	0.17	0.00	-0.11	-0.22	-0.17	0.02	0.04	0.10	-0.02	0.03	0.11	0.49	0.82	1.00	0.88	0.21	0.35	1.00	-0.22
27	0.25	0.20	0.87	1.60	1.84	1.70	1.52	1.08	1.08	1.57	1.94	-0.42	-0.02	-0.06	0.00	0.10	0.60	1.66	1.76	1.58	1.35	1.79	1.63	1.69	1.05	1.94	-0.42
28	1.89	1.73	1.55	1.68	1.32	1.67	1.56	1.16	0.52	0.81	0.26	-0.23	-0.33	-0.62	-0.37	0.36	0.75	1.08	1.15	0.67	0.57	1.04	1.24	0.80	0.84	1.89	-0.62
29	0.33	0.25	0.68	0.39	0.22	0.13	0.15	0.15	0.11	0.20	0.25	0.10	0.04	0.01	-0.13	0.03	-0.09	-0.06	-0.01	0.00	0.03	0.04	0.12	0.05	0.12	0.68	-0.13
30	0.21	0.53	0.35	-0.04	0.06	0.07	0.09	0.01	-0.09	-0.09	0.01	0.10	0.05	-0.07	-0.56	-0.11	-0.21	-0.12	0.03	-0.02	0.11	0.28	-0.04	0.08	0.03	0.53	-0.56
31	0.02	0.19	0.94	0.52	0.25	0.19	0.17	0.12	0.22	0.01	-0.41	-0.09	0.13	0.17	0.19	0.19	0.20	0.22	0.25	0.40	1.24	1.60	1.16	1.18	0.38	1.60	-0.41
Avg	1.06	1.02	1.10	1.07	1.07	1.00	1.02	0.99	0.81	0.72	0.54	0.19	0.06	0.04	0.13	0.25	0.61	0.84	0.95	1.02	1.08	1.23	1.11	1.20	0.80	2.02	-0.13
Max	2.83	2.85	3.05	2.65	2.95	2.80	3.28	2.68	2.33	2.26	3.57	1.52	0.97	0.87	0.98	1.68	2.36	2.32	2.90	3.41	3.19	3.82	3.47	4.71	2.36	4.71	0.83
Min	-0.04	-0.04	-0.02	-0.05	-0.01	-0.03	0.01	-0.02	-0.09	-0.17	-0.41	-0.42	-0.94	-0.71	-0.56	-0.28	-0.21	-0.12	-0.02	-0.07	-0.03	-0.02	-0.04	-0.04	0.03	0.53	-0.94

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	0	18	209	283	353	302	192	119	87	15	0	0	0	0	0	0	0	66	353	0
2	0	0	0	0	0	0	0	0	23	119	134	212	388	372	299	188	36	0	0	0	0	0	0	0	74	388	0
3	0	0	0	0	0	0	0	0	21	166	276	358	393	372	300	188	37	0	0	0	0	0	0	0	88	393	0
4	0	0	0	0	0	0	0	0	27	158	277	356	394	374	303	193	39	0	0	0	0	0	0	0	88	394	0
5	0	0	0	0	0	0	0	0	16	58	136	290	170	185	188	75	13	0	0	0	0	0	0	0	47	290	0
6	0	0	0	0	0	0	0	0	2	13	27	41	90	122	98	88	35	1	0	0	0	0	0	0	22	122	0
7	0	0	0	0	0	0	0	1	60	213	307	368	377	430	180	79	32	0	0	0	0	0	0	0	85	430	0
8	0	0	0	0	0	0	0	1	36	134	146	154	290	367	257	172	12	0	0	0	0	0	0	0	65	367	0
9	0	0	0	0	0	0	0	1	29	133	230	269	330	283	138	66	16	0	0	0	0	0	0	0	62	330	0
10	0	0	0	0	0	0	0	1	34	128	285	304	424	405	321	179	31	0	0	0	0	0	0	0	88	424	0
11	0	0	0	0	0	0	0	0	30	118	179	427	404	366	294	96	24	0	0	0	0	0	0	0	81	427	0
12	0	0	0	0	0	0	0	0	29	111	151	307	376	271	64	79	41	0	0	0	0	0	0	0	60	376	0
13	0	0	0	0	0	0	0	0	34	176	224	251	244	287	206	105	38	0	0	0	0	0	0	0	65	287	0
14	0	0	0	0	0	0	0	0	3	43	127	252	215	462	182	110	32	1	0	0	1	0	0	0	60	462	0
15	0	0	0	0	0	0	0	1	29	114	202	195	195	181	133	71	14	0	0	0	0	0	0	0	47	202	0
16	0	0	0	0	0	0	0	0	9	27	65	129	171	135	120	55	21	1	0	0	0	0	0	0	31	171	0
17	0	0	0	0	0	0	0	1	16	48	80	103	103	104	124	60	16	0	0	0	0	0	0	0	27	124	0
18	0	0	0	0	0	0	0	0	19	75	127	215	428	549	485	350	93	1	0	0	0	0	0	0	98	549	0
19	0	0	0	0	0	0	0	0	14	58	139	254	240	186	221	207	21	1	0	0	0	0	0	0	56	254	0
20	0	0	0	0	0	0	0	1	37	83	134	259	253	290	180	114	42	2	0	0	0	0	0	0	58	290	0
21	0	0	0	0	0	0	0	1	22	67	110	168	355	422	384	252	97	2	0	0	0	0	0	0	78	422	0
22	0	0	0	0	0	0	0	0	16	41	74	116	247	192	115	74	21	2	0	0	0	0	0	0	37	247	0
23	0	0	0	0	0	0	0	1	32	193	321	380	241	135	79	79	36	3	0	0	0	0	0	0	63	380	0
24	0	0	0	0	0	0	0	0	19	55	125	222	202	131	120	122	34	2	0	0	0	0	0	0	43	222	0
25	0	0	0	0	0	0	0	0	13	91	172	291	307	288	190	107	35	2	0	0	1	1	0	0	62	307	0
26	0	0	0	0	0	0	0	1	26	95	174	273	382	390	253	64	19	2	0	0	0	0	0	0	70	390	0
27	0	0	0	0	0	0	0	0	25	99	143	188	158	283	177	92	38	2	0	0	0	0	0	0	50	283	0
28	0	0	0	0	0	0	0	1	44	166	270	394	475	475	409	267	65	4	0	0	0	0	0	0	107	475	0
29	0	0	0	0	0	0	0	2	42	168	299	408	490	486	420	301	148	7	0	0	0	0	0	0	115	490	0
30	0	0	0	0	0	0	0	1	45	139	200	215	279	317	341	250	142	7	0	0	0	0	0	0	81	341	0
31	0	0	0	0	0	0	0	1	25	104	147	378	353	346	226	114	33	2	0	0	0	0	0	0	72	378	0
Avg	0	0	0	0	0	0	0	0	26	110	179	262	299	303	223	138	41	1	0	0	0	0	0	0	66	341	0
Max	0	0	0	0	0	0	0	2	60	213	321	427	490	549	485	350	148	7	0	0	1	1	0	0	115	549	0
Min	0	0	0	0	0	0	0	0	2	13	27	41	90	104	64	55	12	0	0	0	0	0	0	0	22	122	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	4	59	119	250	459	395	190	113	96	25	1	0	0	0	0	0	0	71	459	0
2	0	0	0	0	0	0	0	2	42	144	198	414	438	245	109	65	30	6	0	0	0	0	0	0	71	438	0
3	0	0	0	0	0	0	0	2	70	281	400	517	362	456	302	375	119	5	0	0	0	0	0	0	120	517	0
4	0	0	0	0	0	0	0	1	34	88	215	196	184	136	217	267	135	15	0	0	0	0	0	0	62	267	0
5	0	0	0	0	0	0	0	2	64	96	254	175	504	208	307	106	55	5	0	0	0	0	0	0	74	504	0
6	0	0	0	0	0	0	0	2	43	224	199	561	302	643	414	368	178	18	0	0	0	0	0	0	123	643	0
7	0	0	0	0	0	0	0	3	44	216	247	352	528	571	284	82	31	3	0	0	0	0	0	0	98	571	0
8	0	0	0	0	0	0	0	4	55	263	447	257	357	289	232	161	69	7	0	0	0	0	0	0	89	447	0
9	0	0	0	0	0	0	0	4	58	142	323	435	517	531	463	346	192	28	0	0	0	0	0	0	127	531	0
10	0	0	0	0	0	0	0	6	61	244	400	502	551	538	471	354	199	32	0	0	0	0	0	0	140	551	0
11	0	0	0	0	0	0	0	6	121	251	343	372	554	543	474	356	200	34	0	0	0	0	0	0	136	554	0
12	0	0	0	0	0	0	0	9	92	237	403	508	542	516	475	323	216	40	0	0	0	0	0	0	140	542	0
13	0	0	0	0	0	0	0	8	77	145	350	526	333	255	227	136	44	9	0	0	0	0	0	0	88	526	0
14	0	0	0	0	0	0	0	3	47	128	251	518	500	419	340	333	180	24	0	0	0	0	0	0	114	518	0
15	0	0	0	0	0	0	0	7	114	293	433	536	572	550	517	372	203	37	0	0	0	0	0	0	151	572	0
16	0	0	0	0	0	0	0	8	134	293	428	533	583	570	502	387	239	45	0	0	0	0	0	0	155	583	0
17	0	0	0	0	0	0	0	13	66	114	217	282	323	271	211	166	67	23	0	0	0	0	0	0	73	323	0
18	0	0	0	0	0	0	0	5	38	55	88	134	211	219	206	171	74	15	0	0	0	0	0	0	51	219	0
19	0	0	0	0	0	0	0	9	71	142	225	207	268	188	147	93	57	9	0	0	0	0	0	0	59	268	0
20	0	0	0	0	0	0	0	8	70	214	279	367	383	317	423	171	67	13	0	0	0	0	0	0	96	423	0
21	0	0	0	0	0	0	0	10	80	196	273	312	317	297	294	126	67	27	0	0	0	0	0	0	83	317	0
22	0	0	0	0	0	0	0	15	94	199	299	354	350	347	349	325	198	30	0	0	0	0	0	0	107	354	0
23	0	0	0	0	0	0	0	19	94	199	339	459	429	549	479	369	224	65	1	0	0	0	0	0	134	549	0
24	0	0	0	0	0	0	0	16	151	350	494	594	644	635	563	442	279	66	1	0	0	0	0	0	176	644	0
25	0	0	0	0	0	0	0	34	199	354	499	604	587	648	460	382	192	50	1	0	0	0	0	0	167	648	0
26	0	0	0	0	0	0	0	10	170	359	500	596	645	635	382	214	89	27	0	0	0	0	0	0	151	645	0
27	0	0	0	0	0	0	0	27	131	302	521	619	585	610	555	457	306	102	1	0	0	0	0	0	176	619	0
28	0	0	0	0	0	0	0	24	115	226	347	780	426	308	280	139	91	35	0	0	0	0	0	0	115	780	0
Avg	0	0	0	0	0	0	0	9	86	210	329	435	443	417	350	257	137	28	0	0	0	0	0	0	112	500	0
Max	0	0	0	0	0	0	0	34	199	359	521	780	645	648	563	457	306	102	1	0	0	0	0	0	176	780	0
Min	0	0	0	0	0	0	0	1	34	55	88	134	184	136	109	65	25	1	0	0	0	0	0	0	51	219	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	32	165	378	522	620	663	654	589	463	238	94	1	0	0	0	0	0	184	663	0
2	0	0	0	0	0	0	0	36	70	146	238	267	266	300	376	440	193	29	1	0	0	0	0	0	98	440	0
3	0	0	0	0	0	0	0	23	93	196	400	633	754	525	180	300	171	84	3	0	0	0	0	0	140	754	0
4	0	0	0	0	0	0	1	51	207	394	539	623	608	566	474	300	138	37	1	0	0	0	0	0	164	623	0
5	0	0	0	0	0	0	0	30	109	190	225	205	260	273	371	223	129	59	2	0	0	0	0	0	87	371	0
6	0	0	0	0	0	0	0	25	99	249	475	578	633	518	204	300	215	122	7	0	0	0	0	0	143	633	0
7	0	0	0	0	0	0	0	43	132	214	223	268	368	548	676	419	361	148	4	0	0	0	0	0	142	676	0
8	0	0	0	0	0	0	2	57	236	422	509	551	483	586	623	475	273	79	3	0	0	0	0	0	179	623	0
9	0	0	0	0	0	0	4	48	116	391	582	673	713	687	489	412	305	148	4	0	0	0	0	0	191	713	0
10	0	0	0	0	0	0	0	30	107	142	139	263	714	329	227	149	80	26	2	0	0	0	0	0	92	714	0
11	0	0	0	0	0	0	2	37	138	227	304	404	571	523	594	520	180	150	4	0	0	0	0	0	152	594	0
12	0	0	0	0	0	0	3	56	151	371	485	747	794	555	679	529	355	165	11	0	0	0	0	0	204	794	0
13	0	0	0	0	0	0	3	65	286	453	607	628	497	642	724	641	151	134	9	0	0	0	0	0	202	724	0
14	0	0	0	0	0	0	6	41	230	338	462	682	781	742	417	483	211	39	2	0	0	0	0	0	185	781	0
15	0	0	0	0	0	0	3	56	128	240	339	395	439	732	649	482	146	86	5	0	0	0	0	0	154	732	0
16	0	0	0	0	0	0	3	43	123	276	462	602	700	565	583	510	140	171	13	0	0	0	0	0	175	700	0
17	0	0	0	0	0	0	7	127	314	477	631	731	773	754	678	554	385	193	19	0	0	0	0	0	235	773	0
18	0	0	0	0	0	0	10	134	318	486	635	731	774	758	681	510	359	167	11	0	0	0	0	0	232	774	0
19	0	0	0	0	0	0	11	134	311	488	634	731	772	755	680	554	386	176	13	0	0	0	0	0	235	772	0
20	0	0	0	0	0	0	16	135	307	453	579	558	543	461	337	251	156	58	6	0	0	0	0	0	161	579	0
21	0	0	0	0	0	0	10	65	132	234	590	714	757	769	693	578	402	210	27	0	0	0	0	0	216	769	0
22	0	0	0	0	0	0	13	145	334	504	664	764	803	780	706	580	409	214	30	0	0	0	0	0	248	803	0
23	0	0	0	0	0	0	14	149	335	513	658	752	792	779	703	557	351	112	28	0	0	0	0	0	239	792	0
24	0	0	0	0	0	0	11	179	303	540	607	544	794	850	752	638	259	70	10	0	0	0	0	0	232	850	0
25	0	0	0	0	0	0	11	61	189	307	407	575	546	526	403	278	170	70	12	0	0	0	0	0	148	575	0
26	0	0	0	0	0	0	13	70	170	336	401	417	403	394	366	299	188	82	14	0	0	0	0	0	131	417	0
27	0	0	0	0	0	0	47	204	363	539	686	783	818	796	722	599	426	231	41	0	0	0	0	0	261	818	0
28	0	0	0	0	0	0	21	135	246	477	627	600	695	561	603	394	254	113	16	0	0	0	0	0	198	695	0
29	0	0	0	0	0	0	20	142	344	527	550	763	870	381	235	176	108	52	8	0	0	0	0	0	174	870	0
30	0	0	0	0	0	0	11	52	118	236	294	356	432	672	455	266	175	72	20	0	0	0	0	0	132	672	0
31	0	0	0	0	0	0	18	95	174	299	469	537	745	878	713	497	191	196	45	0	0	0	0	0	202	878	0
Avg	0	0	0	0	0	0	8	81	205	356	482	571	637	608	535	432	242	116	12	0	0	0	0	0	179	696	0
Max	0	0	0	0	0	0	47	204	363	540	686	783	870	878	752	641	426	231	45	0	0	0	0	0	261	878	0
Min	0	0	0	0	0	0	0	23	70	142	139	205	260	273	180	149	80	26	1	0	0	0	0	0	87	371	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	24.20	24.20	24.21	24.23	24.24	24.25	24.26	24.27	24.29	24.29	24.30	24.30	24.30	24.30	24.29	24.29	24.30	24.32	24.33	24.34	24.34	24.34	24.34	24.34	24.29	24.34	24.20
2	24.32	24.31	24.31	24.30	24.29	24.29	24.28	24.27	24.27	24.27	24.27	24.24	24.21	24.19	24.19	24.19	24.18	24.19	24.20	24.20	24.19	24.18	24.17	24.16	24.24	24.32	24.16
3	24.15	24.14	24.14	24.14	24.14	24.13	24.12	24.12	24.14	24.15	24.14	24.12	24.11	24.11	24.10	24.11	24.13	24.15	24.17	24.17	24.18	24.19	24.20	24.20	24.14	24.20	24.10
4	24.20	24.20	24.22	24.24	24.25	24.27	24.29	24.30	24.31	24.33	24.34	24.35	24.34	24.34	24.35	24.37	24.36	24.38	24.39	24.40	24.41	24.41	24.40	24.40	24.33	24.41	24.20
5	24.39	24.37	24.37	24.36	24.36	24.35	24.34	24.34	24.32	24.30	24.29	24.27	24.27	24.26	24.24	24.25	24.25	24.25	24.25	24.25	24.24	24.24	24.24	24.24	24.29	24.39	24.24
6	24.24	24.24	24.25	24.26	24.26	24.27	24.28	24.29	24.31	24.34	24.36	24.37	24.37	24.38	24.39	24.42	24.43	24.44	24.45	24.47	24.49	24.49	24.49	24.50	24.37	24.50	24.24
7	24.49	24.50	24.51	24.52	24.52	24.52	24.52	24.52	24.53	24.52	24.49	24.48	24.47	24.47	24.46	24.45	24.46	24.46	24.46	24.46	24.44	24.44	24.44	24.44	24.48	24.53	24.44
8	24.43	24.42	24.41	24.38	24.36	24.35	24.34	24.33	24.33	24.32	24.30	24.27	24.24	24.24	24.22	24.23	24.23	24.24	24.24	24.24	24.24	24.24	24.25	24.26	24.30	24.43	24.22
9	24.26	24.26	24.27	24.28	24.27	24.26	24.27	24.27	24.28	24.28	24.26	24.23	24.19	24.17	24.16	24.14	24.12	24.11	24.10	24.09	24.08	24.10	24.11	24.12	24.20	24.28	24.08
10	24.12	24.12	24.14	24.15	24.15	24.14	24.16	24.17	24.16	24.17	24.18	24.17	24.17	24.17	24.17	24.17	24.16	24.17	24.17	24.17	24.17	24.17	24.16	24.16	24.16	24.18	24.12
11	24.16	24.16	24.18	24.19	24.21	24.21	24.24	24.27	24.29	24.32	24.34	24.35	24.35	24.36	24.39	24.41	24.42	24.45	24.47	24.49	24.50	24.50	24.51	24.52	24.35	24.52	24.16
12	24.53	24.53	24.55	24.55	24.55	24.56	24.56	24.56	24.57	24.58	24.58	24.56	24.55	24.55	24.55	24.56	24.55	24.55	24.55	24.55	24.56	24.56	24.55	24.54	24.55	24.58	24.53
13	24.54	24.53	24.52	24.50	24.50	24.49	24.48	24.48	24.48	24.47	24.46	24.45	24.42	24.39	24.37	24.35	24.34	24.33	24.31	24.29	24.27	24.25	24.23	24.21	24.40	24.54	24.21
14	24.20	24.18	24.16	24.15	24.14	24.14	24.14	24.13	24.13	24.13	24.13	24.12	24.10	24.08	24.06	24.06	24.05	24.04	24.03	24.02	24.02	24.01	24.01	23.99	24.09	24.20	23.99
15	23.97	23.96	23.95	23.95	23.94	23.93	23.94	23.94	23.94	23.93	23.91	23.91	23.90	23.89	23.90	23.90	23.92	23.94	23.95	23.95	23.96	23.96	23.96	23.97	23.94	23.97	23.89
16	23.97	23.97	23.98	23.99	23.99	24.00	24.00	24.00	24.01	24.02	24.03	24.03	24.02	24.01	24.01	24.02	24.02	24.03	24.03	24.03	24.04	24.04	24.05	24.06	24.01	24.06	23.97
17	24.06	24.05	24.06	24.07	24.08	24.09	24.10	24.11	24.12	24.13	24.15	24.15	24.14	24.14	24.14	24.16	24.17	24.18	24.19	24.19	24.19	24.20	24.21	24.21	24.14	24.21	24.05
18	24.22	24.23	24.23	24.24	24.24	24.24	24.24	24.25	24.25	24.26	24.26	24.24	24.22	24.21	24.22	24.22	24.22	24.23	24.23	24.24	24.23	24.23	24.24	24.24	24.23	24.26	24.21
19	24.24	24.24	24.25	24.26	24.26	24.27	24.27	24.28	24.30	24.31	24.32	24.32	24.33	24.34	24.35	24.37	24.39	24.40	24.41	24.43	24.45	24.47	24.49	24.51	24.34	24.51	24.24
20	24.51	24.51	24.51	24.50	24.50	24.50	24.51	24.50	24.52	24.52	24.52	24.50	24.49	24.49	24.48	24.49	24.51	24.53	24.54	24.55	24.55	24.55	24.55	24.57	24.52	24.57	24.48
21	24.56	24.55	24.56	24.56	24.55	24.55	24.55	24.54	24.55	24.55	24.55	24.53	24.50	24.48	24.46	24.45	24.43	24.41	24.39	24.38	24.36	24.34	24.32	24.30	24.48	24.56	24.30
22	24.30	24.29	24.29	24.29	24.29	24.28	24.28	24.30	24.31	24.33	24.33	24.33	24.32	24.31	24.33	24.35	24.37	24.38	24.40	24.42	24.44	24.45	24.47	24.48	24.35	24.48	24.28
23	24.49	24.50	24.51	24.50	24.50	24.49	24.47	24.45	24.44	24.42	24.41	24.39	24.36	24.34	24.36	24.36	24.37	24.38	24.40	24.41	24.43	24.43	24.43	24.44	24.43	24.51	24.34
24	24.44	24.43	24.44	24.44	24.44	24.44	24.45	24.45	24.45	24.46	24.45	24.43	24.42	24.41	24.41	24.42	24.44	24.46	24.48	24.49	24.49	24.50	24.52	24.53	24.45	24.53	24.41
25	24.54	24.54	24.55	24.56	24.56	24.56	24.57	24.57	24.59	24.61	24.62	24.60	24.58	24.58	24.58	24.59	24.59	24.59	24.59	24.60	24.60	24.59	24.59	24.58	24.58	24.62	24.54
26	24.57	24.56	24.56	24.55	24.54	24.52	24.49	24.47	24.45	24.44	24.45	24.44	24.42	24.40	24.39	24.38	24.38	24.39	24.38	24.38	24.37	24.36	24.34	24.32	24.44	24.57	24.32
27	24.29	24.26	24.23	24.20	24.18	24.16	24.14	24.13	24.13	24.13	24.14	24.13	24.12	24.13	24.13	24.15	24.17	24.18	24.18	24.19	24.20	24.21	24.22	24.24	24.18	24.29	24.12
28	24.24	24.25	24.27	24.30	24.31	24.33	24.35	24.38	24.40	24.42	24.43	24.43	24.42	24.40	24.40	24.41	24.41	24.42	24.43	24.43	24.43	24.42	24.41	24.40	24.38	24.43	24.24
29	24.39	24.39	24.39	24.39	24.40	24.41	24.42	24.43	24.44	24.46	24.49	24.49	24.48	24.45	24.45	24.45	24.44	24.42	24.40	24.40	24.38	24.37	24.36	24.36	24.42	24.49	24.36
30	24.35	24.35	24.35	24.35	24.35	24.35	24.36	24.38	24.39	24.41	24.43	24.44	24.43	24.41	24.41	24.41	24.40	24.38	24.37	24.35	24.33	24.32	24.31	24.30	24.37	24.44	24.30
31	24.30	24.29	24.29	24.27	24.26	24.28	24.29	24.29	24.31	24.32	24.32	24.31	24.29	24.27	24.27	24.27	24.28	24.28	24.28	24.28	24.29	24.30	24.30	24.31	24.29	24.32	24.26
Avg	24.31	24.31	24.31	24.31	24.31	24.31	24.31	24.32	24.32	24.33	24.33	24.32	24.31	24.30	24.30	24.30	24.31	24.31	24.32	24.32	24.32	24.32	24.32	24.32	24.31	24.39	24.23
Max	24.57	24.56	24.56	24.56	24.56	24.56	24.57	24.57	24.59	24.61	24.62	24.60	24.58	24.58	24.58	24.59	24.59	24.59	24.59	24.60	24.60	24.59	24.59	24.58	24.58	24.62	24.54
Min	23.97	23.96	23.95	23.95	23.94	23.93	23.94	23.94	23.94	23.93	23.91	23.91	23.90	23.89	23.90	23.90	23.92	23.94	23.95	23.95	23.96	23.96	23.96	23.97	23.94	23.97	23.89

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	24.30	24.30	24.31	24.31	24.32	24.32	24.33	24.34	24.34	24.35	24.36	24.36	24.35	24.34	24.34	24.36	24.37	24.38	24.39	24.40	24.41	24.42	24.43	24.45	24.36	24.45	24.30
2	24.45	24.46	24.47	24.49	24.50	24.51	24.52	24.53	24.54	24.54	24.55	24.53	24.53	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.52	24.51	24.51	24.50	24.51	24.55	24.45
3	24.49	24.49	24.49	24.49	24.49	24.49	24.48	24.46	24.46	24.45	24.43	24.42	24.40	24.37	24.35	24.33	24.32	24.31	24.29	24.28	24.27	24.30	24.32	24.32	24.40	24.49	24.27
4	24.31	24.32	24.34	24.34	24.33	24.34	24.34	24.36	24.37	24.38	24.39	24.39	24.38	24.37	24.37	24.38	24.37	24.36	24.36	24.36	24.37	24.37	24.37	24.35	24.36	24.39	24.31
5	24.33	24.32	24.29	24.27	24.25	24.23	24.20	24.18	24.17	24.15	24.13	24.12	24.10	24.09	24.08	24.07	24.08	24.08	24.09	24.10	24.10	24.10	24.11	24.12	24.16	24.33	24.07
6	24.13	24.14	24.16	24.18	24.21	24.23	24.25	24.27	24.30	24.32	24.35	24.36	24.36	24.35	24.35	24.35	24.36	24.37	24.37	24.37	24.38	24.38	24.39	24.40	24.31	24.40	24.13
7	24.41	24.41	24.42	24.43	24.42	24.42	24.43	24.45	24.46	24.47	24.48	24.49	24.48	24.46	24.45	24.44	24.42	24.40	24.39	24.37	24.35	24.34	24.34	24.32	24.42	24.49	24.32
8	24.32	24.31	24.30	24.30	24.31	24.31	24.31	24.33	24.34	24.35	24.37	24.39	24.39	24.40	24.42	24.45	24.49	24.52	24.55	24.59	24.61	24.63	24.64	24.65	24.43	24.65	24.30
9	24.67	24.68	24.70	24.70	24.69	24.68	24.68	24.67	24.68	24.68	24.67	24.66	24.62	24.61	24.60	24.60	24.59	24.59	24.60	24.61	24.60	24.60	24.59	24.58	24.64	24.70	24.58
10	24.57	24.55	24.55	24.53	24.52	24.51	24.50	24.50	24.50	24.50	24.49	24.48	24.47	24.46	24.45	24.46	24.45	24.43	24.44	24.44	24.44	24.44	24.44	24.44	24.48	24.57	24.43
11	24.43	24.43	24.43	24.43	24.42	24.42	24.42	24.42	24.43	24.42	24.41	24.40	24.39	24.38	24.37	24.37	24.37	24.36	24.37	24.38	24.39	24.40	24.39	24.39	24.40	24.43	24.36
12	24.40	24.40	24.42	24.43	24.43	24.43	24.44	24.44	24.45	24.44	24.42	24.40	24.38	24.37	24.35	24.34	24.34	24.33	24.31	24.30	24.29	24.28	24.27	24.25	24.37	24.45	24.25
13	24.23	24.20	24.17	24.14	24.11	24.10	24.07	24.04	24.02	24.00	23.97	23.94	23.90	23.88	23.86	23.84	23.84	23.83	23.84	23.83	23.83	23.83	23.83	23.83	23.96	24.23	23.83
14	23.83	23.84	23.85	23.86	23.87	23.90	23.93	23.95	23.98	24.03	24.06	24.08	24.10	24.14	24.16	24.19	24.22	24.26	24.28	24.30	24.31	24.32	24.33	24.34	24.09	24.34	23.83
15	24.34	24.34	24.34	24.33	24.34	24.34	24.35	24.35	24.38	24.40	24.41	24.42	24.39	24.37	24.36	24.36	24.36	24.38	24.40	24.41	24.42	24.42	24.42	24.42	24.38	24.42	24.33
16	24.43	24.43	24.44	24.43	24.43	24.43	24.44	24.44	24.45	24.46	24.45	24.44	24.42	24.41	24.39	24.40	24.39	24.38	24.39	24.39	24.38	24.39	24.38	24.38	24.42	24.46	24.38
17	24.38	24.38	24.39	24.39	24.39	24.39	24.39	24.39	24.40	24.41	24.40	24.40	24.39	24.38	24.38	24.37	24.35	24.33	24.33	24.33	24.32	24.30	24.30	24.28	24.37	24.41	24.28
18	24.28	24.24	24.23	24.20	24.18	24.16	24.14	24.14	24.14	24.14	24.14	24.13	24.12	24.11	24.10	24.11	24.13	24.14	24.16	24.18	24.19	24.21	24.23	24.24	24.17	24.28	24.10
19	24.24	24.23	24.22	24.21	24.20	24.19	24.18	24.16	24.14	24.13	24.12	24.11	24.09	24.08	24.08	24.07	24.05	24.06	24.06	24.07	24.07	24.07	24.08	24.08	24.12	24.24	24.05
20	24.08	24.07	24.07	24.06	24.05	24.06	24.08	24.11	24.15	24.19	24.20	24.21	24.21	24.19	24.18	24.16	24.12	24.09	24.06	24.01	23.96	23.90	23.87	23.82	24.08	24.21	23.82
21	23.78	23.75	23.74	23.72	23.72	23.72	23.73	23.76	23.78	23.83	23.85	23.87	23.88	23.88	23.89	23.91	23.93	23.95	23.98	23.99	24.00	24.01	24.01	24.01	23.86	24.01	23.72
22	24.02	24.02	24.03	24.03	24.03	24.03	24.04	24.04	24.05	24.06	24.06	24.06	24.05	24.04	24.03	24.03	24.04	24.06	24.08	24.10	24.11	24.12	24.12	24.13	24.06	24.13	24.02
23	24.14	24.14	24.14	24.14	24.15	24.15	24.17	24.18	24.20	24.23	24.25	24.25	24.25	24.25	24.24	24.25	24.26	24.26	24.27	24.27	24.28	24.28	24.28	24.28	24.22	24.28	24.14
24	24.26	24.26	24.25	24.24	24.23	24.22	24.21	24.21	24.23	24.25	24.25	24.26	24.26	24.23	24.22	24.21	24.21	24.22	24.22	24.20	24.21	24.22	24.22	24.20	24.23	24.26	24.20
25	24.20	24.20	24.19	24.20	24.21	24.22	24.22	24.23	24.24	24.23	24.22	24.21	24.20	24.18	24.16	24.14	24.13	24.12	24.10	24.10	24.09	24.08	24.06	24.03	24.16	24.24	24.03
26	24.01	23.99	23.97	23.94	23.92	23.90	23.88	23.86	23.84	23.83	23.81	23.80	23.78	23.75	23.75	23.75	23.78	23.78	23.81	23.82	23.84	23.88	23.89	23.91	23.85	24.01	23.75
27	23.93	23.95	23.97	23.98	24.00	24.01	24.03	24.03	24.04	24.03	24.03	24.02	24.01	24.00	23.99	23.98	23.95	23.94	23.95	23.95	23.93	23.90	23.89	23.86	23.97	24.04	23.86
28	23.85	23.85	23.84	23.82	23.81	23.81	23.82	23.83	23.83	23.84	23.83	23.84	23.84	23.84	23.86	23.88	23.89	23.91	23.94	23.96	23.98	24.00	24.01	24.02	23.88	24.02	23.81
Avg	24.24	24.24	24.24	24.24	24.23	24.23	24.24	24.24	24.25	24.25	24.25	24.25	24.24	24.23	24.22	24.23	24.23	24.23	24.23	24.24	24.24	24.24	24.24	24.24	24.24	24.34	24.14
Max	24.67	24.68	24.70	24.70	24.69	24.68	24.68	24.67	24.68	24.68	24.67	24.66	24.62	24.61	24.60	24.60	24.59	24.59	24.60	24.61	24.61	24.63	24.64	24.65	24.64	24.70	24.58
Min	23.78	23.75	23.74	23.72	23.72	23.72	23.73	23.76	23.78	23.83	23.81	23.80	23.78	23.75	23.75	23.75	23.78	23.78	23.81	23.82	23.83	23.83	23.83	23.82	23.85	24.01	23.72

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	24.03	24.04	24.04	24.04	24.04	24.05	24.05	24.06	24.08	24.08	24.08	24.07	24.07	24.07	24.08	24.08	24.09	24.10	24.11	24.12	24.12	24.11	24.10	24.09	24.07	24.12	24.03
2	24.08	24.07	24.07	24.07	24.07	24.07	24.07	24.08	24.08	24.08	24.08	24.07	24.05	24.04	24.02	24.01	23.99	23.97	23.97	23.97	23.98	24.00	24.01	24.03	24.04	24.08	23.97
3	24.05	24.06	24.06	24.07	24.07	24.08	24.08	24.09	24.09	24.09	24.06	24.05	24.05	24.04	24.04	24.05	24.06	24.07	24.10	24.11	24.13	24.14	24.14	24.14	24.08	24.14	24.04
4	24.14	24.15	24.14	24.14	24.14	24.13	24.13	24.13	24.13	24.13	24.11	24.09	24.08	24.06	24.04	24.02	24.01	24.02	24.02	24.03	24.03	24.04	24.05	24.06	24.08	24.15	24.01
5	24.07	24.08	24.09	24.09	24.11	24.12	24.11	24.11	24.12	24.11	24.12	24.14	24.15	24.16	24.16	24.17	24.19	24.21	24.23	24.25	24.26	24.27	24.26	24.27	24.16	24.27	24.07
6	24.29	24.28	24.27	24.27	24.27	24.27	24.27	24.28	24.28	24.29	24.29	24.29	24.29	24.28	24.29	24.30	24.30	24.31	24.33	24.35	24.36	24.36	24.35	24.35	24.30	24.36	24.27
7	24.36	24.37	24.37	24.37	24.37	24.37	24.37	24.38	24.38	24.38	24.38	24.37	24.37	24.37	24.36	24.37	24.36	24.36	24.37	24.38	24.39	24.40	24.40	24.39	24.37	24.40	24.36
8	24.39	24.38	24.38	24.37	24.36	24.35	24.35	24.36	24.37	24.36	24.35	24.33	24.31	24.31	24.31	24.31	24.33	24.36	24.38	24.38	24.39	24.40	24.40	24.40	24.36	24.40	24.31
9	24.40	24.42	24.43	24.43	24.43	24.43	24.43	24.43	24.42	24.42	24.41	24.40	24.39	24.37	24.36	24.36	24.33	24.32	24.32	24.32	24.31	24.29	24.26	24.24	24.37	24.43	24.24
10	24.20	24.17	24.12	24.07	24.02	23.99	23.96	23.92	23.88	23.86	23.83	23.80	23.75	23.72	23.69	23.67	23.72	23.79	23.83	23.89	23.93	23.95	23.97	23.98	23.90	24.20	23.67
11	23.99	24.03	24.06	24.08	24.11	24.14	24.16	24.19	24.21	24.23	24.25	24.26	24.26	24.27	24.28	24.28	24.29	24.30	24.33	24.35	24.35	24.35	24.36	24.36	24.23	24.36	23.99
12	24.37	24.37	24.37	24.36	24.36	24.36	24.36	24.37	24.37	24.37	24.36	24.36	24.36	24.35	24.34	24.33	24.32	24.32	24.32	24.32	24.33	24.33	24.33	24.32	24.35	24.37	24.32
13	24.32	24.31	24.30	24.30	24.29	24.28	24.27	24.27	24.26	24.24	24.23	24.22	24.20	24.18	24.16	24.15	24.15	24.14	24.13	24.12	24.11	24.11	24.10	24.09	24.21	24.32	24.09
14	24.08	24.06	24.04	24.03	24.05	24.09	24.10	24.13	24.15	24.16	24.18	24.18	24.17	24.14	24.12	24.11	24.08	24.06	24.05	24.03	24.01	23.98	23.96	23.94	24.08	24.18	23.94
15	23.92	23.91	23.89	23.86	23.86	23.89	23.93	23.96	24.01	24.04	24.09	24.12	24.15	24.17	24.19	24.21	24.23	24.25	24.27	24.30	24.33	24.34	24.36	24.37	24.11	24.37	23.86
16	24.38	24.40	24.41	24.43	24.45	24.47	24.49	24.50	24.52	24.52	24.52	24.53	24.52	24.53	24.54	24.54	24.53	24.54	24.55	24.57	24.58	24.59	24.59	24.58	24.51	24.59	24.38
17	24.58	24.58	24.57	24.57	24.57	24.57	24.57	24.59	24.61	24.61	24.60	24.59	24.58	24.57	24.57	24.57	24.56	24.56	24.56	24.57	24.58	24.58	24.58	24.58	24.58	24.61	24.56
18	24.58	24.57	24.57	24.57	24.56	24.55	24.55	24.55	24.55	24.53	24.50	24.49	24.48	24.46	24.45	24.44	24.43	24.42	24.41	24.41	24.41	24.41	24.40	24.40	24.49	24.58	24.40
19	24.39	24.38	24.37	24.36	24.36	24.35	24.34	24.34	24.33	24.32	24.31	24.30	24.29	24.27	24.26	24.24	24.22	24.20	24.19	24.20	24.20	24.19	24.18	24.18	24.28	24.39	24.18
20	24.17	24.16	24.13	24.12	24.11	24.10	24.09	24.09	24.08	24.06	24.07	24.06	24.06	24.06	24.05	24.05	24.05	24.05	24.05	24.05	24.06	24.06	24.08	24.08	24.08	24.17	24.05
21	24.08	24.09	24.09	24.09	24.09	24.10	24.11	24.12	24.13	24.14	24.15	24.15	24.15	24.14	24.13	24.14	24.15	24.15	24.16	24.19	24.20	24.21	24.21	24.20	24.14	24.21	24.08
22	24.19	24.19	24.17	24.17	24.17	24.17	24.17	24.19	24.20	24.20	24.19	24.18	24.18	24.18	24.18	24.19	24.19	24.20	24.21	24.22	24.24	24.25	24.25	24.25	24.20	24.25	24.17
23	24.24	24.25	24.24	24.23	24.23	24.24	24.24	24.25	24.26	24.25	24.24	24.23	24.23	24.21	24.21	24.19	24.19	24.18	24.17	24.16	24.17	24.18	24.18	24.19	24.22	24.26	24.16
24	24.18	24.18	24.17	24.16	24.16	24.17	24.17	24.16	24.16	24.16	24.17	24.17	24.16	24.15	24.14	24.13	24.14	24.14	24.15	24.16	24.17	24.18	24.18	24.18	24.16	24.18	24.13
25	24.18	24.18	24.18	24.18	24.19	24.21	24.22	24.22	24.22	24.23	24.23	24.23	24.22	24.22	24.21	24.22	24.22	24.23	24.23	24.24	24.26	24.25	24.25	24.25	24.22	24.26	24.18
26	24.25	24.25	24.24	24.24	24.24	24.25	24.25	24.25	24.25	24.26	24.28	24.29	24.29	24.29	24.30	24.31	24.33	24.35	24.36	24.38	24.40	24.43	24.44	24.44	24.31	24.44	24.24
27	24.45	24.46	24.48	24.48	24.49	24.50	24.52	24.53	24.53	24.53	24.52	24.52	24.51	24.51	24.50	24.50	24.48	24.48	24.48	24.49	24.50	24.50	24.50	24.50	24.50	24.50	24.45
28	24.49	24.49	24.47	24.46	24.46	24.45	24.45	24.44	24.43	24.42	24.41	24.41	24.39	24.38	24.38	24.36	24.35	24.35	24.34	24.34	24.36	24.37	24.36	24.36	24.41	24.49	24.34
29	24.35	24.33	24.32	24.29	24.28	24.26	24.26	24.25	24.23	24.22	24.21	24.20	24.19	24.17	24.17	24.15	24.15	24.13	24.11	24.10	24.10	24.09	24.07	24.07	24.20	24.35	24.07
30	24.05	24.03	24.02	24.02	24.00	23.99	23.99	23.99	23.98	23.98	24.00	23.99	24.01	24.01	24.01	24.02	24.03	24.03	24.03	24.05	24.06	24.08	24.08	24.08	24.02	24.08	23.98
31	24.08	24.07	24.08	24.09	24.11	24.12	24.14	24.15	24.16	24.18	24.20	24.20	24.21	24.21	24.21	24.21	24.21	24.21	24.22	24.22	24.22	24.23	24.23	24.22	24.17	24.23	24.07
Avg	24.24	24.24	24.23	24.23	24.23	24.23	24.23	24.24	24.24	24.24	24.24	24.24	24.23	24.22	24.22	24.22	24.22	24.22	24.23	24.23	24.24	24.25	24.25	24.24	24.23	24.32	24.15
Max	24.58	24.58	24.57	24.57	24.57	24.57	24.57	24.59	24.61	24.61	24.60	24.59	24.58	24.57	24.57	24.57	24.56	24.56	24.56	24.57	24.58	24.59	24.59	24.58	24.58	24.61	24.56
Min	23.92	23.91	23.89	23.86	23.86	23.89	23.93	23.92	23.88	23.86	23.83	23.80	23.75	23.72	23.69	23.67	23.72	23.79	23.83	23.89	23.93	23.95	23.96	23.94	23.90	24.08	23.67

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
January 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	81.5	80.8	79.8	78.6	78.2	79.6	79.7	80.7	81.4	81.5	72.1	62.0	54.1	56.4	61.3	59.7	61.0	66.6	75.1	78.7	82.4	80.6	79.5	78.7	73.8	82.4	54.1
2	77.7	76.7	76.4	75.9	75.3	74.3	74.3	73.7	73.9	73.7	75.3	73.4	61.9	61.8	63.4	64.9	68.5	74.7	78.5	82.5	84.2	78.3	79.0	81.5	74.2	84.2	61.8
3	81.1	80.7	81.1	79.6	78.2	77.4	77.3	77.3	78.5	74.8	64.8	53.3	59.4	53.4	52.0	50.4	52.6	55.7	64.2	64.5	73.1	75.5	76.3	75.3	69.0	81.1	50.4
4	66.3	65.8	67.0	68.5	70.3	71.0	68.7	68.9	66.8	57.4	58.0	56.8	55.1	53.5	51.4	48.1	51.8	65.8	74.8	78.7	80.2	80.5	79.2	78.0	65.9	80.5	48.1
5	77.5	77.1	76.8	77.0	77.0	77.8	78.6	79.7	80.9	82.0	81.5	62.7	51.7	54.7	60.4	62.9	65.4	65.4	77.7	88.1	89.1	89.8	90.0	90.2	75.6	90.2	51.7
6	90.1	90.0	90.0	90.1	90.1	90.1	90.4	90.6	90.6	90.2	89.1	87.0	82.4	79.8	78.8	78.2	77.1	82.5	85.8	86.7	84.6	83.1	81.8	81.6	85.9	90.6	77.1
7	79.4	78.7	78.3	76.8	76.9	76.4	76.3	76.2	78.2	81.9	83.9	82.5	76.6	75.8	78.4	80.9	84.2	84.3	85.5	84.4	84.3	83.7	83.0	82.9	80.4	85.5	75.8
8	83.1	81.4	82.2	83.0	82.9	81.5	81.9	80.4	80.6	79.0	77.9	78.2	73.5	60.7	56.4	58.7	65.0	65.8	67.2	70.0	70.9	69.9	73.4	76.5	74.2	83.1	56.4
9	74.2	72.3	71.6	72.1	68.2	60.3	59.8	60.7	74.8	73.0	64.6	56.9	57.6	50.6	47.0	51.7	63.8	71.2	74.4	78.4	88.3	90.2	88.9	87.8	69.1	90.2	47.0
10	87.0	85.0	84.1	78.9	76.7	80.4	83.6	85.6	85.1	83.5	78.4	74.8	63.9	53.3	48.9	50.5	69.4	80.9	83.4	83.5	82.0	79.4	79.7	79.1	76.5	87.0	48.9
11	78.6	78.7	78.7	78.9	78.3	78.5	78.8	78.2	79.6	80.1	81.9	76.1	68.1	61.5	52.1	56.3	68.1	75.1	78.9	81.9	84.5	83.9	82.3	79.5	75.8	84.5	52.1
12	78.3	77.2	77.3	77.7	77.9	78.5	79.2	79.1	79.4	80.0	79.5	70.4	59.3	54.8	61.2	62.1	61.6	69.0	75.2	80.9	82.9	85.7	84.8	84.6	74.9	85.7	54.8
13	85.9	86.9	85.0	80.0	79.6	79.6	83.2	86.1	87.5	86.6	83.4	68.7	53.8	49.4	55.7	57.6	58.3	57.5	66.2	69.6	62.8	62.4	63.5	71.2	71.7	87.5	49.4
14	74.2	75.0	74.7	75.4	77.0	83.1	88.2	90.8	90.3	87.0	83.7	73.5	69.6	63.6	64.1	66.5	76.6	86.5	87.4	87.4	86.8	86.4	85.9	86.3	80.0	90.8	63.6
15	87.7	87.6	88.0	87.6	87.5	87.5	86.7	86.9	86.2	85.0	83.8	82.3	77.8	74.1	72.4	70.2	70.4	73.6	82.9	87.6	89.0	89.3	89.7	89.8	83.5	89.8	70.2
16	89.5	89.6	89.6	89.6	89.4	89.6	89.5	89.5	89.4	86.9	77.7	78.9	79.6	81.7	83.8	85.4	86.7	87.7	88.7	88.9	88.9	88.7	89.0	88.7	87.0	89.6	77.7
17	88.6	88.4	87.8	87.3	87.2	86.6	85.9	86.1	86.3	85.4	82.4	78.6	77.9	76.7	76.8	77.0	78.7	83.7	86.6	86.5	85.4	83.1	79.6	78.8	83.4	88.6	76.7
18	81.3	83.6	81.4	79.0	78.9	78.1	77.0	76.6	77.0	79.8	78.1	72.1	66.3	65.5	64.4	62.8	64.9	78.1	82.9	81.1	79.2	78.6	77.0	77.1	75.9	83.6	62.8
19	76.6	76.1	76.0	76.2	76.6	79.0	79.6	80.6	81.4	82.3	82.5	79.9	74.0	77.3	77.4	80.1	83.8	85.8	86.9	87.6	87.4	85.5	83.1	81.3	80.7	87.6	74.0
20	81.7	82.7	83.8	86.0	85.2	83.0	80.0	79.1	80.4	82.9	82.5	73.5	65.4	63.4	63.6	62.0	69.4	77.2	80.2	81.3	80.0	78.7	78.2	77.9	77.4	86.0	62.0
21	76.5	76.8	76.5	75.7	76.7	77.3	77.1	78.5	79.4	81.2	82.9	83.9	77.3	58.9	59.5	57.4	61.2	77.6	82.0	82.7	79.9	79.5	78.5	77.6	75.6	83.9	57.4
22	77.4	77.3	78.4	79.9	80.7	81.5	82.1	82.4	83.0	83.9	83.9	78.0	67.3	66.4	64.7	64.6	69.1	77.7	80.6	78.6	79.5	77.9	78.2	82.0	77.3	83.9	64.6
23	82.4	86.3	86.5	84.5	80.6	80.3	80.6	81.8	82.4	71.3	59.9	65.1	65.5	68.5	77.5	74.6	71.0	71.0	73.5	80.5	82.1	79.3	77.7	76.8	76.7	86.5	59.9
24	75.2	74.5	74.4	73.5	73.5	74.2	75.8	76.8	78.4	81.2	83.4	82.8	76.9	79.4	80.8	80.5	82.5	83.8	85.3	84.3	83.6	81.7	78.3	83.4	79.3	85.3	73.5
25	84.8	82.1	81.7	83.5	82.4	80.1	77.2	76.4	76.3	77.1	78.3	79.5	74.4	65.7	64.9	78.2	83.1	84.7	84.4	84.5	85.7	85.5	85.3	82.0	79.9	85.7	64.9
26	82.7	83.0	81.6	82.3	81.7	80.9	81.1	80.3	80.3	79.4	77.5	74.3	72.0	73.0	72.5	73.6	71.1	77.8	79.2	80.4	80.6	84.5	85.4	86.6	79.2	86.6	71.1
27	86.6	86.1	81.0	81.8	85.3	87.7	87.4	89.0	87.9	85.3	83.5	84.0	79.1	69.9	68.3	70.0	72.5	73.7	72.4	71.2	71.3	71.3	65.4	68.3	78.3	89.0	65.4
28	70.3	69.0	65.8	63.2	65.3	63.8	61.6	63.4	61.8	59.8	58.1	56.5	55.9	54.8	53.8	54.7	58.1	62.4	63.8	65.7	67.6	68.7	67.7	66.6	62.4	70.3	53.8
29	66.5	64.2	63.9	63.5	63.3	63.2	63.3	63.2	63.8	64.7	63.7	59.8	60.4	61.7	60.2	59.6	59.3	65.6	67.6	67.3	66.8	65.5	65.1	64.2	63.6	67.6	59.3
30	64.7	63.6	63.5	63.9	63.7	64.0	65.6	66.0	67.2	67.8	69.3	69.0	67.0	67.3	65.3	61.3	54.8	65.3	73.3	72.5	71.0	69.7	67.6	67.2	66.3	73.3	54.8
31	67.8	68.7	69.6	69.6	70.7	77.7	74.4	75.1	76.0	70.4	68.2	66.4	66.1	67.9	75.8	76.6	68.6	65.7	66.7	70.8	78.5	81.2	78.9	79.0	72.1	81.2	65.7
Avg	79.2	78.9	78.5	78.1	77.9	78.2	78.2	78.7	79.5	78.6	76.4	72.3	67.4	64.6	64.9	65.7	68.7	73.9	77.8	79.6	80.4	79.9	79.1	79.4	75.7	84.6	61.5
Max	90.1	90.0	90.0	90.1	90.1	90.1	90.4	90.8	90.6	90.2	89.1	87.0	82.4	81.7	83.8	85.4	86.7	87.7	88.7	88.9	89.1	90.2	90.0	90.2	87.0	90.8	77.7
Min	64.7	63.6	63.5	63.2	63.3	60.3	59.8	60.7	61.8	57.4	58.0	53.3	51.7	49.4	47.0	48.1	51.8	55.7	63.8	64.5	62.8	62.4	63.5	64.2	62.4	67.6	47.0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
February 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	73.4	72.6	75.6	72.9	69.1	67.8	70.0	68.3	64.7	74.9	72.6	54.8	51.9	53.4	54.6	63.2	80.0	85.9	85.0	71.9	69.1	72.0	72.6	76.8	69.7	85.9	51.9
2	74.9	81.4	83.1	82.9	82.2	81.5	80.2	80.0	80.2	80.6	79.9	65.9	58.0	62.3	59.9	64.2	67.5	72.4	77.7	80.2	83.2	79.6	79.7	82.2	75.8	83.2	58.0
3	82.9	83.1	84.3	84.1	82.5	81.9	82.5	81.5	81.5	82.7	75.0	52.7	41.4	46.1	42.6	40.6	45.3	54.4	60.2	67.5	58.1	51.5	56.9	58.1	65.7	84.3	40.6
4	58.4	57.7	57.4	59.5	59.1	59.9	61.2	59.0	62.7	62.0	59.6	56.0	54.5	54.7	56.1	56.1	57.2	60.0	68.9	71.4	76.8	81.8	83.9	83.4	63.2	83.9	54.5
5	81.9	80.6	81.3	80.9	81.4	81.8	82.5	82.2	82.5	84.3	83.9	55.1	52.1	68.9	58.2	57.4	61.9	68.4	73.5	75.1	77.3	72.5	65.3	65.8	73.1	84.3	52.1
6	64.0	68.7	68.1	65.5	66.9	67.5	69.1	69.9	68.3	63.8	65.1	61.0	61.9	59.8	60.4	60.8	58.5	58.9	63.8	68.2	69.7	70.5	69.8	70.6	65.4	70.6	58.5
7	69.8	69.0	69.7	69.0	67.4	66.8	67.9	70.6	67.4	60.3	56.5	53.8	49.2	46.3	46.3	48.2	50.5	50.4	49.1	54.6	61.2	55.1	54.6	59.9	58.9	70.6	46.3
8	62.2	60.1	64.9	65.0	82.0	73.4	60.9	58.7	58.2	57.7	57.7	60.8	69.9	78.9	81.5	81.9	83.9	79.9	76.1	75.6	79.7	82.5	85.0	84.4	71.7	85.0	57.7
9	82.8	80.2	77.6	75.3	74.3	73.7	73.3	72.3	73.7	75.5	79.4	70.3	62.4	58.1	47.4	35.3	43.0	59.3	75.8	80.2	81.4	81.9	80.2	79.6	70.5	82.8	35.3
10	78.9	79.4	79.4	79.4	79.1	78.8	80.4	80.3	79.8	79.6	72.1	64.2	49.2	46.8	41.1	34.8	41.8	59.0	68.8	76.9	80.0	82.0	80.7	82.1	69.8	82.1	34.8
11	81.7	82.7	82.7	81.2	80.0	79.1	78.4	77.8	76.6	74.5	68.9	67.5	53.3	51.4	51.3	51.3	49.0	51.1	57.9	66.6	73.1	78.3	80.5	80.8	69.8	82.7	49.0
12	80.1	80.0	79.9	79.1	79.2	78.0	77.5	76.7	77.5	77.7	74.8	48.4	32.4	33.6	37.1	39.3	41.7	46.8	52.6	49.6	54.7	63.1	68.4	70.3	62.4	80.1	32.4
13	74.7	75.6	78.6	78.9	77.2	77.0	76.2	77.8	77.5	73.3	49.4	41.2	44.3	44.8	43.0	45.8	57.6	72.8	72.4	84.1	86.4	81.7	80.5	76.7	68.6	86.4	41.2
14	71.4	75.9	82.3	85.4	84.5	85.2	71.9	74.8	77.6	67.5	64.5	53.4	50.8	60.0	61.7	60.6	59.6	61.8	65.6	68.7	73.2	75.6	74.7	73.0	70.0	85.4	50.8
15	72.4	71.1	69.2	68.1	67.9	67.4	67.2	66.8	67.4	68.7	69.0	67.7	57.7	56.5	58.5	56.0	54.6	60.7	69.8	74.7	77.7	78.0	77.4	76.1	67.5	78.0	54.6
16	75.5	74.9	74.5	73.4	73.6	73.2	72.9	73.0	73.4	73.1	73.1	70.2	45.6	33.7	32.6	29.7	30.1	36.9	55.3	60.2	66.4	70.6	71.7	72.5	61.9	75.5	29.7
17	73.0	75.9	77.0	78.9	79.2	78.4	77.7	77.2	68.4	52.7	40.6	37.0	37.9	39.7	42.0	41.2	41.2	40.6	47.8	52.2	52.2	53.5	51.8	53.7	57.1	79.2	37.0
18	56.6	54.5	57.4	51.7	50.7	50.9	53.7	57.2	56.3	54.1	53.4	57.5	67.3	73.7	75.4	69.9	64.7	76.5	81.5	82.8	85.9	86.2	85.6	84.2	66.2	86.2	50.7
19	79.9	75.2	76.7	74.9	74.4	76.9	76.4	69.9	68.1	71.0	76.8	78.7	79.0	78.7	80.1	83.4	82.8	79.8	73.6	81.2	82.1	73.0	77.1	85.2	77.3	85.2	68.1
20	80.6	83.7	81.4	77.4	77.2	74.9	76.0	81.5	73.4	72.3	72.8	78.4	77.3	73.1	62.6	68.1	74.1	74.6	72.5	75.3	79.4	76.0	73.2	70.6	75.3	83.7	62.6
21	65.2	65.5	71.4	87.0	79.9	63.7	73.2	75.5	70.3	65.5	67.3	71.0	67.0	64.5	62.5	69.2	72.3	74.7	73.9	65.6	63.5	65.6	67.6	69.8	69.7	87.0	62.5
22	69.4	70.6	70.8	69.8	71.1	65.2	62.1	62.8	60.5	55.7	56.4	54.7	52.4	62.9	63.4	62.2	61.2	63.9	63.7	65.1	66.4	66.8	66.2	66.8	63.8	71.1	52.4
23	67.0	65.6	65.0	65.8	65.6	64.9	64.4	63.9	61.8	59.6	56.8	57.4	56.4	56.9	58.8	59.7	60.1	61.6	63.5	64.8	64.6	63.3	62.6	62.7	62.2	67.0	56.4
24	63.1	63.8	64.3	64.4	65.1	64.8	65.2	64.5	60.9	53.9	48.2	51.3	53.6	47.4	47.1	43.0	44.7	52.1	67.6	75.3	77.8	75.8	74.7	74.5	61.0	77.8	43.0
25	73.3	72.1	71.3	73.1	73.7	74.9	75.6	76.9	74.6	60.3	43.5	39.0	38.4	38.2	39.4	39.0	41.8	46.1	53.4	62.6	64.4	67.5	63.6	61.9	59.4	76.9	38.2
26	62.9	66.2	66.8	61.4	63.2	62.7	64.3	68.3	64.8	51.8	46.3	45.8	45.4	44.5	46.4	53.7	67.7	63.4	79.2	67.8	65.4	75.3	69.7	63.5	61.1	79.2	44.5
27	71.3	60.5	54.3	58.8	62.1	60.0	66.7	73.3	60.2	53.8	50.1	46.7	42.8	36.7	35.9	32.3	44.0	47.7	52.8	61.7	63.8	68.8	64.7	62.4	55.5	73.3	32.3
28	63.4	67.1	68.9	70.0	77.2	78.8	82.6	82.7	82.1	75.1	57.9	43.3	49.7	56.8	59.7	51.9	49.1	47.8	54.7	61.8	67.3	73.6	80.8	82.6	66.0	82.7	43.3
Avg	71.8	71.9	72.6	72.6	73.1	71.8	71.8	72.3	70.4	67.2	63.3	57.3	53.6	54.6	53.8	53.5	56.6	61.0	66.3	69.3	71.5	72.2	72.1	72.5	66.4	80.4	47.8
Max	82.9	83.7	84.3	87.0	84.5	85.2	82.6	82.7	82.5	84.3	83.9	78.7	79.0	78.9	81.5	83.4	83.9	85.9	85.0	84.1	86.4	86.2	85.6	85.2	77.3	87.0	68.1
Min	56.6	54.5	54.3	51.7	50.7	50.9	53.7	57.2	56.3	51.8	40.6	37.0	32.4	33.6	32.6	29.7	30.1	36.9	47.8	49.6	52.2	51.5	51.8	53.7	55.5	67.0	29.7

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
March 2023

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	82.1	79.9	78.4	77.8	77.1	76.7	75.4	74.5	74.5	73.5	65.3	56.4	41.7	42.4	46.0	42.4	44.1	48.8	60.8	67.4	72.4	70.5	63.0	60.5	64.6	82.1	41.7
2	58.7	55.2	56.2	59.0	59.9	60.3	60.8	60.3	62.4	64.4	59.1	53.8	52.6	48.9	49.5	42.8	48.5	51.1	56.1	59.5	60.4	68.4	64.7	78.1	57.9	78.1	42.8
3	70.1	65.4	58.9	64.4	72.9	76.5	78.3	77.5	74.1	70.7	68.8	65.6	51.2	44.7	39.6	42.7	49.8	46.4	55.7	67.4	75.9	78.2	74.5	74.8	64.3	78.3	39.6
4	77.3	77.8	78.0	77.8	77.7	78.1	78.5	77.3	73.8	62.6	49.5	42.1	46.5	40.6	41.6	41.2	46.0	50.6	51.6	50.6	54.0	57.9	62.1	74.7	61.2	78.5	40.6
5	77.4	81.2	82.1	82.2	80.4	79.9	79.5	80.5	73.4	69.5	68.0	72.4	73.4	72.2	64.5	62.5	63.4	67.2	66.1	71.6	77.6	76.7	74.3	73.7	73.7	82.2	62.5
6	75.4	74.3	73.9	73.5	73.0	75.8	77.0	76.3	74.6	71.9	68.1	65.9	64.6	65.0	63.1	57.1	60.5	61.7	74.3	78.7	78.7	80.1	80.2	78.5	71.8	80.2	57.1
7	75.7	77.0	77.5	78.1	78.8	79.5	79.9	80.3	79.5	76.0	70.6	62.5	57.7	53.4	48.6	48.7	41.7	48.3	57.3	64.0	69.0	76.5	79.9	78.8	68.3	80.3	41.7
8	76.7	75.6	75.0	73.6	72.5	72.3	72.6	72.8	72.7	75.5	76.8	69.7	59.0	61.8	59.1	66.1	72.0	76.9	78.7	78.6	78.2	78.0	78.6	75.6	72.8	78.7	59.0
9	72.7	71.8	71.4	70.6	72.4	72.3	72.9	72.4	70.8	61.1	58.0	56.6	56.2	59.5	59.4	54.5	62.1	60.8	66.3	70.4	73.0	73.9	75.9	76.9	67.2	76.9	54.5
10	76.4	72.6	74.7	81.3	78.3	76.7	74.8	72.0	74.6	78.2	79.7	79.0	71.9	73.1	81.7	77.8	82.1	80.7	79.3	77.8	78.2	78.8	79.1	78.7	77.4	82.1	71.9
11	79.5	77.2	73.8	70.0	71.5	68.5	70.4	70.8	71.5	73.3	69.9	71.3	66.7	54.8	55.6	60.4	65.6	65.3	71.6	75.8	78.6	81.1	79.3	78.9	70.9	81.1	54.8
12	78.1	78.0	77.6	77.5	77.9	78.2	77.6	77.8	76.8	68.1	54.2	44.7	44.3	50.5	42.9	42.3	41.7	45.4	54.7	62.3	74.6	77.6	81.1	81.6	65.2	81.6	41.7
13	80.8	80.0	79.7	80.1	81.2	81.8	81.5	81.3	77.8	63.2	57.7	54.3	53.6	53.1	49.4	47.2	54.6	53.0	59.4	58.6	59.5	60.0	59.5	60.1	65.3	81.8	47.2
14	58.9	55.1	55.0	55.9	59.4	76.6	77.2	71.2	63.2	56.6	53.7	49.5	42.9	41.9	40.3	41.4	52.1	64.1	75.9	80.5	78.8	77.9	78.5	79.0	61.9	80.5	40.3
15	76.9	78.2	78.6	79.4	83.0	87.1	85.3	80.5	78.2	74.3	73.6	74.4	76.4	67.5	60.9	59.9	65.0	75.4	75.7	80.7	84.0	82.4	84.2	84.5	76.9	87.1	59.9
16	84.9	83.0	81.2	80.6	79.0	77.7	77.4	76.6	76.1	71.7	66.6	61.2	63.8	58.9	47.9	48.3	48.8	46.2	59.8	68.2	70.3	74.4	76.3	77.6	69.0	84.9	46.2
17	79.4	78.2	76.2	75.0	73.3	73.3	72.6	71.7	72.5	73.5	67.1	50.0	34.7	30.4	33.6	36.7	32.8	35.1	45.6	60.1	66.5	74.2	75.8	77.8	61.1	79.4	30.4
18	78.9	79.0	77.9	77.0	76.8	75.8	75.4	74.8	74.9	73.6	53.4	36.9	37.4	33.1	29.2	33.7	33.9	36.2	43.5	53.0	59.6	65.5	69.7	71.6	59.2	79.0	29.2
19	72.9	73.3	73.1	74.2	74.3	73.4	72.4	66.7	56.7	56.4	39.5	32.4	37.9	37.0	38.0	32.8	37.0	40.7	46.0	58.3	65.8	70.6	75.2	76.4	57.5	76.4	32.4
20	78.7	81.7	80.9	82.0	81.1	81.7	82.2	77.7	72.3	59.1	53.0	57.5	55.0	54.8	59.6	70.8	82.0	85.3	85.6	85.5	85.4	85.2	85.0	84.1	75.3	85.6	53.0
21	84.4	84.3	83.8	83.7	83.4	83.3	82.4	81.5	80.2	76.8	61.6	75.1	67.4	55.7	49.2	46.6	45.3	41.0	49.5	61.7	70.4	72.3	75.1	77.3	69.7	84.4	41.0
22	78.7	77.5	76.0	74.6	73.7	72.6	71.7	71.7	74.4	74.1	70.7	54.6	38.2	41.1	39.7	39.9	38.2	39.1	47.1	59.3	64.9	68.6	73.1	76.0	62.3	78.7	38.2
23	77.8	78.0	76.7	76.4	75.5	75.6	74.3	74.1	71.9	59.7	56.0	41.0	38.3	39.0	35.6	39.1	43.4	50.8	56.4	66.4	72.6	75.6	79.7	79.4	63.1	79.7	35.6
24	78.5	76.7	76.2	76.6	80.3	85.4	83.5	75.8	64.5	64.1	60.9	58.5	50.9	45.9	45.7	43.0	52.6	64.3	78.0	86.9	88.4	87.3	82.9	80.2	70.3	88.4	43.0
25	79.1	81.7	79.5	77.3	81.6	83.5	83.7	80.4	75.8	72.2	67.9	62.0	60.2	59.8	59.5	59.2	60.2	64.3	67.4	68.0	73.0	74.9	71.8	72.3	71.5	83.7	59.2
26	77.4	78.2	80.7	82.0	82.5	82.3	82.1	79.5	73.0	66.4	63.9	57.2	58.8	63.1	63.7	63.5	59.0	62.2	68.7	69.7	69.8	73.1	77.4	75.8	71.3	82.5	57.2
27	75.6	75.3	76.6	79.7	78.8	77.2	76.1	73.2	66.4	61.0	57.4	52.1	57.8	55.6	52.8	47.7	46.6	49.4	61.5	63.3	66.1	70.8	76.0	77.7	65.6	79.7	46.6
28	79.5	78.8	78.4	77.9	78.4	78.3	78.4	78.3	77.7	68.2	47.1	39.3	39.1	36.6	34.8	43.7	47.7	55.5	65.2	68.2	70.5	73.4	75.6	75.4	64.4	79.5	34.8
29	77.9	78.1	74.5	75.6	75.7	75.7	75.8	72.3	60.7	63.7	63.3	63.7	61.2	63.6	62.2	72.0	80.3	83.7	83.1	81.8	78.6	77.9	75.8	77.8	73.1	83.7	60.7
30	82.0	82.0	86.1	88.0	87.4	87.2	86.9	85.3	83.7	83.3	83.5	79.9	80.1	69.8	70.0	80.1	80.4	82.2	81.3	84.8	85.7	86.6	86.0	85.5	82.8	88.0	69.8
31	85.6	85.6	86.1	85.3	85.3	85.5	85.2	83.7	77.2	70.2	67.3	68.5	68.0	63.5	57.7	53.6	54.5	58.7	59.2	59.0	61.8	71.4	76.3	81.4	72.1	86.1	53.6
Avg	77.0	76.5	76.0	76.4	76.9	77.7	77.5	75.8	72.8	68.8	63.0	58.3	55.1	52.8	51.0	51.5	54.6	57.8	63.9	69.0	72.3	74.8	75.7	76.8	68.0	81.6	47.9
Max	85.6	85.6	86.1	88.0	87.4	87.2	86.9	85.3	83.7	83.3	83.5	79.9	80.1	73.1	81.7	80.1	82.1	85.3	85.6	86.9	88.4	87.3	86.0	85.5	82.8	88.4	71.9
Min	58.7	55.1	55.0	55.9	59.4	60.3	60.8	60.3	56.7	56.4	39.5	32.4	34.7	30.4	29.2	32.8	32.8	35.1	43.5	50.6	54.0	57.9	59.5	60.1	57.5	76.4	29.2

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
January 2023

	<< Hour >>																									
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Tot	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.03	0.01
6	0.01	0.01	0.03	0.03	0.03	0.02	0.01	0.00	0.01	0.02	0.01	0.03	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.03
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.02
14	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.01	0.01	0.01	0.02	0.01	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.04
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.03	0.01	0.00
16	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.03	0.01
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01
27	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
Tot	0.02	0.01	0.04	0.04	0.05	0.07	0.06	0.05	0.02	0.04	0.04	0.08	0.01	0.05	0.04	0.05	0.01	0.03	0.01	0.04	0.02	0.02	0.02	0.02	0.84	0.00
Max	0.01	0.01	0.03	0.03	0.03	0.03	0.02	0.04	0.01	0.02	0.01	0.03	0.01	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.24	0.04

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
February 2023

Day	<< Hour >>																								Tot	Max
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.02
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.03	0.02
14	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
20	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.03	0.00	0.01	0.01	0.16	0.00
Max	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.02	0.00	0.01	0.01	0.06	0.02

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
March 2023

Day	<< Hour >>																								Tot Max	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.02	0.00	0.03	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.05
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01	0.00	0.00	0.01	0.00	0.06	0.02
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.01	0.00	0.05	0.02
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot	0.00	0.00	0.02	0.00	0.03	0.05	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.02	0.00	0.03	0.02	0.02	0.03	0.01	0.01	0.02	0.00	0.37	0.00
Max	0.00	0.00	0.02	0.00	0.03	0.05	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.01	0.00	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.11	0.08