

**SANDFIRE RESOURCES AMERICA, INC.
BLACK BUTTE COPPER PROJECT
METEOROLOGICAL
MONITORING PROGRAM
Quarterly Data Report
Second 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
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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 second quarter (April through June) of 2023. In addition, a description of the monitoring system operations is presented; there were no quality assurance activities conducted during the second 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 second 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

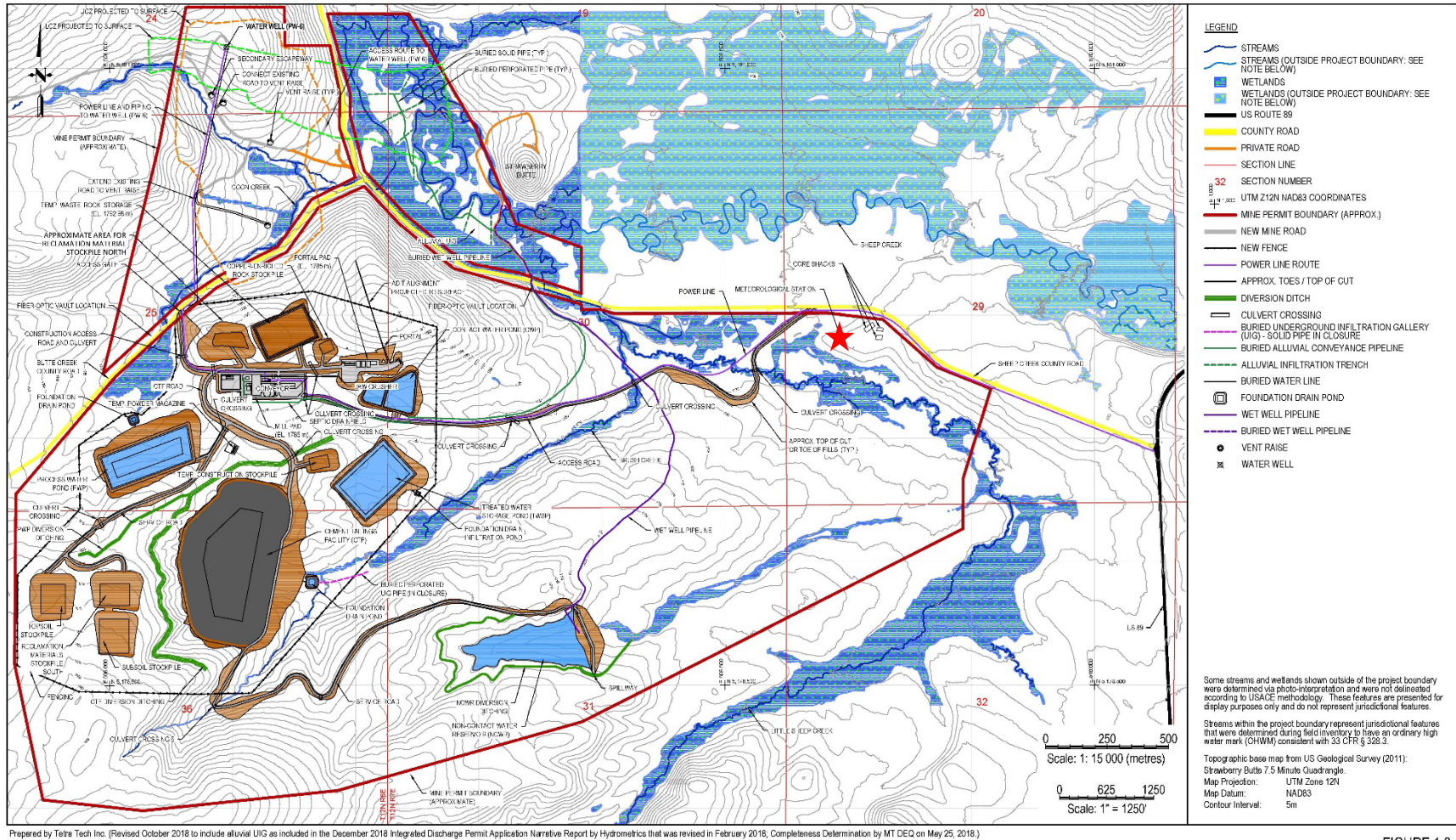


FIGURE 1.3
Facilities Site Plan
Black Butte Copper Project
Mine Operating Permit Application
Meagher County, Montana



2.0 MONITORING SYSTEM OPERATIONS

Monitoring efforts continued uninterrupted during the second 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 for the second quarter of 2023 from the station until a performance audit and calibration was performed on August 10, 2023. No performance audits or calibrations were conducted during the second quarter of 2023.

3.0 PERFORMANCE AUDIT DATA

No performance audits were conducted on the meteorological system during the second quarter of 2023. A performance audit was conducted during the third quarter on August 10, 2023; results are included in Appendix B of this report.

4.0 CALIBRATION DATA

No calibrations were conducted on the meteorological system during the second quarter of 2023. A performance audit and calibration was performed during the third quarter on August 10, 2023; results are included in Appendix B of this report.

During the August 10 calibration, the wind speed responses from the synchronous motor tests were found to be slightly lower than expected. At a known rotation rate of 300 rpm the sensor response was 6.41 m/s, versus an expected response of 6.66 m/s. At a 600 rpm rotation rate, the response was 12.41 m/s versus an expected response of 13.09 m/s. The wind sensor crossarm was replaced immediately following the audit, and a calibration was performed. Those results also are presented in Appendix B.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the second 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 100 percent overall among all parameters. All instruments were operational throughout the quarter.

Table 1. Monthly Data Completeness

April 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	720	100.0	0	100.0
Standard Deviation	720	720	100.0	0	100.0
9-Meter Temperature	720	720	100.0	0	100.0
2-Meter Temperature	720	720	100.0	0	100.0
9-2 M Delta Temperature	720	720	100.0	0	100.0
Solar Radiation	720	720	100.0	0	100.0
Barometric Pressure	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,200	7,200	100.0	0	100.0

Table 2. Monthly Data Completeness

May 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 3. Monthly Data Completeness

June 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	720	100.0	0	100.0
Wind Direction	720	720	100.0	0	100.0
Standard Deviation	720	720	100.0	0	100.0
9-Meter Temperature	720	720	100.0	0	100.0
2-Meter Temperature	720	720	100.0	0	100.0
9-2 M Delta Temperature	720	720	100.0	0	100.0
Solar Radiation	720	720	100.0	0	100.0
Barometric Pressure	720	720	100.0	0	100.0
Relative Humidity	720	720	100.0	0	100.0
Precipitation	720	720	100.0	0	100.0
Total	7,200	7,200	100.0	0	100.0

Table 4. Second Quarter Data Completeness

Second Quarter 2023					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,184	2,184	100.0	0	100.0
Wind Direction	2,184	2,184	100.0	0	100.0
Standard Deviation	2,184	2,184	100.0	0	100.0
9-Meter Temperature	2,184	2,184	100.0	0	100.0
2-Meter Temperature	2,184	2,184	100.0	0	100.0
9-2 M Delta Temperature	2,184	2,184	100.0	0	100.0
Solar Radiation	2,184	2,184	100.0	0	100.0
Barometric Pressure	2,184	2,184	100.0	0	100.0
Relative Humidity	2,184	2,184	100.0	0	100.0
Precipitation	2,184	2,184	100.0	0	100.0
Total	21,840	21,840	100.0	0	100.0

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. April Wind Rose Summary, Black Butte Copper Project Met Tower

April 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	0.8	1.0	1.3	2.2	1.1	2.4	1.8	0.8	0.3	0.6	0.0	0.7	0.7	0.4	0.6	15.4
	1.1 - 2.0	1.0	1.9	1.7	2.6	1.7	4.2	3.9	1.8	0.3	0.4	0.1	0.3	0.8	0.8	0.8	1.1	23.5
	2.1 - 3.0	0.4	0.6	0.4	1.4	1.7	1.1	1.3	0.6	0.8	0.0	0.3	0.7	0.7	1.1	1.1	0.4	12.5
	3.1 - 4.0	0.0	0.0	0.4	1.0	1.1	0.3	0.3	0.6	0.7	0.3	0.0	1.1	3.1	1.8	1.5	0.4	12.5
	4.1 - 5.0	0.1	0.6	0.7	0.1	0.0	0.1	0.3	1.0	0.4	0.0	0.6	1.5	2.5	1.7	0.6	0.1	10.3
	5.1 - 6.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	1.1	0.6	0.0	0.1	0.1	3.9	2.1	1.0	0.6	10.1
	6.1 - 7.0	0.3	0.3	0.0	0.0	0.0	0.0	0.1	0.7	0.3	0.1	0.6	1.4	1.7	0.8	0.4	0.0	6.7
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.3	0.4	1.0	0.8	0.3	0.1	4.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.4	1.0	0.3	0.1	2.4
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.7	0.1	0.0	1.3
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.6
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
	12.1 - 13.0	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	0.0	0.1
	13.1 - 14.0	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	0.0	0.1
	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		2.8	4.3	4.3	6.4	6.8	6.8	8.3	7.8	4.3	3.2	2.9	5.7	14.9	11.5	6.5	3.5	100.0
Average Speed		2.1	2.4	2.2	1.9	1.8	1.7	1.8	3.2	3.6	7.5	4.9	4.7	4.7	4.9	4.1	3.0	3.5

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

May 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	1.1	0.7	0.7	0.7	0.5	1.3	1.7	1.6	0.7	0.3	0.8	0.1	0.3	0.5	0.3	0.9	12.2
	1.1 - 2.0	1.3	0.7	1.3	3.0	3.2	6.7	3.5	2.7	0.9	0.4	0.4	0.3	0.3	1.6	2.2	2.2	30.6
	2.1 - 3.0	0.5	0.5	0.9	2.0	3.6	2.4	0.8	0.9	0.3	0.4	0.5	0.3	1.2	1.7	1.5	1.3	19.1
	3.1 - 4.0	0.4	0.1	0.5	0.7	1.9	0.1	0.3	0.9	0.4	0.3	0.1	1.5	1.9	0.9	1.7	0.4	12.2
	4.1 - 5.0	0.1	0.5	0.5	1.2	0.8	0.3	0.3	0.8	0.3	0.0	0.0	1.1	1.6	1.2	1.2	0.0	9.9
	5.1 - 6.0	0.4	0.3	0.1	0.4	0.1	0.4	0.7	1.2	0.4	0.7	0.1	0.1	1.7	0.5	0.3	0.4	7.9
	6.1 - 7.0	0.0	0.1	0.0	0.4	0.1	0.3	0.1	0.3	0.0	0.7	0.0	0.1	0.1	0.1	0.0	0.0	2.4
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.3	0.1	1.1	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	2.7
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.3
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
	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		3.9	3.0	4.2	8.3	10.6	11.8	10.6	9.5	3.0	2.8	2.0	3.6	7.3	6.7	7.3	5.4	100.0
Average Speed		2.2	2.6	2.4	2.8	2.7	2.1	4.2	3.3	2.6	4.1	1.9	3.9	4.1	3.0	2.9	2.2	3.0

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

June 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	1.1	1.0	0.7	1.1	0.7	0.8	2.2	1.1	0.3	0.6	0.1	0.3	0.7	1.3	0.1	1.5	13.6
	1.1 - 2.0	1.7	2.2	2.6	2.2	3.6	5.1	3.8	1.8	0.7	0.3	1.1	1.0	1.1	1.7	1.5	1.3	31.7
	2.1 - 3.0	0.1	0.1	0.7	2.6	6.9	1.8	1.9	1.0	1.1	0.4	0.4	0.7	1.4	2.6	1.7	0.7	24.3
	3.1 - 4.0	0.4	0.1	0.0	0.8	1.1	0.1	1.5	1.3	0.6	0.1	0.4	1.1	1.7	1.5	1.3	0.6	12.6
	4.1 - 5.0	0.0	0.6	0.3	0.3	0.4	0.1	0.8	0.7	0.1	0.4	0.3	1.1	1.3	1.8	1.0	0.1	9.3
	5.1 - 6.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.7	0.1	0.0	0.0	0.1	0.7	0.3	0.6	0.0	3.1
	6.1 - 7.0	0.1	0.0	0.1	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.3	0.6	0.1	0.1	0.0	2.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	1.0	0.3	0.0	0.0	1.7
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.0
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	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	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	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		3.5	4.0	4.4	7.2	12.8	8.1	11.7	8.1	2.9	1.8	2.4	4.7	8.3	9.7	6.3	4.2	100.0
Average Speed		1.7	1.8	1.9	2.2	2.3	1.7	2.7	3.8	2.6	2.4	2.2	3.5	3.8	3.0	3.1	1.8	2.6

Table 9. Q2 Wind Rose Summary, Black Butte Copper Project Met Tower

Second 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	1.0	0.8	0.8	1.0	1.1	1.1	2.1	1.5	0.6	0.4	0.5	0.1	0.5	0.8	0.3	1.0	13.7
	1.1 - 2.0	1.3	1.6	1.9	2.6	2.8	5.4	3.7	2.1	0.6	0.4	0.5	0.5	0.7	1.4	1.5	1.5	28.6
	2.1 - 3.0	0.4	0.4	0.7	2.0	4.1	1.8	1.3	0.8	0.7	0.3	0.4	0.5	1.1	1.8	1.4	0.8	18.6
	3.1 - 4.0	0.3	0.1	0.3	0.8	1.4	0.2	0.7	0.9	0.5	0.2	0.2	1.2	2.2	1.4	1.5	0.5	12.5
	4.1 - 5.0	0.1	0.5	0.5	0.5	0.4	0.2	0.5	0.8	0.3	0.1	0.3	1.2	1.8	1.6	0.9	0.1	9.8
	5.1 - 6.0	0.2	0.1	0.1	0.2	0.1	0.1	0.4	1.0	0.4	0.2	0.1	0.1	2.1	1.0	0.6	0.3	7.1
	6.1 - 7.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.5	0.1	0.3	0.2	0.6	0.8	0.4	0.2	0.0	3.7
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.4	0.1	0.2	0.1	0.2	0.6	0.4	0.1	0.1	2.8
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.1	0.0	0.1	0.2	0.4	0.1	0.0	1.6
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.9
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	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		3.4	3.8	4.3	7.3	10.1	8.9	10.2	8.5	3.4	2.6	2.4	4.7	10.1	9.3	6.7	4.3	100.0
Average Speed		2.0	2.2	2.2	2.3	2.3	1.9	3.0	3.4	3.0	5.1	3.2	4.1	4.3	3.8	3.3	2.3	3.0

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

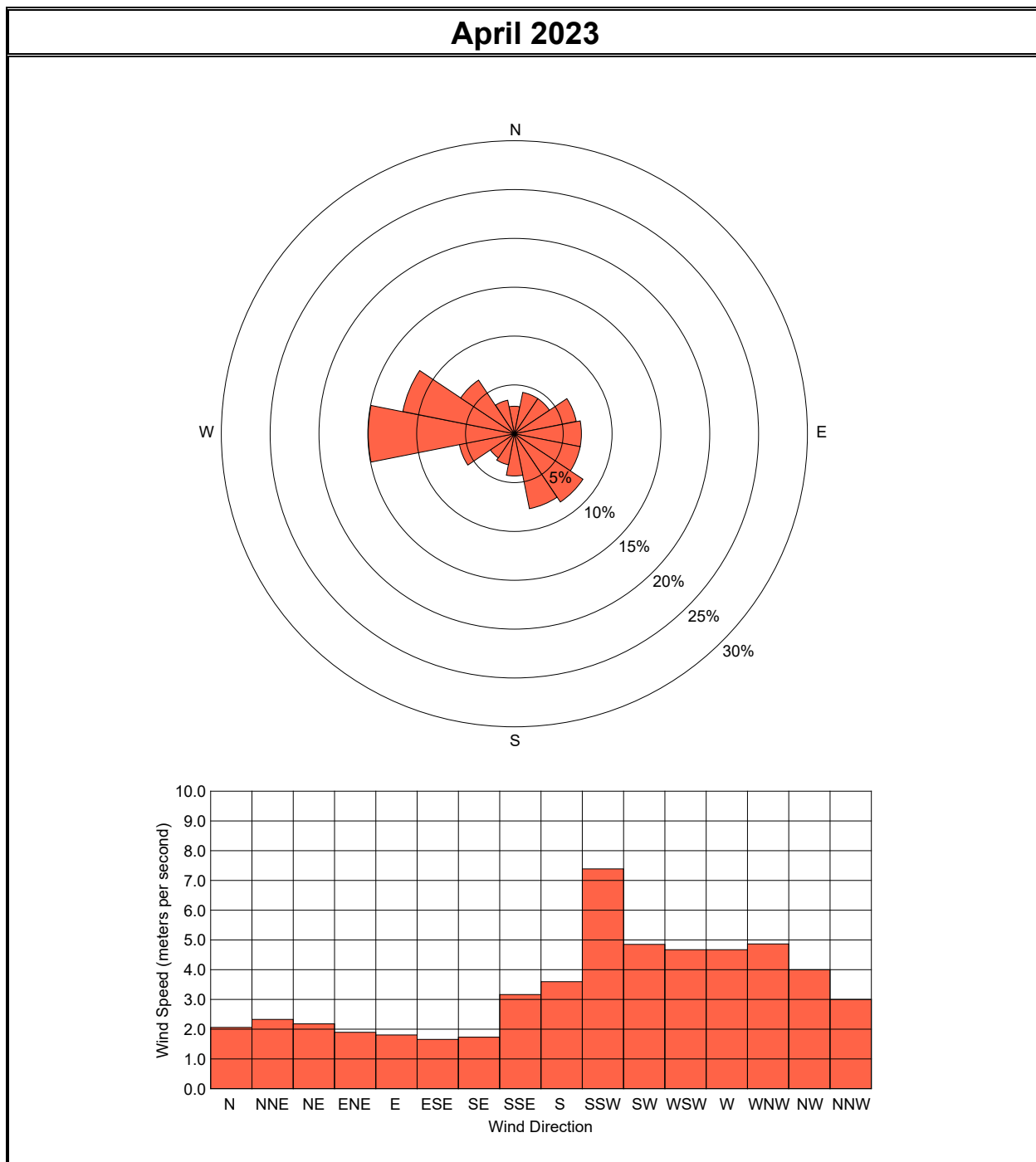


Figure 3. May Wind Rose, Black Butte Copper Project Met Tower

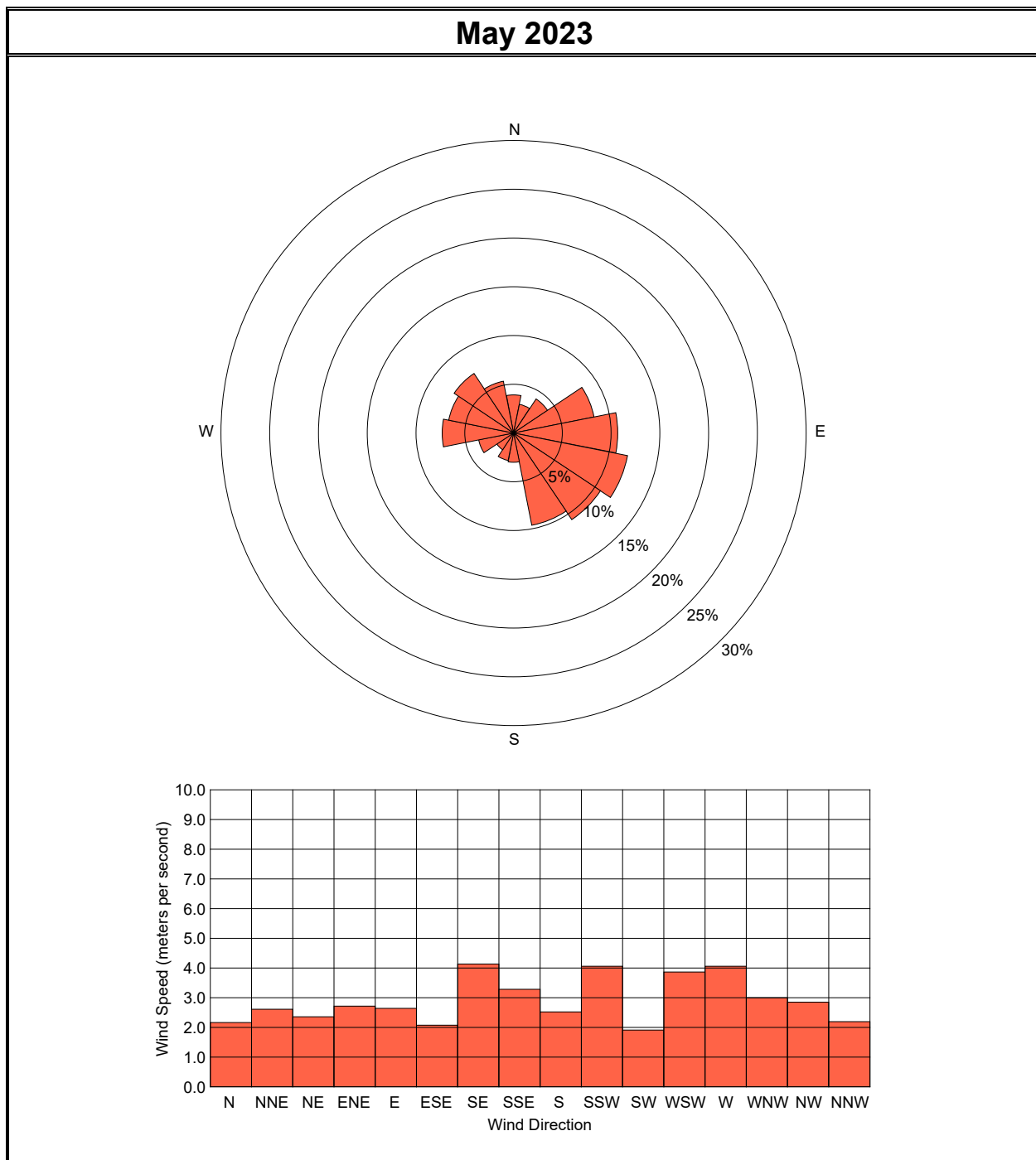


Figure 4. June Wind Rose, Black Butte Copper Project Met Tower

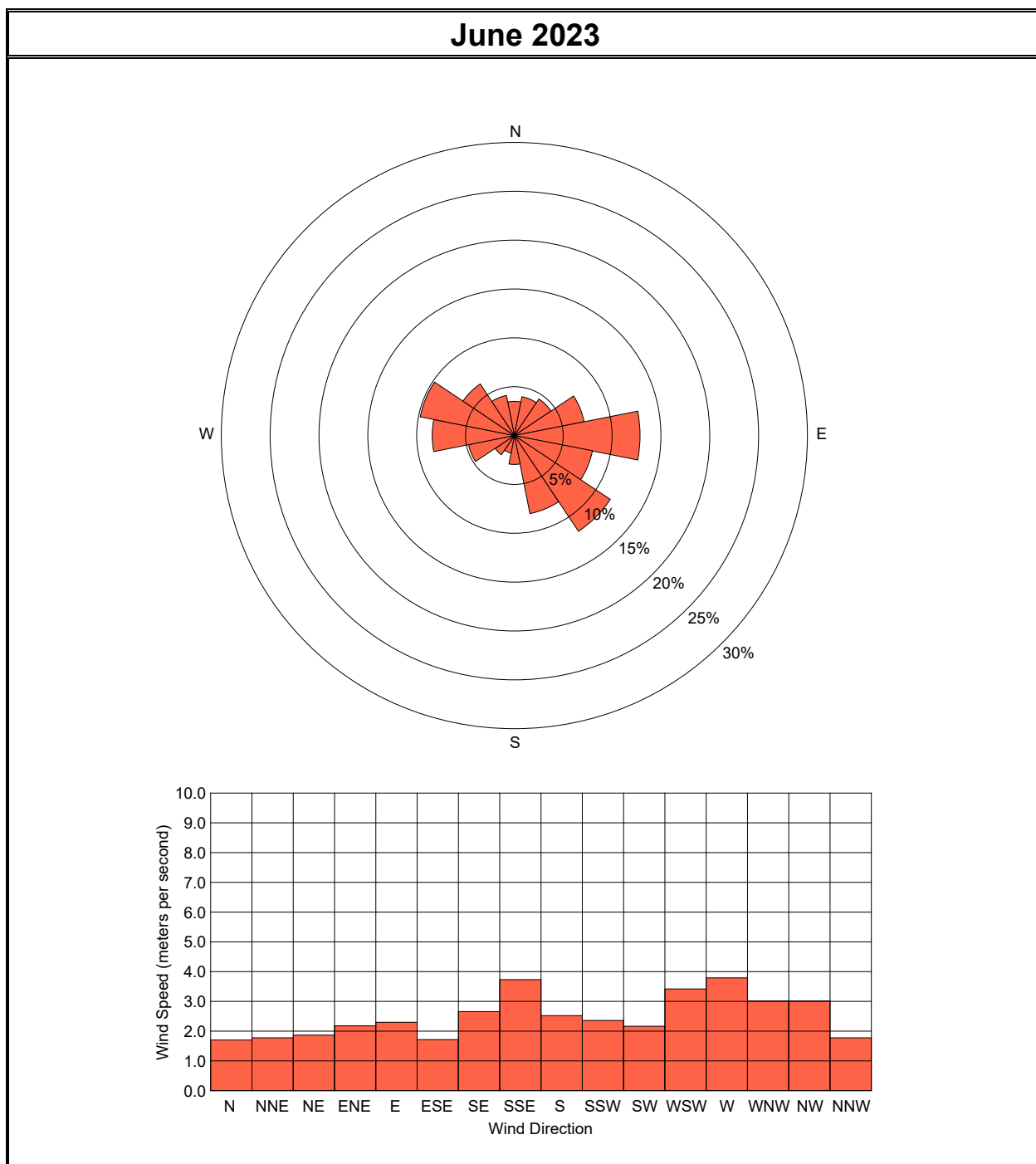
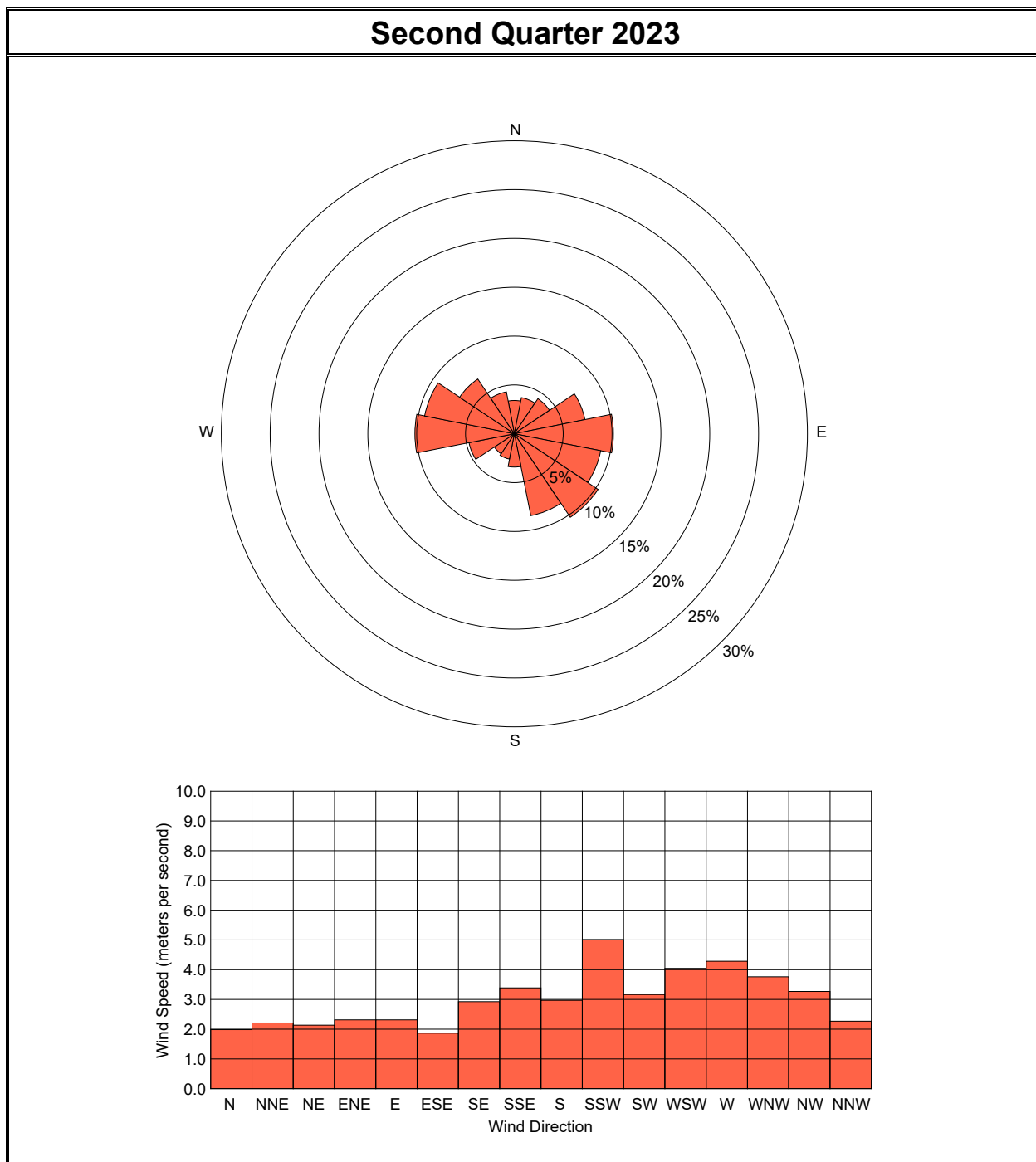


Figure 5. Q2 Wind Rose, Black Butte Copper Project Met Tower



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

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
April 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	1.0	1.0	4.7	3.8	3.8	2.4	2.0	2.7	4.3	6.8	7.8	11.1	10.5	11.8	9.4	8.0	8.8	4.6	4.2	5.0	3.3	6.2	5.0	6.6	5.6	11.8	1.0
2	4.4	4.2	6.3	4.2	6.0	6.0	5.5	5.6	5.5	7.5	8.1	8.8	9.1	8.8	8.4	7.5	6.0	6.0	5.2	2.3	3.1	3.7	3.8	2.3	5.8	9.1	2.3
3	2.2	1.6	0.9	0.8	0.8	1.2	0.7	1.5	0.6	0.7	1.2	3.6	2.4	2.4	4.4	4.3	2.8	4.5	3.0	3.4	4.6	5.0	4.7	1.9	2.5	5.0	0.6
4	2.5	2.3	2.0	0.8	1.5	0.9	1.1	2.0	5.4	6.1	6.8	6.2	5.5	5.7	4.3	4.5	4.7	4.7	3.9	2.5	1.1	0.7	1.3	2.2	3.3	6.8	0.7
5	2.1	1.6	0.7	1.1	1.1	0.7	0.8	1.1	0.8	0.7	1.3	4.5	6.4	6.8	7.3	7.6	6.7	6.1	7.3	3.8	3.7	4.5	4.3	3.4	3.5	7.6	0.7
6	2.1	1.5	1.3	1.4	1.0	0.8	1.0	0.8	0.9	3.0	7.4	7.3	6.8	6.4	5.9	4.7	4.7	4.7	2.8	1.5	2.3	1.8	2.5	3.7	3.2	7.4	0.8
7	3.4	2.9	3.8	5.6	4.7	3.3	2.5	2.0	0.9	1.6	6.9	4.9	5.4	4.7	5.4	6.0	6.8	3.7	3.2	2.9	2.4	2.3	3.2	4.6	3.9	6.9	0.9
8	1.4	2.2	3.1	2.9	1.2	1.5	1.8	2.1	2.9	3.1	5.1	6.5	6.7	6.0	5.7	6.3	5.1	4.6	2.4	2.0	1.0	1.3	3.0	3.1	3.4	6.7	1.0
9	2.2	1.8	1.5	2.1	1.6	1.6	1.6	1.5	1.5	3.3	5.0	3.8	4.3	5.4	6.3	6.1	6.2	6.2	5.6	2.9	1.4	1.9	1.8	1.5	3.2	6.3	1.4
10	2.1	1.7	1.6	1.2	1.3	0.9	1.1	1.1	1.0	1.7	4.4	5.9	5.7	5.6	7.6	7.7	7.9	8.0	3.2	3.8	8.7	11.8	12.0	13.9	5.0	13.9	0.9
11	12.6	10.4	9.8	8.1	7.0	5.6	2.2	4.3	5.1	7.9	10.3	10.6	6.5	7.2	8.8	8.5	6.5	5.8	5.6	2.6	3.9	5.3	4.6	3.0	6.8	12.6	2.2
12	2.7	1.7	0.9	1.1	1.5	0.8	3.3	1.8	0.6	0.7	1.1	0.7	1.1	3.5	4.6	3.4	2.8	3.3	3.5	3.1	2.3	1.5	2.0	2.6	2.1	4.6	0.6
13	1.3	2.3	3.9	2.9	2.3	1.1	1.4	1.6	2.2	3.1	3.3	5.2	5.8	4.3	5.2	4.2	6.1	4.8	3.6	3.2	2.3	1.1	0.7	1.0	3.0	6.1	0.7
14	1.7	0.7	1.4	2.0	1.1	0.5	0.6	0.4	0.4	0.6	1.2	4.2	3.5	3.9	4.1	4.3	3.3	4.8	2.0	1.6	1.0	0.7	1.3	0.9	1.9	4.8	0.4
15	0.9	0.8	0.8	0.6	0.9	0.5	0.6	0.5	0.5	1.3	2.7	3.5	4.1	3.5	3.6	4.0	3.4	2.4	1.0	1.2	1.9	1.0	1.4	1.8	1.8	4.1	0.5
16	2.3	2.2	2.3	2.3	2.1	1.9	1.5	1.4	2.6	4.7	5.0	3.7	3.2	3.7	5.5	5.8	5.8	5.8	7.3	2.3	2.0	1.6	2.3	7.1	3.5	7.3	1.4
17	3.1	3.1	1.8	3.2	3.1	1.7	1.2	0.8	0.8	0.8	2.5	6.6	6.9	6.6	3.3	1.4	4.2	6.0	3.9	2.6	3.7	1.3	1.9	3.7	3.1	6.9	0.8
18	2.5	0.8	0.5	1.5	1.2	1.1	0.9	1.6	4.9	4.3	4.7	5.4	2.4	7.4	2.7	2.6	4.0	6.6	5.7	4.0	3.9	4.5	5.9	5.0	3.5	7.4	0.5
19	6.3	5.7	5.4	5.4	8.2	8.8	7.3	8.7	9.0	9.3	9.1	9.4	9.5	9.2	7.8	7.0	6.4	7.4	5.7	4.9	4.7	4.5	6.1	6.0	7.2	9.5	4.5
20	5.8	5.8	5.7	5.5	5.2	4.8	4.7	4.8	6.5	7.5	7.3	7.2	6.6	7.1	8.0	8.5	9.4	7.3	5.4	4.2	3.6	1.6	2.9	1.3	5.7	9.4	1.3
21	0.6	0.8	0.5	0.6	0.5	0.6	0.5	0.3	0.3	0.4	3.3	7.0	7.4	3.7	4.5	4.0	5.1	6.4	8.2	3.7	1.6	1.5	1.3	1.2	2.7	8.2	0.3
22	1.5	1.1	1.1	2.2	1.4	1.2	0.6	0.5	0.5	0.8	4.2	4.9	4.3	4.7	3.6	3.1	3.0	1.2	0.9	0.9	0.8	0.8	1.3	0.7	1.9	4.9	0.5
23	1.0	1.5	2.0	1.6	1.5	1.2	1.2	0.6	0.8	1.1	1.5	1.4	1.5	1.3	2.0	2.0	1.8	1.7	2.3	2.3	2.9	1.4	1.1	1.2	1.5	2.9	0.6
24	1.0	0.7	1.0	1.4	1.7	1.5	1.8	1.1	1.1	2.7	3.1	2.5	1.2	1.1	0.8	2.6	2.9	3.6	3.4	1.4	0.7	1.1	1.9	2.9	1.8	3.6	0.7
25	1.7	0.7	0.8	0.9	0.9	0.8	1.0	0.9	0.6	3.3	4.4	6.2	6.3	6.4	5.4	5.1	5.8	3.7	5.4	2.8	3.1	2.9	1.0	1.3	3.0	6.4	0.6
26	1.7	1.9	1.4	1.3	1.0	1.3	0.7	0.9	1.2	3.2	4.3	4.3	4.4	5.4	6.6	5.4	5.4	3.1	0.9	1.0	1.2	1.5	3.9	5.9	2.8	6.6	0.7
27	5.8	6.0	4.5	5.3	6.7	5.9	8.8	8.7	7.1	5.3	6.7	6.2	4.8	5.5	5.7	5.4	6.2	5.1	3.9	1.2	1.6	1.3	1.4	1.5	5.0	8.8	1.2
28	1.7	1.4	1.2	1.1	1.2	0.9	0.7	0.6	0.9	1.7	3.0	3.0	3.3	4.4	4.5	5.5	5.2	4.0	2.1	1.8	3.5	3.5	2.4	2.1	2.5	5.5	0.6
29	1.8	1.2	1.8	1.3	0.9	1.2	1.0	0.4	0.8	2.1	3.4	3.4	4.9	5.7	6.1	4.8	4.0	2.5	1.4	2.5	2.2	1.3	0.8	2.1	2.4	6.1	0.4
30	2.4	2.4	1.9	1.3	1.2	1.1	0.6	0.6	0.9	1.3	2.1	3.6	3.6	3.2	2.4	2.0	1.9	1.2	6.7	2.8	3.1	3.2	3.3	1.9	2.3	6.7	0.6
Avg	2.7	2.4	2.5	2.4	2.4	2.1	2.0	2.0	2.4	3.2	4.6	5.4	5.1	5.4	5.3	5.1	5.1	4.7	4.0	2.7	2.7	2.7	3.0	3.2	3.5	7.1	1.0
Max	12.6	10.4	9.8	8.1	8.2	8.8	8.8	8.7	9.0	9.3	10.3	11.1	10.5	11.8	9.4	8.5	9.4	8.0	8.2	5.0	8.7	11.8	12.0	13.9	7.2	13.9	4.5
Min	0.6	0.7	0.5	0.6	0.5	0.5	0.5	0.3	0.3	0.4	1.1	0.7	1.1	1.1	0.8	1.4	1.8	1.2	0.9	0.9	0.7	0.7	0.7	0.7	1.5	2.9	0.3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
May 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	3.8	2.9	1.3	1.2	1.0	0.7	0.6	5.1	8.0	7.7	8.8	9.7	9.8	10.3	10.8	9.9	7.5	4.4	2.0	2.6	3.3	3.1	2.7	5.0	10.8	0.6
2	3.2	1.7	1.6	2.1	2.0	1.4	0.6	0.9	1.1	2.0	4.5	3.6	3.0	1.7	1.1	5.3	7.6	8.3	6.0	2.6	4.2	2.3	2.1	2.9	3.0	8.3	0.6
3	2.8	2.2	2.4	1.8	1.5	1.0	1.1	0.8	0.7	1.4	2.3	3.3	3.0	3.4	5.8	4.7	4.1	3.0	1.8	4.7	4.7	5.8	3.1	1.1	2.8	5.8	0.7
4	2.6	1.7	1.1	0.8	1.0	1.0	0.8	1.1	4.6	8.2	8.8	9.4	10.7	9.5	7.7	8.6	9.2	6.8	5.3	4.6	7.1	7.6	6.1	5.1	5.4	10.7	0.8
5	4.6	3.8	3.4	1.2	2.9	3.4	3.2	1.8	1.2	2.0	1.9	2.3	3.8	4.5	2.1	1.8	3.3	2.7	2.4	2.7	3.6	5.6	2.8	1.5	2.9	5.6	1.2
6	2.4	1.5	1.8	1.6	1.6	1.3	1.0	0.9	3.0	2.9	3.2	5.6	5.3	6.9	8.6	7.0	5.6	4.1	4.8	2.7	2.4	1.5	1.4	1.3	3.3	8.6	0.9
7	1.9	1.5	1.8	1.3	2.1	1.2	1.6	0.9	1.4	1.9	2.5	2.8	3.1	3.5	5.4	2.3	1.8	2.6	3.2	1.7	1.8	1.7	1.5	1.2	2.1	5.4	0.9
8	1.5	1.3	1.5	0.8	1.0	0.9	0.4	0.9	2.1	3.9	4.2	4.7	5.7	5.4	5.0	4.9	4.2	4.3	2.8	1.6	2.9	2.7	3.3	1.7	2.8	5.7	0.4
9	1.0	0.8	1.4	2.0	1.8	1.1	1.2	1.0	3.1	4.7	5.3	6.1	6.7	5.9	3.6	5.6	3.3	3.5	3.5	2.6	1.7	3.5	2.5	1.7	3.1	6.7	0.8
10	1.2	1.3	1.6	1.2	1.1	1.2	0.7	0.8	1.0	1.4	2.1	2.8	2.8	2.4	1.8	3.0	4.6	4.5	4.5	4.7	1.6	1.2	1.2	2.1	2.1	4.7	0.7
11	1.5	1.3	2.0	1.7	1.2	1.0	1.4	2.4	1.5	2.0	3.3	1.4	2.1	3.1	3.1	3.5	4.0	3.3	2.4	1.2	1.4	2.5	1.9	1.0	2.1	4.0	1.0
12	0.8	0.9	0.9	1.1	1.4	1.1	1.1	0.7	2.3	4.0	4.6	4.5	4.1	5.1	5.1	6.1	5.2	5.7	3.9	2.6	1.6	1.1	1.5	1.2	2.8	6.1	0.7
13	0.9	0.8	1.8	1.8	0.8	0.8	0.7	0.7	1.7	4.2	5.7	5.0	4.3	4.8	5.5	6.2	6.7	3.2	4.5	2.6	2.2	2.9	3.8	4.7	3.2	6.7	0.7
14	3.1	2.3	1.6	1.1	1.1	1.3	1.7	4.8	6.3	7.3	7.7	7.5	8.8	9.9	8.8	7.8	6.5	6.2	5.2	4.6	6.0	10.0	7.9	7.9	5.6	10.0	1.1
15	5.6	3.7	5.3	5.2	3.0	2.3	1.8	3.6	3.0	3.0	3.6	3.1	3.4	3.0	3.1	3.5	6.2	5.9	5.0	3.0	2.3	3.9	2.8	2.5	3.7	6.2	1.8
16	1.9	1.9	1.6	1.7	1.9	1.5	1.1	0.8	3.0	5.0	4.9	5.1	5.9	5.4	5.1	5.5	4.1	2.4	5.9	4.0	2.9	4.1	4.0	4.1	3.5	5.9	0.8
17	3.6	3.0	2.8	2.7	2.8	2.8	2.1	2.5	1.9	2.2	1.8	1.4	1.8	2.5	2.5	2.4	3.0	1.9	2.2	2.6	0.9	2.0	2.6	2.3	2.3	3.6	0.9
18	2.3	1.2	1.4	1.3	0.8	0.9	0.7	0.7	2.1	5.4	5.5	4.3	4.1	4.4	3.9	4.4	3.5	3.2	2.5	2.5	2.3	2.2	1.8	2.0	2.6	5.5	0.7
19	1.1	1.7	1.5	1.7	1.5	1.4	0.8	0.9	1.0	1.7	3.2	3.2	2.9	3.6	3.3	3.2	2.9	1.3	1.2	1.2	3.0	3.2	2.7	2.9	2.1	3.6	0.8
20	2.7	1.8	1.6	1.1	1.2	1.1	0.8	0.8	1.2	3.5	5.3	5.8	6.0	5.7	4.3	3.1	3.8	2.8	2.1	2.4	3.2	4.3	2.3	2.2	2.9	6.0	0.8
21	1.4	1.7	1.9	2.7	1.5	1.5	1.5	0.8	1.5	2.3	2.0	2.2	3.2	4.1	1.1	5.2	5.8	5.7	2.2	2.5	1.6	2.2	2.1	1.9	2.4	5.8	0.8
22	2.2	2.2	1.8	1.6	1.2	1.3	1.4	0.9	1.9	4.1	3.5	3.9	6.6	5.3	8.9	7.6	5.9	3.8	3.4	2.3	1.4	1.6	1.1	1.0	3.1	8.9	0.9
23	1.3	1.3	1.5	1.5	0.9	1.0	0.9	1.0	4.3	4.5	5.8	5.1	6.4	6.1	7.5	5.6	5.9	7.9	7.5	2.7	2.0	3.0	2.6	1.1	3.6	7.9	0.9
24	1.9	1.8	1.5	1.9	1.3	0.9	1.0	1.8	2.0	3.1	2.7	3.9	4.4	4.5	3.6	4.0	4.9	4.0	2.7	1.6	1.9	0.9	1.8	1.0	2.5	4.9	0.9
25	1.0	1.2	0.9	0.9	1.4	0.8	0.9	2.0	2.4	3.3	3.5	2.6	2.9	4.6	4.1	2.8	7.6	6.6	1.8	2.4	2.9	2.0	1.4	1.1	2.5	7.6	0.8
26	1.1	2.4	1.8	1.3	0.9	1.1	1.1	1.0	1.1	3.3	3.6	5.6	7.1	8.1	7.7	4.6	5.6	4.3	3.8	1.7	1.1	0.8	1.1	1.4	3.0	8.1	0.8
27	0.7	0.8	1.4	1.3	0.7	0.9	0.8	1.3	1.3	1.4	1.9	1.9	3.2	4.8	3.9	2.7	5.0	4.8	4.1	2.9	1.6	1.1	0.6	1.5	2.1	5.0	0.6
28	0.6	0.7	1.0	0.9	0.9	0.6	1.2	1.1	4.1	4.4	5.4	5.5	5.4	3.8	5.3	4.1	4.8	2.9	1.5	0.8	1.7	1.8	2.6	2.2	2.6	5.5	0.6
29	2.5	1.3	1.5	0.9	1.1	0.8	0.4	0.8	2.8	3.7	3.9	3.8	4.3	4.9	5.1	6.1	4.2	3.9	2.2	0.9	2.0	2.6	2.2	1.6	2.6	6.1	0.4
30	1.9	1.5	1.4	1.1	0.9	1.1	1.3	0.6	1.0	2.9	3.5	3.9	2.8	3.8	4.2	3.7	4.2	4.1	5.6	3.7	2.0	2.9	2.2	2.5	2.6	5.6	0.6
31	2.2	1.6	2.1	1.7	1.7	1.5	0.7	0.9	1.3	1.9	3.3	2.7	5.7	4.1	4.3	1.9	3.0	1.8	1.9	2.2	1.8	1.1	1.7	1.5	2.2	5.7	0.7
Avg	2.1	1.8	1.8	1.6	1.4	1.3	1.1	1.3	2.3	3.5	4.1	4.3	4.8	5.0	4.9	4.8	5.0	4.3	3.6	2.6	2.5	2.9	2.5	2.2	3.0	6.5	0.8
Max	5.6	3.8	5.3	5.2	3.0	3.4	3.2	4.8	6.3	8.2	8.8	9.4	10.7	9.9	10.3	10.8	9.9	8.3	7.5	4.7	7.1	10.0	7.9	7.9	5.6	10.8	1.8
Min	0.6	0.7	0.9	0.8	0.7	0.6	0.4	0.6	0.7	1.4	1.8	1.4	1.8	1.7	1.1	1.8	1.8	1.3	1.2	0.8	0.9	0.8	0.6	1.0	2.1	3.6	0.4

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
June 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	1.0	1.1	1.8	1.0	1.6	1.0	0.8	0.8	0.7	1.7	2.0	4.0	5.1	4.1	4.7	6.3	4.8	4.2	2.1	1.6	1.2	1.5	2.5	1.6	2.4	6.3	0.7
2	1.7	0.8	1.2	1.5	0.8	0.7	1.7	2.0	2.3	2.3	3.5	4.1	4.3	3.6	4.2	3.7	4.1	3.0	2.0	1.8	2.8	2.5	3.1	2.8	2.5	4.3	0.7
3	3.2	3.4	2.2	1.7	1.6	1.7	1.5	2.2	3.2	3.5	3.8	3.5	3.1	3.6	3.9	5.3	5.4	4.6	3.6	3.7	1.8	2.1	1.2	0.9	2.9	5.4	0.9
4	1.1	0.9	0.7	0.8	0.8	0.5	1.2	0.8	0.9	3.1	2.6	2.2	2.8	2.7	1.6	4.1	5.0	6.3	5.7	2.6	2.3	2.6	2.8	2.5	2.4	6.3	0.5
5	2.2	1.2	1.3	1.0	1.1	1.0	1.0	1.3	1.5	2.1	2.1	1.7	3.9	4.0	4.0	3.2	4.6	3.1	5.2	4.2	1.7	1.7	1.6	2.0	2.4	5.2	1.0
6	1.4	1.1	0.9	1.2	0.7	1.2	0.5	2.5	5.0	5.4	5.6	6.1	4.1	4.0	3.2	2.9	2.5	2.5	4.2	1.7	1.6	0.8	1.0	1.1	2.6	6.1	0.5
7	2.1	2.6	1.6	1.3	1.2	1.2	0.9	2.6	2.4	0.9	1.0	4.2	2.6	5.3	4.0	1.8	0.2	3.6	4.4	1.8	1.9	2.8	3.6	1.5	2.3	5.3	0.2
8	1.6	1.8	1.2	1.2	1.5	1.1	1.3	1.0	1.3	4.7	3.0	3.4	3.5	3.9	4.1	4.4	2.4	1.9	2.0	2.0	2.8	2.2	0.8	1.0	2.3	4.7	0.8
9	1.8	1.0	0.8	0.8	0.8	1.0	0.9	1.4	1.9	1.7	2.1	1.4	1.9	2.7	3.0	2.5	2.7	4.5	3.3	2.4	1.4	2.4	2.5	2.5	2.0	4.5	0.8
10	1.9	1.5	1.2	1.2	1.5	1.1	1.0	0.7	0.9	1.9	3.9	2.2	3.8	5.0	4.0	2.3	1.2	2.2	1.9	3.1	2.5	2.6	2.4	3.8	2.2	5.0	0.7
11	3.7	4.5	3.3	4.6	5.7	2.8	3.1	5.3	7.0	7.6	7.0	8.4	9.5	9.3	9.4	10.2	10.4	8.3	7.6	4.7	3.2	3.2	2.7	2.1	6.0	10.4	2.1
12	2.8	2.7	3.6	1.8	1.4	1.1	1.1	0.8	1.7	2.1	3.0	2.5	2.3	1.4	3.4	2.4	2.6	2.5	3.5	2.0	1.4	1.1	1.3	1.0	2.1	3.6	0.8
13	1.0	1.4	1.2	1.1	1.1	1.1	1.1	0.7	0.6	2.0	1.2	2.2	2.1	1.4	2.0	4.1	4.9	3.6	3.2	2.0	1.6	1.8	1.7	1.2	1.8	4.9	0.6
14	0.9	1.6	1.3	1.3	1.7	1.2	0.9	1.9	3.4	4.1	4.3	6.3	7.1	7.6	7.9	7.2	7.4	7.6	5.9	5.0	2.2	2.0	1.9	1.6	3.8	7.9	0.9
15	1.3	1.8	2.5	2.6	1.6	2.2	1.3	2.6	3.5	2.3	2.6	3.0	4.2	4.3	5.4	5.2	3.8	4.7	3.3	1.5	1.6	1.3	1.5	1.0	2.7	5.4	1.0
16	1.9	2.2	1.6	2.1	1.5	1.0	0.8	0.9	2.8	3.7	4.5	4.5	4.5	3.9	4.5	4.8	4.0	4.1	4.5	3.4	0.9	1.9	2.3	1.5	2.8	4.8	0.8
17	1.5	1.5	1.1	0.9	1.3	0.7	0.6	1.2	2.4	2.2	3.7	4.0	4.9	6.9	7.7	7.7	6.7	5.1	4.5	2.8	1.4	1.2	2.3	1.7	3.1	7.7	0.6
18	1.5	1.2	2.0	3.0	2.5	2.1	1.6	4.2	5.9	4.3	4.4	3.2	1.6	2.6	5.0	6.0	6.3	4.8	4.1	3.6	3.4	1.4	3.0	2.2	3.3	6.3	1.2
19	2.6	2.6	1.4	2.5	2.1	1.7	1.2	1.0	1.7	4.7	4.5	3.0	2.5	4.9	3.6	4.9	7.2	7.4	4.8	1.9	1.2	2.2	1.8	2.0	3.1	7.4	1.0
20	1.4	0.8	1.3	1.1	1.4	1.4	2.5	2.6	3.4	3.6	3.1	3.1	4.2	3.1	4.2	3.7	3.2	8.7	7.0	3.0	1.6	2.1	2.1	1.8	2.9	8.7	0.8
21	3.0	1.6	2.7	1.3	0.9	0.9	1.3	1.0	1.4	1.9	2.4	2.3	1.2	2.0	5.4	6.6	2.2	2.5	1.1	0.8	1.0	1.9	2.4	1.8	2.1	6.6	0.8
22	2.0	1.4	1.1	1.5	1.3	0.8	0.4	0.7	1.2	1.8	2.3	3.0	2.8	3.4	3.6	3.3	5.4	5.4	6.7	6.7	5.0	2.5	2.6	2.9	2.8	6.7	0.4
23	2.4	2.7	3.2	2.2	1.9	1.0	0.9	2.1	2.6	2.8	5.3	8.4	8.2	8.7	8.6	5.3	6.3	3.0	1.9	1.5	1.4	2.0	1.6	2.5	3.6	8.7	0.9
24	1.8	1.0	1.5	1.9	1.7	1.8	1.1	0.9	2.9	3.2	4.5	1.8	2.4	4.0	4.8	2.6	2.4	2.9	3.4	2.6	1.2	2.1	2.8	2.5	2.4	4.8	0.9
25	2.2	1.6	1.6	1.9	1.0	1.2	0.6	0.9	0.8	1.3	2.0	2.3	2.2	2.9	3.4	5.4	4.9	6.5	4.7	3.2	2.9	3.5	3.8	1.3	2.6	6.5	0.6
26	1.2	1.2	1.1	1.6	1.2	1.0	0.5	0.5	0.9	1.4	2.1	2.5	3.8	4.3	4.7	4.0	2.0	1.6	4.6	3.6	2.7	1.5	1.6	2.9	2.2	4.7	0.5
27	2.4	3.0	2.4	1.8	1.2	1.3	0.7	1.0	0.9	1.3	3.0	3.7	2.4	2.1	1.2	0.9	3.0	4.5	3.8	2.5	2.9	3.1	2.9	2.2	2.3	4.5	0.7
28	2.2	2.1	0.9	1.0	0.8	1.2	1.2	1.5	1.7	2.7	3.0	3.0	1.5	2.9	2.5	1.1	1.7	1.0	0.8	1.5	3.3	3.2	2.9	2.7	1.9	3.3	0.8
29	2.2	1.4	0.8	1.1	1.1	1.1	0.8	0.7	0.9	2.3	2.7	2.6	3.1	2.6	1.7	1.7	1.2	4.5	2.8	2.4	2.1	3.2	2.8	2.5	2.0	4.5	0.7
30	2.8	2.7	2.0	1.8	1.5	1.4	0.6	0.5	0.4	2.7	3.4	4.2	4.0	3.5	0.2	0.8	0.5	0.2	1.5	2.0	1.4	2.6	2.3	2.3	1.9	4.2	0.2
Avg	2.0	1.8	1.7	1.6	1.5	1.3	1.1	1.5	2.2	2.8	3.3	3.6	3.7	4.0	4.2	4.1	4.0	4.2	3.8	2.7	2.1	2.2	2.3	2.0	2.6	5.8	0.8
Max	3.7	4.5	3.6	4.6	5.7	2.8	3.1	5.3	7.0	7.6	7.0	8.4	9.5	9.3	9.4	10.2	10.4	8.7	7.6	6.7	5.0	3.5	3.8	3.8	6.0	10.4	2.1
Min	0.9	0.8	0.7	0.8	0.7	0.5	0.4	0.5	0.4	0.9	1.0	1.4	1.2	1.4	0.2	0.8	0.2	0.2	0.8	0.8	0.9	0.8	0.8	0.9	1.8	3.3	0.2

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
April 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	168	69	159	175	191	160	167	140	182	160	182	204	195	197	193	206	284	294	273	260	271	273	263	261	206
2	271	262	257	272	271	270	269	280	281	271	283	270	269	271	271	272	283	282	286	264	92	74	72	63	277
3	49	121	93	69	100	116	20	139	93	47	279	301	311	3	46	36	16	41	28	55	73	56	36	343	48
4	3	304	315	283	324	283	352	346	347	11	21	26	28	36	24	12	26	32	34	22	357	289	110	98	3
5	90	51	19	66	34	42	19	148	134	100	111	257	260	260	255	260	250	236	258	266	265	271	268	261	270
6	233	216	207	143	104	102	96	73	126	292	264	267	273	257	269	235	225	222	177	137	113	133	120	101	182
7	112	122	106	87	112	127	135	137	158	328	146	147	153	165	168	164	166	157	174	170	122	87	172	184	143
8	164	155	164	158	193	56	45	170	175	252	264	240	237	270	259	256	266	279	246	270	312	239	255	279	236
9	281	152	122	96	151	137	139	110	69	280	255	267	244	228	218	180	159	160	176	180	94	120	160	150	166
10	96	114	137	206	140	173	144	157	280	131	163	145	150	150	159	178	169	159	186	202	206	209	203	197	167
11	198	193	195	211	185	151	73	174	187	197	224	223	254	223	230	242	251	282	283	265	284	281	301	306	230
12	320	342	191	237	144	298	316	299	326	267	16	344	353	324	320	287	304	292	277	315	294	306	23	60	313
13	337	29	74	60	73	334	292	298	291	318	312	351	344	337	334	296	300	279	286	281	246	164	137	333	322
14	56	35	54	104	113	153	161	266	89	46	350	254	254	257	260	260	299	258	293	304	159	264	108	148	246
15	104	146	139	151	159	179	146	149	114	48	288	271	256	260	251	250	247	231	107	130	126	137	141	136	166
16	135	133	137	125	112	78	128	92	117	139	145	130	164	153	175	165	151	176	196	162	71	110	124	237	139
17	99	88	112	77	65	68	109	134	305	114	103	224	221	207	206	100	220	276	307	316	299	186	93	43	124
18	314	93	127	116	154	135	184	127	149	155	148	245	338	235	60	299	309	267	280	291	313	295	278	267	234
19	257	280	294	294	289	287	290	287	288	288	287	288	285	284	293	292	297	313	310	288	289	285	285	289	289
20	287	285	289	298	297	297	290	293	301	284	281	282	282	287	303	296	319	306	294	274	279	63	71	57	298
21	199	82	75	141	327	81	130	91	106	43	276	255	261	339	10	341	316	357	331	346	336	66	18	88	21
22	77	49	15	77	63	68	97	145	62	99	257	256	257	270	285	284	253	264	146	226	60	152	157	172	135
23	92	78	111	103	89	106	115	137	8	26	19	13	24	22	20	12	29	72	143	114	101	124	142	153	78
24	161	1	64	129	123	137	95	9	40	143	83	54	11	277	221	171	85	313	308	139	73	42	297	295	72
25	319	48	351	282	98	76	216	155	192	264	286	272	267	270	269	268	264	274	267	266	278	249	275	118	267
26	99	45	75	84	43	109	11	32	359	272	261	254	258	268	263	263	266	257	118	176	103	172	278	279	282
27	264	260	266	266	272	265	325	324	327	317	323	322	325	324	326	309	313	299	266	286	107	95	34	31	309
28	106	103	77	73	132	127	135	233	334	21	270	304	297	292	304	334	310	289	286	153	66	80	93	66	29
29	118	58	118	126	92	113	131	28	26	352	270	273	271	274	279	306	316	339	280	98	47	104	154	96	49
30	96	95	85	72	101	141	84	351	356	348	302	271	255	282	338	324	270	66	150	66	74	89	84	124	56
Prev	114	83	108	121	114	118	109	132	41	340	275	270	273	271	275	273	280	279	260	244	45	136	127	117	247

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
May 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	96	95	98	120	144	156	319	334	115	161	154	148	144	143	141	141	139	123	108	77	48	73	97	94	117
2	104	146	157	104	110	90	77	98	340	5	173	171	172	180	164	149	148	147	157	102	77	94	92	71	122
3	76	41	96	89	122	111	172	3	354	322	297	263	261	35	73	52	83	71	66	72	75	80	73	61	63
4	90	72	92	113	96	14	310	172	119	132	132	124	132	137	140	133	123	104	103	101	101	98	90	103	110
5	83	162	161	143	137	81	71	63	127	58	294	335	265	77	32	356	73	67	80	94	87	4	270	109	78
6	93	103	122	139	143	152	141	117	259	233	199	196	260	266	265	253	232	266	262	247	169	149	116	123	187
7	135	118	113	138	106	134	89	20	306	298	201	147	7	263	211	25	113	114	254	72	113	132	141	153	124
8	147	151	177	213	171	109	113	206	192	246	243	243	276	275	271	255	267	243	270	187	79	95	67	119	202
9	355	152	74	139	113	51	118	136	153	166	171	193	198	190	100	22	86	249	267	236	106	93	102	129	134
10	109	57	114	108	153	113	149	183	2	325	346	345	11	350	267	163	153	58	75	36	303	276	42	306	51
11	327	332	331	293	302	303	305	315	314	288	325	299	318	307	334	52	347	43	74	345	121	63	70	150	337
12	31	105	343	16	184	173	136	122	331	8	15	69	16	20	336	12	63	8	47	350	316	113	94	51	38
13	55	283	129	94	134	92	34	227	334	32	47	42	39	65	66	68	69	96	95	92	94	95	92	75	73
14	80	53	306	340	341	6	227	158	152	146	148	145	138	137	135	129	125	120	136	135	140	127	128	134	128
15	133	134	146	154	131	98	111	168	156	136	171	171	198	200	238	217	193	184	169	151	121	88	109	108	153
16	110	123	112	82	88	65	138	345	279	258	259	272	260	280	275	288	305	303	335	279	67	4	19	326	321
17	315	306	310	286	291	291	315	324	312	307	34	17	333	283	303	332	338	288	285	219	59	70	72	61	324
18	54	39	48	108	34	116	149	256	333	328	321	312	307	308	325	319	317	3	339	23	68	103	84	70	11
19	57	114	103	91	96	135	146	359	332	1	277	273	264	253	270	245	285	309	360	69	100	87	80	83	44
20	66	96	81	101	89	103	141	6	352	296	267	260	267	286	299	313	306	301	63	134	99	84	92	113	50
21	74	44	72	111	119	107	117	158	33	153	253	304	296	308	18	159	150	293	28	94	124	38	97	77	85
22	105	80	116	126	68	120	346	135	339	262	264	243	209	205	256	320	313	323	318	303	305	89	300	95	307
23	66	103	92	81	8	120	136	259	144	160	141	154	160	203	208	197	161	137	142	164	158	151	139	151	146
24	130	151	132	89	115	156	334	321	324	334	327	290	295	277	291	312	280	271	107	117	303	159	153	149	269
25	234	165	132	181	110	224	145	154	224	324	322	338	320	290	33	354	341	78	358	82	77	29	324	116	29
26	85	71	50	149	11	354	114	274	338	163	148	152	151	144	149	156	156	150	144	161	154	122	8	317	127
27	222	336	122	211	347	125	130	165	197	302	328	327	304	291	285	303	291	314	298	267	219	245	14	298	282
28	126	153	159	171	182	216	156	205	243	250	260	255	292	254	262	289	298	302	9	71	102	105	86	52	212
29	89	78	126	70	134	154	232	32	281	266	254	282	267	259	268	286	299	290	306	297	91	89	105	121	265
30	105	133	83	104	58	75	149	37	40	279	250	277	254	277	274	242	259	249	197	160	81	108	123	110	148
31	117	126	64	136	96	119	139	284	325	317	274	34	11	80	313	230	101	329	51	135	123	341	39	112	69
Prev	90	101	104	119	106	112	129	172	318	289	258	261	273	261	278	291	234	330	50	108	98	91	84	98	102

Sandfire Resources America Inc.
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Wind Direction (degrees)
June 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	154	112	51	337	102	140	336	324	328	338	284	275	291	307	332	11	31	36	114	187	217	300	48	49	355
2	15	5	161	156	129	272	311	301	300	307	316	318	319	320	293	301	288	301	294	265	297	312	328	343	307
3	337	323	302	329	331	323	308	317	325	315	308	322	333	294	325	307	315	303	298	295	292	291	228	20	313
4	228	178	213	340	343	336	127	70	357	145	176	235	220	174	294	132	144	153	151	146	146	98	97	105	153
5	96	118	6	70	66	56	11	33	346	334	283	270	255	204	148	133	143	144	174	307	265	322	9	89	45
6	141	268	90	125	327	116	130	325	291	323	277	256	283	297	295	286	293	296	317	308	297	147	16	72	301
7	108	91	83	68	78	90	158	187	163	146	269	279	283	76	79	111	30	158	154	90	24	57	74	120	102
8	60	45	57	40	55	25	9	138	316	166	105	60	68	87	79	78	86	100	85	75	61	135	297	73	70
9	60	13	135	296	101	135	109	133	159	157	187	50	241	205	170	209	300	323	24	103	50	98	97	96	117
10	108	106	56	2	30	106	137	146	211	157	76	129	150	166	245	288	1	140	100	170	132	112	100	135	122
11	141	137	161	159	147	124	127	156	151	154	154	150	150	139	149	151	138	143	136	132	140	120	97	91	140
12	91	92	84	21	23	352	326	286	308	57	99	108	253	164	247	310	63	82	150	71	132	62	93	13	60
13	122	102	34	80	150	13	139	2	4	316	269	266	264	196	319	211	195	127	93	121	141	121	133	142	128
14	133	115	149	31	53	121	117	157	266	275	282	257	252	267	271	275	278	281	282	293	290	360	104	62	268
15	23	104	86	88	84	57	36	331	297	312	308	256	287	297	280	318	6	13	346	345	97	35	128	114	9
16	69	43	88	91	132	50	343	144	158	191	197	216	233	251	267	263	253	266	253	230	157	99	69	44	176
17	38	55	11	76	102	48	327	223	278	297	262	265	239	263	261	264	268	274	252	243	233	135	106	142	266
18	114	111	137	129	135	94	141	172	270	264	284	284	180	187	251	273	276	262	271	249	253	101	97	90	196
19	77	90	136	96	84	90	123	20	16	257	285	292	267	247	320	271	287	290	303	303	254	31	91	58	341
20	117	90	123	357	98	52	296	292	283	296	284	276	309	276	251	265	244	295	274	351	121	101	99	89	305
21	74	103	86	120	155	141	62	300	343	297	267	259	160	238	249	292	325	325	234	358	145	81	84	94	87
22	118	120	84	132	129	145	118	77	13	56	140	139	162	184	182	141	137	143	143	145	115	82	72	83	122
23	88	103	97	83	40	128	290	92	149	105	149	148	149	146	148	130	38	125	249	100	314	339	240	279	118
24	260	282	295	333	349	102	18	68	259	281	285	300	316	349	88	80	130	166	217	144	152	116	90	83	12
25	96	120	132	99	152	140	158	194	345	233	254	188	203	178	149	156	141	309	44	99	99	152	144	134	147
26	107	58	30	100	144	106	8	149	294	263	214	251	225	59	24	8	125	177	155	166	164	110	106	101	120
27	70	57	54	43	178	140	35	176	62	206	321	68	93	64	353	244	347	15	155	95	89	139	91	85	79
28	76	55	89	84	53	129	335	295	187	316	340	47	25	67	62	6	107	196	360	26	85	65	59	83	53
29	75	97	130	119	124	122	220	261	329	286	264	254	265	295	259	246	225	80	77	160	112	97	103	86	157
30	73	80	96	111	67	124	76	272	13	265	279	258	273	275	282	294	264	242	168	167	117	99	99	91	139
Prev	91	87	91	72	90	95	56	214	309	272	264	258	248	229	270	267	297	228	192	139	139	88	90	85	99

Sandfire Resources America Inc.
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April 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	72	77	8	13	24	31	64	25	13	18	19	12	12	10	10	17	12	22	29	26	13	9	11	14	23	77	8
2	21	11	11	15	11	10	10	13	11	11	12	11	11	15	17	17	21	11	7	25	31	29	18	37	16	37	7
3	25	38	49	58	64	47	78	19	48	68	70	26	23	24	20	12	24	19	29	22	12	12	45	53	37	78	12
4	60	18	37	39	30	59	39	91	8	8	6	8	9	11	19	11	12	10	7	12	26	59	29	24	26	91	6
5	38	29	97	29	32	72	84	33	67	61	91	14	9	12	12	10	10	11	9	9	8	9	7	7	32	97	7
6	28	28	53	33	34	62	67	63	63	60	11	15	12	11	11	24	13	15	23	38	20	15	16	21	31	67	11
7	17	14	19	15	15	13	14	14	72	97	4	7	12	17	13	14	9	14	13	22	82	49	72	18	27	97	4
8	49	57	10	12	89	58	61	34	27	23	11	20	14	12	12	12	10	11	19	42	71	68	11	27	32	89	10
9	29	88	84	69	55	42	73	73	74	35	10	21	19	17	17	17	8	7	9	41	77	25	26	58	41	88	7
10	50	25	21	99	63	64	48	56	96	50	17	6	11	9	9	9	9	7	22	17	8	6	6	5	30	99	5
11	6	6	5	8	15	6	66	53	13	14	15	12	10	19	14	12	14	15	12	71	20	9	15	19	19	71	5
12	22	24	76	58	95	38	13	22	64	73	49	64	37	9	7	20	14	20	21	21	22	30	62	19	37	95	7
13	41	69	11	12	62	80	36	10	20	13	13	12	14	11	21	43	12	9	12	33	24	67	59	59	31	80	9
14	13	53	61	22	37	90	66	93	60	85	44	6	10	6	6	12	27	7	25	21	65	66	34	79	41	93	6
15	52	49	58	43	46	65	42	81	70	19	34	14	15	14	20	21	19	17	78	21	18	37	22	14	36	81	14
16	14	16	14	14	20	43	42	56	18	5	7	16	31	24	19	13	7	13	6	84	63	71	87	27	30	87	5
17	37	37	33	13	43	76	77	94	45	89	76	28	15	12	25	62	48	25	16	39	28	55	66	42	45	94	12
18	33	85	95	50	34	51	63	36	8	15	26	76	25	45	32	11	17	24	11	9	10	9	9	14	33	95	8
19	11	12	8	9	8	7	8	7	7	6	7	7	6	6	11	9	10	8	8	8	7	11	7	6	8	12	6
20	6	6	8	6	6	7	7	7	9	5	8	11	9	12	11	10	13	10	9	9	45	66	9	37	14	66	5
21	91	83	76	55	75	78	31	56	56	91	29	6	10	35	21	44	46	16	7	25	28	31	68	74	47	91	6
22	53	54	44	20	34	40	43	42	71	79	20	8	13	19	17	23	14	30	49	101	59	87	18	93	43	101	8
23	26	24	19	20	19	20	32	60	55	30	10	14	17	31	46	46	19	33	18	49	19	25	34	24	29	60	10
24	51	65	92	17	20	37	48	51	61	14	26	16	22	91	60	88	77	21	29	57	80	73	87	15	50	92	14
25	67	71	94	72	59	81	84	55	88	9	16	14	10	13	11	13	10	18	12	27	34	26	50	59	41	94	9
26	40	44	62	50	56	27	76	78	50	27	13	17	17	12	12	12	11	20	56	94	78	70	16	9	39	94	9
27	11	8	9	9	9	10	17	10	9	7	7	9	11	11	11	15	11	19	9	96	41	39	47	39	19	96	7
28	16	29	45	50	25	22	29	83	38	25	24	21	19	11	19	7	16	8	22	65	27	17	24	22	28	83	7
29	20	34	19	27	38	27	20	52	31	60	20	20	22	20	16	20	27	11	48	40	52	46	68	25	32	68	11
30	18	20	30	34	34	15	80	55	22	26	41	25	26	56	45	62	54	86	21	48	14	12	16	43	37	86	12
Avg	34	39	42	32	38	43	47	47	42	37	25	18	16	20	19	23	20	18	21	39	36	38	35	33	32	82	8
Max	91	88	97	99	95	90	84	94	96	97	91	76	37	91	60	88	77	86	78	101	82	87	87	93	50	101	14
Min	6	6	5	6	6	6	7	7	7	5	4	6	6	6	6	7	7	7	6	8	7	6	6	5	8	12	4

Sandfire Resources America Inc.
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May 2023

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	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	18	13	25	59	15	42	83	57	71	7	8	8	7	8	9	8	10	13	21	32	18	18	23	23	25	83	7
2	17	22	28	26	35	29	68	64	52	67	14	21	28	37	27	12	7	7	8	69	35	63	33	21	33	69	7
3	22	29	33	26	37	58	44	33	44	32	57	41	40	80	16	9	19	12	14	10	9	14	22	75	32	80	9
4	20	37	89	70	73	53	55	84	25	12	11	13	11	11	10	13	18	14	13	11	15	18	14	20	30	89	10
5	13	19	49	66	15	12	23	21	61	27	84	34	57	23	71	47	14	20	12	34	32	33	80	27	36	84	12
6	21	33	19	15	15	23	25	48	42	24	31	20	34	28	12	16	19	17	13	17	35	33	48	38	26	48	12
7	22	27	42	20	53	49	40	84	41	65	71	51	44	93	57	65	61	55	51	59	25	30	23	21	48	93	20
8	18	20	72	42	89	76	43	78	62	12	15	16	22	32	22	22	28	35	36	92	41	27	20	29	40	92	12
9	85	97	99	56	42	48	24	61	29	20	19	32	22	82	51	100	20	61	14	18	83	26	19	25	47	100	14
10	45	41	32	50	86	40	82	66	54	79	44	52	38	85	63	66	15	28	15	31	77	52	63	57	53	86	15
11	48	41	45	11	14	35	12	9	15	25	10	46	31	20	29	15	32	25	15	46	40	17	36	80	29	80	9
12	73	72	74	98	69	63	41	85	37	18	14	25	27	17	28	35	31	19	36	22	83	63	39	64	47	98	14
13	86	91	90	69	53	98	91	92	33	23	12	14	15	22	16	12	15	22	17	20	18	22	14	16	40	98	12
14	15	34	34	45	99	36	80	10	6	11	9	10	16	12	13	14	14	16	15	17	18	10	11	9	23	99	6
15	12	15	9	7	41	28	34	14	22	25	41	42	32	40	47	35	16	14	23	20	54	19	20	21	26	54	7
16	20	19	24	34	27	50	35	70	54	17	20	24	27	23	20	33	23	42	20	42	94	30	43	19	34	94	17
17	11	9	15	17	11	10	15	15	17	17	96	75	50	29	29	33	13	34	35	45	95	23	12	17	30	96	9
18	26	28	34	75	65	42	44	80	64	10	17	25	25	19	27	41	45	31	19	56	34	34	23	22	37	80	10
19	40	28	34	18	26	17	43	50	47	45	30	28	45	28	28	28	29	46	23	76	25	19	18	15	33	76	15
20	20	18	27	34	59	26	84	74	32	32	19	16	19	26	15	22	20	25	53	27	21	11	56	21	32	84	11
21	48	43	23	34	36	24	23	55	87	26	45	25	28	13	41	39	10	50	69	35	78	48	48	62	41	87	10
22	54	44	22	29	60	59	39	75	32	18	25	30	21	27	38	15	12	11	11	19	54	40	65	41	35	75	11
23	46	39	40	36	29	59	22	90	30	15	14	21	29	27	18	20	29	10	8	24	72	16	22	82	33	90	8
24	30	40	31	40	50	67	48	18	19	15	37	17	22	18	19	27	11	19	76	75	81	65	39	33	37	81	11
25	68	44	72	78	81	58	29	12	75	13	15	23	26	13	53	55	70	21	85	48	43	73	64	63	49	85	12
26	29	25	45	64	26	62	64	73	68	19	20	12	10	10	8	12	7	7	10	38	42	58	65	35	34	73	7
27	75	32	53	54	80	42	54	25	46	22	30	48	29	16	19	33	15	19	9	28	35	82	67	50	40	82	9
28	64	56	27	20	63	86	18	93	21	20	15	21	52	26	23	25	28	55	61	70	39	15	18	39	40	93	15
29	20	50	49	73	26	24	96	61	39	16	17	30	31	24	21	17	15	25	12	72	49	21	18	22	35	96	12
30	29	19	37	51	49	65	24	94	82	29	40	28	25	26	33	26	20	17	28	19	30	34	14	22	35	94	14
31	22	21	38	41	39	29	87	91	70	40	26	92	17	19	77	102	25	61	43	86	50	38	42	47	50	102	17
Avg	36	36	42	44	47	45	47	57	44	26	29	30	28	30	30	32	22	27	28	41	46	34	35	36	36	85	11
Max	86	97	99	98	99	98	96	94	87	79	96	92	57	93	77	102	70	61	85	92	95	82	80	82	53	102	20
Min	11	9	9	7	11	10	12	9	6	7	8	8	7	8	8	8	7	7	8	10	9	10	11	9	23	48	6

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June 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	54	31	31	43	60	42	57	34	85	69	51	25	16	35	21	13	46	25	50	67	53	28	43	43	43	85	13
2	63	64	90	19	41	40	14	14	9	16	9	9	8	15	10	11	9	9	51	34	36	33	13	9	26	90	8
3	5	7	30	14	12	10	19	14	15	12	10	10	9	26	14	9	9	7	9	8	24	16	66	88	18	88	5
4	81	40	57	40	45	93	35	86	74	29	40	51	63	35	85	29	13	9	10	31	18	21	20	19	43	93	9
5	34	69	75	83	63	70	60	50	46	51	54	47	21	29	25	19	16	62	97	49	54	26	67	31	50	97	16
6	35	71	62	84	91	56	56	58	23	12	23	9	22	12	17	21	12	20	8	16	55	80	89	63	41	91	8
7	16	20	37	47	62	68	47	45	31	89	60	25	43	35	15	29	81	58	12	74	78	44	22	29	44	89	12
8	51	57	36	39	40	48	87	75	39	30	48	16	21	24	16	15	18	31	16	36	35	50	80	88	42	88	15
9	43	64	38	54	67	25	36	40	22	31	27	78	73	40	26	40	39	12	73	46	42	26	28	18	41	78	12
10	25	38	45	67	75	65	34	32	100	56	26	88	17	16	36	30	78	15	25	26	24	21	20	50	42	100	15
11	13	12	14	9	9	34	22	8	7	7	7	6	7	8	8	9	9	8	9	10	15	19	22	16	12	34	6
12	13	14	12	60	41	38	24	35	39	71	30	90	63	63	27	87	21	29	21	36	29	41	33	65	41	90	12
13	50	38	70	63	52	62	22	87	60	32	68	49	61	93	65	47	35	25	37	22	11	51	17	45	48	93	11
14	88	43	27	92	39	51	44	65	23	51	16	14	16	20	18	18	17	14	13	11	24	76	58	50	37	92	11
15	80	22	32	31	37	17	28	36	34	63	38	32	24	20	8	32	13	11	23	71	50	56	43	52	36	80	8
16	23	29	35	22	23	71	50	92	70	35	25	35	24	27	23	18	26	18	12	12	94	26	18	35	35	94	12
17	34	35	62	61	41	70	71	90	15	23	17	17	26	18	15	14	18	16	21	19	77	51	23	21	36	90	14
18	17	41	29	8	17	18	42	43	11	13	14	45	43	33	28	16	18	17	14	12	32	57	18	33	26	57	8
19	15	24	20	22	22	45	72	46	94	23	19	30	62	57	27	27	13	12	20	47	83	46	59	38	38	94	12
20	81	76	56	87	34	76	30	17	15	20	40	33	35	52	49	28	42	13	17	71	65	44	66	47	46	87	13
21	17	44	33	17	20	48	77	59	69	44	31	33	83	43	20	14	56	22	67	94	86	46	35	31	45	94	14
22	35	29	62	29	34	79	78	91	62	84	47	31	38	39	27	37	14	12	7	6	26	19	15	11	38	91	6
23	29	22	13	50	44	76	80	75	65	53	12	9	11	9	8	98	20	91	80	66	92	31	77	34	48	98	8
24	100	75	39	70	35	45	59	75	46	18	28	21	38	46	18	25	58	18	87	13	51	24	22	18	43	100	13
25	21	21	25	24	49	36	79	51	87	70	51	34	46	48	36	15	14	41	41	18	21	15	10	31	37	87	10
26	42	38	55	49	67	91	99	82	89	82	60	37	34	93	29	42	39	61	11	8	29	25	25	26	51	99	8
27	30	21	26	34	89	33	102	90	99	63	26	53	50	41	84	78	42	8	51	27	22	31	21	37	48	102	8
28	39	37	60	66	92	24	52	84	27	32	25	32	77	21	14	80	47	42	18	58	18	18	15	21	42	92	14
29	28	42	80	61	38	83	71	89	69	29	34	34	26	42	32	29	70	13	17	22	25	30	25	20	42	89	13
30	19	19	23	19	35	20	90	86	67	33	26	14	20	17	25	26	22	24	24	41	78	23	18	18	33	90	14
Avg	39	38	42	45	46	51	55	58	50	41	32	34	36	35	28	32	31	25	31	35	45	36	36	36	39	88	11
Max	100	76	90	92	92	93	102	92	100	89	68	90	83	93	85	98	81	91	97	94	94	80	89	88	51	102	16
Min	5	7	12	8	9	10	14	8	7	7	7	6	7	8	8	9	9	7	7	6	11	15	10	9	12	34	5

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
April 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	-6.6	-5.4	-2.7	-1.7	-1.2	-1.1	-0.8	-1.0	0.8	1.2	2.1	2.6	2.8	2.6	2.4	2.3	-1.7	-1.5	-1.3	-1.8	-2.7	-3.0	-4.1	-4.6	-1.0	2.8	-6.6
2	-5.2	-5.1	-5.5	-5.5	-5.2	-5.6	-5.7	-5.5	-5.0	-4.5	-4.0	-3.5	-3.2	-2.6	-2.3	-2.4	-2.7	-2.3	-2.9	-5.0	-7.5	-9.4	-11.2	-13.5	-5.2	-2.3	-13.5
3	-13.2	-15.3	-16.4	-17.3	-18.4	-19.2	-19.2	-17.9	-15.5	-12.6	-7.2	-3.3	-2.2	-1.6	-3.1	-3.7	-3.6	-3.3	-4.0	-4.3	-4.4	-4.7	-5.0	-5.7	-9.2	-1.6	-19.2
4	-6.3	-7.1	-7.7	-8.2	-8.6	-9.6	-10.1	-9.3	-8.3	-7.6	-7.3	-6.6	-6.2	-6.0	-5.9	-5.9	-6.2	-7.0	-7.7	-8.7	-9.5	-10.9	-13.0	-15.5	-8.3	-5.9	-15.5
5	-17.2	-17.6	-19.3	-19.9	-20.5	-21.7	-21.8	-21.0	-19.0	-15.4	-8.1	-5.4	-4.4	-3.5	-2.6	-2.4	-3.4	-2.7	-3.1	-3.9	-4.2	-4.1	-4.6	-5.4	-10.5	-2.4	-21.8
6	-6.8	-7.6	-7.7	-8.6	-10.8	-12.4	-12.7	-12.6	-10.7	-4.1	-1.3	-0.2	0.7	1.5	2.3	3.0	3.4	3.5	2.1	-0.6	-2.5	-3.3	-4.6	-5.2	-4.0	3.5	-12.7
7	-6.4	-8.0	-7.1	-6.6	-8.3	-8.9	-9.1	-7.8	-5.9	-1.2	4.4	5.1	6.0	7.0	7.0	7.6	7.6	6.7	6.0	4.8	4.3	2.9	2.4	3.5	0.2	7.6	-9.1
8	2.7	2.0	1.9	1.4	0.4	0.1	-0.1	0.5	2.4	3.6	4.3	4.9	5.7	5.8	6.4	6.8	6.7	6.4	5.7	4.7	4.2	3.5	3.7	3.2	3.6	6.8	-0.1
9	3.0	2.1	0.9	0.4	-1.6	-3.0	-3.9	-2.8	0.4	4.7	5.9	6.6	7.5	8.5	9.4	9.6	9.2	9.3	8.9	6.3	5.7	4.8	3.7	2.8	4.1	9.6	-3.9
10	2.4	0.9	-0.3	-0.6	-0.6	-1.5	-1.5	-0.7	2.0	7.9	10.3	10.2	11.8	11.5	14.0	14.6	14.3	13.6	12.5	11.2	12.7	12.5	11.4	11.0	7.5	14.6	-1.5
11	10.4	10.1	10.0	10.3	10.8	8.3	8.0	9.7	11.1	12.3	14.0	14.4	13.7	14.2	15.0	14.1	12.7	10.3	8.2	6.2	4.1	3.1	1.5	-0.3	9.7	15.0	-0.3
12	-0.5	-1.8	-2.0	-2.0	-1.9	-2.0	-2.1	-2.0	-1.9	-1.8	-1.3	-0.7	0.0	0.3	0.3	0.1	0.3	0.0	-0.2	-0.6	-0.7	-0.9	-1.0	-1.3	-1.0	0.3	-2.1
13	-1.9	-2.0	-1.8	-2.1	-2.6	-3.4	-3.5	-3.3	-2.7	-2.3	-1.1	-0.5	-0.9	-1.1	-1.5	-1.0	-1.0	-2.0	-2.6	-3.6	-4.6	-5.8	-6.4	-6.0	-2.7	-0.5	-6.4
14	-7.2	-7.6	-8.7	-11.3	-13.2	-14.1	-13.5	-11.9	-9.5	-6.6	-4.0	-2.0	-1.4	-1.0	-0.7	-0.5	-0.4	-1.2	-1.8	-2.3	-4.2	-5.1	-6.5	-8.2	-6.0	-0.4	-14.1
15	-8.5	-9.1	-10.0	-10.7	-11.7	-11.9	-12.0	-10.2	-7.6	-3.1	-0.5	0.4	1.0	1.5	2.2	2.9	3.6	3.9	3.2	0.9	-1.3	-1.9	-2.8	-3.5	-3.5	3.9	-12.0
16	-4.5	-4.8	-5.9	-6.3	-6.3	-6.3	-6.2	-3.3	1.9	4.6	5.5	6.6	7.9	9.0	10.1	10.2	10.3	10.9	10.1	8.6	6.9	3.6	3.5	5.3	3.0	10.9	-6.3
17	3.5	2.3	0.3	0.2	-0.9	-2.3	-2.4	-1.5	0.0	3.5	5.5	6.9	7.4	7.8	8.0	7.7	7.8	5.9	3.6	2.6	1.9	1.1	0.8	1.0	2.9	8.0	-2.4
18	-0.4	-0.3	-0.5	-0.4	-1.5	-1.8	-1.9	0.3	2.6	3.8	4.6	4.3	4.5	1.6	1.6	3.1	3.3	1.9	0.3	-0.4	-1.0	-1.2	-1.8	-2.5	0.8	4.6	-2.5
19	-3.6	-3.8	-4.0	-4.2	-4.4	-4.4	-4.5	-4.3	-4.1	-3.9	-3.6	-3.1	-2.7	-2.3	-2.2	-2.2	-2.3	-2.5	-2.9	-3.6	-3.8	-3.7	-4.0	-4.3	-3.5	-2.2	-4.5
20	-4.4	-4.6	-4.7	-5.5	-5.8	-5.9	-5.7	-5.5	-5.1	-4.8	-4.4	-3.9	-3.6	-3.0	-2.6	-2.8	-3.2	-3.9	-4.6	-5.6	-6.4	-8.0	-10.2	-12.2	-5.3	-2.6	-12.2
21	-14.3	-15.4	-15.6	-15.3	-15.1	-13.5	-12.0	-10.3	-8.4	-6.3	-3.3	-2.5	-1.9	-0.7	-0.6	-1.2	-1.8	-2.7	-4.7	-5.8	-6.5	-7.8	-10.0	-11.2	-7.8	-0.6	-15.6
22	-12.4	-13.5	-13.5	-14.0	-15.4	-16.2	-16.3	-14.8	-11.3	-6.1	-2.3	-1.1	0.0	0.8	0.9	1.3	1.6	1.6	1.6	0.7	-0.3	-2.1	-3.3	-4.9	-5.8	1.6	-16.3
23	-5.9	-7.5	-8.5	-9.4	-9.9	-10.5	-10.7	-8.9	-5.6	0.2	2.3	3.2	4.2	5.3	6.3	6.9	7.4	8.1	6.8	5.1	3.8	1.1	-0.3	-1.2	-0.7	8.1	-10.7
24	-1.7	-1.8	-2.5	-3.5	-3.6	-3.1	-1.6	-0.7	1.8	3.6	3.9	5.5	6.9	8.0	9.1	8.5	6.7	4.9	3.9	3.4	2.7	2.1	1.9	2.8	2.4	9.1	-3.6
25	2.5	2.1	1.9	1.7	1.1	0.5	-0.4	0.8	4.0	6.0	6.6	7.1	6.8	7.3	7.3	7.6	7.5	7.4	6.5	5.5	5.0	4.3	2.7	0.2	4.3	7.6	-0.4
26	-1.5	-1.8	-2.7	-3.2	-3.9	-4.5	-4.4	-1.9	1.9	4.6	5.7	6.9	8.0	8.5	8.8	9.1	9.2	8.4	7.7	5.1	4.0	4.5	7.9	8.1	3.5	9.2	-4.5
27	7.8	7.1	6.6	6.5	6.8	6.2	2.9	0.3	-1.0	-1.2	-1.1	-0.9	-0.3	0.8	0.7	0.8	1.9	2.3	1.9	0.5	-1.5	-2.8	-3.4	-3.6	1.6	7.8	-3.6
28	-5.0	-5.7	-6.1	-6.5	-7.4	-7.2	-6.0	-3.1	0.6	5.1	7.1	8.1	9.5	10.8	11.8	12.0	12.5	12.6	12.0	8.7	5.1	3.0	1.5	1.1	3.1	12.6	-7.4
29	-0.7	-1.1	-1.5	-1.7	-2.2	-2.4	-1.1	2.9	7.5	12.4	14.1	15.1	15.7	16.2	16.2	16.3	16.3	16.6	15.3	9.5	6.9	5.8	4.4	4.0	7.7	16.6	-2.4
30	2.9	2.4	0.9	0.0	-1.2	-1.6	-0.6	3.4	8.2	11.8	14.3	15.9	16.7	17.3	17.8	18.4	18.8	18.9	17.0	14.5	12.7	11.4	10.1	9.2	10.0	18.9	-1.6
Avg	-3.3	-3.9	-4.4	-4.8	-5.4	-6.0	-6.0	-4.7	-2.5	0.1	2.0	3.0	3.7	4.1	4.5	4.7	4.5	4.1	3.3	1.7	0.6	-0.4	-1.2	-1.9	-0.3	5.4	-7.8
Max	10.4	10.1	10.0	10.3	10.8	8.3	8.0	9.7	11.1	12.4	14.3	15.9	16.7	17.3	17.8	18.4	18.8	18.9	17.0	14.5	12.7	12.5	11.4	11.0	10.0	18.9	-0.1
Min	-17.2	-17.6	-19.3	-19.9	-20.5	-21.7	-21.8	-21.0	-19.0	-15.4	-8.1	-6.6	-6.2	-6.0	-5.9	-5.9	-6.2	-7.0	-7.7	-8.7	-9.5	-10.9	-13.0	-15.5	-10.5	-5.9	-21.8

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
May 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	7.8	5.4	3.4	2.2	0.8	0.0	1.3	6.4	12.6	14.5	15.8	16.6	17.2	17.7	17.9	17.9	18.0	17.8	16.4	14.7	13.2	13.0	12.2	10.9	11.4	18.0	0.0
2	10.2	9.4	8.2	5.1	2.5	1.3	2.7	7.8	12.3	16.4	18.9	19.9	21.1	21.9	22.1	21.9	21.1	20.1	17.7	15.8	12.0	9.2	7.4	7.0	13.0	22.1	1.3
3	5.7	4.7	3.6	2.9	1.8	1.1	2.3	5.5	10.0	14.7	17.0	17.9	18.2	17.6	14.5	16.4	18.0	18.2	17.6	13.1	10.8	8.5	7.5	6.0	10.6	18.2	1.1
4	5.6	4.9	3.3	3.0	2.6	2.3	5.0	12.3	16.8	17.7	18.6	19.4	19.8	19.3	19.4	20.5	20.2	19.6	18.7	17.3	16.0	14.7	13.9	13.6	13.5	20.5	2.3
5	12.6	10.9	9.9	9.4	8.1	7.8	6.9	7.3	8.0	10.2	12.0	12.5	10.7	8.2	7.7	7.4	6.8	6.0	6.2	5.9	5.6	6.5	5.6	4.3	8.2	12.6	4.3
6	4.0	3.6	2.4	1.4	0.3	0.5	1.6	3.5	5.2	5.1	6.1	7.6	7.9	9.1	8.8	8.6	6.2	7.1	6.3	5.4	3.9	2.9	3.0	3.2	4.7	9.1	0.3
7	1.5	1.1	1.3	0.4	-0.2	-1.1	0.8	4.0	5.6	6.5	6.9	7.9	8.5	9.0	6.8	4.8	5.9	6.6	6.1	5.3	3.9	2.2	1.3	0.0	4.0	9.0	-1.1
8	-1.1	-1.0	-1.2	-0.6	-0.3	0.0	1.0	1.4	2.2	3.2	4.3	5.5	7.1	8.4	9.4	10.2	10.7	10.8	10.6	7.9	4.0	2.0	1.4	-0.2	4.0	10.8	-1.2
9	0.7	1.3	2.7	3.4	2.2	1.4	1.9	4.1	7.0	8.7	9.5	8.9	7.7	4.4	7.0	2.8	4.9	7.0	7.2	6.1	3.7	1.4	-0.1	-1.1	4.3	9.5	-1.1
10	-1.7	-1.8	-2.8	-3.1	-3.5	-3.6	-1.7	2.2	6.2	8.3	9.8	11.0	11.8	12.9	13.2	13.0	12.2	10.7	9.4	7.7	7.1	6.4	6.1	5.8	5.7	13.2	-3.6
11	5.4	5.1	4.0	3.0	3.0	3.2	3.8	4.0	4.8	5.8	6.4	7.2	7.8	8.1	9.0	8.8	7.6	7.1	7.9	6.9	4.8	4.2	2.9	1.6	5.5	9.0	1.6
12	1.3	1.4	1.5	2.2	1.5	0.5	1.6	4.8	8.3	9.1	9.8	10.4	10.5	11.1	11.3	11.2	10.7	11.2	9.8	9.1	7.0	4.7	3.0	2.1	6.4	11.3	0.5
13	1.7	1.6	1.3	1.9	2.2	3.0	3.5	5.0	7.2	8.3	9.3	9.5	10.1	10.9	10.7	10.5	10.0	9.4	8.6	8.2	8.0	7.8	7.7	7.6	6.8	10.9	1.3
14	7.2	7.1	7.2	7.5	7.3	6.9	7.8	8.2	7.7	9.1	9.7	10.7	12.0	12.5	12.3	12.4	11.7	10.6	10.3	9.9	9.7	9.5	9.5	9.5	9.4	12.5	6.9
15	9.2	8.8	8.2	7.7	7.3	6.6	7.7	9.6	10.8	12.8	15.4	16.7	17.8	18.3	19.2	20.0	19.7	19.1	17.8	15.2	12.6	9.8	7.7	5.9	12.7	20.0	5.9
16	4.6	4.0	3.5	3.4	2.9	2.5	4.8	8.7	13.9	15.3	16.3	17.3	18.4	18.4	19.1	19.1	18.6	18.3	13.4	11.3	10.0	9.9	9.9	9.5	11.4	19.1	2.5
17	8.9	8.3	7.8	7.5	7.2	6.8	6.4	6.4	7.0	8.4	10.0	11.4	12.3	12.7	13.2	13.5	13.3	13.0	11.8	10.3	8.1	6.7	6.2	5.3	9.3	13.5	5.3
18	4.1	2.9	1.5	0.7	0.0	-0.6	0.3	3.8	8.6	11.1	12.0	13.0	13.9	14.6	15.3	15.4	15.6	15.3	14.6	12.2	8.3	4.9	2.8	2.2	8.0	15.6	-0.6
19	1.2	0.2	0.0	-0.3	-1.1	-1.9	0.3	4.8	9.8	13.1	15.2	16.7	17.7	19.0	19.7	20.0	20.1	20.3	19.9	15.5	11.3	8.9	7.6	6.5	10.2	20.3	-1.9
20	6.6	5.0	4.2	2.8	2.4	2.7	5.4	9.7	15.1	18.5	19.7	20.4	21.1	21.6	22.0	22.2	22.1	21.9	21.1	17.9	16.0	13.8	11.3	9.3	13.9	22.2	2.4
21	8.9	8.3	7.7	6.5	5.3	5.4	8.0	12.8	17.4	19.8	20.7	21.4	22.0	20.9	21.9	21.8	21.5	18.0	17.1	16.9	14.8	12.2	10.3	8.5	14.5	22.0	5.3
22	7.4	6.6	5.7	4.8	4.4	5.1	6.6	10.8	14.6	15.9	16.6	17.6	18.8	19.9	18.0	13.9	14.2	13.9	13.7	13.0	11.7	10.3	9.0	8.5	11.7	19.9	4.4
23	7.2	5.9	5.0	3.5	2.7	2.1	5.3	9.2	13.2	13.6	15.2	16.2	17.2	17.3	17.0	17.3	17.9	17.1	15.4	13.7	13.1	11.7	11.8	11.2	11.7	17.9	2.1
24	10.9	10.8	10.3	9.5	8.6	8.5	9.1	10.3	11.0	11.8	13.1	14.0	14.8	14.2	14.7	14.8	13.3	11.5	10.8	11.2	10.3	9.7	9.2	9.2	11.3	14.8	8.5
25	8.8	7.7	7.8	7.9	8.1	8.3	8.8	9.7	10.0	9.6	10.9	12.0	13.1	13.2	12.4	11.7	9.4	7.4	7.6	7.5	7.6	7.3	7.1	6.0	9.2	13.2	6.0
26	4.7	4.1	3.5	3.1	2.2	2.3	4.4	7.0	10.5	12.5	12.8	12.6	12.9	13.7	12.5	12.2	12.9	12.1	12.2	11.8	11.1	10.7	10.1	9.5	9.2	13.7	2.2
27	9.0	9.1	9.1	8.5	8.3	8.2	8.5	8.9	9.0	9.0	9.4	10.7	12.3	12.9	13.0	13.6	13.9	13.0	12.2	10.7	10.1	9.0	8.9	8.4	10.2	13.9	8.2
28	8.2	8.2	8.3	7.8	7.3	7.5	8.4	9.6	10.8	11.6	12.7	13.9	11.9	13.8	14.7	15.2	14.7	10.8	11.2	10.8	9.5	7.8	6.5	5.7	10.3	15.2	5.7
29	4.4	3.2	2.5	1.7	1.3	2.4	3.9	8.0	10.7	11.8	12.6	13.6	15.0	15.9	16.6	16.5	16.5	17.2	16.7	15.3	11.1	9.7	7.1	5.7	10.0	17.2	1.3
30	5.1	4.1	3.5	2.8	2.4	2.1	5.4	10.2	14.0	16.0	16.9	17.7	17.7	18.7	19.2	19.3	19.5	19.5	18.1	15.8	13.7	10.8	8.7	6.7	12.0	19.5	2.1
31	5.4	4.9	4.9	4.0	3.5	3.9	6.8	12.1	14.9	16.5	17.1	17.9	16.6	15.5	12.1	11.0	10.8	11.3	11.6	11.7	10.8	9.6	8.6	7.4	10.4	17.9	3.5
Avg	5.7	5.0	4.5	3.9	3.3	3.1	4.5	7.4	10.2	11.8	12.9	13.8	14.3	14.6	14.5	14.3	14.1	13.6	12.8	11.4	9.7	8.3	7.2	6.3	9.5	15.6	2.4
Max	12.6	10.9	10.3	9.5	8.6	8.5	9.1	12.8	17.4	19.8	20.7	21.4	22.0	21.9	22.1	22.2	22.1	21.9	21.1	17.9	16.0	14.7	13.9	13.6	14.5	22.2	8.5
Min	-1.7	-1.8	-2.8	-3.1	-3.5	-3.6	-1.7	1.4	2.2	3.2	4.3	5.5	7.1	4.4	6.8	2.8	4.9	6.0	6.1	5.3	3.7	1.4	-0.1	-1.1	4.0	9.0	-3.6

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-Meter Temperature (Degrees Celsius)
June 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	7.4	7.0	6.4	6.1	5.8	5.3	6.5	9.1	11.6	14.0	15.3	15.8	16.0	16.6	16.8	15.6	13.8	11.6	12.6	11.5	9.9	9.5	9.4	8.6	10.9	16.8	5.3
2	7.6	7.3	7.3	7.7	7.9	8.0	9.0	9.2	9.1	9.5	9.8	10.2	10.1	10.0	9.9	9.8	9.7	9.7	10.0	9.7	10.2	10.2	9.6	9.8	9.2	10.2	7.3
3	9.4	9.3	9.2	9.0	8.9	8.9	9.4	9.6	10.3	10.8	11.0	11.1	10.9	10.8	10.9	10.9	10.6	10.8	10.9	10.7	10.0	9.5	9.2	8.8	10.0	11.1	8.8
4	7.7	7.4	7.5	7.6	7.5	7.5	7.6	9.3	12.6	14.4	15.3	15.9	17.1	17.7	17.9	17.5	17.7	16.2	15.8	14.7	13.3	12.6	11.7	10.9	12.6	17.9	7.4
5	10.6	10.0	9.3	8.5	7.3	7.1	9.7	13.3	15.5	16.7	17.9	19.0	19.7	20.4	20.4	20.2	20.7	19.2	17.3	14.5	13.1	11.6	11.2	10.6	14.3	20.7	7.1
6	10.2	9.9	9.1	8.2	7.0	7.0	9.4	12.8	14.3	14.8	14.7	14.6	16.1	16.5	16.8	17.2	16.4	16.6	15.0	14.2	13.1	11.8	10.8	9.5	12.8	17.2	7.0
7	8.6	8.1	7.6	6.8	6.4	6.6	10.3	14.4	16.5	17.9	19.4	18.8	20.2	19.4	17.6	20.2	21.7	20.9	19.0	17.2	14.9	14.0	13.5	11.8	14.7	21.7	6.4
8	11.5	11.0	10.4	9.7	9.3	8.9	10.4	12.5	15.6	16.6	14.7	15.4	16.1	14.4	14.0	14.4	14.3	13.4	12.9	12.6	12.3	11.8	10.7	10.4	12.6	16.6	8.9
9	10.4	10.1	10.3	10.3	10.3	10.6	11.5	12.7	13.5	14.3	14.9	15.7	16.9	17.9	18.9	19.2	19.1	18.3	18.1	16.1	15.1	13.7	12.9	11.6	14.3	19.2	10.1
10	11.7	10.6	9.0	8.3	8.2	8.3	9.2	11.1	13.6	15.6	12.8	13.5	12.3	13.2	12.7	13.1	14.1	13.9	13.7	13.0	12.3	11.5	12.0	12.1	11.9	15.6	8.2
11	11.9	11.5	11.0	11.3	11.1	11.2	11.6	12.2	13.6	14.5	15.5	16.3	16.7	17.0	17.5	17.5	17.5	17.2	16.0	14.9	13.5	13.3	13.4	13.3	14.1	17.5	11.0
12	12.8	12.0	10.8	7.8	7.0	7.6	10.2	13.3	15.6	16.8	18.0	18.4	18.3	18.9	18.5	18.5	18.5	18.3	16.8	16.3	14.4	12.4	10.2	9.2	14.2	18.9	7.0
13	8.2	6.9	7.2	7.3	6.5	7.2	8.0	10.2	12.9	15.2	16.9	17.7	18.6	19.2	19.5	18.2	15.0	12.8	13.1	12.7	11.6	10.0	9.1	8.3	12.2	19.5	6.5
14	7.1	6.7	7.3	8.3	9.8	9.9	10.3	11.1	9.9	9.9	10.6	11.1	12.2	13.6	14.5	14.8	14.7	14.4	13.9	12.9	10.4	8.5	6.9	6.1	10.6	14.8	6.1
15	5.3	4.4	4.2	3.3	1.5	2.3	5.2	8.1	9.0	9.7	10.2	11.3	11.2	11.4	10.9	10.7	10.7	10.1	9.7	9.3	8.9	8.2	6.4	5.4	7.8	11.4	1.5
16	4.0	3.5	2.5	1.5	0.3	0.4	3.1	7.3	10.6	11.2	12.4	13.2	13.8	14.1	15.2	15.5	15.8	16.2	16.1	14.6	11.1	7.4	6.5	4.9	9.2	16.2	0.3
17	4.6	3.7	3.0	3.6	4.3	4.9	6.0	8.4	9.5	9.6	10.1	10.5	11.6	13.1	14.0	14.6	15.2	15.2	14.6	13.1	12.1	10.8	10.2	9.3	9.7	15.2	3.0
18	8.4	9.4	9.5	10.1	9.6	9.6	10.4	11.6	8.6	7.0	6.7	6.5	7.1	7.7	9.8	10.0	9.4	10.2	10.2	10.1	8.0	5.4	2.7	1.5	8.3	11.6	1.5
19	1.0	0.0	-1.0	-0.8	-1.1	-0.9	1.3	5.4	9.0	10.4	10.8	11.6	13.1	14.0	14.1	14.6	12.8	11.1	10.1	9.5	7.7	6.5	4.5	3.7	7.0	14.6	-1.1
20	2.8	2.9	3.2	3.3	3.5	3.9	4.8	5.7	6.9	8.3	9.0	9.6	10.4	11.1	12.3	12.3	12.4	9.3	5.7	4.0	3.1	1.7	1.8	2.2	6.3	12.4	1.7
21	2.2	1.4	0.7	-0.2	-0.9	-1.0	1.4	4.7	7.2	8.5	9.6	10.1	10.4	10.8	10.4	8.5	7.1	7.1	7.6	7.1	4.3	2.2	1.2	0.0	5.0	10.8	-1.0
22	-0.9	-1.6	-1.9	-2.9	-3.3	-3.0	0.0	5.1	9.1	11.0	12.2	13.0	13.7	14.7	15.1	15.3	15.4	15.5	14.8	13.7	12.2	10.3	10.7	10.3	8.3	15.5	-3.3
23	9.3	8.2	7.1	5.3	5.0	5.1	8.0	11.6	13.1	14.3	15.0	15.7	16.3	16.5	16.0	14.8	10.2	9.6	9.0	8.8	8.6	8.5	8.7	8.5	10.5	16.5	5.0
24	8.6	8.4	8.2	8.3	8.3	7.9	8.7	10.3	11.9	12.7	12.8	12.6	13.5	10.2	12.7	14.4	15.4	15.2	12.6	11.4	9.8	8.1	7.1	6.0	10.6	15.4	6.0
25	4.9	3.8	3.9	3.8	3.7	3.9	6.4	10.4	13.7	15.7	17.2	17.7	18.4	19.1	18.8	18.2	17.2	15.6	15.3	14.0	12.7	11.7	10.6	10.1	12.0	19.1	3.7
26	7.7	6.3	5.1	4.5	3.5	3.6	6.5	10.5	14.0	15.6	16.7	17.0	18.0	17.3	17.1	17.0	16.1	16.5	15.1	13.5	11.8	10.7	10.2	8.6	11.8	18.0	3.5
27	7.7	7.4	6.8	6.4	5.5	5.3	6.3	10.2	14.2	16.2	16.5	15.1	13.2	15.3	17.4	18.0	18.2	16.6	16.5	15.5	13.2	12.3	12.1	11.1	12.4	18.2	5.3
28	10.2	9.7	9.1	8.7	8.6	8.6	9.9	12.1	12.6	12.7	11.1	10.3	10.5	11.3	12.3	13.5	14.0	15.1	14.8	13.6	11.0	9.6	9.0	7.4	11.1	15.1	7.4
29	6.5	5.3	4.1	3.6	3.0	3.6	5.9	9.6	14.1	16.4	17.4	18.2	19.0	19.8	20.5	21.0	21.1	19.3	19.4	18.7	15.5	12.5	11.0	9.9	13.1	21.1	3.0
30	9.6	8.9	7.4	6.6	6.3	6.1	9.1	13.0	17.3	19.1	20.2	20.9	21.6	21.9	22.8	22.9	23.3	23.3	22.3	20.4	17.2	14.2	11.7	10.6	15.7	23.3	6.1
Avg	7.6	7.0	6.5	6.1	5.7	5.8	7.5	10.2	12.2	13.3	13.8	14.2	14.8	15.1	15.5	15.6	15.3	14.6	14.0	12.9	11.4	10.0	9.2	8.3	11.1	16.4	5.0
Max	12.8	12.0	11.0	11.3	11.1	11.2	11.6	14.4	17.3	19.1	20.2	20.9	21.6	21.9	22.8	22.9	23.3	23.3	22.3	20.4	17.2	14.2	13.5	13.3	15.7	23.3	11.0
Min	-0.9	-1.6	-1.9	-2.9	-3.3	-3.0	0.0	4.7	6.9	7.0	6.7	6.5	7.1	7.7	9.8	8.5	7.1	7.1	5.7	4.0	3.1	1.7	1.2	0.0	5.0	10.2	-3.3

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
April 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	-7.5	-6.4	-3.1	-2.1	-1.8	-1.5	-1.2	-1.7	0.3	0.8	1.8	2.3	2.5	2.4	2.2	2.1	-1.7	-1.5	-1.4	-2.3	-3.3	-3.3	-4.6	-4.8	-1.4	2.5	-7.5
2	-5.7	-5.3	-5.7	-5.6	-5.3	-5.8	-5.8	-5.6	-5.1	-4.7	-4.1	-3.7	-3.5	-2.8	-2.5	-2.5	-2.9	-2.7	-3.7	-6.3	-8.6	-10.2	-11.5	-14.7	-5.6	-2.5	-14.7
3	-13.8	-16.5	-18.2	-18.8	-19.4	-20.6	-20.7	-20.0	-17.2	-13.3	-8.2	-3.2	-1.7	-1.3	-3.0	-3.6	-3.6	-3.4	-4.6	-4.7	-4.5	-4.8	-5.1	-6.0	-9.8	-1.3	-20.7
4	-6.8	-7.3	-8.2	-8.5	-9.2	-10.3	-10.7	-9.8	-8.2	-7.5	-7.2	-6.5	-6.0	-5.9	-5.7	-5.8	-6.1	-7.1	-8.1	-9.3	-10.0	-11.7	-14.0	-16.4	-8.6	-5.7	-16.4
5	-17.7	-18.2	-20.2	-20.8	-21.3	-23.1	-23.0	-22.6	-20.3	-17.0	-9.8	-5.3	-4.5	-3.6	-2.8	-2.7	-3.5	-3.0	-3.4	-4.4	-4.7	-4.5	-5.0	-6.6	-11.2	-2.7	-23.1
6	-7.9	-9.0	-9.1	-10.5	-12.5	-13.6	-13.7	-13.4	-12.0	-4.3	-1.6	-0.5	0.6	1.3	2.1	2.7	2.9	2.4	0.2	-1.9	-3.5	-5.4	-6.9	-6.6	-5.0	2.9	-13.7
7	-8.1	-10.3	-8.8	-7.2	-9.5	-10.5	-11.6	-10.2	-7.6	-2.0	3.2	3.8	4.7	6.0	5.9	6.4	6.4	5.4	5.0	3.9	3.5	1.8	1.5	2.8	-1.1	6.4	-11.6
8	1.9	0.9	0.7	0.3	-0.2	-0.5	-0.5	0.0	1.9	3.4	3.9	4.3	5.1	5.1	5.6	5.9	5.9	5.7	4.8	3.7	3.4	2.4	2.6	1.9	2.8	5.9	-0.5
9	2.1	0.7	-0.5	-1.1	-3.0	-4.0	-5.0	-3.9	-1.0	4.4	5.1	5.9	6.6	7.2	8.1	8.1	7.0	7.0	7.0	4.5	4.8	3.8	3.0	1.4	2.8	8.1	-5.0
10	1.1	0.0	-1.6	-1.9	-1.8	-2.5	-2.8	-2.0	0.9	6.5	7.9	7.0	8.3	8.7	10.7	12.1	11.4	10.1	10.0	8.8	10.2	10.4	9.9	9.7	5.5	12.1	-2.8
11	8.9	8.6	8.2	8.3	9.3	6.4	6.8	8.6	9.8	10.7	12.4	12.8	11.8	12.4	13.3	12.6	11.2	8.8	6.9	5.3	3.6	2.8	1.3	-0.3	8.4	13.3	-0.3
12	-0.5	-1.7	-2.1	-2.1	-2.0	-2.1	-2.1	-1.9	-1.6	-1.5	-1.0	-0.2	0.2	0.4	0.4	0.2	0.4	0.0	-0.3	-0.6	-0.7	-1.0	-1.0	-1.3	-0.9	0.4	-2.1
13	-2.1	-2.1	-1.8	-2.1	-2.6	-3.4	-3.5	-3.2	-2.7	-2.2	-0.8	-0.5	-0.9	-1.0	-1.3	-0.9	-1.0	-2.0	-2.8	-3.9	-5.1	-6.7	-6.7	-6.1	-2.7	-0.5	-6.7
14	-7.1	-7.6	-8.9	-12.1	-14.5	-15.5	-14.0	-11.8	-9.4	-6.3	-2.9	-1.8	-1.2	-0.9	-0.6	-0.4	-0.1	-1.4	-2.0	-3.0	-4.9	-5.6	-7.4	-8.9	-6.2	-0.1	-15.5
15	-9.0	-10.0	-11.2	-12.0	-12.5	-13.1	-12.7	-10.4	-7.7	-2.9	-0.2	0.5	1.1	1.5	2.2	2.8	3.4	3.6	2.8	0.0	-2.3	-2.7	-3.7	-4.4	-4.0	3.6	-13.1
16	-5.6	-6.4	-7.0	-7.3	-7.3	-7.0	-7.0	-4.3	1.4	4.3	5.1	6.3	7.5	8.5	9.3	9.2	8.9	10.0	9.0	7.2	5.4	2.6	2.6	4.7	2.1	10.0	-7.3
17	3.2	1.9	-0.3	-0.9	-1.5	-3.0	-2.9	-1.6	0.0	3.7	5.6	6.4	6.9	7.3	7.5	7.3	7.0	5.3	3.2	2.3	1.6	0.8	0.7	0.9	2.6	7.5	-3.0
18	-0.4	-0.3	-0.5	-0.7	-2.4	-2.7	-2.8	0.1	2.4	3.7	4.5	4.1	4.6	1.6	1.7	3.5	3.2	1.7	0.3	-0.4	-1.0	-1.3	-1.8	-2.4	0.6	4.6	-2.8
19	-3.6	-3.8	-4.0	-4.2	-4.3	-4.4	-4.4	-4.3	-4.1	-4.0	-3.7	-3.2	-2.8	-2.4	-2.2	-2.1	-2.2	-2.5	-3.0	-3.6	-3.8	-3.7	-4.0	-4.3	-3.5	-2.1	-4.4
20	-4.5	-4.6	-4.8	-5.6	-5.9	-5.9	-5.7	-5.4	-5.0	-4.8	-4.4	-3.9	-3.5	-3.0	-2.5	-2.8	-3.2	-3.9	-4.9	-6.0	-6.9	-8.8	-10.9	-13.1	-5.4	-2.5	-13.1
21	-14.9	-16.3	-16.7	-16.5	-15.8	-13.8	-12.0	-10.2	-8.2	-6.0	-3.1	-2.5	-1.9	-0.3	-0.5	-1.0	-1.7	-2.7	-4.7	-6.1	-7.2	-8.5	-10.4	-11.7	-8.0	-0.3	-16.7
22	-12.9	-13.9	-14.0	-14.6	-16.2	-16.8	-16.9	-14.9	-10.9	-6.3	-2.1	-1.0	0.1	0.9	1.3	1.7	1.6	1.7	1.5	0.2	-0.6	-2.5	-4.2	-5.7	-6.0	1.7	-16.9
23	-6.9	-8.5	-10.0	-10.4	-10.8	-11.8	-11.5	-8.9	-4.9	0.3	2.8	3.7	4.6	5.6	6.4	6.9	7.2	8.0	5.6	4.6	3.3	0.3	-1.2	-2.3	-1.2	8.0	-11.8
24	-3.1	-2.8	-3.7	-4.7	-4.9	-4.3	-1.8	-0.7	1.6	3.4	4.0	5.7	7.3	8.3	9.5	8.3	6.4	4.5	3.5	2.8	2.2	1.5	1.5	2.4	2.0	9.5	-4.9
25	2.2	1.8	1.4	1.0	0.2	-0.2	-1.1	0.7	4.4	6.0	6.5	6.9	6.7	7.3	7.4	7.8	7.4	7.3	6.2	4.8	4.3	3.6	1.9	-0.9	3.9	7.8	-1.1
26	-2.3	-2.3	-3.5	-4.0	-4.7	-5.5	-4.5	-1.4	2.4	5.0	6.2	7.4	8.4	8.7	8.8	9.1	8.9	8.0	7.0	4.2	3.2	3.3	6.8	7.4	3.2	9.1	-5.5
27	7.1	6.5	6.1	6.0	6.4	5.8	2.6	0.3	-0.9	-1.0	-0.9	-0.7	0.1	1.3	0.9	1.2	2.3	2.8	2.0	0.1	-1.7	-3.5	-3.9	-4.1	1.4	7.1	-4.1
28	-6.4	-6.7	-6.9	-7.3	-8.3	-7.9	-5.9	-2.4	1.4	5.5	7.7	8.8	10.5	11.8	12.5	11.8	12.4	12.7	11.9	7.4	4.7	2.6	0.6	0.4	3.0	12.7	-8.3
29	-2.2	-2.3	-3.0	-3.0	-3.2	-3.6	-1.3	3.7	7.9	13.0	15.0	16.1	16.7	17.2	17.2	16.9	16.8	16.9	15.2	9.0	6.4	4.3	2.7	2.5	7.5	17.2	-3.6
30	1.1	0.9	-0.8	-1.2	-2.4	-3.0	-0.6	4.1	9.1	12.7	15.1	17.0	17.6	18.1	18.7	19.2	19.5	19.3	16.9	14.0	12.2	10.7	9.4	8.5	9.8	19.5	-3.0
Avg	-4.0	-4.7	-5.3	-5.7	-6.2	-6.8	-6.5	-5.1	-2.8	-0.0	1.9	2.9	3.5	4.0	4.4	4.5	4.1	3.7	2.7	1.0	-0.0	-1.1	-1.9	-2.6	-0.8	5.1	-8.7
Max	8.9	8.6	8.2	8.3	9.3	6.4	6.8	8.6	9.8	13.0	15.1	17.0	17.6	18.1	18.7	19.2	19.5	19.3	16.9	14.0	12.2	10.7	9.9	9.7	9.8	19.5	-0.3
Min	-17.7	-18.2	-20.2	-20.8	-21.3	-23.1	-23.0	-22.6	-20.3	-17.0	-9.8	-6.5	-6.0	-5.9	-5.7	-5.8	-6.1	-7.1	-8.1	-9.3	-10.0	-11.7	-14.0	-16.4	-11.2	-5.7	-23.1

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
May 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	4.5	2.8	1.3	-0.9	-1.3	1.4	7.2	13.1	15.1	16.6	17.5	18.2	18.7	18.9	18.7	18.6	18.1	16.3	14.3	12.7	12.5	11.6	10.2	11.4	18.9	-1.3
2	9.4	8.5	6.6	3.8	1.9	0.1	2.8	8.2	13.0	17.0	19.5	20.5	21.7	22.5	22.8	22.4	21.5	20.3	17.5	15.2	11.6	8.8	6.9	6.6	12.9	22.8	0.1
3	5.1	4.0	2.8	1.7	0.8	0.1	2.2	5.9	10.7	15.5	17.7	18.8	18.9	17.9	14.5	16.8	18.4	18.5	17.4	12.9	10.2	8.3	7.2	5.0	10.5	18.9	0.1
4	4.5	3.7	2.1	1.8	1.0	1.2	4.6	12.5	17.3	18.5	19.5	20.5	20.9	19.8	19.7	21.1	20.6	19.7	18.6	16.8	15.7	14.5	13.7	13.3	13.4	21.1	1.0
5	12.3	10.3	8.9	8.5	7.4	7.6	6.9	7.2	8.1	10.6	12.6	13.1	10.4	8.1	7.8	7.5	6.9	6.0	6.1	5.9	5.6	6.2	5.2	4.3	8.1	13.1	4.3
6	4.0	3.5	2.0	0.9	0.0	0.2	1.5	3.6	5.3	5.3	6.4	8.0	8.6	10.0	9.7	9.3	6.4	7.5	6.4	5.1	3.1	2.4	2.2	2.3	4.7	10.0	0.0
7	1.0	0.7	0.7	-0.2	-0.5	-1.7	1.0	4.5	6.2	7.0	7.3	8.4	9.1	9.5	6.9	4.9	6.1	6.7	6.2	5.1	3.7	1.8	0.8	-0.5	3.9	9.5	-1.7
8	-1.9	-2.4	-2.7	-1.2	-1.0	-0.1	0.9	1.6	2.4	3.5	4.6	6.0	8.0	9.3	10.3	11.1	11.5	11.4	10.8	7.3	3.6	1.6	1.1	-1.3	3.9	11.5	-2.7
9	0.3	1.0	2.3	3.1	2.1	1.3	2.1	4.4	7.4	9.2	9.9	9.1	8.0	4.7	7.5	2.9	5.3	7.5	7.5	4.9	2.4	1.1	-0.4	-1.8	4.2	9.9	-1.8
10	-2.6	-2.6	-4.0	-4.2	-4.3	-4.6	-1.5	2.4	6.9	9.0	10.7	11.9	12.7	13.6	13.7	13.3	12.4	10.8	9.4	7.6	6.9	6.3	6.0	5.7	5.6	13.7	-4.6
11	5.4	5.1	4.0	3.1	3.0	3.3	3.9	4.2	5.1	6.1	6.7	7.6	8.4	8.9	9.8	9.3	7.8	7.2	8.1	6.7	4.4	3.9	2.7	1.2	5.7	9.8	1.2
12	0.8	1.1	1.4	1.9	1.1	0.1	1.7	5.2	8.6	9.4	10.3	10.9	11.1	11.8	12.1	11.9	11.3	11.7	10.1	8.7	6.0	3.5	2.1	1.4	6.4	12.1	0.1
13	1.1	1.1	0.2	1.4	2.1	2.6	3.6	5.1	7.4	8.6	9.9	10.2	10.7	11.3	11.0	10.8	10.2	9.6	8.7	8.2	7.9	7.8	7.7	7.6	6.9	11.3	0.2
14	7.2	7.0	7.0	7.3	7.0	6.6	7.8	8.3	8.0	9.6	10.4	11.6	13.1	13.5	13.1	13.2	12.0	10.8	10.4	9.9	9.7	9.5	9.5	9.5	9.7	13.5	6.6
15	9.1	8.5	8.0	7.4	6.9	6.3	7.8	9.9	11.3	13.3	16.0	17.3	18.3	18.8	19.7	20.7	20.1	19.3	17.8	14.6	11.8	9.6	7.0	4.9	12.7	20.7	4.9
16	3.6	2.7	2.5	2.6	1.9	2.0	5.0	9.3	14.5	16.1	17.2	18.3	19.4	19.1	20.2	19.7	18.9	18.3	13.1	11.1	9.9	9.7	9.6	9.3	11.4	20.2	1.9
17	8.7	8.1	7.7	7.5	7.1	6.6	6.3	6.5	7.2	8.9	10.5	12.0	13.0	13.4	14.0	14.1	13.8	13.2	11.6	9.8	7.6	6.4	6.1	5.1	9.4	14.1	5.1
18	3.8	2.2	1.0	0.0	-0.8	-1.4	0.2	4.3	9.3	11.9	13.0	14.0	15.0	15.7	16.3	16.3	16.3	15.8	15.0	11.5	7.3	3.9	1.9	1.4	8.1	16.3	-1.4
19	0.5	-1.2	-1.2	-1.7	-2.5	-2.9	0.4	5.4	10.5	13.9	16.1	17.5	18.5	19.8	20.5	20.6	20.8	20.8	19.8	14.3	10.7	8.3	7.0	5.2	10.0	20.8	-2.9
20	6.1	3.6	2.4	1.7	1.3	1.6	5.7	10.3	15.8	19.3	20.5	21.3	22.0	22.6	23.0	23.1	22.8	22.4	20.9	17.4	15.3	13.2	10.8	8.1	13.8	23.1	1.3
21	8.5	8.0	7.1	5.7	4.4	4.2	8.0	12.9	18.0	20.2	21.2	22.3	22.8	21.1	22.6	22.3	21.8	17.8	17.0	16.6	13.8	11.5	9.1	7.4	14.3	22.8	4.2
22	6.6	5.5	4.7	3.5	3.3	4.5	6.9	11.2	15.3	16.7	17.2	18.2	19.5	20.6	18.5	14.3	14.5	14.0	13.6	12.6	11.0	9.6	8.5	7.8	11.6	20.6	3.3
23	6.8	5.1	4.3	2.7	1.9	1.4	5.4	9.7	13.6	13.9	16.0	16.9	17.9	17.8	17.5	17.9	18.5	17.6	15.5	13.4	12.8	11.4	11.5	10.9	11.7	18.5	1.4
24	10.3	10.2	9.7	9.3	8.4	8.4	9.3	10.6	11.6	12.5	14.0	15.0	16.0	14.9	15.5	15.3	13.5	11.6	10.9	11.2	10.1	9.5	9.2	9.2	11.5	16.0	8.4
25	8.7	7.3	7.8	7.9	8.1	8.4	8.9	9.9	10.3	10.2	11.7	12.6	13.7	13.8	12.6	12.1	9.3	7.4	7.5	7.6	7.5	7.2	6.8	5.5	9.3	13.8	5.5
26	4.5	4.0	3.4	3.1	2.1	2.4	4.8	7.4	11.3	12.8	13.2	13.1	13.4	14.5	12.7	12.4	13.1	12.2	12.4	11.8	10.9	10.6	9.9	9.3	9.4	14.5	2.1
27	8.9	9.1	9.1	8.5	8.3	8.3	8.6	9.0	9.1	9.2	9.9	11.5	13.3	13.9	13.6	14.4	14.7	13.7	12.4	10.8	10.0	8.9	9.0	8.2	10.5	14.7	8.2
28	8.2	8.3	8.3	7.7	7.3	7.6	8.5	9.8	11.0	12.1	13.5	14.7	12.1	14.3	15.4	16.0	15.1	10.6	11.3	10.9	9.2	7.7	6.4	5.5	10.5	16.0	5.5
29	4.0	2.5	2.2	1.3	1.1	2.5	4.1	8.6	11.1	12.4	13.1	14.3	15.8	16.8	17.5	17.1	17.3	17.8	16.7	15.0	10.6	9.5	6.5	4.9	10.1	17.8	1.1
30	4.2	3.1	2.6	1.9	1.5	1.6	5.6	10.8	14.6	16.7	17.5	18.5	18.0	19.4	20.1	20.0	20.0	19.8	18.1	15.2	13.0	10.0	7.5	6.0	11.9	20.1	1.5
31	4.6	3.8	3.9	2.9	2.5	3.1	7.2	12.6	15.5	17.3	17.5	18.4	17.0	15.5	11.8	10.9	10.8	11.4	11.7	11.6	10.6	9.2	8.2	7.2	10.2	18.4	2.5
Avg	5.2	4.4	3.8	3.3	2.7	2.6	4.6	7.7	10.6	12.3	13.6	14.5	15.0	15.2	15.1	14.9	14.5	13.9	12.9	11.1	9.2	7.9	6.8	5.8	9.5	16.3	1.7
Max	12.3	10.3	9.7	9.3	8.4	8.4	9.3	12.9	18.0	20.2	21.2	22.3	22.8	22.6	23.0	23.1	22.8	22.4	20.9	17.4	15.7	14.5	13.7	13.3	14.3	23.1	8.4
Min	-2.6	-2.6	-4.0	-4.2	-4.3	-4.6	-1.5	1.6	2.4	3.5	4.6	6.0	8.0	4.7	6.9	2.9	5.3	6.0	6.1	4.9	2.4	1.1	-0.4	-1.8	3.9	9.5	-4.6

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
2-Meter Temperature (Degrees Celsius)
June 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	7.1	6.7	6.3	5.9	5.4	5.0	6.7	9.6	12.1	14.5	15.9	16.6	17.1	17.5	17.8	15.8	13.7	11.4	12.6	11.5	9.8	9.2	9.3	8.2	11.1	17.8	5.0
2	7.2	6.9	7.2	7.7	8.0	8.1	9.0	9.3	9.3	9.7	10.1	10.4	10.4	10.1	10.0	9.9	9.8	9.7	9.9	9.7	10.1	10.1	9.5	9.6	9.2	10.4	6.9
3	9.2	9.1	9.1	9.0	8.8	9.0	9.4	9.9	10.6	11.0	11.3	11.3	11.0	10.9	11.2	11.0	10.8	11.0	11.2	10.7	9.9	9.4	9.1	8.7	10.1	11.3	8.7
4	7.5	7.4	7.6	7.6	7.6	7.6	7.7	9.9	13.5	15.0	15.8	16.4	17.6	18.1	18.3	17.7	18.1	16.3	15.9	14.6	13.0	12.3	11.5	10.4	12.8	18.3	7.4
5	10.3	9.4	8.6	7.8	6.5	6.7	10.2	13.9	16.2	17.4	18.6	19.6	20.3	20.9	20.7	20.3	20.7	19.0	16.9	14.2	12.6	11.2	10.8	10.4	14.3	20.9	6.5
6	10.1	9.5	8.5	7.7	6.5	6.6	9.6	13.4	14.9	15.6	15.6	15.6	17.2	17.7	17.9	18.0	17.0	16.9	15.3	14.3	12.6	11.4	10.1	8.8	13.0	18.0	6.5
7	7.6	7.6	7.0	6.0	5.4	6.5	10.5	14.7	16.8	18.4	20.1	19.5	21.0	19.7	17.9	20.6	22.2	21.1	19.0	17.1	14.7	13.9	13.3	11.4	14.7	22.2	5.4
8	11.1	10.5	9.8	8.9	8.8	8.6	10.7	12.9	16.3	16.8	14.7	15.6	16.4	14.6	14.2	14.6	14.3	13.4	13.0	12.6	12.2	11.5	10.4	10.3	12.6	16.8	8.6
9	10.4	10.1	10.3	10.3	10.2	10.6	11.6	12.8	13.7	14.5	15.2	16.2	17.4	18.3	19.3	19.6	19.8	18.9	18.5	16.0	14.9	13.2	12.4	11.3	14.4	19.8	10.1
10	11.0	10.1	8.5	7.7	7.6	7.9	9.3	11.2	14.1	15.9	12.8	13.6	12.3	13.4	12.9	13.8	14.7	14.0	13.7	12.7	11.9	10.7	11.3	11.8	11.8	15.9	7.6
11	11.7	11.1	10.6	11.1	10.9	11.2	11.5	12.4	14.0	15.0	16.1	17.0	17.4	17.8	18.1	18.1	17.9	17.6	16.0	14.7	12.8	12.4	12.7	12.9	14.2	18.1	10.6
12	12.1	11.1	10.0	7.3	6.6	7.7	10.9	14.1	16.3	17.3	18.6	18.9	18.6	19.1	19.0	18.6	18.5	18.3	16.6	16.0	13.8	11.8	9.7	8.6	14.1	19.1	6.6
13	7.6	6.3	6.7	6.9	6.0	7.2	8.2	10.6	13.3	16.1	17.6	18.3	19.2	19.6	20.0	18.2	14.8	12.7	13.2	12.7	11.3	9.2	8.4	7.5	12.1	20.0	6.0
14	6.3	6.0	7.1	8.3	9.6	9.8	10.4	11.1	10.0	10.0	10.8	11.5	12.9	14.3	15.2	15.5	15.3	14.7	14.1	12.7	9.4	7.5	6.4	5.9	10.6	15.5	5.9
15	5.1	4.2	3.9	3.1	1.2	2.5	5.8	8.7	9.7	10.3	11.0	12.1	11.7	12.2	11.4	11.0	11.0	10.2	9.7	9.3	8.8	7.7	6.0	5.1	8.0	12.2	1.2
16	3.7	3.1	1.7	1.0	-0.3	0.3	3.7	7.8	11.1	11.6	12.9	13.7	14.2	14.6	16.1	16.0	16.3	16.6	16.1	13.4	10.0	6.6	5.9	4.1	9.2	16.6	-0.3
17	4.2	3.0	2.5	3.4	4.3	5.0	6.2	8.7	9.7	10.0	10.5	10.8	12.0	13.7	14.4	15.2	15.8	15.6	14.5	12.9	11.8	10.1	9.9	8.4	9.7	15.8	2.5
18	7.9	8.8	9.2	9.8	9.5	9.6	10.5	11.6	8.7	7.2	7.0	6.8	7.3	8.1	10.6	10.5	10.1	10.8	10.1	9.7	6.4	4.7	2.3	1.1	8.3	11.6	1.1
19	0.9	-0.2	-1.6	-1.2	-1.5	-1.1	1.7	6.1	9.7	11.1	11.6	12.4	13.8	14.7	15.0	15.5	13.4	11.8	10.6	9.3	7.0	5.8	4.3	3.4	7.2	15.5	-1.6
20	2.7	2.8	3.1	3.3	3.3	3.9	5.3	6.5	7.7	9.4	10.0	10.4	11.3	11.6	13.2	13.1	12.8	9.2	5.6	3.9	2.8	1.6	1.7	2.3	6.6	13.2	1.6
21	2.3	1.3	0.5	-0.5	-1.2	-1.2	1.8	5.3	7.9	9.3	10.3	10.5	10.7	11.1	10.5	8.8	7.3	7.4	7.9	6.8	3.4	1.6	0.9	-0.4	5.1	11.1	-1.2
22	-1.7	-2.6	-2.8	-4.2	-4.5	-3.5	0.4	5.7	10.0	11.7	12.8	13.7	14.3	15.4	15.8	15.8	16.0	15.9	15.0	13.5	11.7	9.9	10.2	9.8	8.3	16.0	-4.5
23	8.6	7.0	5.6	4.4	4.4	4.8	8.2	11.8	13.6	14.6	15.5	16.5	17.2	17.4	16.7	15.0	9.5	9.2	9.0	8.8	8.5	8.5	8.7	8.5	10.5	17.4	4.4
24	8.5	8.1	8.0	8.2	8.1	8.0	9.0	10.7	12.6	13.3	13.4	13.0	13.9	10.3	13.3	14.9	15.9	15.2	12.4	11.4	9.4	7.6	6.7	5.8	10.7	15.9	5.8
25	4.3	3.1	3.2	3.3	2.8	3.5	6.7	10.7	14.5	16.3	17.8	18.3	18.7	19.4	18.9	18.0	17.4	16.1	15.4	13.7	12.4	11.2	10.0	9.4	11.9	19.4	2.8
26	7.0	5.6	4.4	3.5	2.5	3.5	7.0	11.1	14.7	16.3	17.1	17.1	18.4	17.8	17.7	17.3	16.0	16.8	15.2	13.4	11.1	10.3	9.8	8.3	11.7	18.4	2.5
27	7.4	7.2	6.4	5.9	4.9	4.6	6.5	10.7	14.8	16.7	17.3	15.2	13.3	15.9	17.7	18.5	18.4	16.4	16.4	15.1	12.6	12.0	11.8	10.9	12.4	18.5	4.6
28	9.9	9.4	8.8	8.4	8.4	8.6	10.2	12.5	12.9	12.7	10.9	10.2	10.6	11.5	12.6	14.0	14.3	15.4	14.9	13.6	10.7	9.4	8.7	7.0	11.1	15.4	7.0
29	6.0	4.3	3.2	2.8	2.3	3.3	6.2	10.3	15.0	17.1	18.0	18.9	19.7	20.7	21.1	21.6	21.5	19.6	19.5	18.1	14.9	12.2	10.7	9.3	13.2	21.6	2.3
30	9.3	8.0	6.2	4.9	5.0	5.5	9.6	13.7	18.0	19.7	21.0	21.6	22.4	22.4	23.6	23.4	23.7	23.6	22.2	19.7	16.0	13.3	10.8	9.5	15.5	23.7	4.9
Avg	7.2	6.5	6.0	5.6	5.2	5.7	7.8	10.6	12.7	13.8	14.3	14.7	15.3	15.6	16.0	16.0	15.6	14.8	14.0	12.7	10.9	9.5	8.8	7.9	11.1	16.9	4.5
Max	12.1	11.1	10.6	11.1	10.9	11.2	11.6	14.7	18.0	19.7	21.0	21.6	22.4	22.4	23.6	23.4	23.7	23.6	22.2	19.7	16.0	13.9	13.3	12.9	15.5	23.7	10.6
Min	-1.7	-2.6	-2.8	-4.2	-4.5	-3.5	0.4	5.3	7.7	7.2	7.0	6.8	7.3	8.1	10.0	8.8	7.3	7.4	5.6	3.9	2.8	1.6	0.9	-0.4	5.1	10.4	-4.5

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
April 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	0.89	0.92	0.42	0.33	0.52	0.44	0.34	0.71	0.45	0.47	0.32	0.31	0.29	0.22	0.22	0.20	0.02	0.01	0.15	0.48	0.65	0.29	0.47	0.28	0.39	0.92	0.01
2	0.47	0.26	0.18	0.08	0.09	0.17	0.10	0.11	0.10	0.13	0.15	0.15	0.22	0.19	0.14	0.13	0.18	0.36	0.80	1.28	1.12	0.72	0.31	1.18	0.36	1.28	0.08
3	0.63	1.15	1.82	1.48	1.01	1.46	1.46	2.08	1.65	0.70	1.03	-0.10	-0.57	-0.31	-0.11	-0.16	-0.02	0.15	0.55	0.49	0.08	0.06	0.12	0.25	0.62	2.08	-0.57
4	0.43	0.23	0.42	0.32	0.64	0.72	0.58	0.47	-0.07	-0.05	-0.03	-0.07	-0.12	-0.09	-0.16	-0.09	-0.05	0.09	0.39	0.65	0.50	0.73	0.96	0.93	0.31	0.96	-0.16
5	0.55	0.61	0.92	0.85	0.79	1.35	1.15	1.64	1.32	1.55	1.74	-0.04	0.05	0.12	0.20	0.27	0.15	0.25	0.35	0.46	0.48	0.32	0.42	1.16	0.69	1.74	-0.04
6	1.06	1.35	1.42	1.87	1.72	1.21	1.07	0.84	1.18	0.28	0.25	0.22	0.16	0.17	0.18	0.28	0.54	1.05	1.87	1.30	1.04	2.11	2.29	1.40	1.04	2.29	0.16
7	1.72	2.34	1.75	0.65	1.22	1.55	2.45	2.37	1.72	0.84	1.27	1.29	1.33	1.00	1.16	1.19	1.27	1.35	1.02	0.88	0.86	1.11	0.85	0.72	1.33	2.45	0.65
8	0.73	1.05	1.27	1.12	0.63	0.64	0.47	0.61	0.50	0.22	0.44	0.58	0.63	0.68	0.82	0.87	0.85	0.69	0.96	1.03	0.80	1.16	1.09	1.27	0.80	1.27	0.22
9	0.93	1.47	1.51	1.58	1.41	1.04	1.11	1.13	1.49	0.28	0.76	0.70	0.94	1.26	1.26	1.53	2.17	2.23	1.87	1.84	0.91	0.99	0.66	1.41	1.27	2.23	0.28
10	1.24	0.90	1.30	1.24	1.22	0.97	1.29	1.30	1.03	1.44	2.35	3.24	3.50	2.78	3.28	2.50	2.84	3.54	2.48	2.36	2.46	2.16	1.55	1.34	2.01	3.54	0.90
11	1.50	1.47	1.81	2.04	1.47	1.86	1.16	1.06	1.32	1.57	1.53	1.56	1.89	1.82	1.63	1.51	1.53	1.46	1.37	0.87	0.54	0.34	0.18	0.00	1.31	2.04	0.00
12	0.00	-0.05	0.08	0.06	0.06	0.04	-0.01	-0.09	-0.30	-0.27	-0.36	-0.46	-0.24	-0.08	-0.08	-0.10	-0.06	0.03	0.02	0.01	0.04	0.08	0.06	0.07	-0.06	0.08	-0.46
13	0.15	0.08	0.00	0.01	0.01	0.00	-0.03	-0.14	-0.05	-0.17	-0.32	-0.02	-0.02	-0.18	-0.12	-0.10	-0.05	-0.01	0.15	0.34	0.50	0.91	0.37	0.14	0.06	0.91	-0.32
14	-0.04	0.00	0.25	0.85	1.31	1.44	0.49	-0.08	-0.14	-0.29	-1.04	-0.21	-0.20	-0.09	-0.05	-0.03	-0.28	0.15	0.14	0.64	0.64	0.48	0.91	0.79	0.24	1.44	-1.04
15	0.43	0.89	1.14	1.23	0.78	1.25	0.81	0.20	0.17	-0.23	-0.32	-0.09	-0.05	-0.04	0.00	0.09	0.22	0.28	0.41	0.89	0.94	0.87	0.94	0.93	0.49	1.25	-0.32
16	1.12	1.55	1.17	1.03	0.97	0.70	0.86	0.96	0.53	0.37	0.38	0.30	0.39	0.53	0.78	1.00	1.32	0.87	1.13	1.33	1.43	1.02	0.87	0.58	0.88	1.55	0.30
17	0.32	0.37	0.65	1.16	0.59	0.72	0.50	0.13	-0.11	-0.18	-0.01	0.50	0.48	0.55	0.50	0.40	0.81	0.60	0.37	0.31	0.38	0.27	0.17	0.10	0.40	1.16	-0.18
18	-0.02	0.00	0.03	0.30	0.91	0.90	0.92	0.21	0.20	0.10	0.09	0.14	-0.17	0.04	-0.10	-0.42	0.10	0.15	-0.02	-0.02	0.01	0.12	-0.01	-0.04	0.14	0.92	-0.42
19	-0.05	-0.03	-0.01	-0.02	-0.02	-0.03	-0.03	0.00	0.02	0.04	0.05	0.08	0.11	0.13	0.00	-0.05	-0.08	-0.01	0.04	0.06	0.04	-0.01	0.00	0.00	0.01	0.13	-0.08
20	0.02	0.04	0.07	0.18	0.10	0.03	0.00	-0.05	-0.09	0.01	-0.01	-0.04	-0.07	-0.09	-0.09	-0.04	-0.01	0.01	0.23	0.43	0.52	0.79	0.66	0.85	0.14	0.85	-0.09
21	0.60	0.87	1.09	1.20	0.65	0.29	0.03	-0.16	-0.22	-0.31	-0.25	-0.01	-0.01	-0.32	-0.18	-0.18	-0.16	-0.06	0.06	0.33	0.71	0.73	0.46	0.50	0.24	1.20	-0.32
22	0.43	0.35	0.61	0.66	0.88	0.65	0.62	0.08	-0.42	0.20	-0.26	-0.08	-0.07	-0.10	-0.33	-0.38	0.01	-0.03	0.11	0.49	0.32	0.48	0.90	0.73	0.24	0.90	-0.42
23	1.07	1.09	1.41	1.05	0.98	1.39	0.84	0.01	-0.64	-0.09	-0.50	-0.46	-0.38	-0.32	-0.11	0.00	0.19	0.09	1.20	0.51	0.53	0.81	0.94	1.06	0.44	1.41	-0.64
24	1.32	1.03	1.22	1.18	1.31	1.19	0.25	0.04	0.17	0.19	-0.01	-0.14	-0.39	-0.30	-0.39	0.21	0.30	0.35	0.33	0.52	0.44	0.56	0.41	0.31	0.42	1.32	-0.39
25	0.31	0.33	0.53	0.70	0.94	0.74	0.77	0.05	-0.42	0.00	0.12	0.14	0.05	-0.01	-0.03	-0.16	0.03	0.06	0.36	0.65	0.64	0.71	0.88	1.08	0.35	1.08	-0.42
26	0.79	0.47	0.73	0.81	0.82	1.02	0.11	-0.46	-0.50	-0.43	-0.48	-0.51	-0.39	-0.22	-0.03	-0.01	0.29	0.39	0.66	0.90	0.80	1.27	1.01	0.69	0.32	1.27	-0.51
27	0.69	0.61	0.52	0.49	0.41	0.42	0.27	-0.01	-0.08	-0.16	-0.18	-0.23	-0.40	-0.41	-0.18	-0.34	-0.44	-0.43	-0.10	0.45	0.28	0.64	0.54	0.51	0.12	0.69	-0.44
28	1.45	1.06	0.77	0.80	0.96	0.69	-0.02	-0.62	-0.84	-0.42	-0.63	-0.70	-0.95	-0.94	-0.68	0.18	0.05	-0.10	0.09	1.25	0.37	0.39	0.91	0.69	0.16	1.45	-0.95
29	1.46	1.23	1.43	1.27	0.98	1.23	0.21	-0.73	-0.43	-0.59	-0.92	-0.98	-1.05	-0.99	-1.00	-0.61	-0.48	-0.36	0.16	0.49	0.51	1.51	1.66	1.49	0.23	1.66	-1.05
30	1.74	1.42	1.67	1.21	1.18	1.40	0.02	-0.72	-0.92	-0.92	-0.78	-1.06	-0.91	-0.82	-0.87	-0.83	-0.73	-0.42	0.07	0.44	0.51	0.64	0.71	0.71	0.11	1.74	-1.06
Avg	0.73	0.77	0.87	0.86	0.82	0.85	0.59	0.36	0.22	0.14	0.15	0.13	0.13	0.14	0.19	0.23	0.35	0.42	0.57	0.72	0.64	0.74	0.71	0.70	0.50	1.39	-0.24
Max	1.74	2.34	1.82	2.04	1.72	1.86	2.45	2.37	1.72	1.57	2.35	3.24	3.50	2.78	3.28	2.50	2.84	3.54	2.48	2.36	2.46	2.16	2.29	1.49	2.01	3.54	0.90
Min	-0.05	-0.05	-0.01	-0.02	-0.02	-0.03	-0.03	-0.73	-0.92	-0.92	-1.04	-1.06	-1.05	-0.99	-1.00	-0.83	-0.73	-0.43	-0.10	-0.02	0.01	-0.01	-0.01	-0.04	-0.06	0.08	-1.06

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
May 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	1.32	0.83	0.62	0.91	1.69	1.25	-0.09	-0.80	-0.48	-0.52	-0.74	-0.91	-1.00	-0.99	-0.95	-0.81	-0.60	-0.35	0.04	0.34	0.59	0.47	0.52	0.68	0.04	1.69	-1.00
2	0.75	0.92	1.60	1.25	0.63	1.21	-0.03	-0.40	-0.71	-0.65	-0.52	-0.57	-0.62	-0.62	-0.67	-0.52	-0.42	-0.20	0.22	0.66	0.46	0.43	0.46	0.33	0.12	1.60	-0.71
3	0.59	0.69	0.85	1.13	1.02	1.02	0.15	-0.43	-0.62	-0.79	-0.73	-0.90	-0.72	-0.27	0.05	-0.40	-0.43	-0.22	0.16	0.21	0.61	0.18	0.33	1.06	0.11	1.13	-0.90
4	1.09	1.13	1.21	1.23	1.59	1.15	0.37	-0.27	-0.49	-0.78	-0.94	-1.06	-1.11	-0.50	-0.36	-0.63	-0.33	-0.10	0.09	0.56	0.32	0.20	0.17	0.26	0.12	1.59	-1.11
5	0.29	0.62	1.01	0.86	0.73	0.23	0.08	0.02	-0.18	-0.43	-0.55	-0.59	0.26	0.07	-0.08	-0.02	-0.04	0.00	0.01	0.01	0.02	0.28	0.31	0.06	0.12	1.01	-0.59
6	0.01	0.08	0.36	0.55	0.42	0.31	0.05	-0.13	-0.06	-0.16	-0.24	-0.40	-0.70	-0.93	-0.90	-0.69	-0.25	-0.41	-0.13	0.21	0.76	0.51	0.88	0.86	0.00	0.88	-0.93
7	0.50	0.40	0.57	0.68	0.29	0.60	-0.16	-0.47	-0.55	-0.43	-0.36	-0.50	-0.54	-0.41	-0.11	-0.09	-0.20	-0.12	-0.02	0.15	0.23	0.40	0.51	0.42	0.03	0.68	-0.55
8	0.82	1.30	1.53	0.57	0.70	0.12	0.08	-0.16	-0.21	-0.31	-0.35	-0.49	-0.93	-0.87	-0.93	-0.84	-0.77	-0.60	-0.23	0.61	0.40	0.40	0.38	1.05	0.05	1.53	-0.93
9	0.42	0.30	0.44	0.32	0.10	0.09	-0.18	-0.31	-0.39	-0.49	-0.38	-0.21	-0.21	-0.26	-0.46	-0.12	-0.37	-0.53	-0.27	1.18	1.30	0.30	0.35	0.72	0.06	1.30	-0.53
10	0.87	0.78	1.15	1.02	0.84	1.06	-0.24	-0.26	-0.73	-0.67	-0.82	-0.89	-0.86	-0.72	-0.48	-0.26	-0.17	-0.11	0.03	0.12	0.15	0.14	0.12	0.05	0.01	1.15	-0.89
11	0.04	0.02	0.00	-0.06	-0.04	-0.06	-0.17	-0.14	-0.31	-0.29	-0.30	-0.39	-0.52	-0.79	-0.81	-0.43	-0.19	-0.12	-0.20	0.23	0.43	0.21	0.27	0.38	-0.14	0.43	-0.81
12	0.50	0.37	0.15	0.37	0.43	0.38	-0.08	-0.33	-0.33	-0.29	-0.55	-0.48	-0.61	-0.74	-0.74	-0.65	-0.59	-0.50	-0.29	0.46	0.96	1.25	0.84	0.69	0.01	1.25	-0.74
13	0.60	0.54	1.12	0.50	0.05	0.38	-0.04	-0.11	-0.25	-0.31	-0.65	-0.64	-0.51	-0.37	-0.31	-0.28	-0.20	-0.21	-0.06	0.00	0.02	0.05	0.03	0.03	-0.03	1.12	-0.65
14	0.02	0.08	0.25	0.19	0.31	0.27	0.02	-0.10	-0.26	-0.57	-0.64	-0.89	-1.07	-1.07	-0.76	-0.75	-0.30	-0.18	-0.11	-0.04	0.00	0.01	-0.02	0.02	-0.23	0.31	-1.07
15	0.05	0.31	0.24	0.28	0.37	0.26	-0.17	-0.27	-0.41	-0.53	-0.59	-0.55	-0.49	-0.40	-0.49	-0.67	-0.40	-0.23	-0.01	0.60	0.74	0.29	0.69	0.98	-0.02	0.98	-0.67
16	1.03	1.24	1.00	0.76	1.02	0.53	-0.17	-0.60	-0.61	-0.78	-0.89	-0.96	-1.04	-0.67	-1.06	-0.55	-0.25	0.05	0.28	0.19	0.12	0.19	0.27	0.26	-0.03	1.24	-1.06
17	0.21	0.12	0.05	0.04	0.11	0.22	0.08	-0.05	-0.16	-0.47	-0.52	-0.56	-0.68	-0.71	-0.79	-0.56	-0.50	-0.16	0.21	0.50	0.53	0.27	0.14	0.20	-0.10	0.53	-0.79
18	0.23	0.66	0.42	0.74	0.83	0.79	0.09	-0.44	-0.64	-0.77	-0.99	-1.03	-1.11	-1.14	-1.08	-0.89	-0.74	-0.48	-0.31	0.78	1.06	0.92	0.96	0.71	-0.06	1.06	-1.14
19	0.71	1.43	1.16	1.35	1.38	1.05	-0.09	-0.59	-0.68	-0.80	-0.83	-0.84	-0.81	-0.81	-0.87	-0.60	-0.68	-0.45	0.03	1.19	0.59	0.62	0.59	1.30	0.14	1.43	-0.87
20	0.59	1.39	1.79	1.09	1.15	1.09	-0.26	-0.60	-0.73	-0.74	-0.81	-0.86	-0.93	-1.01	-1.08	-0.92	-0.75	-0.50	0.18	0.57	0.69	0.55	0.53	1.13	0.06	1.79	-1.08
21	0.40	0.35	0.64	0.84	0.88	1.16	0.00	-0.18	-0.60	-0.38	-0.48	-0.87	-0.83	-0.18	-0.61	-0.45	-0.25	0.24	0.08	0.31	1.03	0.78	1.14	1.10	0.17	1.16	-0.87
22	0.80	1.09	0.99	1.30	1.13	0.57	-0.27	-0.36	-0.74	-0.73	-0.65	-0.60	-0.74	-0.70	-0.55	-0.38	-0.33	-0.08	0.17	0.35	0.74	0.62	0.51	0.77	0.12	1.30	-0.74
23	0.46	0.81	0.62	0.81	0.75	0.61	-0.11	-0.50	-0.45	-0.30	-0.83	-0.65	-0.70	-0.42	-0.46	-0.58	-0.54	-0.47	-0.10	0.32	0.37	0.37	0.38	0.24	-0.02	0.81	-0.83
24	0.55	0.58	0.58	0.26	0.24	0.04	-0.19	-0.21	-0.59	-0.75	-0.91	-0.99	-1.19	-0.69	-0.80	-0.48	-0.19	-0.09	-0.10	0.05	0.21	0.13	0.07	0.01	-0.19	0.58	-1.19
25	0.12	0.41	0.06	-0.06	-0.05	-0.08	-0.13	-0.20	-0.30	-0.55	-0.80	-0.61	-0.66	-0.65	-0.19	-0.43	0.02	0.01	0.06	-0.01	0.02	0.07	0.29	0.42	-0.14	0.42	-0.80
26	0.26	0.12	0.19	0.03	0.11	-0.11	-0.33	-0.45	-0.79	-0.31	-0.37	-0.46	-0.48	-0.77	-0.25	-0.20	-0.22	-0.10	-0.20	0.05	0.17	0.11	0.13	0.15	-0.16	0.26	-0.79
27	0.13	-0.02	0.01	0.03	0.00	-0.05	-0.11	-0.11	-0.13	-0.15	-0.52	-0.79	-0.96	-0.98	-0.58	-0.75	-0.82	-0.69	-0.22	-0.10	0.10	0.11	-0.05	0.12	-0.27	0.13	-0.98
28	-0.01	-0.07	-0.03	0.05	0.02	-0.11	-0.12	-0.19	-0.24	-0.57	-0.74	-0.86	-0.26	-0.57	-0.74	-0.79	-0.43	0.13	-0.11	-0.02	0.22	0.18	0.13	0.19	-0.21	0.22	-0.86
29	0.43	0.69	0.31	0.39	0.18	-0.07	-0.19	-0.61	-0.46	-0.50	-0.45	-0.74	-0.76	-0.88	-0.82	-0.65	-0.72	-0.64	-0.02	0.28	0.45	0.20	0.59	0.75	-0.13	0.75	-0.88
30	0.97	1.03	0.88	0.91	0.92	0.51	-0.21	-0.62	-0.61	-0.68	-0.59	-0.79	-0.25	-0.70	-0.88	-0.63	-0.52	-0.27	-0.01	0.61	0.75	0.80	1.17	0.73	0.10	1.17	-0.88
31	0.77	1.11	1.03	1.04	1.02	0.80	-0.40	-0.54	-0.58	-0.79	-0.38	-0.51	-0.40	0.00	0.25	0.11	-0.05	-0.10	-0.05	0.06	0.15	0.43	0.41	0.20	0.15	1.11	-0.79
Avg	0.50	0.62	0.67	0.63	0.61	0.49	-0.09	-0.34	-0.46	-0.53	-0.62	-0.70	-0.69	-0.64	-0.60	-0.51	-0.39	-0.24	-0.03	0.34	0.46	0.37	0.42	0.51	-0.01	0.99	-0.86
Max	1.32	1.43	1.79	1.35	1.69	1.25	0.37	0.02	-0.06	-0.15	-0.24	-0.21	0.26	0.07	0.25	0.11	0.02	0.24	0.28	1.19	1.30	1.25	1.17	1.30	0.17	1.79	-0.53
Min	-0.01	-0.07	-0.03	-0.06	-0.05	-0.11	-0.40	-0.80	-0.79	-0.80	-0.99	-1.06	-1.19	-1.14	-1.08	-0.92	-0.82	-0.69	-0.31	-0.10	0.00	0.01	-0.05	0.01	-0.27	0.13	-1.19

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
9-2 M Delta Temperature (Degrees Celsius)
June 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	0.26	0.24	0.18	0.25	0.47	0.22	-0.25	-0.52	-0.49	-0.56	-0.62	-0.82	-1.06	-0.85	-0.97	-0.25	0.12	0.20	0.02	0.03	0.16	0.27	0.12	0.36	-0.15	0.47	-1.06
2	0.40	0.47	0.09	0.01	-0.06	-0.06	-0.07	-0.09	-0.12	-0.25	-0.30	-0.25	-0.28	-0.08	-0.11	-0.11	-0.05	0.00	0.03	0.04	0.12	0.15	0.16	0.21	-0.01	0.47	-0.30
3	0.15	0.11	0.11	0.06	0.04	-0.03	-0.02	-0.22	-0.27	-0.22	-0.26	-0.13	-0.10	-0.17	-0.24	-0.16	-0.16	-0.15	-0.22	-0.06	0.05	0.13	0.04	0.09	-0.07	0.15	-0.27
4	0.17	-0.07	-0.03	0.00	-0.05	-0.09	-0.16	-0.51	-0.96	-0.52	-0.49	-0.46	-0.51	-0.42	-0.43	-0.25	-0.38	-0.05	-0.05	0.15	0.29	0.23	0.15	0.45	-0.17	0.45	-0.96
5	0.26	0.57	0.63	0.63	0.81	0.47	-0.46	-0.63	-0.71	-0.67	-0.67	-0.58	-0.61	-0.50	-0.33	-0.11	0.01	0.22	0.41	0.32	0.41	0.41	0.32	0.24	0.02	0.81	-0.71
6	0.11	0.39	0.56	0.48	0.49	0.39	-0.23	-0.60	-0.60	-0.84	-0.97	-1.00	-1.10	-1.19	-1.10	-0.79	-0.58	-0.32	-0.32	-0.05	0.46	0.48	0.74	0.71	-0.20	0.74	-1.19
7	1.00	0.53	0.61	0.80	1.05	0.14	-0.21	-0.25	-0.32	-0.53	-0.68	-0.64	-0.84	-0.33	-0.31	-0.46	-0.46	-0.18	0.07	0.10	0.26	0.13	0.16	0.39	0.00	1.05	-0.84
8	0.37	0.49	0.61	0.76	0.60	0.31	-0.27	-0.38	-0.73	-0.14	0.01	-0.16	-0.32	-0.23	-0.21	-0.21	-0.05	-0.01	-0.02	0.04	0.07	0.27	0.30	0.06	0.05	0.76	-0.73
9	0.03	0.06	-0.06	0.00	0.10	0.00	-0.09	-0.15	-0.20	-0.23	-0.29	-0.56	-0.48	-0.36	-0.42	-0.35	-0.71	-0.61	-0.34	0.13	0.24	0.50	0.46	0.33	-0.13	0.50	-0.71
10	0.66	0.56	0.49	0.60	0.60	0.31	-0.13	-0.16	-0.50	-0.31	-0.02	-0.09	-0.05	-0.18	-0.23	-0.69	-0.56	-0.06	-0.01	0.30	0.39	0.82	0.61	0.32	0.11	0.82	-0.69
11	0.24	0.34	0.40	0.21	0.18	0.07	0.11	-0.16	-0.38	-0.49	-0.58	-0.67	-0.71	-0.79	-0.68	-0.54	-0.45	-0.31	0.03	0.20	0.69	0.91	0.73	0.43	-0.05	0.91	-0.79
12	0.71	0.93	0.79	0.47	0.39	-0.12	-0.72	-0.80	-0.63	-0.49	-0.63	-0.53	-0.31	-0.21	-0.44	-0.15	-0.01	0.05	0.16	0.28	0.61	0.63	0.53	0.65	0.05	0.93	-0.80
13	0.66	0.67	0.51	0.42	0.45	0.00	-0.14	-0.37	-0.44	-0.85	-0.68	-0.66	-0.64	-0.47	-0.49	0.04	0.14	0.11	-0.02	0.01	0.29	0.75	0.70	0.85	0.04	0.85	-0.85
14	0.75	0.70	0.17	0.02	0.22	0.03	-0.07	-0.03	-0.03	-0.09	-0.22	-0.38	-0.69	-0.72	-0.72	-0.63	-0.56	-0.37	-0.17	0.17	1.02	1.00	0.53	0.23	0.01	1.02	-0.72
15	0.23	0.25	0.32	0.22	0.37	-0.17	-0.54	-0.60	-0.72	-0.66	-0.78	-0.77	-0.46	-0.83	-0.58	-0.37	-0.25	-0.09	-0.02	0.09	0.17	0.52	0.43	0.31	-0.16	0.52	-0.83
16	0.34	0.37	0.75	0.49	0.68	0.09	-0.66	-0.50	-0.55	-0.43	-0.53	-0.55	-0.44	-0.47	-0.89	-0.58	-0.46	-0.38	-0.04	1.18	1.12	0.83	0.63	0.82	0.03	1.18	-0.89
17	0.45	0.62	0.51	0.19	0.02	-0.12	-0.22	-0.24	-0.20	-0.35	-0.31	-0.31	-0.37	-0.52	-0.46	-0.64	-0.53	-0.34	0.13	0.22	0.29	0.69	0.26	0.88	-0.01	0.88	-0.64
18	0.46	0.63	0.35	0.28	0.14	0.02	-0.08	-0.04	-0.09	-0.20	-0.30	-0.23	-0.24	-0.37	-0.81	-0.46	-0.69	-0.56	0.05	0.40	1.56	0.69	0.34	0.46	0.05	1.56	-0.81
19	0.18	0.27	0.64	0.34	0.40	0.22	-0.31	-0.67	-0.67	-0.68	-0.82	-0.84	-0.66	-0.70	-0.86	-0.82	-0.65	-0.66	-0.51	0.20	0.67	0.73	0.23	0.27	-0.20	0.73	-0.86
20	0.09	0.02	0.03	0.03	0.22	0.09	-0.51	-0.81	-0.84	-1.13	-1.03	-0.82	-0.85	-0.55	-0.89	-0.76	-0.36	0.05	0.03	0.09	0.33	0.13	0.10	-0.08	-0.31	0.33	-1.13
21	-0.03	0.12	0.17	0.28	0.36	0.21	-0.40	-0.56	-0.74	-0.80	-0.70	-0.43	-0.31	-0.30	-0.11	-0.29	-0.23	-0.30	-0.30	0.33	0.96	0.58	0.33	0.41	-0.07	0.96	-0.80
22	0.77	1.04	0.93	1.31	1.18	0.53	-0.42	-0.64	-0.84	-0.76	-0.57	-0.68	-0.63	-0.69	-0.61	-0.51	-0.57	-0.43	-0.17	0.14	0.45	0.46	0.48	0.57	0.01	1.31	-0.84
23	0.71	1.14	1.56	0.84	0.64	0.26	-0.20	-0.20	-0.48	-0.34	-0.47	-0.80	-0.86	-0.90	-0.75	-0.24	0.68	0.35	0.03	-0.01	0.05	0.00	-0.01	0.05	0.04	1.56	-0.90
24	0.12	0.29	0.17	0.11	0.21	-0.01	-0.31	-0.45	-0.62	-0.63	-0.56	-0.38	-0.39	-0.11	-0.56	-0.50	-0.55	-0.01	0.12	-0.05	0.46	0.53	0.36	0.20	-0.11	0.53	-0.63
25	0.57	0.75	0.72	0.49	0.91	0.40	-0.31	-0.31	-0.72	-0.54	-0.59	-0.52	-0.37	-0.34	-0.14	0.14	-0.27	-0.44	-0.09	0.29	0.29	0.45	0.63	0.75	0.07	0.91	-0.72
26	0.72	0.62	0.64	1.04	1.00	0.13	-0.51	-0.55	-0.68	-0.68	-0.42	-0.13	-0.38	-0.57	-0.61	-0.28	0.07	-0.24	-0.03	0.13	0.67	0.43	0.44	0.33	0.05	1.04	-0.68
27	0.33	0.16	0.46	0.51	0.60	0.73	-0.23	-0.43	-0.66	-0.45	-0.79	-0.03	-0.10	-0.60	-0.37	-0.47	-0.24	0.18	0.07	0.33	0.56	0.36	0.26	0.17	0.01	0.73	-0.79
28	0.24	0.28	0.33	0.26	0.27	-0.01	-0.33	-0.42	-0.25	0.00	0.17	0.12	-0.11	-0.19	-0.33	-0.44	-0.29	-0.25	-0.16	0.00	0.24	0.19	0.31	0.35	-0.00	0.35	-0.44
29	0.56	0.96	0.83	0.76	0.68	0.30	-0.24	-0.69	-0.86	-0.71	-0.64	-0.62	-0.70	-0.87	-0.69	-0.63	-0.37	-0.30	-0.11	0.63	0.53	0.24	0.32	0.63	-0.04	0.96	-0.87
30	0.31	0.89	1.22	1.67	1.33	0.61	-0.46	-0.73	-0.76	-0.63	-0.73	-0.65	-0.80	-0.54	-0.80	-0.43	-0.39	-0.25	0.08	0.65	1.18	0.86	0.88	1.08	0.15	1.67	-0.80
Avg	0.39	0.48	0.49	0.45	0.48	0.16	-0.28	-0.42	-0.54	-0.51	-0.52	-0.49	-0.51	-0.50	-0.54	-0.40	-0.29	-0.17	-0.04	0.21	0.49	0.48	0.38	0.42	-0.03	0.84	-0.78
Max	1.00	1.14	1.56	1.67	1.33	0.73	0.11	-0.03	-0.03	0.00	0.17	0.12	-0.05	-0.08	-0.11	0.14	0.68	0.35	0.41	1.18	1.56	1.00	0.88	1.08	0.15	1.67	-0.27
Min	-0.03	-0.07	-0.06	0.00	-0.06	-0.17	-0.72	-0.81	-0.96	-1.13	-1.03	-1.00	-1.10	-1.19	-1.10	-0.82	-0.71	-0.66	-0.51	-0.06	0.05	0.00	-0.01	-0.08	-0.31	0.15	-1.19

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
April 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	15	111	208	202	354	633	831	471	491	138	48	119	70	0	0	0	0	0	154	831	0
2	0	0	0	0	0	0	22	100	214	348	538	666	529	613	691	496	208	244	60	0	0	0	0	0	197	691	0
3	0	0	0	0	0	1	40	220	422	592	741	572	781	479	363	466	158	140	59	0	0	0	0	0	210	781	0
4	0	0	0	0	0	0	42	235	459	617	653	761	749	586	471	407	240	99	30	0	0	0	0	0	223	761	0
5	0	0	0	0	0	1	51	233	382	547	767	860	887	711	679	430	470	177	52	0	0	0	0	0	260	887	0
6	0	0	0	0	0	1	53	126	373	546	678	824	869	833	757	632	460	269	70	0	0	0	0	0	270	869	0
7	0	0	0	0	0	2	69	171	407	628	765	747	889	692	409	585	294	139	47	0	0	0	0	0	244	889	0
8	0	0	0	0	0	1	65	160	354	540	573	774	781	648	721	586	462	86	26	0	0	0	0	0	241	781	0
9	0	0	0	0	0	2	62	239	427	586	744	811	709	829	664	600	414	172	81	1	0	0	0	0	264	829	0
10	0	0	0	0	0	1	39	173	325	433	569	676	770	706	781	649	467	296	50	0	0	0	0	0	247	781	0
11	0	0	0	0	0	3	59	171	439	607	874	608	815	725	749	323	136	44	76	2	0	0	0	0	235	874	0
12	0	0	0	0	0	0	10	40	54	154	230	276	215	242	202	153	90	35	8	0	0	0	0	0	71	276	0
13	0	0	0	0	0	1	13	50	86	179	469	308	353	420	342	261	348	283	46	2	0	0	0	0	132	469	0
14	0	0	0	0	0	3	57	141	245	411	809	857	761	614	577	479	434	164	74	1	0	0	0	0	234	857	0
15	0	0	0	0	0	4	52	206	471	634	786	680	867	872	788	656	474	263	75	2	0	0	0	0	285	872	0
16	0	0	0	0	0	5	91	242	476	446	741	823	711	725	732	393	332	176	88	6	0	0	0	0	249	823	0
17	0	0	0	0	0	8	93	222	357	583	627	598	453	320	218	161	84	55	29	1	0	0	0	0	159	627	0
18	1	0	0	0	0	5	132	337	451	570	574	449	658	197	643	480	289	114	28	2	0	0	0	0	205	658	0
19	0	0	0	0	0	4	38	112	209	298	385	507	604	683	542	460	296	183	52	2	0	0	0	0	182	683	0
20	0	0	0	0	0	6	64	205	325	505	665	787	847	895	782	773	484	241	51	3	0	0	0	0	276	895	0
21	0	0	0	0	0	5	59	133	162	404	766	852	882	614	505	437	430	316	93	5	0	0	0	0	236	882	0
22	0	0	0	0	0	7	112	321	418	684	844	940	1088	781	750	626	321	142	54	4	0	0	0	0	296	1088	0
23	0	0	0	0	0	13	135	311	502	631	716	788	861	852	733	555	338	331	60	4	0	0	0	0	285	861	0
24	0	0	0	0	0	15	72	206	264	180	435	859	810	859	648	175	120	86	39	3	0	0	0	0	199	859	0
25	0	0	0	0	0	17	58	312	490	663	786	844	746	816	647	687	513	283	90	6	0	0	0	0	290	844	0
26	0	0	0	0	0	15	124	298	475	651	760	800	682	546	466	393	132	92	29	2	0	0	0	0	228	800	0
27	0	0	0	0	0	5	23	80	132	232	358	421	637	711	240	377	559	356	131	7	0	0	0	0	178	711	0
28	0	0	0	0	0	16	154	331	506	670	801	870	920	883	825	590	491	308	142	11	0	0	0	0	313	920	0
29	0	0	0	0	0	20	146	320	506	668	799	888	918	840	800	632	462	335	103	6	0	0	0	0	310	918	0
30	0	0	0	0	0	23	151	327	513	675	800	886	916	890	816	693	536	343	148	12	0	0	0	0	322	916	0
Avg	0	0	0	0	0	6	70	204	355	496	654	712	751	668	601	476	336	196	65	3	0	0	0	0	233	798	0
Max	1	0	0	0	0	23	154	337	513	684	874	940	1088	895	825	773	559	356	148	12	0	0	0	0	322	1088	0
Min	0	0	0	0	0	0	10	40	54	154	230	276	215	197	202	138	48	35	8	0	0	0	0	0	71	276	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
May 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	23	154	329	513	672	794	886	915	888	814	687	530	343	149	14	0	0	0	0	321	915	0
2	0	0	0	0	0	24	156	331	515	674	801	884	914	889	839	482	418	261	52	5	0	0	0	0	302	914	0
3	0	0	0	0	0	14	109	219	306	569	652	763	586	207	170	497	524	294	104	12	0	0	0	0	209	763	0
4	0	0	0	0	0	30	161	336	516	671	792	889	929	387	330	552	353	229	127	10	0	0	0	0	263	929	0
5	0	0	0	0	0	25	25	48	168	432	460	328	37	23	84	36	28	33	21	1	0	0	0	0	73	460	0
6	0	0	0	0	0	16	90	115	132	179	348	476	583	704	668	437	256	264	88	17	0	0	0	0	182	704	0
7	0	0	0	0	1	33	187	343	349	302	347	753	351	276	76	94	195	99	73	17	0	0	0	0	146	753	0
8	0	0	0	0	0	23	42	112	128	187	244	382	650	618	728	601	537	399	170	18	0	0	0	0	202	728	0
9	0	0	0	0	0	20	167	341	529	736	439	220	206	358	600	188	372	377	178	27	0	0	0	0	198	736	0
10	0	0	0	0	2	42	195	361	537	684	850	940	817	633	365	186	156	104	48	9	0	0	0	0	247	940	0
11	0	0	0	0	0	10	57	51	145	164	152	272	272	422	440	257	116	157	189	25	0	0	0	0	114	440	0
12	0	0	0	0	1	30	170	330	256	267	578	429	553	711	414	544	552	352	197	36	0	0	0	0	226	711	0
13	0	0	0	0	1	26	41	82	163	253	581	443	323	308	275	306	227	131	37	6	0	0	0	0	133	581	0
14	0	0	0	0	1	22	40	65	164	427	471	734	904	889	576	544	170	82	41	7	0	0	0	0	214	904	0
15	0	0	0	0	2	57	174	346	530	698	820	876	699	496	531	782	530	328	118	15	0	0	0	0	292	876	0
16	0	0	0	0	2	55	182	338	531	697	826	841	906	501	858	480	258	125	5	0	0	0	0	0	275	906	0
17	0	0	0	0	0	12	25	58	110	374	581	577	645	649	585	437	317	152	73	22	0	0	0	0	192	649	0
18	0	0	0	0	2	35	163	327	491	653	786	878	898	883	818	683	543	367	200	42	0	0	0	0	324	898	0
19	0	0	0	0	3	55	199	355	527	680	797	886	928	913	837	700	507	325	156	28	0	0	0	0	329	928	0
20	0	0	0	0	2	50	177	346	524	676	808	902	951	935	864	723	555	384	160	40	0	0	0	0	337	951	0
21	0	0	0	0	2	53	191	361	545	684	704	862	778	286	795	539	360	31	73	18	0	0	0	0	262	862	0
22	0	0	0	0	4	53	144	360	501	681	646	608	908	910	511	273	226	119	74	41	3	0	0	0	253	910	0
23	0	0	0	0	3	65	213	376	490	329	831	790	737	453	504	765	557	402	165	41	1	0	0	0	280	831	0
24	0	0	0	0	0	16	79	63	298	417	597	658	853	365	491	255	113	64	67	24	0	0	0	0	182	853	0
25	0	0	0	0	0	10	63	137	152	275	448	314	368	388	106	293	40	15	27	6	0	0	0	0	110	448	0
26	0	0	0	0	3	81	213	317	493	406	374	505	529	864	172	160	187	124	156	34	1	0	0	0	192	864	0
27	0	0	0	0	0	13	65	92	98	102	465	733	784	690	362	599	552	362	86	24	1	0	0	0	210	784	0
28	0	0	0	0	3	32	88	152	200	588	710	850	206	787	767	577	313	43	110	36	1	0	0	0	228	850	0
29	0	0	0	0	3	31	115	368	276	446	470	666	844	923	801	536	478	421	149	52	1	0	0	0	274	923	0
30	0	0	0	0	5	77	231	391	561	682	848	912	323	838	853	729	594	411	228	47	1	0	0	0	322	912	0
31	0	0	0	0	5	62	237	403	520	710	396	764	472	156	14	14	61	95	61	29	1	0	0	0	167	764	0
Avg	0	0	0	0	1	35	134	253	363	494	601	678	641	592	524	450	343	222	109	23	0	0	0	0	228	796	0
Max	0	0	0	0	5	81	237	403	561	736	850	940	951	935	864	782	594	421	228	52	3	0	0	0	337	951	0
Min	0	0	0	0	0	10	25	48	98	102	152	220	37	23	14	14	28	15	5	0	0	0	0	0	73	440	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (Watts per Square Meter)
June 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	5	51	140	250	455	648	768	843	927	780	751	252	54	107	73	23	1	0	0	0	255	927	0
2	0	0	0	0	1	12	38	44	70	134	216	228	254	116	109	96	48	32	17	3	0	0	0	0	59	254	0
3	0	0	0	0	1	21	34	166	216	182	180	116	111	134	188	179	152	133	127	49	1	0	0	0	83	216	0
4	0	0	0	0	5	41	103	385	569	773	838	579	908	775	406	475	495	123	130	40	5	0	0	0	277	908	0
5	0	0	0	0	5	52	227	392	513	578	835	873	770	825	463	284	275	92	26	10	2	0	0	0	259	873	0
6	0	0	0	0	5	75	228	397	559	714	829	905	954	824	798	530	290	189	165	55	2	0	0	0	313	954	0
7	0	0	0	0	6	94	236	350	525	711	837	527	946	453	459	732	503	274	71	8	1	0	0	0	281	946	0
8	0	0	0	0	7	56	121	325	456	190	176	324	459	338	271	212	61	18	36	24	0	0	0	0	128	459	0
9	0	0	0	0	2	21	80	135	254	317	397	558	612	590	805	624	532	399	275	29	1	0	0	0	235	805	0
10	0	0	0	0	4	50	117	232	432	373	93	134	92	255	216	498	402	82	95	33	2	0	0	0	130	498	0
11	0	0	0	0	7	35	96	308	560	712	830	913	945	911	854	704	547	396	100	53	3	0	0	0	332	945	0
12	0	0	0	0	9	97	244	424	443	563	887	741	371	384	556	233	228	193	79	58	4	0	0	0	230	887	0
13	0	0	0	0	6	62	130	266	286	660	871	830	902	527	447	136	51	19	130	56	3	0	0	0	224	902	0
14	0	0	0	0	2	13	42	60	75	174	310	544	883	898	886	750	606	445	286	112	4	0	0	0	254	898	0
15	0	0	0	0	7	95	255	363	466	532	536	818	303	541	367	229	168	92	50	26	3	0	0	0	202	818	0
16	0	0	0	0	6	73	219	388	530	535	600	686	474	494	828	573	464	414	261	66	2	0	0	0	276	828	0
17	0	0	0	0	3	25	104	173	183	250	298	295	414	575	555	683	547	356	56	9	1	0	0	0	189	683	0
18	0	0	0	0	2	34	103	132	82	133	211	208	208	430	855	373	511	443	109	52	3	0	0	0	162	855	0
19	0	0	0	0	8	97	239	333	482	706	661	751	859	737	638	716	482	430	273	69	3	0	0	0	312	859	0
20	0	0	0	0	5	39	209	398	552	747	814	653	618	470	898	633	342	43	18	18	3	0	0	0	269	898	0
21	0	0	0	0	8	95	232	396	586	692	606	363	295	293	189	206	99	127	212	48	5	0	0	0	186	692	0
22	0	0	0	0	7	94	252	406	582	733	860	936	958	926	836	609	535	441	277	120	5	0	0	0	357	958	0
23	0	0	0	0	6	55	130	189	459	356	497	876	963	939	718	168	18	5	10	10	0	0	0	0	225	963	0
24	0	0	0	0	6	59	177	360	502	398	385	254	253	330	819	642	610	256	163	137	4	0	0	0	223	819	0
25	0	0	0	0	8	77	228	374	562	712	829	917	582	660	427	174	478	389	206	33	3	0	0	0	277	917	0
26	0	0	0	0	5	82	226	387	555	708	609	261	700	693	754	361	142	306	152	79	5	0	0	0	251	754	0
27	0	0	0	0	8	23	181	369	524	620	586	145	116	834	383	656	275	134	159	53	4	0	0	0	211	834	0
28	0	0	0	0	3	56	150	278	264	67	18	27	138	220	310	331	331	335	123	62	5	0	0	0	113	335	0
29	0	0	0	0	6	68	206	371	544	696	818	897	938	928	867	778	588	496	239	95	5	0	0	0	356	938	0
30	0	0	0	0	5	73	217	352	490	693	815	899	977	734	896	537	612	450	262	94	4	0	0	0	338	977	0
Avg	0	0	0	0	5	58	165	300	426	510	574	570	598	587	585	446	348	241	139	51	3	0	0	0	234	787	0
Max	0	0	0	0	9	97	255	424	586	773	887	936	977	939	898	778	612	496	286	137	5	0	0	0	357	977	0
Min	0	0	0	0	1	12	34	44	70	67	18	27	92	116	109	96	18	5	10	3	0	0	0	0	59	216	0

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
April 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	Avg	Max	Min
1	24.22	24.21	24.18	24.17	24.16	24.15	24.15	24.14	24.13	24.11	24.09	24.08	24.05	24.02	24.01	23.99	24.03	24.04	24.05	24.06	24.08	24.08	24.08	24.08	24.10	24.22	23.99
2	24.08	24.07	24.06	24.06	24.06	24.08	24.09	24.09	24.09	24.10	24.10	24.10	24.10	24.10	24.10	24.10	24.11	24.12	24.11	24.11	24.13	24.13	24.13	24.13	24.10	24.13	24.06
3	24.12	24.12	24.11	24.11	24.10	24.11	24.12	24.12	24.11	24.10	24.09	24.09	24.09	24.09	24.09	24.10	24.10	24.09	24.10	24.11	24.12	24.13	24.12	24.13	24.11	24.13	24.09
4	24.13	24.14	24.15	24.16	24.16	24.17	24.18	24.19	24.19	24.19	24.20	24.20	24.21	24.22	24.23	24.24	24.25	24.27	24.29	24.31	24.32	24.32	24.32	24.32	24.22	24.32	24.13
5	24.33	24.33	24.32	24.33	24.33	24.33	24.34	24.35	24.35	24.35	24.35	24.34	24.33	24.33	24.32	24.31	24.32	24.31	24.31	24.31	24.31	24.32	24.33	24.35	24.33	24.35	24.31
6	24.36	24.36	24.37	24.37	24.38	24.38	24.39	24.40	24.39	24.39	24.40	24.40	24.40	24.40	24.40	24.40	24.39	24.38	24.38	24.39	24.40	24.41	24.41	24.39	24.41	24.36	
7	24.41	24.41	24.40	24.38	24.39	24.38	24.38	24.37	24.35	24.34	24.33	24.32	24.31	24.29	24.27	24.25	24.24	24.24	24.23	24.23	24.24	24.24	24.25	24.25	24.31	24.41	24.23
8	24.26	24.26	24.26	24.26	24.27	24.28	24.29	24.31	24.32	24.34	24.34	24.34	24.34	24.34	24.34	24.34	24.35	24.36	24.37	24.39	24.41	24.42	24.43	24.33	24.43	24.26	
9	24.44	24.46	24.46	24.46	24.47	24.47	24.49	24.51	24.52	24.54	24.55	24.55	24.54	24.54	24.52	24.51	24.51	24.50	24.50	24.50	24.51	24.52	24.52	24.52	24.50	24.55	24.44
10	24.52	24.52	24.51	24.51	24.51	24.50	24.50	24.51	24.51	24.51	24.51	24.50	24.48	24.47	24.45	24.42	24.40	24.39	24.38	24.37	24.36	24.34	24.31	24.28	24.45	24.52	24.28
11	24.28	24.27	24.25	24.23	24.20	24.19	24.19	24.18	24.18	24.17	24.17	24.15	24.15	24.14	24.12	24.13	24.15	24.17	24.18	24.20	24.22	24.24	24.25	24.25	24.19	24.28	24.12
12	24.26	24.25	24.23	24.23	24.22	24.20	24.20	24.20	24.20	24.19	24.18	24.17	24.15	24.13	24.11	24.11	24.09	24.10	24.11	24.11	24.12	24.11	24.10	24.09	24.16	24.26	24.09
13	24.09	24.09	24.07	24.05	24.05	24.05	24.05	24.05	24.05	24.05	24.05	24.04	24.05	24.06	24.07	24.09	24.11	24.13	24.14	24.16	24.18	24.20	24.20	24.20	24.10	24.20	24.04
14	24.21	24.21	24.20	24.21	24.22	24.22	24.23	24.24	24.23	24.25	24.26	24.25	24.24	24.25	24.26	24.27	24.28	24.30	24.31	24.33	24.35	24.37	24.38	24.40	24.27	24.40	24.20
15	24.41	24.42	24.44	24.45	24.47	24.48	24.50	24.50	24.50	24.51	24.52	24.52	24.52	24.52	24.51	24.51	24.50	24.50	24.49	24.48	24.49	24.49	24.49	24.48	24.49	24.52	24.41
16	24.49	24.48	24.48	24.48	24.48	24.48	24.46	24.46	24.46	24.44	24.43	24.42	24.40	24.37	24.34	24.31	24.28	24.26	24.24	24.23	24.23	24.22	24.22	24.24	24.37	24.49	24.22
17	24.23	24.21	24.20	24.21	24.20	24.20	24.20	24.20	24.18	24.18	24.17	24.16	24.14	24.13	24.11	24.09	24.08	24.09	24.09	24.07	24.08	24.08	24.08	24.05	24.14	24.23	24.05
18	24.05	24.05	24.03	24.02	24.00	24.00	23.99	23.99	23.97	23.96	23.96	23.96	23.96	23.97	23.97	23.97	23.98	23.99	24.01	24.02	24.03	24.04	24.05	24.06	24.00	24.06	23.96
19	24.07	24.06	24.06	24.07	24.08	24.08	24.09	24.11	24.12	24.14	24.15	24.16	24.18	24.20	24.22	24.24	24.26	24.28	24.29	24.31	24.32	24.33	24.33	24.34	24.19	24.34	24.06
20	24.34	24.35	24.35	24.37	24.38	24.39	24.41	24.42	24.43	24.44	24.46	24.48	24.48	24.49	24.50	24.50	24.51	24.53	24.53	24.55	24.55	24.55	24.54	24.54	24.46	24.55	24.34
21	24.53	24.51	24.48	24.47	24.47	24.46	24.45	24.44	24.43	24.44	24.45	24.45	24.46	24.48	24.49	24.50	24.51	24.53	24.53	24.55	24.58	24.59	24.59	24.58	24.50	24.59	24.43
22	24.57	24.56	24.55	24.55	24.55	24.54	24.54	24.53	24.51	24.50	24.49	24.48	24.48	24.47	24.46	24.45	24.44	24.43	24.42	24.41	24.41	24.40	24.38	24.38	24.48	24.57	24.38
23	24.38	24.37	24.36	24.35	24.35	24.34	24.33	24.32	24.31	24.31	24.31	24.30	24.29	24.28	24.26	24.25	24.25	24.24	24.23	24.22	24.23	24.22	24.21	24.21	24.29	24.38	24.21
24	24.20	24.20	24.20	24.20	24.20	24.20	24.21	24.21	24.21	24.22	24.22	24.21	24.20	24.19	24.19	24.19	24.21	24.22	24.23	24.25	24.27	24.28	24.29	24.30	24.22	24.30	24.19
25	24.31	24.32	24.33	24.34	24.35	24.36	24.38	24.39	24.40	24.40	24.41	24.41	24.42	24.42	24.42	24.42	24.41	24.41	24.41	24.41	24.43	24.43	24.43	24.43	24.39	24.43	24.31
26	24.43	24.44	24.45	24.46	24.47	24.48	24.49	24.49	24.49	24.48	24.48	24.47	24.45	24.44	24.42	24.40	24.39	24.38	24.35	24.34	24.33	24.32	24.31	24.29	24.42	24.49	24.29
27	24.30	24.29	24.28	24.27	24.26	24.25	24.30	24.36	24.40	24.44	24.47	24.50	24.52	24.53	24.54	24.55	24.55	24.57	24.57	24.57	24.57	24.58	24.58	24.58	24.45	24.58	24.25
28	24.59	24.59	24.58	24.58	24.59	24.59	24.58	24.59	24.59	24.59	24.58	24.57	24.56	24.55	24.55	24.55	24.55	24.55	24.55	24.54	24.55	24.55	24.55	24.54	24.57	24.59	24.54
29	24.53	24.53	24.52	24.52	24.52	24.52	24.53	24.54	24.54	24.53	24.52	24.51	24.50	24.50	24.50	24.49	24.49	24.48	24.47	24.47	24.48	24.48	24.48	24.47	24.51	24.54	24.47
30	24.47	24.46	24.45	24.44	24.44	24.44	24.45	24.45	24.44	24.43	24.42	24.41	24.39	24.39	24.37	24.36	24.35	24.34	24.32	24.34	24.35	24.36	24.35	24.35	24.40	24.47	24.32
Avg	24.32	24.32	24.31	24.31	24.31	24.31	24.32	24.32	24.32	24.32	24.32	24.32	24.31	24.31	24.30	24.30	24.30	24.31	24.31	24.31	24.32	24.32	24.32	24.32	24.31	24.39	24.23
Max	24.59	24.59	24.58	24.58	24.59	24.59	24.58	24.59	24.59	24.59	24.58	24.57	24.56	24.55	24.55	24.55	24.55	24.57	24.57	24.57	24.58	24.59	24.59	24.58	24.57	24.59	24.54
Min	24.05	24.05	24.03	24.02	24.00	24.00	23.99	23.99	23.97	23.96	23.96	23.96	23.96	23.97	23.97	23.97	23.98	23.99	24.01	24.02	24.03	24.04	24.05	24.05	24.00	24.06	23.96

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
May 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	Avg	Max	Min
1	24.34	24.33	24.32	24.31	24.30	24.31	24.32	24.32	24.30	24.29	24.29	24.28	24.27	24.27	24.26	24.25	24.25	24.26	24.27	24.28	24.29	24.30	24.31	24.31	24.29	24.34	24.25
2	24.31	24.31	24.30	24.31	24.30	24.30	24.31	24.31	24.31	24.30	24.29	24.29	24.29	24.28	24.27	24.27	24.27	24.27	24.30	24.31	24.33	24.34	24.34	24.35	24.30	24.35	24.27
3	24.35	24.35	24.35	24.35	24.36	24.36	24.37	24.38	24.37	24.37	24.36	24.34	24.33	24.32	24.32	24.31	24.29	24.28	24.28	24.28	24.29	24.29	24.29	24.29	24.33	24.38	24.28
4	24.29	24.28	24.27	24.27	24.27	24.26	24.27	24.27	24.27	24.25	24.24	24.23	24.22	24.21	24.19	24.17	24.16	24.17	24.17	24.17	24.19	24.21	24.21	24.20	24.23	24.29	24.16
5	24.19	24.19	24.20	24.20	24.21	24.21	24.22	24.22	24.23	24.23	24.23	24.21	24.21	24.24	24.25	24.26	24.26	24.26	24.25	24.24	24.24	24.24	24.23	24.22	24.21	24.23	24.26
6	24.20	24.19	24.19	24.18	24.19	24.19	24.19	24.20	24.20	24.22	24.22	24.22	24.22	24.21	24.21	24.23	24.24	24.25	24.26	24.27	24.28	24.28	24.28	24.28	24.22	24.28	24.18
7	24.29	24.30	24.29	24.29	24.29	24.29	24.30	24.32	24.32	24.32	24.32	24.31	24.30	24.30	24.32	24.32	24.33	24.34	24.35	24.34	24.35	24.35	24.35	24.34	24.32	24.35	24.29
8	24.33	24.33	24.32	24.33	24.33	24.34	24.35	24.36	24.36	24.36	24.37	24.37	24.36	24.35	24.34	24.34	24.34	24.33	24.33	24.33	24.33	24.33	24.33	24.32	24.34	24.37	
9	24.34	24.34	24.35	24.36	24.36	24.35	24.36	24.36	24.36	24.35	24.34	24.34	24.35	24.37	24.35	24.37	24.36	24.36	24.37	24.39	24.40	24.41	24.41	24.41	24.36	24.41	
10	24.41	24.41	24.41	24.42	24.42	24.41	24.43	24.44	24.44	24.43	24.42	24.41	24.40	24.39	24.39	24.38	24.39	24.40	24.41	24.42	24.44	24.44	24.45	24.45	24.42	24.45	
11	24.45	24.45	24.45	24.45	24.45	24.45	24.46	24.47	24.47	24.48	24.49	24.49	24.49	24.50	24.49	24.50	24.51	24.51	24.52	24.53	24.53	24.55	24.55	24.55	24.49	24.55	
12	24.57	24.58	24.58	24.59	24.59	24.61	24.63	24.64	24.65	24.66	24.67	24.67	24.69	24.69	24.70	24.70	24.70	24.71	24.72	24.73	24.73	24.74	24.74	24.74	24.67	24.74	
13	24.75	24.74	24.74	24.74	24.75	24.76	24.77	24.79	24.80	24.81	24.81	24.81	24.80	24.80	24.81	24.81	24.81	24.82	24.82	24.83	24.84	24.84	24.84	24.83	24.80	24.84	
14	24.83	24.82	24.81	24.80	24.79	24.80	24.81	24.81	24.82	24.82	24.82	24.82	24.81	24.80	24.80	24.80	24.79	24.80	24.79	24.78	24.78	24.77	24.77	24.76	24.80	24.83	
15	24.76	24.74	24.72	24.71	24.71	24.72	24.71	24.70	24.70	24.69	24.67	24.66	24.64	24.62	24.60	24.58	24.56	24.56	24.56	24.57	24.57	24.57	24.58	24.57	24.64	24.76	
16	24.56	24.56	24.56	24.56	24.56	24.56	24.57	24.57	24.56	24.55	24.55	24.53	24.53	24.52	24.50	24.49	24.48	24.47	24.50	24.54	24.55	24.55	24.53	24.54	24.54	24.57	
17	24.54	24.54	24.53	24.53	24.53	24.53	24.54	24.53	24.53	24.53	24.52	24.51	24.50	24.48	24.47	24.47	24.46	24.46	24.45	24.46	24.47	24.48	24.49	24.49	24.50	24.54	
18	24.49	24.49	24.49	24.50	24.50	24.51	24.53	24.54	24.55	24.55	24.55	24.55	24.54	24.54	24.54	24.54	24.54	24.55	24.55	24.57	24.58	24.59	24.59	24.60	24.54	24.60	
19	24.60	24.60	24.59	24.59	24.59	24.60	24.62	24.63	24.63	24.62	24.62	24.61	24.60	24.60	24.59	24.58	24.58	24.57	24.56	24.56	24.57	24.58	24.58	24.58	24.59	24.63	
20	24.59	24.59	24.59	24.59	24.59	24.60	24.61	24.62	24.61	24.60	24.60	24.60	24.59	24.58	24.58	24.56	24.56	24.55	24.56	24.56	24.58	24.59	24.59	24.59	24.59	24.62	
21	24.58	24.58	24.58	24.57	24.56	24.55	24.55	24.54	24.53	24.52	24.51	24.49	24.48	24.47	24.45	24.43	24.43	24.45	24.44	24.44	24.45	24.45	24.43	24.42	24.50	24.58	
22	24.41	24.39	24.38	24.38	24.37	24.39	24.39	24.39	24.38	24.37	24.36	24.35	24.33	24.31	24.33	24.35	24.34	24.35	24.35	24.35	24.38	24.40	24.40	24.41	24.37	24.41	
23	24.41	24.40	24.40	24.40	24.41	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.41	24.41	24.41	24.40	24.38	24.38	24.39	24.40	24.40	24.41	24.40	24.40	24.41	24.42	
24	24.39	24.38	24.37	24.36	24.36	24.37	24.37	24.38	24.38	24.38	24.38	24.38	24.37	24.37	24.35	24.34	24.34	24.34	24.36	24.36	24.35	24.36	24.37	24.37	24.37	24.39	
25	24.37	24.36	24.36	24.36	24.36	24.36	24.37	24.37	24.38	24.38	24.38	24.38	24.37	24.36	24.37	24.36	24.37	24.39	24.41	24.41	24.41	24.41	24.41	24.41	24.38	24.41	
26	24.41	24.41	24.41	24.42	24.42	24.42	24.43	24.42	24.42	24.41	24.41	24.41	24.40	24.39	24.39	24.39	24.38	24.37	24.36	24.37	24.38	24.38	24.37	24.36	24.40	24.43	
27	24.35	24.34	24.35	24.34	24.34	24.33	24.33	24.33	24.34	24.34	24.34	24.33	24.32	24.32	24.32	24.31	24.32	24.32	24.34	24.35	24.35	24.35	24.36	24.36	24.34	24.36	
28	24.36	24.37	24.37	24.35	24.35	24.35	24.36	24.37	24.37	24.37	24.36	24.36	24.36	24.36	24.35	24.34	24.33	24.35	24.36	24.35	24.36	24.37	24.36	24.35	24.36	24.37	
29	24.35	24.35	24.35	24.35	24.35	24.36	24.37	24.37	24.37	24.37	24.36	24.36	24.36	24.34	24.33	24.32	24.32	24.31	24.31	24.32	24.34	24.35	24.35	24.35	24.35	24.37	
30	24.35	24.34	24.35	24.35	24.35	24.36	24.37	24.37	24.37	24.37	24.36	24.35	24.34	24.32	24.31	24.31	24.30	24.30	24.30	24.31	24.32	24.34	24.34	24.33	24.34	24.37	
31	24.32	24.32	24.32	24.32	24.33	24.33	24.33	24.33	24.32	24.31	24.29	24.28	24.28	24.27	24.29	24.31	24.30	24.29	24.29	24.29	24.30	24.30	24.29	24.30	24.30	24.33	
Avg	24.44	24.43	24.43	24.43	24.43	24.43	24.44	24.44	24.44	24.44	24.44	24.43	24.42	24.42	24.42	24.41	24.41	24.41	24.42	24.42	24.43	24.44	24.44	24.43	24.43	24.47	
Max	24.83	24.82	24.81	24.80	24.79	24.80	24.81	24.81	24.82	24.82	24.82	24.82	24.81	24.80	24.81	24.81	24.81	24.82	24.82	24.83	24.84	24.84	24.84	24.83	24.80	24.84	
Min	24.19	24.19	24.19	24.18	24.19	24.19	24.19	24.20	24.20	24.22	24.22	24.21	24.21	24.21	24.19	24.17	24.16	24.17	24.17	24.17	24.19	24.21	24.21	24.20	24.22	24.26	

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (inches of mercury)
June 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	24.30	24.29	24.30	24.33	24.34	24.35	24.35	24.36	24.36	24.36	24.36	24.35	24.35	24.35	24.39	24.41	24.43	24.44	24.45	24.45	24.44	24.42	24.37	24.45	24.29
2	24.42	24.42	24.41	24.42	24.42	24.43	24.43	24.44	24.45	24.45	24.46	24.46	24.46	24.46	24.45	24.45	24.45	24.46	24.46	24.46	24.46	24.47	24.46	24.46	24.45	24.47	24.41
3	24.45	24.44	24.44	24.45	24.45	24.46	24.47	24.48	24.48	24.49	24.49	24.50	24.50	24.51	24.51	24.52	24.52	24.53	24.53	24.54	24.54	24.54	24.54	24.54	24.50	24.54	24.44
4	24.54	24.54	24.54	24.54	24.53	24.53	24.54	24.55	24.55	24.54	24.54	24.53	24.53	24.52	24.51	24.50	24.50	24.50	24.50	24.50	24.51	24.52	24.52	24.51	24.52	24.55	24.50
5	24.51	24.50	24.49	24.48	24.48	24.49	24.49	24.49	24.48	24.48	24.47	24.46	24.45	24.44	24.43	24.43	24.41	24.42	24.43	24.45	24.46	24.47	24.46	24.46	24.46	24.51	24.41
6	24.46	24.46	24.45	24.46	24.46	24.47	24.47	24.47	24.47	24.47	24.47	24.47	24.46	24.45	24.44	24.43	24.42	24.43	24.43	24.43	24.44	24.44	24.45	24.44	24.45	24.47	24.42
7	24.43	24.44	24.43	24.42	24.42	24.43	24.44	24.44	24.44	24.43	24.41	24.41	24.41	24.40	24.41	24.38	24.38	24.38	24.39	24.42	24.41	24.43	24.43	24.44	24.42	24.44	24.38
8	24.43	24.44	24.44	24.43	24.43	24.44	24.45	24.45	24.45	24.44	24.44	24.44	24.43	24.43	24.43	24.43	24.43	24.44	24.43	24.43	24.43	24.44	24.45	24.45	24.44	24.45	24.43
9	24.44	24.43	24.44	24.43	24.43	24.45	24.45	24.45	24.46	24.46	24.46	24.46	24.46	24.44	24.43	24.43	24.42	24.42	24.43	24.45	24.46	24.46	24.47	24.47	24.45	24.47	24.42
10	24.47	24.46	24.46	24.45	24.45	24.45	24.46	24.47	24.47	24.46	24.46	24.47	24.47	24.48	24.49	24.49	24.49	24.49	24.48	24.47	24.47	24.48	24.48	24.48	24.47	24.49	24.45
11	24.48	24.48	24.47	24.47	24.47	24.47	24.47	24.46	24.45	24.44	24.43	24.43	24.42	24.41	24.40	24.39	24.39	24.40	24.41	24.42	24.43	24.44	24.44	24.44	24.44	24.48	24.39
12	24.44	24.44	24.44	24.44	24.44	24.45	24.45	24.45	24.45	24.44	24.43	24.43	24.42	24.42	24.41	24.42	24.43	24.43	24.44	24.45	24.46	24.47	24.47	24.46	24.44	24.47	24.41
13	24.46	24.45	24.44	24.44	24.44	24.44	24.43	24.43	24.43	24.42	24.40	24.39	24.36	24.34	24.32	24.32	24.32	24.33	24.30	24.28	24.28	24.28	24.26	24.25	24.37	24.46	24.25
14	24.23	24.22	24.22	24.21	24.21	24.22	24.22	24.22	24.23	24.24	24.24	24.24	24.24	24.22	24.22	24.22	24.21	24.22	24.24	24.26	24.27	24.30	24.30	24.31	24.24	24.31	24.21
15	24.30	24.31	24.32	24.33	24.34	24.36	24.38	24.39	24.40	24.41	24.42	24.43	24.44	24.44	24.46	24.47	24.48	24.49	24.51	24.52	24.53	24.55	24.55	24.56	24.43	24.56	24.30
16	24.56	24.57	24.56	24.55	24.55	24.57	24.58	24.58	24.57	24.56	24.54	24.53	24.51	24.50	24.49	24.47	24.46	24.45	24.44	24.43	24.43	24.43	24.43	24.42	24.51	24.58	24.42
17	24.41	24.40	24.40	24.40	24.40	24.39	24.39	24.40	24.40	24.39	24.37	24.36	24.34	24.33	24.32	24.31	24.30	24.29	24.29	24.29	24.28	24.27	24.25	24.22	24.34	24.41	24.22
18	24.19	24.17	24.15	24.13	24.10	24.07	24.05	24.04	24.06	24.07	24.08	24.09	24.09	24.10	24.10	24.10	24.12	24.12	24.11	24.12	24.13	24.14	24.15	24.16	24.11	24.19	24.04
19	24.16	24.16	24.16	24.16	24.17	24.17	24.16	24.17	24.16	24.15	24.14	24.14	24.12	24.11	24.11	24.14	24.17	24.19	24.23	24.25	24.27	24.29	24.30	24.30	24.18	24.30	24.11
20	24.32	24.33	24.35	24.36	24.38	24.38	24.40	24.41	24.41	24.41	24.41	24.41	24.41	24.42	24.41	24.42	24.42	24.43	24.52	24.51	24.50	24.51	24.53	24.54	24.42	24.54	24.32
21	24.53	24.53	24.53	24.52	24.53	24.55	24.56	24.56	24.56	24.55	24.55	24.54	24.53	24.53	24.53	24.55	24.57	24.57	24.56	24.57	24.57	24.59	24.58	24.57	24.55	24.59	24.52
22	24.57	24.57	24.56	24.56	24.56	24.56	24.57	24.57	24.56	24.55	24.53	24.52	24.50	24.49	24.48	24.47	24.46	24.45	24.44	24.44	24.45	24.46	24.46	24.45	24.51	24.57	24.44
23	24.45	24.44	24.42	24.42	24.42	24.41	24.41	24.41	24.39	24.38	24.37	24.37	24.35	24.34	24.34	24.35	24.38	24.41	24.41	24.40	24.42	24.43	24.44	24.44	24.40	24.45	24.34
24	24.45	24.46	24.47	24.48	24.49	24.50	24.51	24.52	24.52	24.52	24.53	24.54	24.53	24.55	24.54	24.54	24.53	24.52	24.54	24.54	24.54	24.55	24.55	24.55	24.52	24.55	24.45
25	24.55	24.55	24.54	24.54	24.55	24.55	24.56	24.56	24.55	24.54	24.53	24.52	24.51	24.50	24.48	24.48	24.48	24.49	24.51	24.51	24.52	24.53	24.52	24.52	24.52	24.56	24.48
26	24.51	24.50	24.48	24.47	24.47	24.48	24.49	24.48	24.47	24.46	24.45	24.44	24.43	24.42	24.42	24.42	24.41	24.42	24.41	24.42	24.43	24.44	24.43	24.41	24.45	24.51	24.41
27	24.40	24.39	24.38	24.37	24.37	24.37	24.37	24.38	24.37	24.36	24.35	24.36	24.36	24.36	24.35	24.35	24.35	24.36	24.37	24.38	24.39	24.42	24.42	24.41	24.37	24.42	24.35
28	24.41	24.40	24.41	24.41	24.42	24.43	24.44	24.45	24.45	24.46	24.48	24.49	24.49	24.47	24.46	24.47	24.48	24.47	24.48	24.48	24.49	24.50	24.51	24.51	24.46	24.51	24.40
29	24.50	24.50	24.51	24.51	24.51	24.52	24.54	24.55	24.55	24.54	24.54	24.53	24.53	24.52	24.51	24.51	24.50	24.50	24.50	24.51	24.52	24.53	24.54	24.55	24.52	24.55	24.50
30	24.54	24.54	24.54	24.54	24.54	24.56	24.57	24.57	24.56	24.56	24.55	24.54	24.53	24.53	24.52	24.51	24.51	24.51	24.50	24.51	24.52	24.53	24.54	24.54	24.54	24.57	24.50
Avg	24.43	24.43	24.42	24.42	24.42	24.43	24.44	24.44	24.44	24.43	24.43	24.43	24.42	24.42	24.41	24.41	24.41	24.42	24.42	24.43	24.44	24.45	24.45	24.44	24.43	24.48	24.37
Max	24.57	24.57	24.56	24.56	24.56	24.57	24.58	24.58	24.57	24.56	24.55	24.54	24.53	24.55	24.54	24.55	24.57	24.57	24.56	24.57	24.57	24.59	24.58	24.57	24.55	24.59	24.52
Min	24.16	24.16	24.15	24.13	24.10	24.07	24.05	24.04	24.06	24.07	24.08	24.09	24.09	24.10	24.10	24.10	24.12	24.12	24.11	24.12	24.13	24.14	24.15	24.16	24.11	24.19	24.04

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
April 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	81.4	82.4	79.4	73.0	66.9	65.0	61.8	64.4	56.6	57.7	54.0	52.4	53.8	56.8	59.7	62.1	80.0	63.5	51.3	50.9	51.6	50.1	59.7	62.3	62.4	82.4	50.1
2	64.4	64.1	71.5	70.7	61.8	61.7	64.0	61.0	56.0	55.7	51.1	53.7	48.8	44.1	41.1	38.0	41.8	32.8	36.6	45.0	51.2	54.4	57.9	65.3	53.9	71.5	32.8
3	64.5	68.9	73.0	75.0	76.0	76.9	74.8	69.7	56.7	52.6	46.6	44.5	38.1	40.9	69.0	78.0	73.1	65.0	65.4	64.1	65.1	66.6	68.8	70.3	64.3	78.0	38.1
4	70.5	74.7	77.0	78.0	78.1	78.3	77.7	69.4	65.8	62.1	62.2	60.7	59.5	60.2	58.8	58.6	59.5	60.6	62.6	65.2	68.6	72.5	75.6	77.6	68.1	78.3	58.6
5	77.5	78.2	78.7	76.8	76.4	75.3	74.2	72.3	66.1	59.0	52.5	59.4	60.8	56.7	50.1	51.2	62.5	57.1	55.0	63.9	62.8	61.9	65.0	69.2	65.1	78.7	50.1
6	71.1	73.6	72.2	70.3	71.7	77.6	75.7	71.2	63.5	50.2	45.6	43.6	40.9	38.9	35.5	34.5	34.7	37.7	46.9	55.6	59.7	63.9	67.2	65.5	57.0	77.6	34.5
7	66.1	71.1	67.0	63.7	69.6	71.7	72.1	67.8	53.9	41.6	40.5	38.4	36.1	28.2	29.6	27.9	29.4	35.0	34.7	37.7	37.4	44.8	50.6	46.9	48.4	72.1	27.9
8	51.3	57.2	62.3	65.8	66.3	68.8	65.0	64.5	59.2	47.6	48.9	48.7	46.6	48.2	47.1	44.1	44.9	46.2	50.4	54.6	54.4	58.2	56.0	58.1	54.8	68.8	44.1
9	57.1	61.2	66.1	70.3	74.1	76.4	76.2	67.3	60.6	47.6	48.8	44.9	43.2	41.9	39.5	40.8	48.3	48.5	48.8	59.7	55.6	56.0	60.1	65.1	56.6	76.4	39.5
10	66.4	71.1	77.2	77.3	78.3	80.7	81.9	77.2	64.3	51.5	51.3	56.1	52.1	50.1	44.6	40.8	44.4	47.7	47.2	49.9	42.5	38.6	39.1	40.5	57.1	81.9	38.6
11	44.7	47.8	49.3	48.4	44.3	53.9	51.3	45.7	40.5	39.8	36.1	34.7	38.1	36.7	32.7	34.4	40.3	50.4	57.6	63.2	67.3	65.3	73.4	86.2	49.3	86.2	32.7
12	86.0	88.5	89.4	89.6	89.0	89.0	88.0	87.9	86.5	83.3	82.1	77.0	79.9	82.0	85.0	86.0	85.8	86.8	86.3	89.5	90.0	89.8	85.3	77.9	85.9	90.0	77.0
13	83.1	83.3	76.5	76.4	78.8	86.2	87.9	87.8	84.8	82.1	69.1	65.3	67.8	71.5	73.8	71.7	70.7	79.3	81.3	84.2	87.8	87.3	87.4	87.3	79.6	87.9	65.3
14	86.8	85.7	84.5	81.7	80.7	79.9	81.2	82.8	84.8	85.5	65.2	60.9	56.2	53.8	52.6	56.9	57.1	68.7	73.0	77.3	82.0	84.2	85.0	86.1	74.7	86.8	52.6
15	85.4	84.9	84.5	83.8	83.0	82.7	82.6	81.8	68.2	56.4	54.7	50.2	48.3	45.3	44.8	41.4	39.0	38.4	44.1	61.2	71.6	74.6	79.6	79.7	65.3	85.4	38.4
16	81.5	81.5	82.1	82.0	80.5	78.7	75.5	64.1	44.1	45.0	41.2	37.2	34.9	34.5	33.0	35.4	38.2	33.6	35.2	39.9	43.8	58.7	60.1	64.8	54.4	82.1	33.0
17	75.4	78.8	84.1	83.3	82.2	84.7	83.3	70.5	67.9	49.0	46.8	40.5	35.3	32.7	32.8	35.7	40.0	53.6	70.8	72.9	77.1	80.5	82.9	80.5	64.2	84.7	32.7
18	89.3	89.3	89.6	89.2	88.5	87.5	82.9	66.7	66.1	59.9	57.6	53.9	49.2	75.7	76.5	65.2	67.3	75.4	83.0	86.1	86.2	80.0	81.7	85.1	76.3	89.6	49.2
19	86.4	85.0	84.1	84.1	83.4	83.8	84.3	83.6	82.8	81.9	80.9	80.3	79.8	79.4	79.9	78.1	77.3	76.0	78.5	82.4	83.1	84.1	82.5	83.2	81.9	86.4	76.0
20	82.6	82.9	81.4	80.6	81.4	82.1	81.3	78.6	74.9	75.2	74.1	72.8	73.3	70.7	65.4	68.4	67.4	64.7	68.0	76.8	81.5	83.5	81.7	82.2	76.3	83.5	64.7
21	80.9	80.2	78.8	78.9	79.1	80.6	82.2	83.7	83.6	74.1	63.8	77.7	77.2	61.8	58.2	61.2	67.0	63.9	70.3	72.9	72.7	76.4	79.5	80.7	74.4	83.7	58.2
22	80.7	82.0	81.7	78.5	79.7	80.9	74.0	63.2	59.5	49.8	61.7	64.1	58.0	51.7	51.6	49.5	52.2	51.4	53.4	66.3	74.0	79.7	82.4	84.2	67.1	84.2	49.5
23	84.9	84.2	85.0	84.5	84.0	84.2	78.5	65.8	60.0	51.4	44.1	42.4	41.1	38.5	40.2	40.5	41.3	38.1	52.0	57.0	61.6	73.3	78.3	80.6	62.1	85.0	38.1
24	82.7	81.6	83.2	84.8	84.6	84.0	79.6	74.7	66.7	70.4	73.3	64.7	49.7	43.6	35.1	47.7	64.1	75.4	84.1	83.9	85.1	85.5	88.7	87.6	73.4	88.7	35.1
25	86.4	87.3	87.8	88.7	88.8	88.0	86.6	75.2	56.2	61.9	62.5	63.3	63.2	60.4	59.4	56.4	56.6	56.1	61.1	66.5	67.1	66.0	71.3	79.1	70.7	88.8	56.1
26	83.2	83.6	85.2	85.9	87.1	87.2	83.9	74.2	63.4	57.0	52.6	47.8	44.8	43.9	42.4	40.9	43.5	47.8	52.2	65.1	70.1	68.4	48.4	45.7	62.7	87.2	40.9
27	48.6	54.1	58.0	61.1	60.6	63.6	80.3	84.8	86.3	85.8	84.6	82.8	79.4	72.1	70.6	72.9	64.6	61.9	68.0	75.8	82.3	85.4	85.9	86.8	73.2	86.8	48.6
28	85.9	86.7	86.7	85.9	85.6	85.5	80.6	72.9	66.7	47.1	39.0	38.8	36.4	34.1	33.0	35.9	32.6	32.6	34.7	49.3	59.5	67.0	73.3	75.8	59.4	86.7	32.6
29	81.9	83.1	85.0	85.1	85.5	85.4	78.7	59.7	50.5	37.7	34.0	31.9	31.4	30.2	30.8	29.2	29.0	26.0	30.6	49.5	59.0	66.2	74.1	72.9	55.3	85.5	26.0
30	77.3	77.0	81.6	83.5	85.3	86.1	76.8	65.8	49.9	39.7	36.5	32.1	25.2	23.4	21.9	18.8	14.4	15.7	31.4	39.4	43.4	46.4	49.0	51.3	48.8	86.1	14.4
Avg	75.5	77.0	78.1	77.9	77.7	78.9	77.4	71.8	64.9	58.6	55.4	54.0	51.6	50.3	49.8	50.1	52.2	53.0	57.1	63.5	66.5	69.0	71.0	72.6	64.7	83.0	44.5
Max	89.3	89.3	89.6	89.6	89.0	89.0	88.0	87.9	86.5	85.8	84.6	82.8	79.9	82.0	85.0	86.0	85.8	86.8	86.3	89.5	90.0	89.8	88.7	87.6	85.9	90.0	77.0
Min	44.7	47.8	49.3	48.4	44.3	53.9	51.3	45.7	40.5	37.7	34.0	31.9	25.2	23.4	21.9	18.8	14.4	15.7	30.6	37.7	37.4	38.6	39.1	40.5	48.4	68.8	14.4

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
May 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	57.4	63.9	71.2	75.0	82.9	83.4	74.7	55.8	38.5	33.1	32.5	30.6	29.2	28.4	27.9	27.6	26.6	26.4	28.3	33.2	38.2	38.3	39.1	41.4	45.2	83.4	26.4
2	41.3	42.2	47.4	59.7	68.9	73.7	64.2	48.0	36.0	29.8	24.0	23.7	22.2	20.7	19.7	21.9	24.6	28.4	35.4	41.1	50.9	59.5	66.4	67.6	42.4	73.7	19.7
3	71.9	76.5	79.4	82.8	85.3	87.5	85.7	73.9	60.0	41.9	34.6	31.1	29.4	32.6	52.6	44.0	33.6	32.4	35.4	53.1	60.5	66.9	70.0	76.6	58.2	87.5	29.4
4	79.1	81.5	85.8	86.6	85.9	85.1	77.5	49.7	35.0	33.3	29.5	27.2	26.0	27.6	28.1	24.3	23.7	25.0	27.8	31.5	35.4	40.7	45.7	47.8	47.5	86.6	23.7
5	51.8	61.6	69.1	69.9	75.9	73.2	79.3	82.6	81.5	68.0	55.0	53.5	71.9	79.9	82.9	84.8	84.2	85.5	86.3	86.7	87.6	75.0	78.4	86.7	75.5	87.6	51.8
6	87.3	88.9	89.5	90.8	91.7	91.9	91.9	89.0	76.7	79.7	74.5	66.9	64.9	56.0	56.7	57.6	74.4	67.7	74.1	78.0	82.8	85.3	85.3	82.7	78.5	91.9	56.0
7	86.2	88.1	86.9	88.3	89.2	89.0	82.8	66.8	60.5	58.1	58.9	57.7	54.1	48.6	66.4	83.0	76.9	74.1	71.4	78.1	85.0	87.5	89.6	89.8	75.7	89.8	48.6
8	90.4	90.8	89.7	88.6	88.4	89.3	88.6	87.5	86.8	82.4	77.8	68.5	58.7	50.3	45.2	39.1	35.2	32.9	36.1	50.5	71.7	75.4	76.0	82.9	70.1	90.8	32.9
9	83.1	82.4	80.3	83.0	86.5	88.5	83.7	73.5	67.0	56.4	51.9	50.2	54.1	78.3	62.8	81.4	72.3	58.6	54.4	65.1	76.7	83.6	86.3	88.1	72.8	88.5	50.2
10	89.1	89.0	88.9	88.7	89.1	88.0	81.8	71.3	57.9	48.0	40.8	39.1	36.3	34.3	32.3	33.8	35.4	53.0	62.8	74.9	77.0	80.2	84.3	87.1	65.1	89.1	32.3
11	88.7	89.1	87.4	89.7	90.2	90.5	90.3	89.3	88.6	84.5	81.8	74.6	72.6	73.7	67.9	70.4	81.4	83.0	78.6	84.1	89.4	87.9	88.3	90.4	83.9	90.5	67.9
12	91.2	91.6	91.6	91.6	91.4	91.5	89.5	77.3	70.4	65.9	60.1	55.8	56.5	53.5	51.3	53.8	56.5	51.7	58.6	65.7	74.9	83.0	86.2	87.5	72.8	91.6	51.3
13	89.1	89.4	90.6	90.6	90.3	89.8	89.0	87.2	78.9	70.3	62.8	61.9	59.3	57.0	58.0	59.8	62.1	64.2	67.9	69.5	71.7	73.3	74.2	72.3	74.1	90.6	57.0
14	71.7	75.1	78.1	75.9	78.2	80.6	77.8	77.6	81.3	74.6	70.1	66.3	62.6	61.5	62.4	61.3	64.6	70.0	72.1	75.3	75.8	76.1	78.8	75.7	72.6	81.3	61.3
15	76.8	77.6	81.4	84.8	84.7	84.0	76.7	72.5	65.6	58.3	48.4	43.8	38.7	38.2	33.6	29.1	30.6	35.6	43.1	59.3	69.5	77.0	81.9	86.5	61.6	86.5	29.1
16	89.2	90.2	90.4	89.8	88.8	88.5	82.1	70.7	50.6	46.6	43.8	39.5	36.5	36.4	33.0	34.1	34.0	38.3	65.4	85.2	85.7	85.0	80.4	81.5	65.2	90.4	33.0
17	85.3	89.0	89.7	89.7	87.6	80.8	82.6	81.7	76.4	64.5	60.9	50.8	43.8	49.6	47.4	43.2	43.4	47.6	60.9	71.3	81.0	83.5	81.9	83.0	69.8	89.7	43.2
18	85.0	85.7	87.5	89.8	89.7	90.1	87.0	75.9	59.0	41.2	36.8	34.0	32.3	29.4	29.0	31.4	27.9	25.5	30.5	42.5	55.3	68.3	74.1	73.9	57.6	90.1	25.5
19	78.9	85.7	87.4	88.7	88.2	87.9	82.2	72.1	52.2	43.1	42.2	39.6	31.4	24.1	20.8	20.7	23.2	21.0	27.9	52.8	59.2	64.8	67.2	76.0	55.7	88.7	20.7
20	73.4	82.1	86.6	88.1	88.7	88.5	77.4	64.5	48.5	38.4	34.9	32.2	29.2	26.5	21.4	19.6	21.6	22.3	28.5	49.6	56.7	64.8	72.6	81.3	54.1	88.7	19.6
21	79.6	79.7	81.9	84.2	89.0	89.3	81.3	62.6	45.4	37.0	35.6	33.0	26.4	32.1	25.0	32.4	35.5	43.4	47.3	44.9	55.8	64.7	72.1	78.1	56.5	89.3	25.0
22	78.8	82.0	86.1	87.9	89.3	86.9	82.1	64.1	53.2	48.4	45.3	44.4	40.0	33.9	40.7	59.4	53.7	53.0	55.7	60.2	67.5	73.8	78.8	79.5	64.4	89.3	33.9
23	83.0	85.7	86.7	88.4	90.1	89.3	77.9	63.1	52.9	53.6	48.6	45.2	40.4	39.2	39.3	37.8	39.1	47.4	57.0	62.6	60.1	67.7	67.2	70.2	62.2	90.1	37.8
24	73.7	74.4	77.8	77.5	82.1	84.7	82.4	79.3	75.6	72.4	63.3	57.1	55.0	59.9	57.2	56.3	63.0	76.4	84.2	80.8	86.1	86.9	89.5	89.8	74.4	89.8	55.0
25	90.0	91.0	91.9	91.8	92.0	91.9	91.2	87.3	84.3	86.7	79.6	72.7	67.3	69.6	71.3	71.2	77.8	81.9	85.5	87.8	87.1	88.4	88.8	89.9	84.0	92.0	67.3
26	91.0	91.3	91.9	92.1	92.2	92.6	91.9	83.5	68.0	62.0	63.1	68.8	70.1	66.4	71.1	73.0	70.2	78.8	79.1	79.7	84.4	86.1	87.9	90.3	80.2	92.6	62.0
27	90.6	91.0	90.3	89.4	90.6	91.3	90.7	86.9	82.7	84.5	79.8	72.6	66.4	63.5	64.2	60.7	58.0	61.0	68.0	77.9	83.5	88.3	88.9	89.5	79.6	91.3	58.0
28	90.5	90.1	90.6	90.8	91.3	91.5	89.3	79.5	71.2	66.4	61.1	57.2	71.2	61.3	54.8	50.0	52.8	77.7	79.0	80.9	86.8	88.8	88.6	88.7	77.1	91.5	50.0
29	89.2	90.7	91.9	91.9	92.4	92.7	92.6	86.3	72.6	66.0	62.9	57.9	50.1	47.7	45.6	46.8	43.2	42.0	48.1	56.0	75.9	78.6	84.5	89.4	70.6	92.7	42.0
30	89.3	90.4	90.5	91.1	91.3	90.7	84.1	66.8	49.2	42.5	39.4	39.6	40.2	34.2	35.9	34.2	30.5	28.9	38.8	47.2	54.7	67.4	76.4	81.5	59.8	91.3	28.9
31	86.0	87.9	87.1	89.7	89.3	88.3	77.2	60.9	50.4	47.5	49.8	42.5	45.2	58.3	76.7	84.0	87.3	85.2	84.2	83.7	87.3	89.0	90.0	90.8	75.8	90.8	42.5
Avg	80.9	83.1	84.7	86.0	87.5	87.5	83.4	73.8	63.8	57.6	53.2	49.6	47.8	47.5	47.8	49.2	49.8	52.2	57.2	64.8	71.4	75.3	78.0	80.5	67.2	89.0	41.4
Max	91.2	91.6	91.9	92.1	92.4	92.7	92.6	89.3	88.6	86.7	81.8	74.6	72.6	79.9	82.9	84.8	87.3	85.5	86.3	87.8	89.4	89.0	90.0	90.8	84.0	92.7	67.9
Min	41.3	42.2	47.4	59.7	68.9	73.2	64.2	48.0	35.0	29.8	24.0	23.7	22.2	20.7	19.7	19.6	21.6	21.0	27.8	31.5	35.4	38.3	39.1	41.4	42.4	73.7	19.6

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (Percent)
June 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	91.8	91.9	91.7	91.7	91.7	91.1	88.7	80.3	70.0	60.0	51.2	55.0	59.1	55.6	54.0	59.2	66.0	80.8	77.5	83.3	87.9	90.0	88.5	88.6	76.9	91.9	51.2
2	89.2	90.4	90.5	90.2	90.8	90.8	91.6	90.8	90.2	88.7	86.2	84.6	84.7	84.9	86.3	87.3	87.1	88.1	86.3	87.9	84.1	82.8	88.6	86.2	87.8	91.6	82.8
3	87.8	88.0	88.6	89.0	90.3	90.8	89.4	88.3	83.7	83.1	80.9	81.2	84.9	87.1	86.9	84.4	82.2	77.8	76.9	79.7	82.7	85.4	86.9	88.9	85.2	90.8	76.9
4	90.3	91.1	91.4	91.9	92.0	92.0	92.0	83.6	57.6	60.0	58.6	57.5	54.5	52.6	52.4	62.3	59.9	67.3	66.7	73.4	83.9	84.1	83.7	86.6	74.4	92.0	52.4
5	86.6	88.0	90.0	90.1	91.1	91.2	82.9	71.9	65.8	63.3	55.9	50.4	49.9	42.2	44.8	48.2	45.5	54.2	65.2	80.1	84.7	88.7	88.7	87.9	71.1	91.2	42.2
6	89.6	90.0	90.9	91.4	91.8	92.3	84.6	75.1	74.7	69.0	73.7	76.7	71.0	68.0	65.9	65.3	69.3	71.0	75.7	78.3	84.5	86.6	90.1	90.0	79.8	92.3	65.3
7	91.1	88.8	88.7	89.0	90.7	87.7	80.7	71.0	60.4	52.1	48.9	62.9	49.5	48.5	63.0	47.6	34.5	46.0	61.9	65.9	80.7	85.1	84.6	87.7	69.5	91.1	34.5
8	89.1	89.2	90.1	90.6	90.8	89.0	86.2	77.8	68.4	68.8	77.5	73.0	70.3	74.4	78.2	77.1	79.0	86.5	88.2	87.5	86.2	87.6	90.1	91.0	82.8	91.0	68.4
9	90.6	91.0	91.4	91.3	91.6	91.6	89.6	83.3	75.5	70.1	67.3	62.6	56.9	51.2	42.6	40.0	49.3	57.9	58.9	73.8	79.4	82.6	83.1	85.5	73.2	91.6	40.0
10	86.3	88.0	89.1	90.7	91.6	91.7	89.6	82.1	70.0	63.0	79.8	81.4	83.6	82.9	80.0	74.1	66.3	75.8	78.9	81.7	83.7	86.6	82.0	79.1	81.6	91.7	63.0
11	80.1	82.4	84.3	83.3	82.8	79.6	74.6	72.2	65.5	60.8	59.3	59.0	59.6	57.3	53.6	54.9	53.5	54.8	63.5	70.8	78.3	78.2	75.1	73.1	69.0	84.3	53.5
12	75.0	76.5	78.9	85.2	87.7	84.5	73.2	55.9	47.2	49.9	43.6	46.0	49.2	43.4	56.8	52.8	44.9	44.8	58.2	55.6	66.4	73.6	82.0	85.4	63.2	87.7	43.4
13	87.5	88.2	89.4	88.2	89.1	86.9	85.6	77.7	65.9	60.9	49.8	49.7	43.7	40.6	40.7	52.0	66.7	82.1	78.8	83.4	83.7	87.0	89.6	89.8	73.2	89.8	40.6
14	90.9	92.0	92.4	92.0	91.7	91.2	90.5	85.0	85.3	82.0	67.4	54.7	46.4	40.1	34.5	32.0	31.6	32.0	31.9	34.0	47.4	60.4	67.6	74.0	64.5	92.4	31.6
15	80.0	81.4	79.6	80.4	85.8	81.1	69.7	54.6	51.6	48.8	49.0	45.9	49.5	49.8	55.0	61.1	60.8	61.8	65.1	65.7	68.0	73.9	81.9	83.6	66.0	85.8	45.9
16	85.2	85.1	87.9	88.0	89.2	87.6	77.9	64.2	60.7	59.7	51.3	49.6	49.5	48.6	43.3	41.7	40.5	38.4	39.0	48.7	63.8	77.7	79.7	84.9	64.3	89.2	38.4
17	85.3	86.8	88.6	88.4	88.4	88.5	87.8	83.7	81.4	82.3	80.2	78.7	73.4	62.8	59.5	54.7	50.4	49.1	55.7	68.9	77.8	83.0	84.4	85.8	76.1	88.6	49.1
18	89.5	86.1	85.5	84.8	86.7	87.4	83.3	79.2	87.4	87.7	84.8	78.9	73.6	73.7	59.5	59.8	64.3	55.7	55.6	57.9	69.1	74.0	85.1	86.8	76.5	89.5	55.6
19	87.1	87.4	89.4	88.9	88.1	85.1	79.1	65.5	48.9	41.2	43.9	44.3	44.9	46.0	47.2	48.5	50.9	55.0	57.4	59.1	72.7	74.5	79.6	81.5	65.3	89.4	41.2
20	85.7	87.5	86.3	88.2	85.8	80.9	65.6	59.5	53.9	43.2	44.1	44.7	43.1	39.8	36.9	35.6	34.7	51.9	75.6	83.7	86.4	88.5	90.4	89.4	65.9	90.4	34.7
21	88.3	89.2	89.4	89.6	90.4	90.7	84.1	69.7	60.5	56.7	51.3	45.1	41.9	39.4	42.6	58.9	66.6	68.8	63.7	68.4	82.1	85.6	85.4	88.7	70.7	90.7	39.4
22	87.7	89.0	89.4	88.6	88.7	85.3	75.8	64.3	47.7	36.5	29.8	27.8	31.5	32.0	32.6	35.7	39.6	41.1	47.0	52.2	56.2	62.4	64.0	70.5	57.3	89.4	27.8
23	76.3	82.5	85.5	87.9	89.0	88.3	85.7	75.0	64.4	59.7	62.6	62.7	60.8	60.8	63.0	62.3	76.0	83.9	87.7	89.0	89.5	90.1	89.3	88.6	77.5	90.1	59.7
24	88.3	88.8	89.8	89.3	88.3	89.0	85.6	75.7	69.7	67.9	69.0	72.0	65.5	83.4	73.1	59.4	53.5	57.4	69.9	77.7	84.9	87.6	87.9	88.1	77.6	89.8	53.5
25	88.9	91.0	91.6	91.7	91.6	91.0	80.5	72.7	54.5	47.2	40.2	42.1	38.1	34.3	39.2	42.6	40.2	60.4	56.0	63.8	65.0	70.4	74.7	75.5	64.3	91.7	34.3
26	84.2	86.5	89.6	90.1	91.1	89.5	77.3	62.1	51.6	44.8	45.7	50.6	45.2	48.0	49.7	47.9	56.3	51.1	60.9	68.3	77.7	81.1	82.4	84.8	67.4	91.1	44.8
27	85.6	85.2	86.6	88.5	89.7	89.5	86.0	71.2	55.5	44.3	53.8	58.9	71.8	60.3	43.2	40.7	44.1	49.0	54.4	57.4	65.7	71.3	71.4	75.4	66.6	89.7	40.7
28	80.3	81.6	85.1	87.2	88.2	87.7	82.6	70.0	67.5	70.6	82.9	84.7	84.1	77.5	74.4	65.2	67.9	52.4	67.3	76.4	84.8	86.4	85.3	87.2	78.2	88.2	52.4
29	89.9	90.5	91.5	92.0	92.1	92.6	90.7	73.5	58.5	49.1	49.3	44.3	43.2	40.3	37.8	37.7	37.7	52.0	54.1	57.0	72.0	82.6	84.7	86.0	66.6	92.6	37.7
30	86.4	86.1	90.8	90.5	91.4	90.5	77.7	64.2	51.4	49.2	45.6	43.0	44.5	44.1	38.7	36.8	35.6	34.0	43.5	56.9	68.1	75.3	81.4	85.1	63.0	91.4	34.0
Avg	86.5	87.3	88.5	89.0	89.6	88.5	83.0	73.3	64.8	60.7	59.5	58.9	57.5	55.7	54.5	54.2	55.2	59.4	64.0	69.6	76.6	80.8	82.9	84.5	71.8	90.2	47.8
Max	91.8	92.0	92.4	92.0	92.1	92.6	92.0	90.8	90.2	88.7	86.2	84.7	84.9	87.1	86.9	87.3	87.1	88.1	88.2	89.0	89.5	90.1	90.4	91.0	87.8	92.6	82.8
Min	75.0	76.5	78.9	80.4	82.8	79.6	65.6	54.6	47.2	36.5	29.8	27.8	31.5	32.0	32.6	32.0	31.6	32.0	31.9	34.0	47.4	60.4	64.0	70.5	57.3	84.3	27.8

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
April 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	
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	
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	
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	
5	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	0.00	0.00	0.01	
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
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	
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	
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	
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	
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	
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	0.02	0.02	0.05	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
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	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
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	0.01	0.01	0.01	
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	
18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
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	
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
23	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	0.00	0.00	0.00	0.01	
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	0.01	0.00	0.00	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	0.00	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	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.01	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	0.07	
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	
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	
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	
Tot	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.06	0.03	0.03	0.03	0.07	0.08	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.01	0.42	
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.02	0.01	0.02	0.02	0.05	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.17	

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
May 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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
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	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.08	0.01	0.05	0.01	0.01	0.01	0.01	0.03	0.01	0.00	0.00	0.29	0.08
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.00	0.04	0.02
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	0.03	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.08	0.03
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.03	0.02
9	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.07
10	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	0.00	0.00	0.00	0.00	0.01	0.04	0.06	0.04	
11	0.01	0.11	0.05	0.02	0.02	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.12
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.07	0.09	0.08	0.06	0.00	0.41	0.11
17	0.07	0.07	0.05	0.03	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	0.00	0.00	0.23	0.07
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	0.06	0.00	0.00	0.00	0.00	0.01	0.07	0.06
25	0.00	0.00	0.00	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.60	0.43
26	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	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
27	0.00	0.02	0.34	0.07	0.06	0.05	0.02	0.05	0.02	0.03	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	0.67	0.34
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	0.05	0.00	0.00	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.14	0.06
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	0.04	0.09	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.10
Tot	0.08	0.20	0.44	0.18	0.29	0.07	0.04	0.07	0.04	0.05	0.01	0.00	0.12	0.13	0.15	0.22	0.61	0.20	0.26	0.08	0.12	0.09	0.07	0.05	3.57	0.00
Max	0.07	0.11	0.34	0.07	0.13	0.05	0.02	0.05	0.02	0.03	0.01	0.00	0.06	0.08	0.09	0.07	0.43	0.12	0.11	0.07	0.09	0.08	0.06	0.04	0.67	0.43

Sandfire Resources America Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
June 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	0.01	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	0.12	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.17	0.12
2	0.00	0.00	0.00	0.00	0.00	0.07	0.11	0.15	0.05	0.01	0.02	0.02	0.05	0.07	0.06	0.06	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.15
3	0.02	0.01	0.04	0.00	0.01	0.01	0.06	0.03	0.00	0.00	0.00	0.01	0.04	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.06
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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
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	0.04	0.13	0.00	0.00	0.00	0.00	0.17	0.13
6	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
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	0.01	0.00	0.00	0.00	0.01	0.01
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.01	0.00	0.00	0.04	0.18	0.03	0.00	0.00	0.00	0.00	0.00	0.35	0.18
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	0.01	0.00	0.00	0.00	0.01	0.01
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.04	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.10
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	0.01	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.12	0.09
14	0.00	0.00	0.00	0.06	0.02	0.00	0.00	0.01	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.06
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	0.01	0.01	0.00	0.01	0.05	0.05	0.02	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	0.16	0.05
18	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.04	0.09	0.07	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.09
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	0.06	0.00	0.00	0.00	0.00	0.00	0.06	0.06
21	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
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	0.47	0.12	0.06	0.00	0.00	0.00	0.02	0.03	0.70	0.47
24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.18	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.30	0.18
25	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	0.00	0.00	0.00	0.00	0.00	0.01	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	0.00	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	0.01	0.04	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.14
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
Tot	0.05	0.01	0.05	0.07	0.06	0.11	0.17	0.24	0.25	0.17	0.27	0.26	0.19	0.32	0.07	0.11	0.66	0.47	0.28	0.13	0.02	0.00	0.02	0.03	4.01	0.00
Max	0.02	0.01	0.04	0.06	0.02	0.07	0.11	0.15	0.09	0.07	0.10	0.14	0.05	0.18	0.06	0.06	0.47	0.18	0.06	0.13	0.01	0.00	0.02	0.03	0.72	0.47

APPENDIX B: PERFORMANCE AUDIT REPORT (AUDIT PERFORMED DURING THIRD QUARTER 2023)



BISON ENGINEERING, INC.

Bison Engineering

Preliminary Meteorological Parameters Audit Form

Audit Dates: 08/10/2023 Tower Lowered : 1030 MST Tower Back Up : 1710 MST
 Client: Tintina Resources
 Site: Black Butte
 AUDITOR: Steve Heck PRECEDING CALIBRATION BY: Don Milmine
 Daniel Bitz

Temperature

Audit Device: Control Company - digital thermometer Model 4000
 Meter S/N: 130236679 Temperature Sensor: Climatronics 100093
 Last certified: 07/14/2023 S/N X17929 (Upper), S/N X17927 (Lower) - Matched Set

Temperature bath results

	9m	9m	2m	2m	9m - 2m
Audit	DAS	DAS	DAS	DAS	DAS
Value	Value	Diff.	Value	Diff.	Diff.
°C	°C	°C	°C	°C	°C
0.08	0.22	0.14	0.22	0.14	0.00
16.93	16.89	-0.04	16.85	-0.08	0.04
39.69	39.90	0.21	39.87	0.18	0.03

Wind Direction

Sensor height: 9 Meter
 Sensor (Make/model number): Climatronics/ 102083
 Serial Number : P1336C

As-found Crossarm Orientation:

GPS location at sensor:

N 46 deg 46.352 min, W 110 deg 52.949 min

GPS location at sighting point south of sensor:

N 46 deg 46.304 min, W 110 deg 52.949 min

Calculated as-found crossarm orientation:

180.0 deg

As-left Crossarm Orientation:

**No adjustment made to orientation
 w/alignment notch**

Existing Crossarm

As-found Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.0	0.1	0.0	0.1
30	28.3	28.2	-1.7	-1.8
60	58.1	58.1	-1.9	-1.9
90	88.0	88.0	-2.0	-2.0
120	118.1	118.1	-1.9	-1.9
150	147.7	147.7	-2.3	-2.3
180	177.7	177.7	-2.3	-2.3
210	207.4	207.3	-2.6	-2.7
240	237.9	237.9	-2.1	-2.1
270	268.1	268.2	-1.9	-1.8
300	298.4	298.4	-1.6	-1.6
330	328.6	328.7	-1.4	-1.3
		Max Diff	-2.6	-2.7

Replacement Crossarm

As-left Linearity Check from DAS

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.2	0.6	0.2	0.6
30	29.3	30.0	-0.7	0.0
60	59.0	58.9	-1.0	-1.1
90	89.7	89.6	-0.3	-0.4
120	119.5	119.2	-0.5	-0.8
150	149.5	148.6	-0.5	-1.4
180	179.0	179.0	-1.0	-1.0
210	209.5	208.9	-0.5	-1.1
240	238.1	238.3	-1.9	-1.7
270	268.4	268.0	-1.6	-2.0
300	298.5	299.0	-1.5	-1.0
330	329.7	330.1	-0.3	0.1
		Max Diff	-1.9	-2.0

Wind direction read 90.1 degrees with vane parallel with crossarm
 Should read 180 degrees since crossarm oriented N/S ***Wind direction
 data must be corrected by +90 degrees***

Wind direction read 181.3 degrees with vane parallel to crossarm Data from
 this point forward won't require correction.

Wind Direction continued:

Sensor response aligned with crossarm (as found): 90.1 deg (Crossarm was oriented North-South)
Sensor response aligned with crossarm (as left): 181.3 deg (Crossarm was changed and WD shaft position oriented to reflect N/S crossarm orientation)
Linearity Audit Device: Climatronics 101966, SN 72
As-found Threshold Torque: 0.07 oz-in
As-left Threshold Torque: 0.12 oz-in.
(Waters torque watch)

Wind Speed

Sensor height:: 9 Meter
Sensor (Make/model number): Climatronics/ 102083
Serial Number : No S/N
Calibration device: RM Young Model 18811 S/N CA02929

As-found Threshold Torque: 0.004 oz-in
As-left Threshold Torque: 0.004 oz-in
(Waters torque watch)

Existing Crossarm

As-found Synchronous motor checks

Known Value	Known Value	DAS Value	DAS Diff.
RPM	m/s	m/s	m/s
0	0.22	0.22	0.00
300	6.66	6.41	-0.25
600	13.09	12.41	-0.68

Replacement Crossarm

As-left Synchronous motor checks

Known Value	Known Value	DAS Value	DAS Diff.
RPM	m/s	m/s	m/s
0	0.22	0.22	0.00
300	6.66	6.72	0.06
600	13.09	13.22	0.13

There was clearly a problem with the WS
Checked internal mechanics and shims
WS card seemed to fail completely
during this process

Solar Radiation

Audit Device: Eppley PSP Pyranometer / SN 16166F3

Time (MST)	CTS Value (W/m ²)	Site Value (W/m ²)	Diff. (%)	Diff. (% FS)
1425	837	792	-5.4	-3.5
1427	834	793	-4.9	-3.2
1429	851	812	-4.6	-3.0

Relative Humidity

Site Sensor: Met One 083E-0-35
Sensor Height: 2 meters
Reference Std: Assmann Psychrometer

Ref Dry-Bulb: 17.8 deg C
Ref Wet-Bulb: 11.1 deg C
Ref RH: 47.3 %RH
Station RH: 46.4 %RH
Diff: -0.9 %RH

BP = 24.30 in. Hg

Barometric Pressure

Audit Device: BGI/Mesa Labs Delta Cal, S/N 999.

NIST-Traceable Certification 9/2/2021

Audit Value:	24.30	in Hg
Station Value:	24.35	in Hg
Diff:	0.05	in Hg

Precipitation

Rain Gauge = Met One Model 375D, Serial No. X15682

Level checked OK

Wind Screen in place

8" opening

250 ml water added

Calibration is 8.24 ml per tip

Known audit value is $520 / 8.24 = 63$ tips

Unit registered 68 tips

% difference from expected = +7.9%

Precip audit conducted during hours ending at 1200 & 1300 MST. No natural precipitation during audit.

Signature Site Operator : _____

Signature Auditor : _____