

**TINTINA RESOURCES, INC.
BLACK BUTTE COPPER
PROJECT AMBIENT AIR
MONITORING PROGRAM
Quarterly Data Report
Fourth Quarter 2017**

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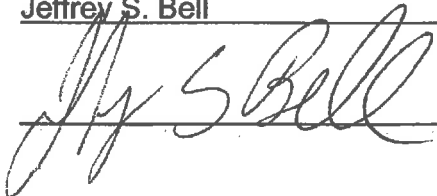
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CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc., certifies the data in this report is an accurate summary of the air quality conditions measured at the Black Butte Copper Project air 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

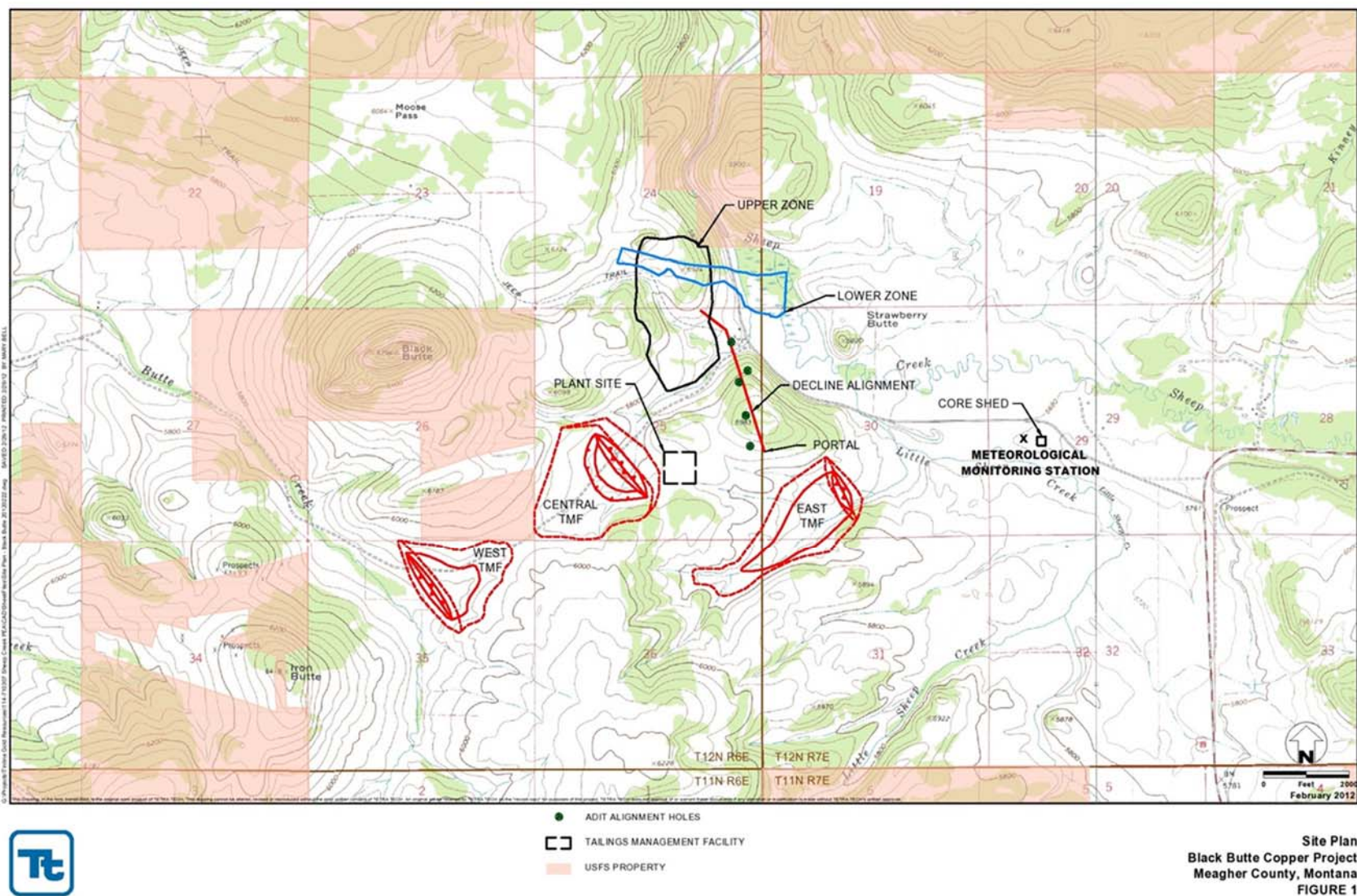
Tintina Resources, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize 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 location of the monitoring site.

This report presents the data collected during the fourth quarter (October through December) of 2017. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities, including calibrations and performance audits. 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 will be used for hydrological / water balance studies. The manual rain gauge was installed to provide a backup data source for the existing automatic rain gauge, which has experienced occasional mechanical problems. Also, the automatic rain gauge is sometimes unreliable for measuring frozen precipitation.

Figure 1. Monitoring Site Location



2.0 MONITORING SYSTEM OPERATIONS

The installation of the monitoring meteorological system equipment took place in April 2012, soon after the equipment was received from the manufacturers. The installation and calibration of the equipment required about two weeks to complete. All meteorological sensors were in full operation and producing valid data by April 30, 2012.

Steve Heck of Bison conducted performance audits of the meteorological system on December 6, 2017, and made any necessary calibration adjustments to the meteorological system following the audits. The Bison report of the audits is presented in Appendix B.

Manual measurements of evaporation and precipitation were recorded by Tintina's on-site personnel two to three times per week. Operation of the evaporation pan during this quarter was limited, ending at the start of October due to frequent subfreezing temperatures. The manual measurement sheets had not been received at the time of this report. However, problems with drifting of the precipitation gauge were limited to the last two days of December.

3.0 CALIBRATION DATA

As discussed in Section 4.0, the system's as-found condition was audited on December 6, 2017. No calibration adjustments were made to the system.

4.0 PERFORMANCE AUDIT DATA

Steve Heck of Bison conducted performance audits of the meteorological system on December 6, 2017. No calibration adjustments were necessary. The Bison report of the audits is presented in Appendix B.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the fourth quarter of 2017 are given in Tables 1 and 2. In these tables, the number of possible data values during each month of the quarter 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.

During the fourth quarter the net percentage data recovery was 99.8 percent for all parameters at the site. The only data losses were for precipitation on December 30 and 31, when false positive readings were noted due to drifting snow. The hourly precipitation values for those dates were set to zero in Appendix A, based on contemporary data from other regional monitoring stations that showed no precipitation.

Table 1. Monthly Data Completeness

October 2017					
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
Temperature 9 Meters	744	744	100.0	0	100.0
Temperature 2 Meters	744	744	100.0	0	100.0
Temperature Delta T	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 1. Monthly Data Completeness (Continued)

November 2017					
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
Temperature 9 Meters	720	720	100.0	0	100.0
Temperature 2 Meters	720	720	100.0	0	100.0
Temperature Delta T	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 1. Monthly Data Completeness (Continued)

December 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	744	741	99.6	3	100.0
Wind Direction	744	741	99.6	3	100.0
Standard Deviation	744	741	99.6	3	100.0
Temperature 9 Meters	744	741	99.6	3	100.0
Temperature 2 Meters	744	741	99.6	3	100.0
Temperature Delta T	744	741	99.6	3	100.0
Solar Radiation	744	741	99.6	3	100.0
Barometric Pressure	744	741	99.6	3	100.0
Relative Humidity	744	741	99.6	3	100.0
Precipitation	744	693	93.1	3	93.5
Total	7,440	7,362	99.0	30	99.4

Table 2. Quarterly Data Completeness

Fourth Quarter 2017					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,208	2,205	99.9	3	100.0
Wind Direction	2,208	2,205	99.9	3	100.0
Standard Deviation	2,208	2,205	99.9	3	100.0
Temperature 9 Meters	2,208	2,205	99.9	3	100.0
Temperature 2 Meters	2,208	2,205	99.9	3	100.0
Temperature Delta T	2,208	2,205	99.9	3	100.0
Solar Radiation	2,208	2,205	99.9	3	100.0
Barometric Pressure	2,208	2,205	99.9	3	100.0
Relative Humidity	2,208	2,205	99.9	3	100.0
Precipitation	2,208	2,157	97.7	3	97.8
Total	22,080	22,002	99.6	30	99.8

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 3.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 4 through 7. 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 through 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 3. Missing Data Codes

Mnemonic Code	Description	Equivalent EPA 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
ND	Machine malfunction	9980
Wx	Bad weather	9981
Co	Collection error	9983
Lb	Lab error	9984
QA	Poor quality assurance results	9985
Pwr	Power failure	9988
Wi	Wildlife damage	9989
AZ	Automatic zero/span check	9991
ZS	Manual zero/span check	9986
Au	Performance audit	9992
Ma	Routine maintenance/repairs	9993
Ca	Multipoint calibration	9995
PZ	Precision/zero/span	9998

Table 4. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

October 2017																		
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	1.3	0.5	1.6	1.3	0.8	0.8	2.0	1.2	0.5	0.0	0.1	0.0	0.1	0.1	0.7	0.5	11.8
	1.1 - 2.0	0.5	0.5	0.8	1.5	3.4	5.5	6.2	2.6	1.1	0.4	0.3	0.8	1.3	0.7	1.2	0.0	26.7
	2.1 - 3.0	0.0	0.3	0.1	0.1	1.5	1.6	0.4	0.8	0.4	0.0	0.4	0.8	0.8	1.7	1.7	0.3	11.0
	3.1 - 4.0	0.1	0.0	0.0	0.0	0.4	0.1	0.0	0.3	0.3	0.0	0.3	0.7	2.4	1.5	0.4	0.9	7.4
	4.1 - 5.0	0.7	0.1	0.0	0.0	0.1	0.0	0.1	0.4	1.2	0.7	0.1	0.8	3.0	1.9	1.2	0.7	11.0
	5.1 - 6.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5	0.1	0.5	4.0	2.0	0.8	1.5	11.2
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.7	2.7	0.9	1.1	0.9	7.7
	7.1 - 8.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.4	1.3	1.2	0.5	0.4	4.7
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	2.2	0.1	0.4	0.1	3.8
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.2	0.1	0.1	0.0	1.9
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.0	0.1	0.0	1.3
	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	0.3	0.0	0.1	0.0	0.0	0.4
	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	0.3	0.4	0.0	0.0	0.0	0.7
	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	0.3	0.0	0.0	0.0	0.3
	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	0.1	0.0	0.0	0.0	0.1
	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		3.2	1.7	2.6	3.0	6.2	8.1	8.7	5.6	4.4	2.3	3.1	5.9	21.0	10.5	8.3	5.4	100.0
Average Speed		2.6	2.3	1.1	1.1	1.7	1.7	1.4	2.0	3.4	5.2	5.6	5.4	6.1	4.8	4.3	4.9	3.8

Table 5. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

November 2017																		
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	1.3	0.8	0.4	0.7	1.4	2.8	2.6	2.9	2.4	0.4	0.6	0.3	0.7	0.7	0.7	1.7	20.3
	1.1 - 2.0	0.1	0.6	0.4	1.4	3.6	6.0	5.7	4.2	1.0	0.8	0.4	0.4	1.5	1.3	1.4	1.1	29.9
	2.1 - 3.0	0.1	0.0	0.1	0.1	1.5	2.5	1.8	1.7	0.4	0.3	0.1	1.1	1.4	1.7	1.4	0.3	14.6
	3.1 - 4.0	0.1	0.1	0.0	0.0	0.7	1.0	0.3	2.2	0.8	0.0	0.1	0.8	1.0	0.4	1.1	0.3	9.0
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.6	0.3	0.1	1.5	1.1	0.1	0.3	0.3	1.4	1.8	0.4	0.0	7.9
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.3	0.3	0.3	0.3	2.2	0.8	0.0	0.0	5.1
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.4	0.3	0.4	3.1	0.8	0.0	0.0	5.6
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.1	1.4	1.0	0.0	0.0	3.5
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	1.4	0.3	0.0	0.0	2.4
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.6	0.0	0.0	1.4
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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		1.7	1.5	1.0	2.2	7.9	12.5	10.7	13.6	6.3	2.8	2.9	4.2	15.1	9.3	5.0	3.3	100.0
Average Speed		1.1	1.2	1.2	1.3	2.0	1.8	1.6	2.4	2.4	3.6	4.4	4.1	5.4	4.5	2.3	1.3	2.9

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

December 2017																		
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	2.3	3.2	3.6	3.0	3.8	4.0	4.0	3.5	1.2	0.7	0.5	0.3	1.2	0.5	1.9	1.8	35.6
	1.1 - 2.0	0.9	2.6	3.2	2.4	2.8	4.0	2.7	1.3	0.5	0.5	0.4	0.3	1.9	2.4	3.0	1.3	30.5
	2.1 - 3.0	0.1	0.1	0.0	0.5	0.8	0.3	0.3	0.9	0.1	0.0	0.0	0.7	2.3	2.6	2.6	0.3	11.6
	3.1 - 4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.1	0.1	0.0	0.7	1.8	2.4	2.3	0.0	8.2
	4.1 - 5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.1	0.1	1.9	1.2	1.3	0.1	5.9
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	1.5	1.2	0.8	0.0	3.9
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.7	0.5	0.0	0.1	2.2
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	1.2
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.4
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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		3.4	5.9	6.9	5.9	7.4	8.4	7.3	8.1	2.4	2.2	1.2	2.0	11.9	11.3	12.0	3.6	100.0
Average Speed		0.9	1.0	1.0	1.2	1.2	1.1	1.1	2.5	1.7	2.9	2.0	2.6	3.6	3.3	2.6	1.4	2.1

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

Fourth Quarter 2017																		
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	1.6	1.5	1.9	1.7	2.0	2.5	2.9	2.5	1.4	0.4	0.4	0.2	0.7	0.5	1.1	1.3	22.6
	1.1 - 2.0	0.5	1.2	1.5	1.8	3.3	5.2	4.9	2.7	0.9	0.6	0.4	0.5	1.6	1.5	1.9	0.8	29.0
	2.1 - 3.0	0.1	0.1	0.1	0.3	1.3	1.5	0.8	1.1	0.3	0.1	0.2	0.9	1.5	2.0	1.9	0.3	12.4
	3.1 - 4.0	0.1	0.0	0.0	0.0	0.4	0.4	0.2	1.0	0.4	0.0	0.1	0.7	1.7	1.5	1.3	0.4	8.2
	4.1 - 5.0	0.2	0.0	0.0	0.0	0.2	0.1	0.1	0.7	0.9	0.4	0.2	0.4	2.1	1.6	1.0	0.3	8.3
	5.1 - 6.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.3	0.2	0.3	2.6	1.4	0.5	0.5	6.8
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.4	0.4	2.1	0.8	0.4	0.4	5.1
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.2	0.2	0.9	0.9	0.2	0.1	3.1
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.3	0.1	0.2	0.0	2.2
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.2	0.0	0.0	1.1
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.7
	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	0.1	0.0	0.0	0.0	0.0	0.1
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.2
	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	0.1	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	3.1	3.5	3.7	7.2	9.6	8.9	9.1	4.4	2.4	2.4	4.0	16.0	10.4	8.5	4.1	100.0
Average Speed		1.6	1.3	1.1	1.2	1.7	1.5	1.4	2.4	2.6	3.9	4.5	4.5	5.3	4.2	3.1	2.9	2.9

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

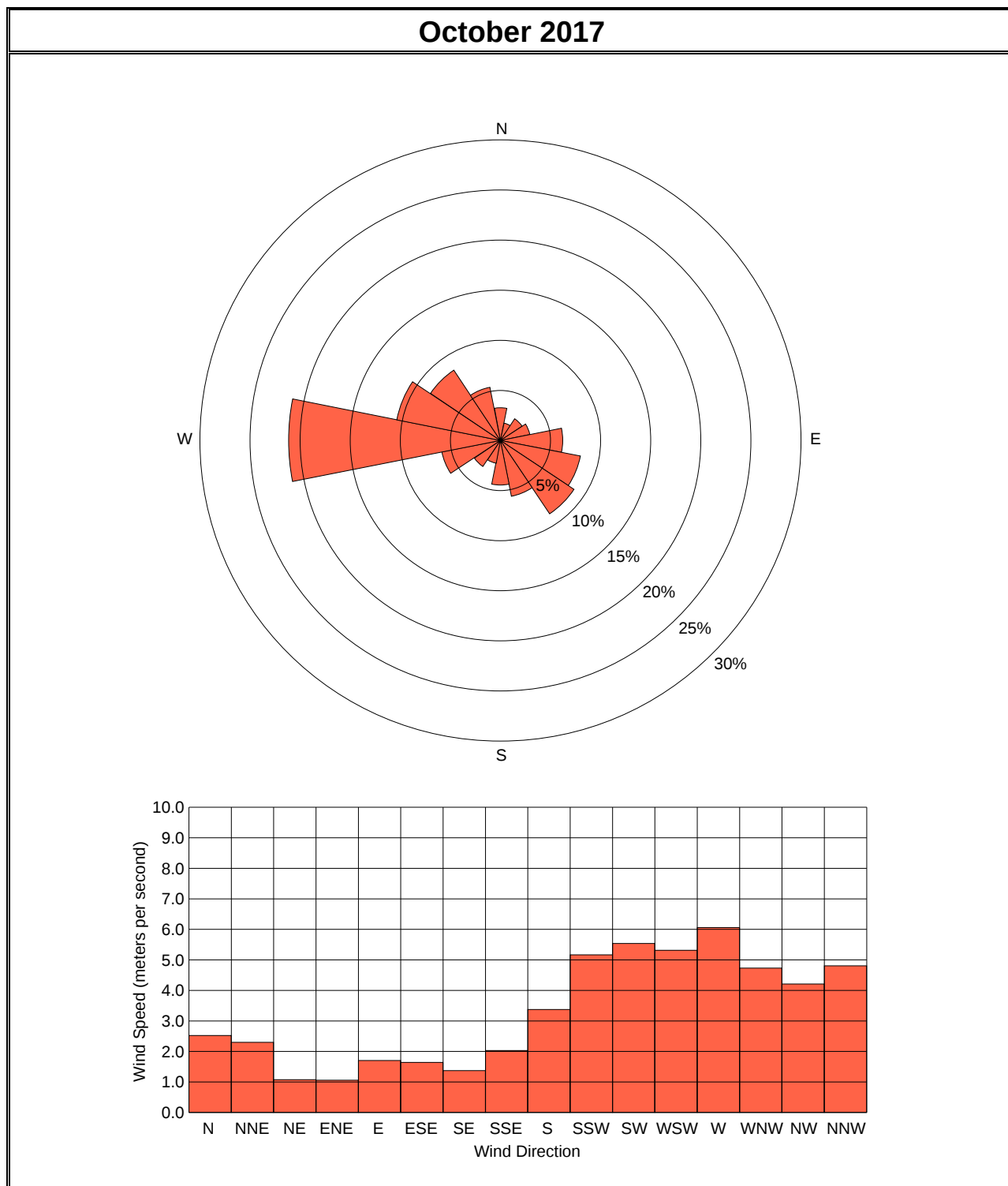


Figure 3. Monthly Wind Rose, Black Butte Copper Project Met Tower

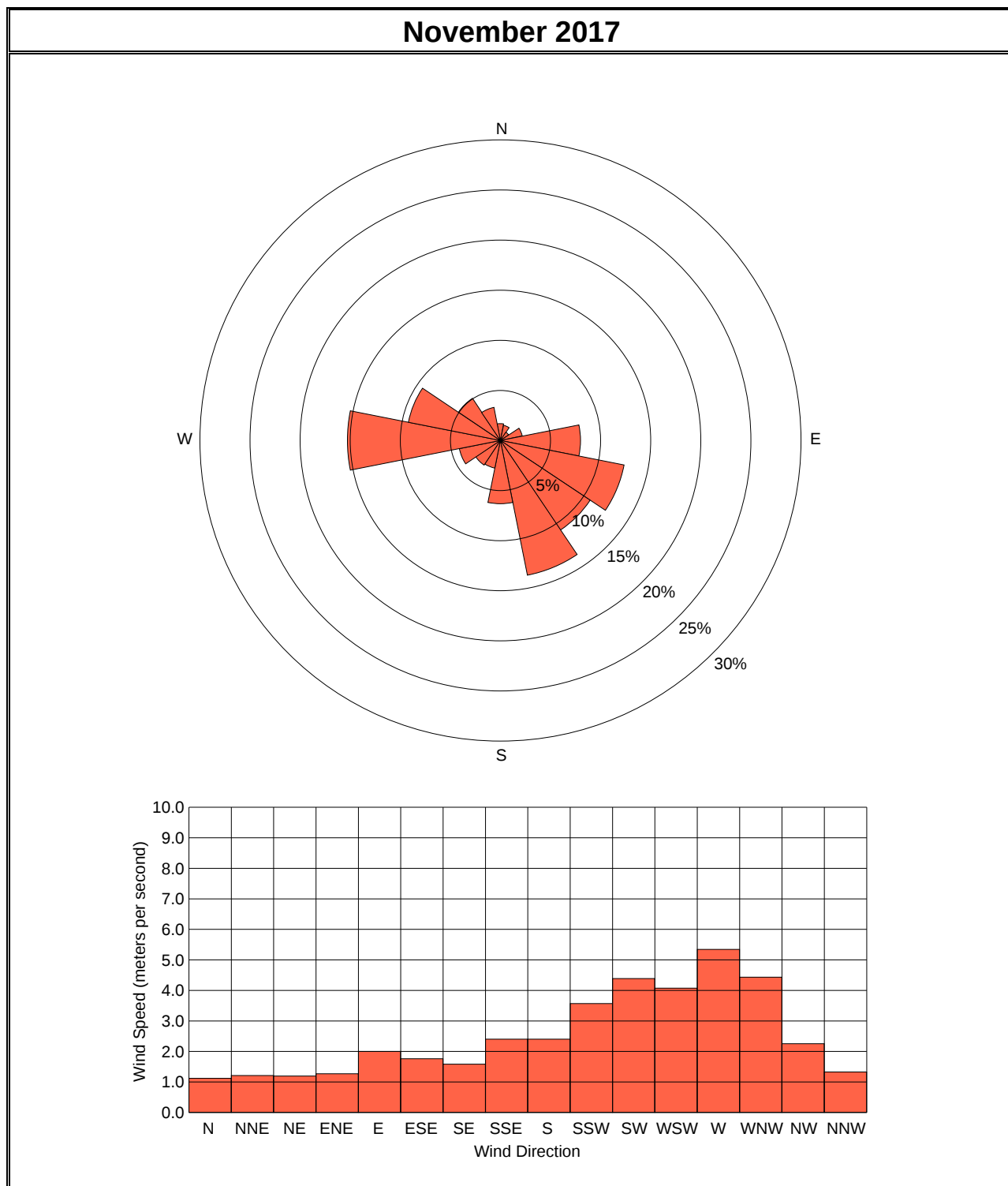


Figure 4. Monthly Wind Rose, Black Butte Copper Project Met Tower

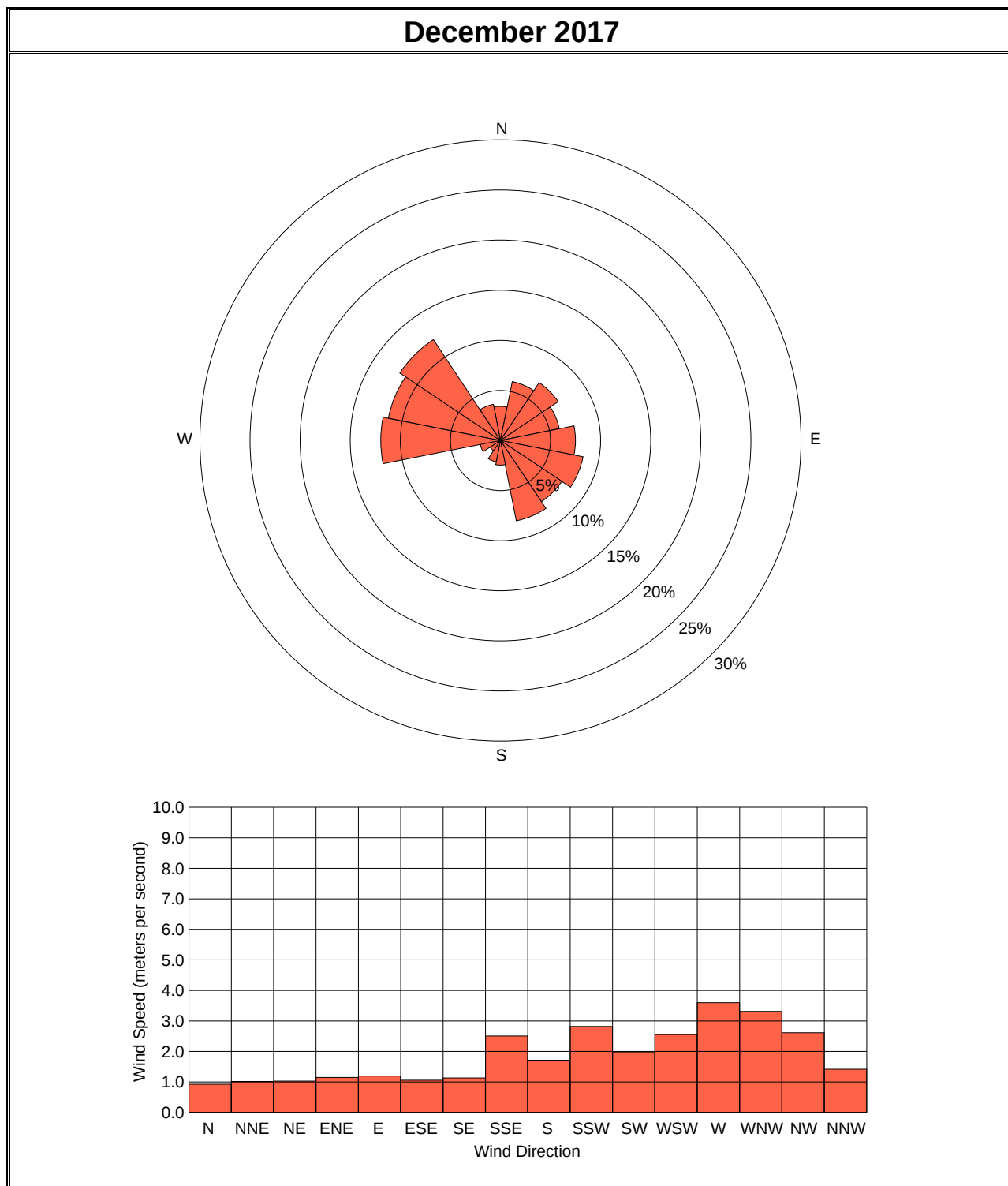
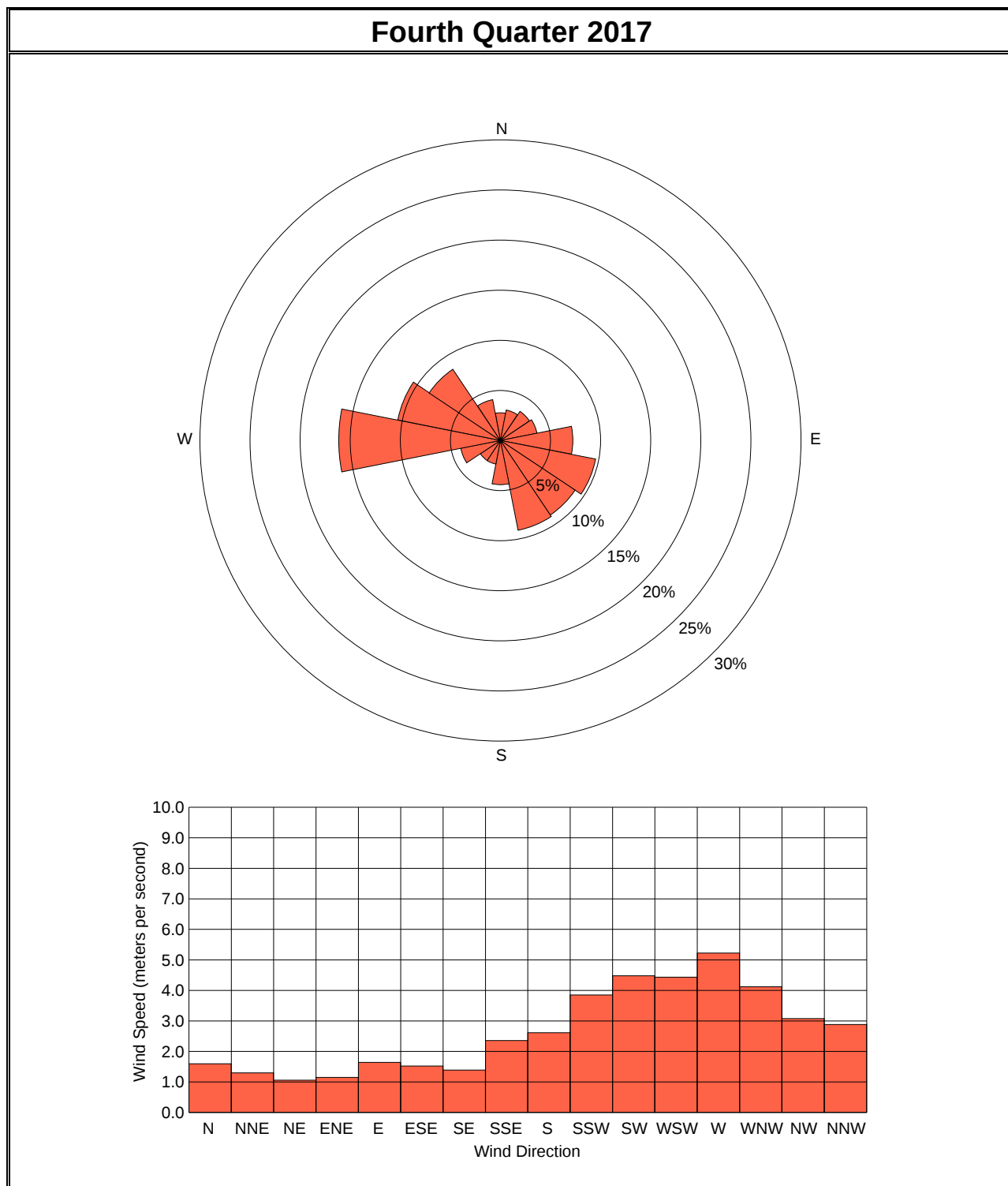


Figure 5. Quarterly Wind Rose, Black Butte Copper Project Met Tower



**APPENDIX A: HOURLY AIR QUALITY AND
METEOROLOGICAL DATA, FOURTH QUARTER 2017**

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
October 2017

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	1.5	2.7	2.1	2.1	1.2	1.1	1.0	0.7	0.8	2.3	3.0	3.1	4.2	3.8	6.1	5.3	4.9	4.1	3.2	2.8	3.0	2.6	2.6	2.3	2.8	6.1	0.7
2	2.9	3.4	4.9	4.3	6.8	6.4	6.0	7.7	7.6	7.3	7.9	8.1	8.3	7.7	8.3	6.6	6.4	6.2	5.9	6.8	6.3	5.0	4.9	3.8	6.2	8.3	2.9
3	4.6	4.3	5.1	5.0	4.6	4.6	4.5	5.9	6.0	5.2	5.2	5.4	4.9	3.6	3.9	3.7	1.8	1.3	1.1	1.3	1.0	1.1	1.3	1.3	3.6	6.0	1.0
4	0.8	1.4	1.2	1.0	1.1	1.7	1.1	0.8	1.6	3.0	1.7	3.5	3.1	4.5	4.1	3.0	3.0	2.9	2.1	2.3	1.2	0.8	0.9	0.6	2.0	4.5	0.6
5	0.8	1.1	0.8	0.7	0.9	1.1	1.1	0.7	0.8	1.1	1.6	3.8	3.4	3.8	3.6	2.8	2.1	2.1	1.6	1.5	1.9	2.3	1.2	1.2	1.8	3.8	0.7
6	1.1	1.1	0.9	1.2	1.0	1.0	1.0	0.7	0.8	3.6	5.3	6.9	6.7	5.7	6.0	3.8	2.2	1.9	1.5	1.1	2.3	1.9	5.1	6.3	2.9	6.9	0.7
7	4.4	5.2	4.7	4.2	3.8	2.6	2.0	6.5	11.5	10.3	10.7	9.5	8.4	9.9	6.7	8.1	8.3	9.7	5.5	4.8	3.8	4.3	1.8	1.4	6.2	11.5	1.4
8	2.1	1.9	0.9	1.3	1.1	1.1	0.6	0.8	1.2	5.6	5.5	5.5	5.1	7.1	5.8	4.0	5.0	4.2	1.9	1.9	1.5	1.0	0.8	1.1	2.8	7.1	0.6
9	0.9	1.3	0.9	0.7	1.3	0.7	1.0	0.7	1.7	4.7	6.3	7.4	7.0	8.0	7.7	6.6	5.7	2.3	1.5	2.8	1.9	1.6	1.5	1.3	3.1	8.0	0.7
10	1.3	1.0	1.3	1.5	1.7	1.9	1.8	1.6	1.1	3.6	5.5	5.0	4.9	5.2	4.0	6.5	5.5	2.5	2.0	2.2	1.6	1.5	1.2	1.4	2.7	6.5	1.0
11	1.7	1.3	1.1	0.8	2.3	3.0	2.5	2.3	1.2	2.5	6.6	6.9	6.5	6.0	4.9	7.1	10.3	6.9	2.3	1.4	1.6	1.6	1.1	1.0	3.5	10.3	0.8
12	1.3	1.5	1.3	1.2	1.0	1.6	1.2	0.9	0.6	1.0	6.2	6.7	7.3	5.7	5.0	5.6	3.7	2.8	1.4	1.6	2.3	1.5	2.3	2.0	2.7	7.3	0.6
13	1.4	2.1	1.4	1.0	1.0	1.2	1.0	1.0	0.8	3.1	4.6	3.9	5.0	3.2	1.0	1.2	3.9	2.1	1.1	1.0	1.5	1.6	1.0	1.7	2.0	5.0	0.8
14	1.2	0.7	1.1	0.8	1.1	1.3	1.0	1.2	3.6	6.0	8.9	10.0	10.1	9.1	9.4	8.3	6.5	5.3	4.1	5.1	6.8	6.1	5.9	4.0	4.9	10.1	0.7
15	5.0	3.1	1.7	1.4	2.1	2.1	2.1	1.6	1.3	5.7	5.6	6.6	4.9	5.7	6.3	5.9	4.3	3.8	1.9	2.3	1.3	1.5	1.5	1.4	3.3	6.6	1.3
16	1.3	0.9	1.1	0.8	1.2	1.9	1.9	2.0	3.7	4.7	5.9	7.4	8.2	8.5	7.0	7.8	5.1	2.4	1.5	3.2	2.5	3.2	2.7	2.5	3.6	8.5	0.8
17	1.8	1.7	1.8	1.9	1.6	1.9	1.7	1.8	1.6	4.1	6.3	6.9	10.6	6.9	9.6	9.8	8.5	8.2	6.2	4.3	6.1	6.1	8.6	8.9	5.3	10.6	1.6
18	8.6	10.7	10.0	8.3	5.4	3.9	3.0	1.4	3.2	2.3	2.9	3.9	5.8	6.5	7.6	6.4	5.8	3.2	1.3	1.5	1.2	1.0	1.7	2.8	4.5	10.7	1.0
19	2.7	2.6	4.6	1.7	1.8	3.8	4.4	2.2	5.0	5.3	5.7	6.7	7.8	8.5	7.2	8.1	7.1	5.5	4.3	5.8	4.4	1.5	1.1	1.5	4.6	8.5	1.1
20	1.2	2.4	4.6	3.0	2.0	1.5	4.3	5.3	4.4	2.7	2.1	4.9	5.4	11.3	7.5	6.3	5.1	6.3	5.5	7.8	5.7	6.0	6.1	5.7	4.9	11.3	1.2
21	5.3	4.4	4.1	5.5	3.4	5.0	4.6	4.7	6.2	7.7	6.4	7.4	7.6	9.0	9.9	8.2	5.7	3.6	2.3	2.1	4.3	5.0	4.4	5.3	5.5	9.9	2.1
22	4.6	3.7	4.3	5.5	7.1	6.3	7.5	9.5	7.0	11.6	12.7	12.2	12.9	12.9	15.5	13.7	13.8	12.7	8.8	8.8	7.9	6.5	8.2	5.5	9.1	15.5	3.7
23	6.0	4.4	4.1	3.2	1.9	3.3	3.2	3.9	6.2	5.8	6.8	7.5	8.0	8.7	7.3	6.4	5.1	4.5	2.2	1.5	1.6	1.7	1.6	1.4	4.4	8.7	1.4
24	1.2	1.6	1.2	1.2	1.3	1.4	1.0	1.2	1.3	1.4	1.8	4.3	4.6	5.6	5.3	5.0	4.5	1.9	2.2	3.2	2.1	1.5	1.4	1.2	2.4	5.6	1.0
25	1.3	1.5	1.5	1.4	1.3	1.3	1.3	1.0	1.2	1.1	4.9	5.1	10.7	10.4	10.4	8.5	9.6	5.3	7.7	6.1	4.4	5.2	9.0	5.9	4.8	10.7	1.0
26	5.7	5.2	5.8	6.1	6.1	5.7	4.6	3.1	2.4	2.2	2.5	2.0	1.6	2.7	2.6	2.2	3.0	1.7	1.6	1.1	0.6	0.8	0.5	0.6	2.9	6.1	0.5
27	0.9	0.8	0.8	0.8	0.8	0.6	0.5	0.6	0.5	0.7	1.9	2.7	4.2	4.9	4.5	4.4	4.7	2.1	0.8	1.4	1.2	1.8	1.0	1.1	1.8	4.9	0.5
28	1.2	0.7	0.9	1.1	0.7	0.6	0.9	0.4	0.8	0.9	2.1	2.3	3.4	4.0	4.7	4.9	3.7	2.1	2.3	1.7	1.4	1.2	1.3	1.1	1.9	4.9	0.4
29	1.7	1.6	1.3	2.5	3.2	4.2	4.4	4.8	5.2	5.7	4.3	6.3	5.5	6.0	7.6	7.9	6.6	4.8	4.2	5.8	6.1	5.9	5.6	5.8	4.9	7.9	1.3
30	3.7	5.8	4.8	6.1	5.0	7.0	4.9	3.6	3.0	1.5	1.8	1.6	2.6	2.6	1.8	1.8	2.2	1.1	1.1	1.2	1.5	1.4	1.2	1.0	2.8	7.0	1.0
31	0.8	0.6	0.5	0.6	0.5	0.8	1.1	1.1	0.7	3.3	5.8	9.4	10.8	9.9	8.3	8.6	7.7	7.5	7.8	5.7	5.3	7.4	5.5	3.9	4.7	10.8	0.5
Avg	2.5	2.6	2.6	2.5	2.4	2.6	2.5	2.6	3.0	4.1	5.1	5.9	6.4	6.7	6.4	6.1	5.5	4.2	3.1	3.2	3.0	2.9	3.0	2.7	3.8	8.1	1.1
Max	8.6	10.7	10.0	8.3	7.1	7.0	7.5	9.5	11.5	11.6	12.7	12.2	12.9	12.9	15.5	13.7	13.8	12.7	8.8	8.8	7.9	7.4	9.0	8.9	9.1	15.5	3.7
Min	0.8	0.6	0.5	0.6	0.5	0.6	0.5	0.4	0.5	0.7	1.6	1.6	1.6	2.6	1.0	1.2	1.8	1.1	0.8	1.0	0.6	0.8	0.5	0.6	1.8	3.8	0.4

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
November 2017

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	4.6	4.6	4.3	4.1	4.5	3.0	3.3	2.6	2.8	1.9	4.0	3.2	4.1	3.5	4.1	3.9	3.4	3.2	3.0	2.1	1.3	1.7	1.4	0.8	3.1	4.6	0.8
2	0.7	1.3	0.7	0.7	1.0	0.5	0.5	0.6	0.6	0.5	1.3	6.1	5.4	4.1	4.8	4.2	4.5	4.6	3.1	3.4	3.6	2.3	1.4	0.8	2.4	6.1	0.5
3	0.8	1.5	3.1	2.7	0.9	2.5	1.4	1.0	1.1	1.0	3.3	4.7	4.1	3.5	2.5	4.1	4.6	2.4	0.9	1.4	1.6	2.4	2.4	4.0	2.4	4.7	0.8
4	1.1	0.6	0.7	0.7	0.9	1.0	0.8	0.4	0.4	1.0	0.8	0.6	0.9	3.5	2.5	0.8	1.3	1.3	1.6	1.5	1.3	0.9	1.2	1.1	1.1	3.5	0.4
5	0.9	1.0	0.6	0.7	1.3	0.8	0.8	1.2	0.6	0.6	0.6	1.1	0.6	2.2	0.7	0.6	3.2	3.8	2.9	2.7	2.5	2.2	2.3	2.8	1.5	3.8	0.6
6	2.6	2.1	1.2	2.3	2.5	2.4	1.2	1.7	0.9	0.4	0.7	0.9	0.6	0.9	0.7	0.5	0.6	0.5	0.5	0.7	0.8	0.7	0.5	0.5	1.1	2.6	0.4
7	0.6	0.4	0.6	0.6	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.6	0.6	0.5	1.0	1.6	1.5	1.9	2.0	2.1	1.5	1.2	1.4	1.2	0.9	2.1	0.3
8	1.0	1.0	0.9	1.2	0.8	0.9	0.9	1.0	1.5	0.7	1.0	0.9	1.4	0.9	0.6	0.5	0.4	1.2	2.5	1.9	1.2	3.8	3.4	3.4	1.4	3.8	0.4
9	3.6	3.6	4.9	4.4	3.0	3.4	2.5	2.8	3.3	4.1	2.1	2.6	1.5	1.3	1.2	2.6	1.8	1.9	1.7	1.5	1.5	1.7	4.7	1.8	2.6	4.9	1.2
10	1.2	2.0	1.8	1.5	4.1	2.4	3.9	2.4	2.0	3.0	2.0	1.0	3.4	3.8	1.6	1.2	1.0	1.2	1.2	1.1	1.3	1.2	1.2	1.0	1.9	4.1	1.0
11	1.0	1.1	0.7	0.8	0.8	1.3	0.6	0.7	0.7	0.6	0.5	1.1	5.3	5.6	4.6	3.8	2.3	1.1	0.7	1.1	1.3	1.1	1.5	1.1	1.6	5.6	0.5
12	1.2	0.7	0.9	1.0	0.9	0.9	0.6	0.8	0.7	0.6	0.4	0.4	0.6	0.5	1.0	1.3	1.1	1.7	2.3	1.8	2.7	2.3	2.2	1.8	1.2	2.7	0.4
13	2.4	1.4	1.2	0.9	1.0	0.8	1.0	0.8	1.2	1.5	1.2	1.5	3.6	4.1	2.3	3.1	1.0	1.3	2.7	1.1	1.1	1.9	7.2	7.3	2.2	7.3	0.8
14	1.9	1.5	1.8	3.6	1.9	1.5	1.6	3.9	6.3	6.8	7.0	6.3	8.2	7.6	7.7	6.8	4.9	2.5	2.4	1.5	1.9	1.6	1.5	1.5	3.8	8.2	1.5
15	1.5	1.8	1.0	1.2	1.5	1.1	1.1	1.1	1.2	0.8	0.9	2.8	3.7	5.6	3.5	2.4	1.0	0.9	1.2	1.3	1.3	1.8	2.0	4.7	1.9	5.6	0.8
16	4.3	5.1	2.0	4.6	2.2	2.8	6.1	5.0	7.3	7.5	6.9	9.9	7.1	6.4	6.2	5.8	3.6	3.0	3.0	4.1	3.1	2.0	1.3	1.2	4.6	9.9	1.2
17	1.7	1.5	2.4	1.9	1.2	1.2	1.4	1.4	1.4	3.1	3.2	4.8	5.8	7.1	8.0	6.8	6.6	6.2	6.6	5.9	5.9	5.0	5.3	4.6	4.1	8.0	1.2
18	6.1	7.0	5.6	5.4	3.3	6.3	6.7	5.9	7.8	5.7	7.3	7.8	8.7	8.5	6.0	4.0	3.8	4.6	1.8	1.6	1.3	2.1	1.7	1.2	5.0	8.7	1.2
19	1.0	1.4	1.1	1.3	1.2	1.5	1.9	1.6	1.2	1.3	1.4	1.3	1.0	1.4	1.7	3.0	4.1	1.9	1.4	1.8	1.7	2.1	3.7	3.4	1.8	4.1	1.0
20	3.4	4.2	3.9	2.4	2.5	2.7	2.2	3.8	4.9	2.8	1.7	1.3	5.3	6.1	4.4	2.8	1.3	1.1	0.6	0.6	0.6	0.6	2.7	2.5	2.7	6.1	0.6
21	2.0	1.2	1.1	0.7	0.7	0.6	0.7	0.9	0.9	0.9	1.0	0.7	0.6	0.9	1.2	1.7	1.9	1.7	3.7	3.3	2.7	1.6	3.0	4.2	1.6	4.2	0.6
22	2.1	1.6	2.4	2.0	1.7	4.3	1.4	1.8	2.1	2.9	2.6	3.3	4.5	3.0	2.9	2.5	3.5	3.3	2.2	2.0	1.9	1.1	1.1	2.5	2.4	4.5	1.1
23	2.6	2.7	2.2	4.1	2.5	3.9	1.5	2.4	5.9	8.5	8.8	7.8	4.3	6.3	8.0	8.7	6.2	6.3	6.2	4.4	3.5	6.4	7.7	8.9	5.4	8.9	1.5
24	10.0	11.0	9.4	8.2	5.5	4.1	5.0	3.0	3.1	6.2	6.5	6.1	6.7	9.4	9.4	8.3	9.7	5.1	2.5	1.3	1.9	2.0	2.0	1.6	5.8	11.0	1.3
25	2.7	2.3	2.9	2.9	2.2	3.4	2.9	2.1	1.4	1.2	1.1	1.3	1.9	2.3	1.4	1.0	1.2	1.9	2.2	1.8	1.4	2.6	1.4	1.4	2.0	3.4	1.0
26	1.9	2.1	3.4	6.1	4.2	3.4	2.3	1.2	1.7	2.0	3.1	3.8	6.7	5.9	7.1	5.1	2.9	2.0	5.1	4.2	5.3	5.4	5.4	6.3	4.0	7.1	1.2
27	5.6	7.3	8.1	6.0	6.2	6.4	4.6	5.2	5.0	8.1	6.8	7.7	9.0	10.8	8.3	8.7	6.4	5.6	5.9	5.2	6.3	5.6	6.6	7.0	6.8	10.8	4.6
28	5.5	4.4	5.3	5.5	2.0	1.1	1.3	1.6	1.6	3.1	2.7	3.4	2.8	4.3	4.4	5.2	2.7	1.6	2.0	3.1	4.0	4.4	5.7	4.6	3.4	5.7	1.1
29	7.2	7.4	4.6	6.4	8.1	6.8	7.9	10.5	9.5	9.1	8.0	7.1	9.7	9.7	8.5	7.4	9.0	8.0	5.0	4.6	2.6	1.5	1.9	1.1	6.7	10.5	1.1
30	1.3	1.6	2.1	2.4	1.3	1.2	1.4	1.0	1.2	0.8	0.8	3.2	3.5	1.4	2.8	2.0	2.2	2.9	1.8	1.7	1.5	1.7	1.5	1.2	1.8	3.5	0.8
Avg	2.8	2.8	2.7	2.9	2.3	2.4	2.3	2.3	2.6	2.9	2.9	3.4	4.1	4.4	4.0	3.7	3.3	2.8	2.6	2.4	2.3	2.4	2.8	2.9	2.9	5.9	1.0
Max	10.0	11.0	9.4	8.2	8.1	6.8	7.9	10.5	9.5	9.1	8.8	9.9	9.7	10.8	9.4	8.7	9.7	8.0	6.6	5.9	6.3	6.4	7.7	8.9	6.8	11.0	4.6
Min	0.6	0.4	0.6	0.6	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.6	0.5	0.6	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.9	2.1	0.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
December 2017

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	1.1	1.1	0.9	3.3	6.3	5.8	3.6	2.6	3.6	4.7	4.1	2.9	3.9	3.3	3.6	2.1	1.2	2.6	2.5	2.0	1.6	1.9	0.9	0.8	2.8	6.3	0.8
2	1.5	1.0	1.0	1.3	1.4	1.1	1.1	0.8	1.0	0.9	0.9	1.1	3.3	2.3	1.5	0.8	1.8	1.1	1.1	1.0	0.9	1.1	1.9	2.2	1.3	3.3	0.8
3	1.9	1.5	1.5	1.6	1.3	1.3	0.9	1.1	0.9	0.7	3.0	2.2	3.3	3.1	5.1	4.5	4.5	3.7	4.2	5.2	4.9	3.8	3.8	4.8	2.9	5.2	0.7
4	1.7	1.4	2.3	1.3	0.8	1.4	0.7	0.4	0.3	0.4	0.5	3.6	5.5	5.0	3.7	4.7	5.1	3.8	3.4	1.5	0.8	0.7	0.8	1.3	2.1	5.5	0.3
5	1.3	3.1	3.8	2.6	2.2	1.8	1.8	1.5	1.4	1.5	3.6	3.7	6.4	7.2	4.0	2.2	1.3	1.5	1.2	0.8	2.8	1.6	1.3	0.8	2.5	7.2	0.8
6	0.6	2.1	2.9	4.5	3.4	1.6	2.3	0.8	1.4	2.5	4.3	4.9	Au	Au	Au	4.7	2.2	1.1	1.3	0.9	0.9	1.3	1.3	0.9	2.2	4.9	0.6
7	1.3	1.0	0.7	0.9	0.8	0.7	0.4	0.5	0.5	0.5	0.6	0.7	1.3	1.2	2.4	2.2	1.2	1.5	1.4	1.4	1.2	1.3	1.4	1.5	1.1	2.4	0.4
8	1.3	1.4	1.3	1.4	0.9	0.8	0.7	0.6	0.7	0.8	0.7	0.5	0.7	1.2	1.3	2.5	2.5	1.6	1.6	1.4	1.4	1.0	0.5	0.6	1.1	2.5	0.5
9	0.5	0.4	0.4	0.3	0.5	0.5	0.7	0.5	0.6	0.6	0.4	0.5	0.8	0.9	1.3	1.4	1.7	1.6	1.3	1.1	1.0	1.1	1.2	1.3	0.9	1.7	0.3
10	1.5	1.5	1.4	1.7	1.3	1.1	1.4	1.4	1.6	1.3	1.0	1.0	1.7	1.3	1.2	1.9	2.0	1.9	1.3	0.9	0.9	1.1	1.2	0.9	1.4	2.0	0.9
11	0.9	0.7	0.9	1.0	0.5	0.5	0.6	0.5	0.4	0.7	0.4	0.7	0.8	0.4	0.7	1.5	1.9	1.8	1.4	2.1	1.3	1.1	1.3	1.4	1.0	2.1	0.4
12	1.3	1.4	1.3	1.2	1.4	1.0	1.1	0.9	1.0	1.3	0.8	0.8	2.5	4.5	3.1	3.4	6.0	3.9	5.2	2.1	2.3	1.7	2.5	1.8	2.2	6.0	0.8
13	1.3	1.3	1.0	0.8	0.9	0.7	0.5	0.9	0.7	1.0	1.3	0.7	0.6	0.5	1.1	2.1	2.1	1.7	1.1	0.9	0.5	1.8	0.9	1.9	1.1	2.1	0.5
14	4.2	5.7	4.5	3.8	2.9	2.0	1.4	1.1	1.1	0.5	0.6	0.8	0.7	0.9	1.2	2.4	1.4	1.6	1.1	1.0	0.8	0.7	0.8	1.1	1.8	5.7	0.5
15	0.9	1.3	0.9	1.0	0.9	0.7	0.6	0.6	0.7	0.7	0.7	0.9	0.9	1.0	1.2	0.7	1.2	1.5	6.0	6.5	5.7	3.4	1.7	1.5	1.7	6.5	0.6
16	1.2	2.4	1.8	0.9	0.9	1.2	1.9	1.3	1.9	1.4	2.3	2.7	4.6	3.6	3.8	4.1	1.5	1.1	1.3	1.0	0.8	0.8	0.8	0.7	1.8	4.6	0.7
17	0.7	0.9	0.8	0.6	0.6	1.1	1.0	1.2	2.0	4.1	3.5	3.5	4.2	5.4	3.3	3.0	3.8	2.3	2.8	1.8	1.4	1.7	1.2	2.0	2.2	5.4	0.6
18	2.3	7.3	6.0	5.9	5.0	4.7	2.3	5.5	5.6	4.6	6.8	10.2	9.2	9.0	8.5	7.0	10.6	7.7	6.5	5.7	2.3	1.2	1.0	0.9	5.7	10.6	0.9
19	1.1	1.0	0.8	1.2	2.7	3.9	4.3	2.4	2.9	2.6	3.8	3.9	3.3	3.4	2.9	2.9	3.6	3.2	1.9	1.3	2.1	1.7	4.2	4.4	2.7	4.4	0.8
20	1.7	3.8	6.7	4.2	4.9	2.9	5.7	8.6	6.7	6.1	5.1	5.9	5.3	5.1	5.4	4.9	5.0	3.8	1.5	1.8	2.3	0.7	1.2	1.6	4.2	8.6	0.7
21	0.9	0.8	1.1	0.7	1.1	0.5	0.6	0.5	0.9	0.9	0.8	0.7	1.5	3.2	3.2	1.2	1.3	2.4	1.3	2.0	1.6	1.0	1.2	4.2	1.4	4.2	0.5
22	2.9	2.6	3.4	3.1	2.8	3.4	4.5	5.4	4.4	3.8	4.3	3.1	3.1	3.1	2.9	2.9	2.7	1.6	1.2	0.9	1.5	1.3	1.6	2.2	2.9	5.4	0.9
23	1.0	1.0	1.2	1.2	1.5	2.1	1.2	1.1	1.1	1.0	1.1	0.5	1.0	4.3	4.4	3.0	1.2	1.1	1.5	0.9	0.9	0.9	0.9	1.0	1.5	4.4	0.5
24	0.7	0.8	0.6	0.8	0.4	0.4	0.5	0.6	0.6	0.6	0.4	0.4	0.5	0.7	0.6	0.6	1.1	1.3	0.7	0.8	0.7	1.1	0.6	0.5	0.7	1.3	0.4
25	0.5	0.4	0.4	0.4	0.8	0.7	0.7	0.5	0.5	0.4	0.7	1.0	2.8	2.7	2.2	1.8	1.6	2.1	1.5	1.7	2.4	1.7	1.3	0.7	1.2	2.8	0.4
26	0.9	0.9	0.5	0.5	0.7	0.7	0.5	0.7	0.3	0.8	0.6	0.5	0.8	1.2	1.6	1.5	2.1	1.5	1.1	1.2	0.8	0.6	1.0	1.0	0.9	2.1	0.3
27	1.0	0.8	0.8	1.0	0.8	0.9	0.7	0.9	1.6	1.2	3.6	6.0	7.0	5.4	4.7	7.2	6.6	4.8	2.5	1.6	1.7	2.3	1.8	1.8	2.8	7.2	0.7
28	4.4	4.2	3.3	3.7	2.2	1.1	0.7	1.0	0.9	0.7	0.9	1.3	0.8	2.4	3.8	3.3	2.9	2.3	2.2	2.2	1.3	0.8	0.8	1.0	2.0	4.4	0.7
29	1.5	4.6	5.5	2.7	3.1	3.7	3.7	3.1	1.7	1.4	2.2	2.4	2.2	2.3	2.9	2.4	2.5	4.7	5.2	6.9	7.3	6.6	7.0	7.7	3.9	7.7	1.4
30	7.6	7.2	7.2	6.6	6.9	4.9	2.0	1.1	1.1	1.4	1.0	1.0	1.0	2.6	5.6	1.5	2.3	5.4	4.3	2.0	3.0	3.2	2.2	1.3	3.4	7.6	1.0
31	0.7	0.6	0.8	1.0	0.6	1.0	0.5	0.5	0.5	0.6	0.4	0.9	0.4	0.6	0.7	0.6	1.2	1.1	1.0	0.8	0.5	0.9	0.7	0.5	0.7	1.2	0.4
Avg	1.6	2.1	2.1	2.0	2.0	1.7	1.6	1.6	1.6	1.6	1.9	2.2	2.7	2.9	2.9	2.7	2.8	2.5	2.3	2.0	1.9	1.6	1.6	1.8	2.1	4.7	0.6
Max	7.6	7.3	7.2	6.6	6.9	5.8	5.7	8.6	6.7	6.1	6.8	10.2	9.2	9.0	8.5	7.2	10.6	7.7	6.5	6.9	7.3	6.6	7.0	7.7	5.7	10.6	1.4
Min	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.6	1.1	1.1	0.7	0.8	0.5	0.6	0.5	0.5	0.7	1.2	0.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
October 2017

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	277	43	83	94	100	95	101	324	43	32	335	345	324	311	323	322	325	276	271	299	320	304	286	311	338
2	311	304	311	315	312	316	303	317	312	306	316	307	310	300	306	303	301	305	302	312	305	301	298	287	307
3	286	277	287	285	282	286	284	283	298	296	301	303	319	273	252	279	280	272	267	127	126	133	175	139	274
4	146	189	133	145	324	102	58	125	300	317	325	317	283	312	317	292	308	308	295	313	281	92	318	343	314
5	33	139	353	346	322	125	130	45	358	316	278	342	299	281	303	282	263	249	264	124	107	99	133	135	332
6	156	144	163	149	153	149	150	179	75	269	238	269	265	262	270	279	284	107	113	91	91	110	262	264	185
7	263	263	256	244	257	264	298	290	284	266	263	273	254	272	290	269	280	281	282	293	292	286	325	80	276
8	287	96	21	84	147	95	61	7	111	326	316	353	355	22	13	343	17	342	303	264	270	134	63	112	20
9	87	137	170	124	149	303	147	161	146	252	261	261	258	261	265	264	262	263	304	91	107	98	127	97	189
10	148	178	185	157	128	144	147	176	157	149	163	179	198	185	226	185	192	173	120	130	114	164	139	124	161
11	150	139	182	134	119	110	123	114	31	109	176	215	253	264	290	292	321	319	328	74	122	118	121	132	138
12	137	150	130	125	103	116	111	139	13	318	266	257	253	266	242	274	249	252	171	128	87	47	89	122	156
13	131	110	61	136	308	134	134	140	166	158	181	191	181	253	262	102	344	290	184	78	146	71	114	163	146
14	87	42	64	145	247	255	229	162	273	263	275	265	267	267	267	270	277	282	267	264	275	273	278	270	264
15	269	249	194	130	65	119	97	110	103	268	275	276	263	272	268	265	248	231	142	117	115	108	139	147	187
16	149	72	66	5	118	96	141	124	274	286	269	271	265	264	275	271	268	238	109	105	107	92	86	100	142
17	133	142	143	109	129	143	156	112	92	163	225	224	221	222	230	236	247	239	231	267	272	263	266	266	202
18	266	281	284	279	276	264	265	302	260	293	289	264	241	242	245	258	271	260	236	135	97	50	108	157	261
19	147	161	174	212	124	89	91	256	210	193	178	189	196	200	195	208	200	188	185	181	178	211	62	165	179
20	349	145	140	114	108	118	157	155	148	162	165	183	161	253	264	262	271	267	272	276	273	269	267	271	210
21	273	281	267	269	267	273	271	281	279	269	259	266	251	255	261	256	256	269	222	174	192	212	211	213	253
22	181	171	189	202	217	224	235	233	234	249	247	256	265	272	274	268	276	277	268	275	271	271	280	279	248
23	276	273	289	275	308	299	297	303	290	287	287	287	288	284	286	290	297	268	247	248	161	125	81	126	280
24	85	109	73	84	92	101	6	74	14	86	357	254	262	255	263	265	280	314	114	97	127	94	104	113	79
25	122	95	116	135	167	189	146	148	352	14	233	229	269	273	272	274	308	322	329	339	352	341	331	335	298
26	335	330	327	325	337	327	328	333	13	304	233	250	304	155	248	226	189	111	121	130	88	37	56	28	333
27	75	83	332	70	50	123	109	353	360	191	351	289	278	287	288	278	262	309	112	71	114	46	52	45	24
28	37	52	50	112	129	73	143	74	92	6	310	289	268	275	268	271	294	90	109	103	93	88	91	64	68
29	52	118	146	311	342	354	351	354	356	353	337	333	326	332	327	329	333	331	309	326	335	333	333	340	341
30	2	328	319	336	335	335	359	340	319	244	255	281	276	285	307	291	273	226	142	107	94	52	18	61	322
31	44	49	356	10	147	119	112	125	339	289	280	271	268	267	274	280	282	301	288	295	289	286	298	301	300
Prev	109	129	129	125	131	124	128	121	341	281	269	268	267	268	274	273	278	274	240	125	125	81	66	117	262

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
November 2017

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	291	294	285	289	292	290	320	334	312	303	6	328	316	313	322	321	313	332	343	318	347	134	67	36	321
2	85	132	179	310	140	275	80	118	352	345	92	155	152	147	148	144	154	151	154	152	155	171	302	329	141
3	331	329	312	283	344	312	307	351	329	31	151	169	262	313	313	310	301	293	183	111	316	293	307	296	309
4	213	341	102	193	120	143	121	79	30	121	134	61	291	273	280	231	201	143	96	131	148	95	108	152	134
5	163	162	131	147	150	163	163	171	202	169	321	4	357	326	1	118	316	307	306	287	290	279	295	293	252
6	296	286	297	275	278	289	282	273	274	291	330	110	133	120	184	118	15	106	344	82	119	114	141	190	257
7	151	171	133	152	138	149	153	155	169	141	112	170	74	352	331	142	128	112	122	117	113	126	154	139	135
8	235	142	144	116	166	101	28	149	121	226	102	124	207	89	175	59	309	83	104	131	190	149	157	151	137
9	158	156	160	161	147	167	130	157	152	169	144	167	68	125	119	119	118	114	153	161	121	152	298	28	141
10	135	86	136	99	88	102	86	357	126	79	243	285	254	271	268	160	334	150	91	336	137	286	136	36	110
11	166	87	46	125	349	136	189	97	131	92	248	330	260	262	269	263	237	164	165	147	122	151	152	148	161
12	160	170	160	149	135	167	178	149	180	193	182	6	322	341	102	108	103	127	131	151	126	141	142	130	144
13	123	123	150	172	146	158	161	168	135	151	122	110	183	181	165	169	270	155	184	322	265	284	289	285	172
14	164	170	180	134	115	129	217	277	264	260	282	279	271	272	267	271	273	211	239	220	124	87	116	116	215
15	129	154	172	115	126	161	160	160	146	139	4	164	160	165	156	148	111	346	96	144	123	60	131	154	137
16	168	144	142	153	128	162	167	184	188	192	206	286	292	293	265	270	264	252	240	282	276	258	324	224	225
17	97	119	108	95	114	323	42	124	148	252	287	280	283	287	284	283	279	291	287	279	293	282	282	264	280
18	269	266	266	267	246	280	277	273	284	273	267	267	265	260	271	252	250	285	154	113	136	113	105	88	255
19	81	97	42	51	125	82	75	71	166	16	78	97	269	116	123	158	178	141	72	108	119	90	120	215	104
20	161	211	182	163	189	262	50	291	284	253	293	269	232	207	179	151	107	317	302	280	6	64	304	295	247
21	273	274	208	71	238	136	170	103	123	137	104	26	316	303	31	79	78	111	87	119	122	137	104	107	110
22	84	114	263	339	319	99	83	148	161	118	123	238	255	275	107	113	107	102	136	86	80	70	107	110	111
23	87	91	77	95	124	111	120	271	245	236	224	214	217	238	241	246	231	239	238	242	267	278	272	266	225
24	281	281	282	268	272	270	275	307	13	280	277	263	279	284	279	286	284	277	197	126	196	101	112	281	273
25	101	95	326	89	103	97	102	96	124	105	310	328	333	272	15	16	154	110	103	120	78	89	186	87	86
26	133	122	108	88	104	101	91	323	142	81	156	184	209	206	223	226	250	182	183	186	186	165	165	178	161
27	200	207	222	257	273	290	290	291	284	279	281	278	269	278	276	270	271	279	285	269	279	282	281	280	271
28	273	261	272	277	262	195	304	165	135	138	147	155	146	147	158	160	130	111	110	95	108	87	156	190	160
29	201	215	219	233	268	269	265	274	276	278	275	270	255	262	258	272	284	288	272	260	229	278	297	266	262
30	174	104	130	145	131	133	141	121	133	216	331	169	175	91	271	298	252	258	254	87	264	96	102	87	152
Prev	165	155	170	152	154	162	139	161	173	191	223	233	254	260	245	199	242	180	163	147	153	127	151	180	180

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
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A-6

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	117	124	122	279	276	271	267	252	249	258	266	265	262	255	277	292	34	272	86	110	122	96	157	278	247
2	129	107	4	116	132	121	85	102	10	82	309	11	251	259	280	121	126	165	129	48	17	93	74	71	89
3	95	104	106	123	112	90	116	142	166	16	303	303	292	317	314	314	325	319	311	322	337	309	316	304	341
4	22	215	336	244	309	295	352	133	111	273	204	293	286	290	270	260	261	286	292	189	189	127	99	143	260
5	321	307	277	272	284	315	267	296	342	341	302	297	297	291	295	309	298	141	196	31	77	65	78	137	308
6	338	303	309	320	308	161	158	324	297	277	261	263	Au	Au	Au	289	302	193	195	135	96	114	105	42	280
7	118	76	46	73	77	145	107	22	68	73	129	83	307	329	312	258	149	121	91	63	53	59	36	17	69
8	25	21	28	36	12	305	354	348	330	91	101	167	323	27	28	85	70	45	34	344	24	65	13	119	30
9	113	72	101	123	50	80	79	9	49	73	107	136	168	8	53	57	73	48	30	32	30	11	17	39	62
10	62	46	30	81	75	41	98	96	118	117	78	76	106	46	18	76	56	59	78	63	46	40	93	17	67
11	51	42	32	128	48	111	119	121	44	117	160	95	116	46	302	52	96	36	9	65	36	31	41	64	68
12	70	86	108	92	114	99	136	47	64	135	325	41	148	280	306	311	301	303	292	29	79	327	79	130	59
13	53	77	99	21	54	48	72	136	82	124	333	79	3	65	306	315	291	318	279	119	66	291	316	325	30
14	274	273	304	301	294	288	113	115	131	332	98	333	66	19	135	145	111	121	138	100	112	356	28	67	69
15	81	108	95	142	160	122	178	130	166	261	163	17	152	87	358	42	313	185	269	272	284	317	292	226	161
16	268	320	323	242	159	295	314	311	306	297	315	305	303	297	254	260	332	144	139	134	152	146	149	78	277
17	125	133	166	175	119	114	299	325	273	281	313	292	272	269	294	299	307	294	292	310	19	12	125	142	287
18	97	211	210	216	196	219	155	260	260	265	262	275	271	270	265	266	279	289	301	305	268	203	140	135	244
19	280	285	100	145	147	158	161	163	152	146	141	141	171	168	172	158	161	152	103	88	84	122	170	189	150
20	160	206	193	195	198	122	282	318	330	267	280	279	290	292	314	316	292	286	312	266	316	340	88	151	275
21	155	103	103	134	144	243	196	104	148	150	91	308	335	301	298	308	326	349	22	83	91	45	341	293	58
22	288	308	311	309	313	319	316	317	308	312	296	260	261	256	248	258	277	263	282	220	282	249	295	279	285
23	277	262	291	322	358	312	268	152	71	76	165	15	308	281	272	271	223	190	13	124	93	80	25	40	322
24	50	360	66	89	21	146	69	329	9	334	90	135	326	45	112	356	115	79	49	7	19	54	122	179	54
25	133	159	53	360	89	113	29	51	67	113	267	276	261	268	269	265	171	285	270	299	315	316	319	341	312
26	5	347	314	25	264	28	350	177	131	153	38	321	71	52	43	46	105	44	57	7	122	346	135	23	39
27	127	306	55	152	296	55	304	232	92	90	307	281	284	296	292	288	290	299	316	262	286	301	307	317	300
28	267	272	291	288	318	358	103	153	229	330	271	30	133	256	262	279	272	269	276	269	276	213	132	165	266
29	296	289	278	280	263	264	262	286	270	291	303	310	318	290	302	310	290	184	163	161	162	160	158	157	264
30	158	160	162	163	161	165	154	149	168	94	179	357	150	296	292	302	345	314	314	322	314	309	304	331	237
31	230	360	174	156	18	147	345	207	126	150	31	142	189	212	27	177	108	104	101	112	92	51	153	115	126
Prev	81	22	46	145	57	110	93	121	80	71	285	325	275	305	301	301	314	281	346	45	47	30	73	80	2

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
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October 2017

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

Tintina Resources, Inc.
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November 2017

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	10	9	10	11	8	14	17	30	7	6	26	19	6	9	10	12	14	21	20	36	43	41	60	67	21	67	6
2	72	74	83	79	32	64	60	54	57	57	79	7	8	14	10	11	8	10	14	13	11	37	46	46	39	83	7
3	47	54	8	35	31	12	32	43	20	87	9	11	68	7	11	5	15	66	68	61	86	16	15	60	36	87	5
4	88	61	70	78	75	90	73	83	79	53	41	59	57	12	18	76	76	18	47	28	30	48	54	32	56	90	12
5	41	27	87	58	16	59	46	20	81	73	65	43	43	7	35	66	11	6	14	23	18	22	12	9	37	87	6
6	12	20	37	20	21	22	23	29	25	35	62	77	74	63	65	92	84	58	73	80	42	53	85	79	51	92	12
7	63	85	77	49	68	45	59	62	67	67	90	49	83	77	89	57	47	19	53	22	53	74	38	52	60	90	19
8	101	68	87	72	86	77	60	89	88	66	75	88	31	65	88	69	85	56	32	49	52	13	11	7	63	101	7
9	8	17	8	9	23	13	27	19	20	15	17	14	45	29	36	29	24	26	17	35	45	77	26	73	27	77	8
10	80	28	21	63	11	45	40	99	67	58	97	82	13	10	35	19	85	55	74	66	20	95	40	72	53	99	10
11	79	40	54	66	75	72	93	99	52	82	87	60	8	8	14	15	40	27	90	61	22	40	21	52	52	99	8
12	23	46	30	38	49	37	41	41	38	37	50	87	44	49	75	58	53	27	24	14	17	12	18	58	40	87	12
13	29	43	48	60	64	95	50	70	57	32	52	50	49	20	66	36	90	44	42	74	91	55	12	10	52	95	10
14	92	77	80	28	33	53	57	25	11	17	12	15	13	10	11	12	10	45	25	71	21	54	54	52	37	92	10
15	50	15	58	59	41	28	28	38	27	58	83	44	19	8	10	14	59	79	54	52	58	45	69	38	43	83	8
16	27	15	47	22	27	36	10	9	8	8	23	10	8	9	12	15	8	22	26	12	18	22	102	66	23	102	8
17	27	29	38	62	68	86	88	56	89	62	20	12	11	11	11	11	12	9	12	10	10	14	16	13	32	89	9
18	9	9	12	18	32	12	11	18	11	14	11	11	10	10	14	16	39	14	33	62	69	20	28	67	23	69	9
19	77	70	78	80	78	74	55	53	51	87	83	65	102	63	86	19	20	63	48	41	36	48	60	33	61	102	19
20	57	27	46	60	51	79	66	55	23	20	50	80	11	7	18	11	66	44	38	33	70	94	17	8	43	94	7
21	34	45	37	88	79	66	41	83	61	58	86	74	40	69	92	44	24	23	12	29	26	73	47	17	52	92	12
22	41	37	74	81	76	27	69	66	69	56	64	88	14	64	14	18	25	32	29	50	48	71	85	42	52	88	14
23	81	36	43	14	77	14	79	38	20	7	7	10	50	24	12	10	10	12	10	12	17	15	12	11	26	81	7
24	12	11	11	15	16	21	19	22	70	12	15	15	17	12	9	9	7	13	84	74	52	74	44	95	30	95	7
25	44	44	84	35	26	43	51	57	39	75	67	87	96	27	36	64	72	36	31	32	64	76	81	80	56	96	26
26	83	31	23	10	16	27	30	84	56	46	78	16	11	11	16	12	19	48	16	21	14	12	12	8	29	84	8
27	12	11	10	24	16	12	14	10	14	9	11	10	14	11	14	11	11	9	11	10	10	11	11	9	12	24	9
28	9	8	10	8	61	71	78	46	28	26	18	23	17	11	11	6	23	37	28	19	25	13	16	11	25	78	6
29	10	10	13	21	12	14	11	10	11	10	14	12	12	11	11	14	11	13	14	16	38	80	48	72	20	80	10
30	70	65	25	33	56	59	51	57	43	72	48	37	18	74	22	24	40	11	36	73	81	49	61	70	49	81	11
Avg	46	37	44	43	44	46	46	49	43	44	48	42	33	27	32	29	36	31	36	39	40	45	40	44	40	86	10
Max	101	85	87	88	86	95	93	99	89	87	97	88	102	77	92	92	90	79	90	80	91	95	102	95	63	102	26
Min	8	8	8	8	8	12	10	9	7	6	7	7	6	7	9	5	7	6	10	10	10	11	11	7	12	24	5

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December 2017

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	75	53	77	32	11	10	11	21	14	11	12	16	13	13	22	37	65	49	59	50	32	54	93	89	38	93	10
2	66	84	98	46	45	51	68	47	82	97	76	48	20	27	48	60	26	24	20	92	97	69	34	33	57	98	20
3	16	21	27	18	17	17	31	36	32	76	22	14	12	13	10	8	13	9	8	8	11	11	14	11	19	76	8
4	55	58	64	83	64	66	56	59	63	55	79	12	7	9	11	10	8	21	8	60	75	55	62	34	45	83	7
5	55	22	16	18	21	27	27	59	75	46	25	18	10	9	13	12	97	31	90	87	22	39	41	94	40	97	9
6	42	10	7	9	64	37	17	88	32	28	13	10	Au	Au	Au	6	39	25	45	44	53	29	28	59	33	88	6
7	26	53	48	40	47	37	95	63	77	85	56	81	50	77	12	54	49	69	40	48	46	43	48	32	53	95	12
8	46	38	40	51	39	75	66	66	60	76	81	94	86	45	41	44	47	41	45	57	52	55	60	89	58	94	38
9	80	44	56	80	75	72	67	82	52	85	76	68	84	57	70	49	28	40	43	40	40	39	61	69	61	85	28
10	66	73	78	75	61	71	60	71	73	61	100	85	86	92	62	39	61	27	40	50	57	70	39	50	64	100	27
11	62	47	77	48	73	48	50	37	96	71	70	82	72	58	60	68	40	26	38	49	35	43	52	66	57	96	26
12	75	44	51	48	61	95	83	80	71	67	93	88	102	25	25	16	11	22	16	58	47	88	75	81	59	102	11
13	88	33	54	73	54	51	92	85	95	68	95	62	68	89	27	36	24	39	72	43	73	42	50	17	60	95	17
14	17	10	10	11	20	44	34	62	27	82	74	90	70	28	51	10	71	28	44	54	78	73	71	96	48	96	10
15	93	64	79	56	68	83	91	82	71	91	63	94	66	78	79	81	54	94	11	16	13	19	75	44	65	94	11
16	55	14	16	56	53	42	12	18	15	28	13	11	10	9	9	6	79	50	31	53	71	69	66	73	36	79	6
17	64	56	61	66	68	40	50	86	67	21	28	29	19	17	34	27	19	21	25	38	48	62	52	36	43	86	17
18	35	37	13	11	14	19	35	39	10	12	13	11	11	11	10	10	11	12	7	10	21	66	52	37	21	66	7
19	28	22	62	21	8	7	4	10	6	14	9	9	18	17	9	11	9	14	17	40	28	36	18	12	18	62	4
20	75	11	9	16	15	49	40	9	22	7	14	14	11	10	8	17	27	10	64	43	19	47	92	10	27	92	7
21	60	93	53	62	39	90	74	87	94	70	93	70	40	16	29	45	42	17	25	18	16	32	71	10	52	94	10
22	11	12	11	16	11	8	5	6	8	6	5	20	19	17	11	8	27	17	34	85	32	14	22	17	18	85	5
23	23	23	30	51	35	13	38	55	49	60	64	91	56	9	10	18	45	60	70	82	62	49	34	32	44	91	9
24	57	62	56	55	92	85	62	90	83	76	86	56	90	50	79	70	37	45	74	85	57	76	56	66	69	92	37
25	79	89	91	89	71	86	87	93	85	78	68	34	8	7	9	6	39	35	14	14	10	8	14	40	48	93	6
26	34	40	43	59	77	51	58	80	81	72	91	78	67	25	18	23	43	50	38	69	65	74	87	98	59	98	18
27	76	99	99	68	67	81	86	79	32	90	14	11	10	9	11	10	12	11	18	51	65	33	18	29	45	99	9
28	10	10	12	12	17	27	88	33	58	53	47	56	77	36	15	11	12	16	13	17	24	65	83	76	36	88	10
29	28	20	25	29	11	10	13	21	25	27	16	6	10	23	25	10	51	38	6	5	6	5	5	5	18	51	5
30	4	5	5	6	4	6	36	57	94	59	74	86	99	68	22	67	38	6	8	20	8	11	12	16	34	99	4
31	67	68	50	31	81	50	55	87	73	53	74	21	86	91	60	79	27	26	53	66	66	74	51	80	61	91	21
Avg	51	42	46	43	45	47	51	58	56	56	53	47	46	35	30	31	37	31	35	47	43	47	50	48	45	89	13
Max	93	99	99	89	92	95	95	93	96	97	100	94	102	92	79	81	97	94	90	92	97	88	93	98	69	102	38
Min	4	5	5	6	4	6	4	6	6	6	5	6	7	7	8	6	8	6	6	5	6	5	5	5	18	51	4

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
October 2017

A-10

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	2.7	1.3	0.6	-0.9	-2.9	-3.5	-3.8	-3.0	-0.7	1.7	3.0	2.0	3.1	4.7	4.3	4.7	3.5	2.0	0.4	0.6	0.5	0.9	0.4	0.5	0.9	4.7	-3.8
2	0.6	0.5	0.4	0.0	-0.4	-0.8	-1.1	-1.3	-0.9	-1.2	-1.4	-1.6	-1.5	-2.1	-2.9	-3.4	-3.9	-4.5	-5.0	-5.4	-5.5	-5.4	-5.4	-5.3	-2.4	0.6	-5.5
3	-5.2	-5.2	-5.1	-5.1	-5.3	-5.5	-5.6	-5.5	-5.4	-5.6	-5.6	-5.5	-4.9	-4.0	-3.2	-3.1	-2.7	-2.9	-4.1	-5.8	-7.3	-7.9	-8.7	-9.4	-5.4	-2.7	-9.4
4	-9.5	-10.2	-10.0	-10.1	-10.4	-9.0	-8.9	-7.9	-4.7	-0.6	2.4	3.9	4.0	3.8	4.9	4.3	3.3	2.5	1.8	1.5	1.3	1.4	1.2	0.9	-1.8	4.9	-10.4
5	0.9	0.6	0.6	0.6	0.7	0.7	0.0	-0.8	1.7	4.2	5.4	5.9	6.5	6.5	7.1	7.1	6.9	6.6	4.6	2.1	0.8	0.3	-0.4	-1.0	2.8	7.1	-1.0
6	-1.7	-2.3	-3.1	-4.3	-4.6	-5.4	-5.5	-4.7	-1.3	4.7	7.2	8.7	9.8	10.5	11.0	10.7	11.3	9.0	5.8	4.9	7.1	7.7	10.5	10.6	4.0	11.3	-5.5
7	10.4	10.5	9.9	9.6	9.1	8.5	8.0	8.2	8.8	9.1	9.2	7.5	7.5	7.7	4.8	4.9	5.3	4.9	3.7	2.6	1.5	1.7	0.4	-2.0	6.3	10.5	-2.0
8	-2.9	-3.0	-4.0	-4.5	-5.6	-5.8	-6.5	-6.6	-2.2	1.5	2.7	2.7	2.4	1.9	1.8	1.6	0.8	0.4	-0.4	-0.8	-2.0	-3.4	-5.4	-6.6	-1.8	2.7	-6.6
9	-7.5	-7.5	-6.0	-5.9	-6.6	-5.6	-5.8	-5.3	-1.4	1.9	3.2	4.0	5.0	5.6	6.2	6.4	6.3	5.3	4.2	0.5	-2.5	-3.3	-5.0	-5.6	-0.8	6.4	-7.5
10	-5.7	-5.8	-6.3	-6.1	-6.6	-5.9	-6.5	-4.6	-0.7	5.9	8.2	9.4	10.4	10.8	11.5	12.1	11.8	10.3	6.3	2.3	2.6	0.7	0.1	-1.5	2.2	12.1	-6.6
11	-3.2	-3.7	-4.3	-4.3	-3.9	-2.7	-2.7	-1.7	3.1	7.7	10.1	11.5	11.2	11.2	10.2	9.9	5.8	2.5	0.6	0.5	-0.3	-0.3	-0.5	-1.5	2.3	11.5	-4.3
12	-3.1	-4.8	-6.3	-7.6	-8.6	-9.6	-10.2	-9.3	-6.0	-1.7	0.5	1.3	1.9	1.4	2.2	2.0	1.8	1.3	-1.5	-3.6	-4.1	-4.5	-3.7	-4.2	-3.2	2.2	-10.2
13	-3.8	-3.6	-2.4	-2.5	-2.5	-2.7	-3.3	-3.3	-2.0	0.4	1.6	2.0	1.6	-0.4	-0.7	-0.2	-0.6	-1.6	-3.6	-4.4	-6.0	-5.5	-5.0	-6.7	-2.3	2.0	-6.7
14	-5.5	-5.3	-4.5	-3.8	-3.5	-3.5	-3.9	-4.1	-2.5	-1.9	-1.0	0.0	0.9	1.9	2.4	2.7	2.5	1.7	1.4	1.6	1.4	1.1	1.0	0.4	-0.9	2.7	-5.5
15	0.4	0.2	-0.2	-0.1	-0.5	-3.5	-5.2	-4.6	0.3	4.6	5.6	7.3	8.6	9.4	10.5	11.0	11.0	9.7	4.8	2.7	-0.1	-2.1	-1.9	-2.7	2.7	11.0	-5.2
16	-2.9	-2.1	-2.5	-2.1	-2.0	-2.0	-0.9	2.8	7.7	9.6	10.9	12.1	12.9	13.7	14.3	14.3	13.9	11.4	6.6	3.6	1.7	0.3	-0.5	-1.4	5.0	14.3	-2.9
17	-1.8	-2.8	-2.5	-2.7	-3.8	-3.7	-3.2	-3.1	2.4	11.3	13.6	15.4	15.8	15.4	16.8	17.7	17.0	16.0	14.8	12.9	12.0	11.0	10.6	10.4	7.9	17.7	-3.8
18	9.8	9.5	8.9	8.4	7.6	6.5	6.4	6.4	7.6	8.8	9.6	11.1	12.5	13.5	14.3	13.9	13.1	12.2	10.3	6.4	6.6	6.2	8.5	9.4	9.5	14.3	6.2
19	10.0	9.2	10.0	9.6	9.1	8.7	8.5	9.9	12.7	14.9	16.7	17.6	18.4	18.6	18.9	18.5	17.8	16.5	13.3	14.6	13.4	10.5	8.8	7.8	13.1	18.9	7.8
20	7.3	7.6	9.0	6.7	4.9	5.3	6.1	7.0	9.0	11.3	11.6	12.7	12.5	7.9	3.1	1.7	0.4	0.3	0.5	0.7	0.7	0.7	0.4	0.2	5.3	12.7	0.2
21	-0.1	-0.4	-0.4	-0.4	-0.6	-0.4	-0.6	-0.5	0.3	0.9	1.2	1.8	2.4	3.3	3.5	3.4	2.9	2.4	1.8	1.4	2.9	3.2	3.1	3.8	1.5	3.8	-0.6
22	3.7	3.9	4.8	6.3	7.2	7.1	7.2	7.7	8.5	9.1	9.5	10.2	10.3	10.3	9.8	7.8	7.1	5.8	4.5	4.0	3.4	2.9	3.3	2.9	6.6	10.3	2.9
23	2.6	2.0	1.7	1.2	0.6	1.3	0.3	0.9	2.7	3.7	5.0	5.9	6.6	7.1	7.3	7.1	6.6	4.7	2.4	1.0	0.2	-2.2	-4.0	-4.8	2.5	7.3	-4.8
24	-5.6	-5.7	-6.3	-6.1	-6.7	-7.0	-7.2	-6.8	-3.4	3.5	6.9	9.3	10.1	11.1	11.6	12.0	12.2	11.0	6.4	3.2	0.8	-1.2	-2.9	-3.9	1.5	12.2	-7.2
25	-5.0	-5.5	-5.3	-5.9	-6.5	-6.5	-7.0	-6.8	-3.1	5.4	14.4	15.2	15.8	14.7	14.9	14.8	13.2	10.5	9.1	7.1	4.3	2.8	1.1	-0.5	3.8	15.8	-7.0
26	-2.0	-2.6	-2.9	-3.2	-3.6	-4.4	-4.6	-4.6	-4.5	-4.3	-3.9	-3.1	-1.9	0.0	0.9	1.2	0.7	-0.9	-1.0	-1.3	-1.9	-1.8	-2.3	-3.7	-2.3	1.2	-4.6
27	-5.6	-6.6	-7.7	-7.9	-8.5	-8.5	-9.0	-8.6	-5.7	-2.1	2.3	4.3	6.9	7.5	8.2	7.5	7.1	6.3	4.9	3.3	2.1	-0.1	-0.9	-2.2	-0.5	8.2	-9.0
28	-2.1	-2.6	-3.1	-4.7	-5.3	-5.3	-5.6	-6.0	-3.4	2.0	8.0	10.0	11.2	12.5	13.8	13.9	12.7	9.7	5.7	2.3	0.3	-0.9	-1.6	-2.2	2.5	13.9	-6.0
29	-2.6	-2.2	-2.2	0.5	4.3	3.6	2.9	2.1	0.8	0.0	-0.2	-0.6	-0.6	-1.2	-1.2	-1.5	-1.9	-2.2	-2.4	-2.5	-2.9	-2.9	-3.1	-3.4	-0.8	4.3	-3.4
30	-4.0	-4.4	-4.8	-4.8	-5.2	-5.5	-6.0	-6.4	-6.2	-5.8	-4.8	-3.4	-2.1	-1.2	-0.2	0.0	-0.6	-2.4	-4.6	-6.7	-7.9	-8.9	-10.3	-10.8	-4.9	0.0	-10.8
31	-11.2	-11.3	-11.1	-11.7	-11.5	-10.6	-10.1	-11.2	-8.8	-1.7	0.8	1.9	1.9	2.2	2.3	2.8	2.3	0.7	0.1	-0.4	-0.4	-0.6	-0.8	-0.8	-3.6	2.8	-11.7
Avg	-1.4	-1.7	-1.8	-2.0	-2.3	-2.4	-2.7	-2.3	0.1	3.1	4.9	5.8	6.4	6.6	6.7	6.6	6.1	4.8	2.9	1.6	0.7	0.0	-0.4	-1.1	1.6	7.9	-4.7
Max	10.4	10.5	10.0	9.6	9.1	8.7	8.5	9.9	12.7	14.9	16.7	17.6	18.4	18.6	18.9	18.5	17.8	16.5	14.8	14.6	13.4	11.0	10.6	10.6	13.1	18.9	7.8
Min	-11.2	-11.3	-11.1	-11.7	-11.5	-10.6	-10.2	-11.2	-8.8	-5.8	-5.6	-5.5	-4.9	-4.0	-3.2	-3.4	-3.9	-4.5	-5.0	-6.7	-7.9	-8.9	-10.3	-10.8	-5.4	-2.7	-11.7

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
November 2017

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	-0.6	-0.4	-0.4	-0.4	-0.4	-0.9	-1.6	-2.5	-2.7	-2.7	-3.1	-3.8	-4.0	-4.1	-4.0	-4.5	-5.0	-5.3	-5.8	-7.1	-9.5	-10.6	-13.6	-14.5	-4.5	-0.4	-14.5
2	-15.6	-16.9	-15.9	-14.4	-13.1	-12.3	-12.0	-11.5	-11.2	-9.9	-7.3	-5.1	-5.0	-4.9	-4.7	-4.8	-5.2	-5.5	-5.6	-5.6	-5.7	-5.8	-6.1	-6.2	-8.8	-4.7	-16.9
3	-6.5	-7.8	-8.6	-9.2	-9.2	-9.4	-9.2	-9.3	-9.2	-8.2	-5.2	-4.1	-5.4	-7.3	-7.1	-7.6	-9.6	-11.8	-11.4	-10.6	-9.9	-9.3	-9.3	-11.1	-8.6	-4.1	-11.8
4	-11.1	-10.8	-10.6	-10.3	-11.0	-12.7	-15.6	-17.5	-18.2	-16.5	-14.9	-10.3	-6.9	-5.4	-5.4	-5.8	-6.6	-7.4	-8.5	-8.5	-8.6	-8.3	-8.6	-8.7	-10.3	-5.4	-18.2
5	-8.7	-8.6	-8.8	-9.4	-9.5	-8.9	-9.3	-10.7	-11.6	-11.6	-9.9	-7.1	-5.2	-5.5	-5.5	-5.5	-8.6	-11.0	-11.6	-12.8	-13.3	-14.1	-14.5	-15.2	-9.9	-5.2	-15.2
6	-15.7	-16.0	-15.6	-15.7	-16.2	-16.3	-16.2	-16.2	-15.9	-15.3	-14.3	-13.5	-12.5	-11.6	-11.5	-12.6	-14.2	-17.3	-18.3	-18.7	-20.3	-21.3	-22.0		-16.0	-11.5	-22.0
7	-22.0	-23.3	-22.9	-23.6	-23.4	-23.5	-23.8	-24.0	-22.7	-21.1	-17.9	-14.8	-12.1	-9.4	-7.6	-6.8	-9.1	-10.0	-12.6	-11.9	-13.3	-13.4	-14.2	-14.6	-16.6	-6.8	-24.0
8	-13.5	-12.8	-12.3	-12.2	-11.2	-10.3	-9.6	-9.3	-8.0	-7.6	-6.9	-5.7	-4.1	-3.5	-3.5	-3.2	-3.8	-5.3	-5.1	-4.6	-4.7	-4.9	-5.1	-5.0	-7.2	-3.2	-13.5
9	-4.6	-4.5	-4.9	-4.7	-4.6	-3.9	-4.0	-3.3	-3.2	-3.0	-3.0	-1.8	-1.2	0.1	1.1	1.7	1.2	-0.8	-1.6	-2.6	-2.3	-2.7	0.0	-0.4	-2.2	1.7	-4.9
10	-1.6	-1.9	-2.4	-2.9	-2.9	-3.8	-3.2	-2.7	-3.8	-2.3	-1.5	0.8	2.2	2.6	2.2	1.5	1.0	-0.5	-2.0	-2.0	-2.2	-2.3	-2.0	-2.7	-1.3	2.6	-3.8
11	-2.4	-2.7	-3.4	-3.9	-4.7	-5.7	-6.9	-6.7	-6.8	-6.2	-4.8	-2.0	0.8	1.2	1.1	1.0	-0.1	-2.8	-4.0	-5.7	-7.8	-9.4	-11.1	-11.1	-4.3	1.2	-11.1
12	-11.2	-12.0	-11.5	-10.9	-10.3	-10.3	-10.6	-10.7	-10.5	-9.5	-7.8	-6.4	-4.9	-3.3	-0.7	1.2	-0.2	-2.0	-3.0	-3.9	-3.4	-3.7	-3.7	-4.0	-6.4	1.2	-12.0
13	-5.6	-6.6	-7.8	-9.4	-10.3	-11.0	-11.7	-11.8	-10.1	-6.3	-4.4	1.4	6.2	6.9	5.9	5.3	3.5	2.7	1.3	1.4	2.6	2.2	2.7	1.2	-2.2	6.9	-11.8
14	0.2	-0.4	0.3	-0.6	-0.9	-2.2	-2.2	-0.3	0.0	0.0	-0.1	0.0	0.1	0.0	-0.2	-0.2	-0.6	-2.4	-2.7	-5.2	-7.5	-9.1	-10.6	-11.0	-2.3	0.3	-11.0
15	-11.8	-11.8	-11.7	-12.5	-12.0	-11.7	-12.0	-13.2	-12.2	-10.9	-8.6	-2.2	1.8	2.1	1.9	1.4	0.3	-1.4	-2.9	-4.2	-5.1	-1.8	0.3	2.9	-5.6	2.9	-13.2
16	3.7	3.3	2.5	3.9	3.4	3.3	4.1	4.0	4.5	5.0	5.0	1.2	0.3	0.4	1.5	1.5	1.0	0.2	0.0	-0.5	-1.2	-3.0	-3.4	-4.7	1.5	5.0	-4.7
17	-4.8	-4.9	-5.1	-5.5	-6.6	-7.5	-8.5	-9.5	-8.1	-4.2	-1.9	-1.5	-1.1	-0.8	-1.0	-1.4	-2.0	-2.6	-2.9	-3.2	-3.8	-4.0	-4.1	-4.3	-4.1	-0.8	-9.5
18	-4.3	-4.3	-4.3	-3.8	-3.8	-3.4	-3.4	-3.3	-3.0	-2.7	-2.0	-1.7	-1.3	-1.1	-1.2	-1.4	-1.7	-1.6	-3.2	-4.9	-7.1	-8.6	-10.0	-11.5	-3.9	-1.1	-11.5
19	-12.3	-11.7	-11.6	-11.0	-10.2	-9.7	-8.4	-8.0	-8.1	-7.5	-5.9	-3.7	-1.5	0.9	0.8	1.5	2.8	1.0	-0.2	-2.5	-3.6	-1.5	2.0	4.0	-4.4	4.0	-12.3
20	1.8	2.0	2.8	2.3	3.4	3.7	3.0	3.2	3.8	4.1	3.8	3.3	4.5	3.4	2.0	0.5	0.4	0.3	0.1	0.3	0.4	0.5	0.5	-0.1	2.1	4.5	-0.1
21	-1.8	-2.7	-2.9	-3.2	-3.1	-2.8	-2.9	-3.6	-5.3	-6.0	-5.1	-3.2	-2.0	-0.5	0.0	-0.3	0.0	0.0	0.3	0.7	1.2	1.3	1.8	2.1	-1.6	2.1	-6.0
22	1.8	1.9	4.1	5.9	4.3	3.5	2.9	2.9	3.3	4.0	4.2	6.1	7.6	8.1	6.2	4.9	4.2	3.7	3.5	3.1	2.6	2.4	2.3	3.0	4.0	8.1	1.8
23	2.4	1.8	1.8	3.5	4.2	4.4	5.7	7.3	9.9	10.9	11.2	10.9	11.2	12.3	12.5	12.7	11.7	11.3	11.1	10.3	8.4	6.4	5.3	5.2	8.0	12.7	1.8
24	4.7	3.4	3.1	2.4	1.4	0.4	0.1	-0.6	-0.9	0.7	1.1	1.2	1.6	2.4	2.5	2.4	2.2	1.1	-0.3	-0.3	-0.2	-1.4	-3.0	-2.6	0.9	4.7	-3.0
25	-2.3	-2.7	-1.0	-3.9	-4.7	-5.9	-5.8	-6.7	-7.8	-6.5	-4.2	-1.0	1.8	3.2	3.1	2.8	0.9	-1.0	-2.0	-1.6	-1.9	-0.6	0.1	-0.1	-2.0	3.2	-7.8
26	0.9	1.4	1.4	1.8	1.9	0.7	0.0	-1.0	0.8	1.9	8.1	10.7	11.9	12.4	13.2	12.6	11.6	8.0	9.7	10.9	11.4	9.5	9.6	10.1	6.6	13.2	-1.0
27	10.1	9.9	9.7	8.0	4.5	3.1	2.6	2.2	2.1	1.9	1.6	1.5	1.3	1.4	1.4	0.5	-0.2	-1.1	-1.5	-2.1	-2.3	-2.7	-2.9	-3.1	1.9	10.1	-3.1
28	-3.3	-3.9	-3.8	-3.6	-4.2	-4.4	-3.9	-5.6	-6.7	-3.8	-1.6	-0.1	1.1	1.8	2.5	2.2	0.6	-0.6	-1.1	-0.7	-0.2	-1.8	1.7	1.9	-1.6	2.5	-6.7
29	2.3	1.4	0.4	0.2	-0.8	-1.4	-2.0	-1.8	-1.7	-1.9	-1.4	-0.7	-0.4	-0.4	-0.3	-0.6	-1.3	-1.7	-2.3	-2.8	-3.2	-3.5	-3.5	-4.2	-1.3	2.3	-4.2
30	-4.9	-5.8	-8.4	-9.0	-9.5	-9.4	-9.8	-9.8	-10.3	-7.3	-4.2	0.0	0.6	1.0	1.2	0.6	0.0	-0.5	-1.1	-1.7	-2.7	-4.4	-5.5	-6.4	-4.5	1.2	-10.3
Avg	-4.6	-4.9	-4.9	-5.1	-5.3	-5.6	-5.8	-6.0	-5.8	-4.8	-3.4	-1.7	-0.5	0.1	0.2	0.0	-0.8	-2.0	-2.8	-3.2	-3.7	-4.2	-4.2	-4.4	-3.5	1.6	-9.4
Max	10.1	9.9	9.7	8.0	4.5	4.4	5.7	7.3	9.9	10.9	11.2	10.9	11.9	12.4	13.2	12.7	11.7	11.3	11.1	10.9	11.4	9.5	9.6	10.1	8.0	13.2	1.8
Min	-22.0	-23.3	-22.9	-23.6	-23.4	-23.5	-23.8	-24.0	-22.7	-21.1	-17.9	-14.8	-13.5	-12.5	-11.6	-11.5	-12.6	-14.2	-17.3	-18.3	-18.7	-20.3	-21.3	-22.0	-16.6	-11.5	-24.0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
December 2017

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	-6.1	-5.3	-4.2	-1.5	-0.2	-0.7	-1.4	-2.0	-0.8	-0.2	0.1	0.3	0.6	0.7	0.9	1.3	0.3	-0.9	-3.3	-4.5	-5.6	-5.9	-6.3	-7.0	-2.2	1.3	-7.0
2	-7.4	-7.8	-9.1	-9.3	-9.9	-10.7	-10.5	-10.8	-10.9	-8.9	-6.3	-2.7	2.0	2.3	2.2	2.0	0.5	-0.8	-1.4	-2.7	-2.8	-2.3	-1.0	-0.5	-4.5	2.3	-10.9
3	-0.9	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-1.2	-0.9	-1.0	-0.8	-0.7	-0.7	-1.2	-1.3	-1.7	-2.0	-2.6	-2.9	-3.7	-4.7	-5.3	-5.8	-6.4	-2.0	-0.7	-6.4
4	-8.3	-10.3	-9.8	-10.3	-9.4	-9.3	-9.3	-9.3	-9.2	-9.0	-8.5	-7.6	-7.4	-7.3	-7.2	-7.0	-7.1	-7.5	-8.1	-11.2	-13.7	-14.1	-14.4	-13.7	-9.5	-7.0	-14.4
5	-11.6	-8.5	-7.9	-7.7	-7.6	-7.5	-7.5	-7.3	-7.3	-7.0	-6.4	-6.1	-5.8	-5.4	-5.3	-5.5	-6.2	-7.3	-10.6	-12.4	-12.9	-14.9	-15.7	-17.3	-8.8	-5.3	-17.3
6	-16.7	-12.2	-9.2	-8.7	-9.1	-10.6	-12.1	-12.6	-13.0	-9.8	-6.4	-5.8	AZ	Au	Au	-3.7	-5.3	-6.0	-6.8	-7.8	-8.5	-8.9	-9.5	-10.1	-9.2	-3.7	-16.7
7	-11.1	-12.5	-12.7	-14.1	-15.2	-15.9	-16.7	-16.6	-16.5	-15.5	-13.3	-10.6	-5.7	-2.9	-1.4	-1.6	-3.5	-6.5	-9.9	-11.3	-12.1	-12.8	-12.2	-12.0	-10.9	-1.4	-16.7
8	-12.0	-12.2	-13.1	-12.6	-13.4	-13.3	-13.0	-13.9	-13.0	-12.3	-11.2	-8.5	-6.0	-0.8	0.5	-1.7	-4.4	-6.8	-7.8	-9.2	-10.8	-12.4	-13.5	-14.1	-9.8	0.5	-14.1
9	-15.2	-15.0	-15.9	-16.3	-16.5	-16.7	-16.8	-16.0	-16.5	-14.7	-12.6	-9.8	-7.1	-0.8	-1.1	-3.3	-4.7	-6.1	-8.4	-9.8	-11.4	-12.1	-11.9	-12.3	-11.3	-0.8	-16.8
10	-13.3	-13.2	-12.6	-13.0	-13.1	-13.3	-13.5	-13.2	-12.4	-11.0	-8.3	-6.4	-4.4	0.1	3.0	1.0	-2.2	-5.3	-7.5	-9.0	-9.9	-10.4	-11.5	-12.2	-8.8	3.0	-13.5
11	-12.6	-12.9	-13.0	-13.1	-13.5	-13.5	-13.0	-14.2	-13.5	-12.3	-10.2	-7.4	-3.4	-0.6	0.4	0.0	-2.5	-3.7	-4.4	-5.4	-7.1	-7.8	-9.5	-9.8	-8.5	0.4	-14.2
12	-9.7	-9.9	-10.2	-11.3	-11.7	-12.1	-12.4	-13.1	-13.2	-11.9	-9.3	-5.8	0.6	6.0	5.1	4.6	5.0	3.9	3.6	1.4	-0.6	-3.0	-4.0	-5.6	-4.7	6.0	-13.2
13	-7.8	-9.8	-11.6	-12.5	-11.9	-13.1	-12.8	-12.1	-10.9	-8.8	-5.8	-3.9	-3.5	-2.7	-2.3	-2.1	-2.9	-2.7	-4.4	-6.4	-6.6	-6.6	-5.9	-7.5	-7.3	-2.1	-13.1
14	-4.4	-3.5	-3.3	-3.4	-6.4	-8.0	-9.8	-11.1	-12.6	-13.0	-10.7	-8.7	-4.1	-2.3	-1.5	-2.2	-4.3	-7.5	-8.9	-10.2	-11.2	-12.1	-12.1	-12.0	-7.6	-1.5	-13.0
15	-12.9	-12.6	-12.9	-13.2	-13.2	-12.9	-13.5	-12.6	-11.6	-10.8	-8.7	-7.6	-6.2	-4.9	-3.6	-2.2	-2.0	-1.9	1.2	0.5	-0.6	-1.1	-1.6	-1.5	-6.9	1.2	-13.5
16	-1.8	-2.1	-2.2	-2.5	-2.6	-2.8	-2.7	-2.9	-3.0	-3.0	-3.1	-2.9	-2.7	-3.0	-4.0	-4.6	-6.9	-8.9	-10.1	-11.9	-14.1	-15.3	-15.4	-16.4	-6.0	-1.8	-16.4
17	-18.5	-19.4	-20.3	-20.9	-20.8	-17.6	-11.5	-10.2	-8.4	-7.0	-6.4	-5.7	-4.9	-4.4	-4.6	-4.3	-4.3	-4.0	-3.6	-3.6	-3.8	-3.4	-3.5	-3.8	-9.0	-3.4	-20.9
18	-3.2	-0.7	0.2	0.5	0.4	0.9	0.5	1.5	1.8	2.0	2.6	3.0	2.8	2.7	2.6	2.6	2.7	1.8	0.1	-0.3	-1.4	-2.1	-1.8	-1.7	0.7	3.0	-3.2
19	-1.0	-0.8	-1.1	-1.3	-1.3	-2.1	-3.0	-3.6	-3.5	-2.9	-2.2	-1.6	-0.2	-0.1	0.0	-0.1	-0.1	0.0	0.1	0.5	0.2	0.6	0.5	0.8	-0.9	0.8	-3.6
20	1.1	1.7	2.1	1.6	1.4	0.5	-4.6	-6.6	-6.6	-10.1	-10.8	-11.8	-12.1	-12.9	-12.9	-13.5	-14.4	-15.0	-15.2	-15.3	-15.5	-15.8	-17.3	-19.4	-9.2	2.1	-19.4
21	-21.9	-23.9	-23.9	-25.3	-24.4	-24.2	-24.0	-24.0	-22.5	-19.7	-17.2	-14.6	-10.7	-8.1	-7.9	-8.0	-8.3	-8.6	-9.1	-9.1	-8.8	-8.5	-8.4	-7.3	-15.4	-7.3	-25.3
22	-7.4	-7.9	-8.5	-9.4	-10.2	-11.0	-11.7	-13.0	-13.5	-13.7	-13.5	-14.2	-14.5	-14.8	-15.0	-15.4	-15.8	-16.2	-16.4	-16.4	-16.5	-16.7	-16.8	-17.0	-13.6	-7.4	-17.0
23	-17.2	-17.4	-17.4	-17.9	-17.9	-18.1	-19.0	-21.6	-24.9	-25.1	-25.4	-22.2	-18.3	-16.2	-15.8	-15.9	-17.7	-18.8	-18.0	-20.9	-23.6	-25.9	-26.9	-26.9	-20.4	-15.8	-26.9
24	-28.3	-28.6	-29.4	-30.2	-30.8	-30.6	-30.2	-31.3	-30.7	-29.4	-26.9	-24.0	-21.1	-16.0	-14.2	-15.2	-17.7	-21.1	-21.8	-23.1	-24.2	-25.1	-25.8	-26.2	-25.1	-14.2	-31.3
25	-25.8	-25.8	-25.7	-24.8	-23.3	-22.4	-21.5	-20.6	-19.9	-19.4	-18.3	-17.2	-17.2	-17.0	-16.8	-16.7	-17.2	-17.9	-18.6	-18.7	-19.4	-19.7	-19.7	-19.8	-20.1	-16.7	-25.8
26	-19.8	-19.9	-19.7	-19.5	-19.3	-19.1	-19.4	-22.0	-23.7	-23.2	-21.5	-19.6	-16.8	-13.9	-12.4	-12.3	-15.5	-18.2	-19.1	-18.3	-16.9	-17.2	-17.2	-17.1	-18.4	-12.3	-23.7
27	-16.7	-16.2	-15.6	-14.3	-14.0	-13.0	-12.5	-12.0	-11.1	-8.5	-6.4	-5.2	-5.0	-5.2	-5.2	-4.8	-5.2	-5.7	-6.5	-7.1	-7.4	-6.9	-6.9	-7.0	-9.1	-4.8	-16.7
28	-6.3	-6.3	-6.5	-6.1	-7.0	-7.2	-6.6	-6.6	-6.6	-6.1	-5.5	-4.6	-3.5	-1.9	-1.0	-0.8	-0.9	-1.1	-1.1	-1.2	-1.5	-2.5	-2.9	-2.6	-4.0	-0.8	-7.2
29	-2.2	-6.2	-15.1	-17.7	-18.4	-19.8	-20.6	-20.9	-20.9	-20.5	-20.4	-20.4	-20.1	-19.5	-19.9	-20.0	-20.2	-20.5	-20.8	-21.2	-21.8	-21.7	-21.8	-22.1	-18.9	-2.2	-22.1
30	-22.0	-21.7	-21.3	-21.2	-21.3	-21.1	-20.6	-20.0	-20.0	-20.2	-18.7	-16.4	-14.0	-9.5	-11.9	-13.9	-14.8	-20.7	-23.8	-24.0	-23.9	-24.3	-24.1	-23.7	-19.7	-9.5	-24.3
31	-22.9	-22.1	-22.2	-23.2	-22.7	-22.7	-21.9	-20.8	-20.0	-19.2	-18.4	-17.9	-16.3	-14.5	-12.5	-11.8	-12.3	-15.2	-16.3	-17.7	-19.0	-20.3	-20.8	-20.4	-18.8	-11.8	-23.2
Avg	-11.7	-11.7	-12.0	-12.3	-12.4	-12.5	-12.7	-12.9	-12.8	-12.0	-10.7	-9.2	-7.5	-5.8	-5.4	-5.7	-6.8	-8.1	-9.0	-10.0	-10.8	-11.4	-11.7	-12.0	-10.3	-3.5	-16.4
Max	1.1	1.7	2.1	1.6	1.4	0.9	0.5	1.5	1.8	2.0	2.6	3.0	2.8	6.0	5.1	4.6	5.0	3.9	3.6	1.4	0.2	0.6	0.5	0.8	0.7	6.0	-3.2
Min	-28.3	-28.6	-29.4	-30.2	-30.8	-30.6	-30.2	-31.3	-30.7	-29.4	-26.9	-24.0	-21.1	-19.5	-19.9	-20.0	-20.2	-21.1	-23.8	-24.0	-24.2	-25.9	-26.9	-26.9	-25.1	-16.7	-31.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
October 2017

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	2.1	0.4	-0.1	-2.3	-3.7	-4.5	-4.5	-2.8	-0.4	1.9	3.5	2.3	3.6	5.3	4.7	5.3	3.7	2.1	0.3	0.7	0.2	0.5	0.4	0.5	0.8	5.3	-4.5
2	0.5	0.4	0.4	0.0	-0.4	-0.8	-1.1	-1.1	-0.5	-0.5	-0.8	-0.9	-0.8	-1.3	-2.4	-3.0	-3.7	-4.4	-4.8	-5.2	-5.4	-5.3	-5.3	-5.2	-2.1	0.5	-5.4
3	-5.1	-5.1	-5.1	-5.0	-5.2	-5.4	-5.5	-5.4	-5.2	-5.3	-5.1	-5.0	-4.4	-3.5	-2.7	-2.6	-2.4	-2.9	-4.7	-6.6	-7.9	-8.4	-9.7	-10.4	-5.4	-2.4	-10.4
4	-10.5	-10.9	-11.0	-11.2	-11.5	-10.1	-9.7	-8.3	-4.4	-0.1	2.9	4.6	4.5	4.6	5.7	4.6	3.6	2.6	1.9	1.5	1.4	1.6	1.2	0.9	-1.9	5.7	-11.5
5	0.8	0.5	0.7	0.7	0.7	0.6	-0.5	-0.9	2.1	4.6	5.9	6.7	7.3	7.3	7.9	7.6	7.1	6.7	4.1	1.3	0.4	0.1	-1.1	-2.1	2.9	7.9	-2.1
6	-2.7	-3.6	-4.9	-5.8	-6.0	-6.2	-6.3	-5.1	-1.0	5.4	8.0	9.6	10.8	11.3	11.4	10.9	11.2	8.0	5.1	3.6	3.2	4.9	9.7	10.1	3.4	11.4	-6.3
7	9.9	10.2	9.5	9.2	8.5	7.8	7.6	8.1	8.8	9.3	9.5	7.4	7.6	8.1	4.9	5.1	5.4	4.7	3.4	2.0	0.6	1.4	-0.6	-2.9	6.1	10.2	-2.9
8	-4.0	-3.4	-4.8	-5.4	-6.6	-6.6	-7.6	-7.1	-1.8	1.7	3.4	3.1	2.8	2.3	2.5	2.1	1.1	0.5	-0.6	-0.9	-2.4	-4.5	-6.7	-7.9	-2.1	3.4	-7.9
9	-8.6	-7.8	-5.9	-6.1	-7.0	-5.6	-6.2	-5.7	-1.3	2.5	4.1	5.0	6.0	6.6	7.1	7.1	6.7	5.0	3.0	-0.5	-3.3	-4.4	-6.8	-7.1	-1.0	7.1	-8.6
10	-7.8	-7.8	-8.3	-8.2	-8.1	-7.8	-7.9	-5.3	-0.6	6.3	8.7	9.9	10.8	11.0	11.9	12.6	11.8	9.4	4.4	0.5	0.8	-0.9	-2.2	-4.0	1.2	12.6	-8.3
11	-5.4	-5.8	-6.6	-6.6	-5.9	-3.8	-3.5	-2.5	3.2	7.8	10.3	12.2	12.0	12.0	10.7	10.3	6.0	2.6	0.6	0.5	-0.4	-0.4	-0.8	-1.9	1.9	12.2	-6.6
12	-4.2	-6.9	-7.8	-9.2	-10.3	-11.3	-11.8	-10.0	-5.6	-1.4	1.1	2.1	2.7	2.2	2.8	2.4	2.0	0.6	-2.5	-4.9	-4.4	-4.8	-3.8	-4.3	-3.6	2.8	-11.8
13	-4.1	-3.6	-2.5	-2.6	-2.8	-2.9	-3.9	-3.5	-1.9	0.7	2.0	2.4	2.2	-0.1	-0.5	0.0	-0.4	-2.0	-4.7	-5.4	-7.6	-6.3	-6.4	-7.9	-2.6	2.4	-7.9
14	-6.0	-5.2	-4.5	-3.9	-3.7	-3.4	-4.3	-4.8	-2.5	-1.9	-0.9	0.4	1.4	2.5	3.0	3.1	2.7	1.3	1.0	1.4	1.3	1.0	0.7	0.0	-0.9	3.1	-6.0
15	0.1	-0.2	-1.1	-0.6	-2.4	-4.5	-5.7	-4.9	0.6	5.1	6.1	8.1	9.4	10.3	11.2	11.5	11.2	7.5	3.7	2.0	-1.7	-3.4	-3.9	-4.6	2.2	11.5	-5.7
16	-4.5	-3.5	-3.4	-2.8	-2.8	-3.3	-2.7	1.2	7.4	10.0	11.6	12.9	13.7	14.5	14.9	14.7	13.8	9.8	5.2	2.9	0.9	-0.4	-1.3	-2.5	4.4	14.9	-4.5
17	-3.2	-5.1	-5.2	-4.1	-5.3	-6.0	-5.7	-4.9	2.1	11.7	14.1	16.2	16.7	15.8	17.0	18.0	16.9	15.6	14.2	11.9	11.4	10.5	10.4	10.2	7.2	18.0	-6.0
18	9.5	9.2	8.7	8.2	7.2	5.6	5.7	6.0	8.1	9.2	10.0	11.9	13.3	14.1	14.9	14.1	13.0	11.5	8.3	4.7	4.5	4.2	5.8	7.1	8.9	14.9	4.2
19	8.6	7.3	8.7	8.4	8.0	7.2	7.2	8.9	12.6	15.3	17.4	18.6	19.5	19.5	19.6	18.6	17.6	15.3	10.0	13.2	11.7	9.0	6.5	5.7	12.3	19.6	5.7
20	4.5	4.6	7.2	5.4	3.2	3.8	4.8	6.1	8.4	11.1	11.2	12.9	12.5	8.4	3.6	1.8	0.5	0.3	0.4	0.5	0.6	0.6	0.4	0.0	4.7	12.9	0.0
21	-0.4	-0.7	-0.8	-0.8	-1.1	-0.8	-0.9	-0.7	0.3	1.1	1.5	2.2	2.9	4.0	4.2	3.8	2.8	1.8	1.0	0.9	2.8	3.1	3.0	3.7	1.4	4.2	-1.1
22	3.6	3.8	4.7	6.2	7.1	7.1	7.1	7.8	8.7	9.3	9.8	10.8	11.0	10.9	10.1	7.9	7.2	5.7	4.3	3.8	3.1	2.6	3.0	2.7	6.6	11.0	2.6
23	2.5	1.2	0.5	-0.1	-0.2	0.6	-0.8	0.3	2.8	4.2	5.7	6.7	7.5	8.0	8.0	7.5	6.6	3.5	1.5	0.1	-1.9	-4.0	-5.2	-6.3	2.0	8.0	-6.3
24	-7.1	-6.8	-7.6	-7.7	-8.2	-8.5	-8.4	-8.1	-3.3	3.7	7.5	10.1	10.9	11.9	12.3	12.5	12.3	10.1	5.2	2.9	-0.2	-3.3	-4.8	-5.6	0.8	12.5	-8.5
25	-6.9	-7.0	-7.1	-7.5	-8.7	-8.8	-9.0	-8.6	-3.1	5.5	14.9	16.0	16.5	14.8	14.9	14.8	13.0	10.2	8.8	6.9	4.1	2.7	1.1	-0.5	3.2	16.5	-9.0
26	-1.9	-2.5	-2.9	-3.2	-3.5	-4.3	-4.5	-4.5	-4.2	-3.9	-3.5	-2.5	-1.3	0.6	1.6	1.7	0.7	-1.2	-1.1	-1.7	-2.2	-2.0	-2.6	-4.7	-2.2	1.7	-4.7
27	-7.3	-7.8	-9.0	-8.8	-9.5	-9.3	-10.0	-9.1	-5.5	-1.9	2.7	5.0	7.8	8.2	8.6	7.7	7.1	5.9	4.2	3.0	1.2	-0.7	-1.8	-3.1	-0.9	8.6	-10.0
28	-2.8	-3.4	-4.4	-6.1	-6.6	-6.7	-7.3	-7.1	-3.4	2.4	8.6	10.6	12.0	13.3	14.4	14.2	12.4	8.5	4.8	1.0	-0.8	-2.4	-3.6	-3.5	1.8	14.4	-7.3
29	-3.5	-3.9	-3.4	-1.2	4.0	3.5	2.8	2.1	0.9	0.2	0.0	-0.3	-0.2	-0.9	-1.0	-1.4	-1.8	-2.2	-2.4	-2.6	-3.0	-2.9	-3.1	-3.4	-1.0	4.0	-3.9
30	-3.9	-4.4	-4.7	-4.8	-5.1	-5.4	-6.0	-6.3	-5.9	-5.3	-4.2	-2.9	-1.4	-0.5	0.3	0.4	-0.7	-3.5	-6.2	-8.0	-9.6	-10.6	-11.3	-12.0	-5.1	0.4	-12.0
31	-11.9	-12.2	-11.8	-12.7	-12.0	-10.8	-10.7	-11.9	-8.7	-1.5	1.3	2.4	2.3	2.6	2.5	2.9	2.3	0.7	0.1	-0.3	-0.4	-0.6	-0.7	-0.7	-3.7	2.9	-12.7
Avg	-2.2	-2.6	-2.7	-2.9	-3.2	-3.2	-3.5	-2.8	0.2	3.5	5.4	6.4	7.1	7.2	7.2	7.0	6.1	4.3	2.2	0.9	-0.1	-0.7	-1.3	-1.9	1.3	8.3	-5.8
Max	9.9	10.2	9.5	9.2	8.5	7.8	7.6	8.9	12.6	15.3	17.4	18.6	19.5	19.5	19.6	18.6	17.6	15.6	14.2	13.2	11.7	10.5	10.4	10.2	12.3	19.6	5.7
Min	-11.9	-12.2	-11.8	-12.7	-12.0	-11.3	-11.8	-11.9	-8.7	-5.3	-5.1	-5.0	-4.4	-3.5	-2.7	-3.0	-3.7	-4.4	-6.2	-8.0	-9.6	-10.6	-11.3	-12.0	-5.4	-2.4	-12.7

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
November 2017

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	-0.5	-0.4	-0.3	-0.3	-0.3	-0.8	-1.6	-2.4	-2.6	-2.7	-3.0	-3.7	-3.9	-4.0	-3.9	-4.6	-5.5	-5.5	-5.9	-7.9	-10.1	-11.9	-14.6	-15.7	-4.7	-0.3	-15.7
2	-17.3	-18.9	-16.8	-14.7	-13.2	-12.3	-12.0	-11.8	-11.3	-9.9	-7.4	-5.1	-5.0	-4.8	-4.7	-4.7	-5.1	-5.4	-5.6	-5.6	-5.7	-5.8	-6.0	-6.2	-9.0	-4.7	-18.9
3	-6.5	-8.0	-8.6	-9.1	-9.1	-9.3	-9.2	-9.2	-9.0	-8.1	-5.2	-4.1	-5.4	-7.2	-7.0	-7.4	-9.5	-11.7	-11.2	-10.5	-9.8	-9.2	-9.2	-10.9	-8.5	-4.1	-11.7
4	-11.0	-10.7	-10.7	-10.5	-11.8	-14.9	-18.3	-19.6	-20.2	-18.6	-16.5	-12.5	-7.1	-5.8	-6.2	-6.3	-7.4	-8.3	-9.0	-9.0	-9.0	-8.7	-8.9	-9.2	-11.3	-5.8	-20.2
5	-9.2	-9.1	-9.2	-10.2	-9.9	-9.2	-9.9	-12.8	-13.4	-12.8	-10.7	-8.2	-5.7	-5.4	-5.3	-5.6	-8.6	-10.9	-11.6	-12.7	-13.2	-14.0	-14.3	-15.1	-10.3	-5.3	-15.1
6	-15.6	-15.8	-15.4	-15.5	-16.1	-16.2	-16.1	-16.2	-16.1	-15.7	-15.1	-14.0	-13.2	-12.7	-12.3	-13.0	-14.3	-17.5	-18.8	-20.8	-21.7	-23.2	-23.5	-24.5	-16.8	-12.3	-24.5
7	-24.8	-25.8	-26.0	-25.7	-26.2	-26.6	-27.1	-26.6	-25.2	-23.2	-19.4	-16.4	-13.5	-10.5	-8.8	-9.0	-11.1	-12.5	-14.6	-13.4	-14.9	-14.8	-15.8	-15.7	-18.6	-8.8	-27.1
8	-14.6	-13.4	-12.9	-12.5	-11.7	-10.7	-9.8	-9.4	-8.1	-7.7	-6.9	-5.9	-4.4	-3.4	-3.5	-3.4	-5.0	-6.5	-5.4	-4.8	-4.9	-5.0	-5.1	-5.1	-7.5	-3.4	-14.6
9	-4.7	-4.5	-4.9	-4.7	-4.6	-3.9	-4.0	-3.4	-3.3	-3.1	-2.9	-1.8	-0.9	0.2	1.1	1.6	0.6	-1.7	-2.6	-3.9	-3.4	-3.7	-0.1	-0.5	-2.5	1.6	-4.9
10	-2.3	-2.9	-2.8	-3.5	-3.5	-4.3	-3.7	-3.7	-4.7	-3.3	-2.1	0.7	2.1	2.4	1.5	0.7	0.5	-1.2	-2.5	-2.5	-2.6	-2.8	-2.3	-2.8	-1.9	2.4	-4.7
11	-2.9	-2.8	-3.7	-4.6	-5.5	-6.7	-7.8	-7.9	-7.3	-6.4	-5.2	-2.7	0.6	1.1	0.8	0.6	-1.4	-4.0	-5.3	-7.7	-10.3	-12.1	-13.4	-13.5	-5.3	1.1	-13.5
12	-13.6	-14.0	-14.1	-13.4	-12.2	-12.5	-13.0	-12.8	-12.0	-10.9	-8.5	-7.4	-5.8	-3.9	-2.8	0.2	-1.3	-3.1	-4.4	-5.5	-4.5	-4.5	-4.7	-5.3	-7.9	0.2	-14.1
13	-6.8	-8.5	-10.3	-11.8	-12.5	-13.2	-13.7	-13.9	-12.5	-8.4	-5.8	-1.4	4.8	5.8	5.3	4.1	2.2	1.3	0.1	-0.5	1.2	0.5	2.2	1.0	-3.8	5.8	-13.9
14	0.1	-0.8	0.0	-0.8	-1.1	-2.8	-2.9	-0.7	-0.2	-0.2	-0.3	-0.2	0.0	0.0	-0.2	-0.4	-1.2	-4.0	-4.2	-7.0	-9.1	-9.9	-12.0	-12.4	-2.9	0.1	-12.4
15	-13.4	-14.0	-14.2	-14.4	-13.7	-14.1	-14.7	-15.5	-14.7	-12.8	-10.0	-4.3	1.3	1.4	1.0	0.3	-0.6	-3.1	-5.3	-6.2	-6.9	-4.5	-0.9	2.1	-7.4	2.1	-15.5
16	2.9	2.8	1.9	3.5	3.0	2.8	3.5	3.3	4.0	4.6	4.6	1.2	0.4	0.4	1.3	1.3	0.5	-0.7	-0.8	-1.3	-2.4	-4.4	-5.0	-6.2	0.9	4.6	-6.2
17	-5.6	-5.6	-5.6	-6.4	-7.6	-8.6	-9.5	-10.5	-8.6	-4.8	-2.0	-1.6	-1.2	-0.9	-1.3	-1.6	-2.4	-2.9	-3.2	-3.5	-4.3	-4.5	-4.5	-4.7	-4.6	-0.9	-10.5
18	-4.8	-4.7	-4.8	-4.0	-4.0	-3.5	-3.5	-3.4	-3.1	-2.9	-2.1	-1.9	-1.5	-1.3	-1.4	-1.8	-2.2	-2.4	-4.2	-5.8	-8.4	-9.7	-11.1	-13.0	-4.4	-1.3	-13.0
19	-13.3	-12.5	-12.3	-11.6	-11.4	-10.9	-9.5	-9.0	-9.0	-8.2	-6.8	-4.9	-1.9	0.7	0.0	0.3	1.2	-0.2	-2.1	-4.3	-5.3	-3.2	0.7	3.2	-5.4	3.2	-13.3
20	0.0	-0.5	-0.1	0.6	2.0	3.0	1.8	2.2	3.2	3.7	3.4	2.9	4.2	3.2	1.9	0.5	0.4	0.3	0.2	0.3	0.4	0.0	-0.3	-0.4	1.4	4.2	-0.5
21	-1.9	-2.6	-2.9	-3.6	-3.2	-2.8	-3.0	-4.5	-6.8	-7.2	-5.7	-3.7	-2.4	-1.2	-0.7	-0.5	-0.2	0.0	0.3	0.7	1.2	1.2	1.7	1.9	-1.9	1.9	-7.2
22	1.6	1.5	3.1	5.0	3.2	3.1	2.5	2.2	2.3	3.4	3.6	4.9	6.0	6.5	5.1	4.2	3.8	3.4	3.1	2.8	2.2	1.9	1.6	2.1	3.3	6.5	1.5
23	1.4	1.5	1.4	2.4	3.2	3.4	4.0	5.8	8.8	9.7	9.7	9.3	9.8	11.1	11.2	11.3	10.4	10.2	9.9	9.0	7.2	5.8	4.9	4.8	6.9	11.3	1.4
24	4.4	3.2	2.8	2.0	1.0	-0.4	-0.7	-2.1	-1.5	0.4	1.0	1.2	1.5	2.3	2.2	2.0	1.7	0.4	-1.1	-1.6	-1.0	-2.8	-4.2	-3.7	0.3	4.4	-4.2
25	-3.4	-4.1	-2.2	-4.8	-6.0	-6.5	-6.2	-7.3	-8.3	-6.9	-4.3	-1.2	1.9	3.2	2.9	2.2	0.0	-1.6	-2.3	-2.0	-2.1	-0.9	-0.2	-0.8	-2.5	3.2	-8.3
26	0.3	0.8	0.3	1.6	1.6	0.3	-0.8	-2.4	-1.4	0.3	6.7	9.7	10.8	10.6	11.9	11.0	9.7	6.4	8.1	9.2	9.8	7.6	8.1	9.0	5.4	11.9	-2.4
27	9.0	9.1	9.1	7.4	4.2	2.9	2.3	2.0	1.9	1.7	1.5	1.5	1.3	1.4	1.4	0.4	-0.5	-1.6	-1.9	-2.6	-2.6	-3.0	-3.2	-3.4	1.6	9.1	-3.4
28	-3.6	-4.3	-4.2	-4.0	-4.7	-4.9	-4.4	-6.2	-6.9	-3.5	-1.3	0.4	1.6	2.2	2.8	2.0	0.4	-1.4	-2.4	-1.4	-0.9	-2.0	1.3	1.6	-1.8	2.8	-6.9
29	2.1	1.2	0.4	0.1	-0.8	-1.5	-2.0	-1.8	-1.8	-1.9	-1.4	-0.5	0.0	-0.1	-0.1	-0.6	-1.6	-2.0	-2.6	-3.1	-3.6	-3.8	-4.0	-5.3	-1.4	2.1	-5.3
30	-6.1	-6.7	-8.9	-9.4	-9.9	-9.8	-10.4	-10.3	-10.4	-7.1	-4.0	0.5	1.0	1.3	1.2	0.2	-0.4	-1.1	-1.5	-2.3	-3.4	-5.2	-6.0	-7.2	-4.8	1.3	-10.4
Avg	-5.3	-5.7	-5.7	-5.8	-6.0	-6.4	-6.7	-6.9	-6.6	-5.4	-3.9	-2.3	-0.8	-0.2	-0.2	-0.5	-1.6	-2.9	-3.6	-4.1	-4.6	-5.1	-5.0	-5.2	-4.2	1.1	-10.5
Max	9.0	9.1	9.1	7.4	4.2	3.4	4.0	5.8	8.8	9.7	9.7	9.7	10.8	11.1	11.9	11.3	10.4	10.2	9.9	9.2	9.8	7.6	8.1	9.0	6.9	11.9	1.5
Min	-24.8	-25.8	-26.0	-25.7	-26.2	-26.6	-27.1	-26.6	-25.2	-23.2	-19.4	-16.4	-13.5	-12.7	-12.3	-13.0	-14.3	-17.5	-18.8	-20.8	-21.7	-23.2	-23.5	-24.5	-18.6	-12.3	-27.1

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
December 2017

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-6.3	-5.3	-4.6	-1.8	-0.5	-1.0	-2.0	-2.5	-1.0	-0.2	0.1	0.5	0.9	0.9	1.0	1.2	-0.3	-2.8	-4.0	-5.1	-6.2	-6.3	-7.2	-7.9	-2.5	1.2	-7.9
2	-8.6	-8.8	-10.1	-10.1	-11.0	-11.8	-11.0	-11.4	-11.2	-8.8	-6.1	-2.3	2.2	2.5	2.2	1.8	0.2	-1.9	-2.4	-3.7	-3.5	-2.8	-1.5	-0.6	-4.9	2.5	-11.8
3	-0.8	-0.8	-0.7	-0.6	-0.6	-0.6	-0.7	-1.6	-1.1	-0.9	-0.7	-0.7	-0.8	-1.1	-1.4	-1.9	-2.1	-2.8	-3.0	-4.1	-5.0	-5.5	-5.9	-6.8	-2.1	-0.6	-6.8
4	-9.4	-12.0	-10.8	-11.1	-9.4	-9.3	-9.3	-9.3	-9.1	-8.9	-8.4	-7.5	-7.3	-7.2	-7.1	-7.0	-7.1	-7.5	-8.7	-12.7	-15.3	-15.1	-15.7	-15.5	-10.0	-7.0	-15.7
5	-12.8	-8.6	-7.9	-7.6	-7.6	-7.5	-7.5	-7.3	-7.3	-7.1	-6.4	-6.2	-5.9	-5.7	-5.6	-6.4	-7.0	-9.0	-12.1	-13.8	-14.3	-15.9	-17.0	-18.9	-9.4	-5.6	-18.9
6	-18.0	-14.0	-10.1	-9.6	-10.2	-11.4	-13.7	-15.1	-14.6	-11.3	-7.8	-6.2	Au	Au	Au	-4.9	-6.4	-6.8	-7.5	-9.0	-9.3	-9.5	-9.8	-10.7	-10.3	-4.9	-18.0
7	-12.2	-13.4	-13.1	-15.2	-16.4	-17.5	-17.6	-17.7	-17.8	-16.7	-13.7	-11.6	-7.7	-3.0	-2.3	-2.8	-4.6	-8.0	-11.3	-12.5	-13.8	-14.3	-13.9	-13.4	-12.1	-2.3	-17.8
8	-13.4	-13.2	-14.3	-13.9	-15.3	-14.8	-15.4	-16.3	-15.5	-13.9	-12.2	-9.2	-6.9	-3.4	-0.1	-2.3	-5.2	-7.8	-9.3	-10.7	-12.4	-13.8	-15.0	-16.1	-11.3	-0.1	-16.3
9	-17.2	-17.3	-18.2	-18.1	-18.6	-18.6	-18.9	-18.2	-18.2	-16.9	-13.8	-10.7	-8.0	-5.4	-3.3	-4.2	-5.7	-7.3	-10.3	-12.0	-13.5	-13.5	-14.1	-14.8	-13.2	-3.3	-18.9
10	-15.2	-14.8	-14.2	-14.6	-14.8	-15.2	-15.3	-15.3	-13.8	-12.1	-9.8	-7.5	-5.3	-1.2	2.2	-0.6	-4.1	-6.3	-8.8	-10.3	-11.6	-12.6	-13.4	-13.9	-10.4	2.2	-15.3
11	-14.0	-14.8	-15.0	-15.8	-15.6	-15.6	-15.4	-15.8	-15.5	-13.4	-11.2	-8.4	-4.3	-1.7	-0.2	-0.6	-3.5	-4.5	-5.7	-6.6	-8.4	-10.0	-11.3	-11.5	-9.9	-0.2	-15.8
12	-11.5	-11.6	-12.3	-13.3	-13.0	-14.5	-15.0	-15.8	-15.8	-13.8	-10.9	-6.8	-0.9	4.6	3.7	3.3	3.8	2.9	2.5	0.2	-1.7	-4.5	-5.7	-7.1	-6.4	4.6	-15.8
13	-9.5	-11.0	-13.2	-13.8	-13.8	-14.7	-14.3	-13.5	-11.7	-8.9	-6.3	-4.0	-3.4	-2.6	-2.2	-2.3	-3.6	-3.5	-5.6	-7.9	-7.7	-8.5	-8.1	-9.1	-8.3	-2.2	-14.7
14	-5.9	-4.9	-4.1	-5.0	-8.3	-9.5	-11.0	-12.8	-14.1	-13.6	-10.9	-8.7	-4.2	-1.9	-1.5	-2.5	-5.0	-8.6	-10.3	-11.6	-12.7	-13.6	-13.3	-13.6	-8.7	-1.5	-14.1
15	-14.5	-14.1	-14.4	-14.7	-14.6	-14.3	-15.1	-13.6	-12.4	-11.4	-9.3	-8.2	-7.2	-6.3	-4.8	-3.3	-3.0	-3.1	0.7	0.2	-0.7	-1.2	-1.9	-1.8	-7.9	0.7	-15.1
16	-1.8	-2.2	-2.3	-2.6	-2.6	-2.8	-2.7	-2.8	-3.1	-3.0	-3.0	-2.8	-2.7	-3.4	-4.2	-5.4	-7.8	-10.7	-11.3	-13.9	-16.2	-17.5	-18.3	-19.0	-6.8	-1.8	-19.0
17	-20.9	-21.7	-22.7	-23.5	-23.3	-19.4	-12.4	-10.9	-9.3	-7.4	-6.5	-5.7	-5.0	-4.5	-4.6	-4.4	-4.7	-4.4	-4.1	-4.0	-4.0	-3.6	-4.1	-4.0	-9.8	-3.6	-23.5
18	-3.2	-0.8	0.1	0.4	0.3	0.7	0.2	1.3	1.7	1.9	2.4	2.7	2.5	2.6	2.5	2.4	2.4	1.6	0.0	-0.4	-1.4	-2.1	-1.9	-1.8	0.6	2.7	-3.2
19	-1.1	-0.9	-1.2	-1.4	-1.4	-2.2	-3.0	-3.5	-3.5	-2.8	-2.1	-1.4	-0.2	0.0	0.1	0.0	-0.1	0.0	0.1	0.3	0.1	0.5	0.4	0.6	-0.9	0.6	-3.5
20	1.0	1.4	1.8	1.4	1.2	0.4	-4.6	-6.6	-6.7	-10.2	-10.7	-11.7	-12.0	-12.8	-12.8	-13.4	-14.3	-14.9	-15.0	-15.2	-15.5	-16.0	-18.2	-21.2	-9.4	1.8	-21.2
21	-23.4	-25.4	-25.8	-26.6	-26.1	-25.6	-25.5	-25.5	-23.0	-20.1	-17.5	-14.7	-11.0	-8.0	-7.8	-7.9	-8.5	-9.2	-9.3	-9.0	-8.7	-8.5	-8.4	-7.2	-15.9	-7.2	-26.6
22	-7.4	-8.2	-8.7	-9.5	-10.4	-11.6	-12.0	-14.0	-14.4	-14.1	-13.5	-14.1	-14.4	-14.6	-14.8	-15.3	-15.7	-16.2	-16.3	-16.3	-16.5	-16.7	-16.8	-17.0	-13.7	-7.4	-17.0
23	-17.1	-17.4	-17.5	-18.1	-18.0	-18.3	-19.6	-23.6	-25.7	-26.1	-26.2	-23.4	-18.4	-16.6	-16.3	-17.2	-18.5	-20.9	-19.2	-22.7	-25.5	-27.6	-28.5	-28.4	-21.3	-16.3	-28.5
24	-29.9	-30.3	-31.0	-31.7	-31.9	-32.5	-32.0	-33.0	-32.6	-31.2	-28.4	-25.8	-22.9	-18.0	-16.3	-17.0	-19.6	-22.4	-23.6	-24.9	-25.9	-26.8	-27.9	-27.6	-26.8	-16.3	-33.0
25	-26.4	-26.7	-26.4	-24.9	-23.5	-22.4	-21.4	-20.6	-19.8	-19.3	-18.3	-17.1	-16.9	-16.9	-16.7	-16.7	-17.2	-17.8	-18.6	-18.6	-19.3	-19.6	-19.6	-19.7	-20.2	-16.7	-26.7
26	-19.7	-19.8	-19.6	-19.4	-19.2	-19.0	-19.7	-23.7	-24.7	-23.7	-21.8	-20.3	-18.2	-14.6	-12.2	-12.6	-16.1	-19.2	-20.1	-18.9	-18.2	-18.2	-18.2	-18.2	-19.0	-12.2	-24.7
27	-17.6	-16.8	-16.0	-14.4	-13.9	-13.2	-12.7	-12.6	-11.5	-9.0	-6.5	-5.3	-5.1	-5.2	-5.2	-4.9	-5.3	-5.8	-7.0	-7.5	-7.7	-7.2	-7.3	-7.2	-9.4	-4.9	-17.6
28	-6.6	-6.6	-6.6	-6.3	-7.4	-7.5	-7.1	-7.0	-7.1	-6.5	-5.7	-4.5	-3.5	-1.9	-1.1	-0.9	-1.0	-1.2	-1.3	-1.6	-2.1	-2.8	-3.2	-2.9	-4.3	-0.9	-7.5
29	-2.3	-6.2	-14.8	-17.5	-18.1	-19.6	-20.4	-20.7	-20.7	-20.3	-20.2	-20.2	-19.9	-19.3	-19.7	-19.8	-20.0	-20.3	-20.7	-21.0	-21.7	-21.6	-21.7	-21.8	-18.7	-2.3	-21.8
30	-21.8	-21.4	-21.0	-21.0	-21.1	-20.8	-20.4	-19.8	-20.0	-20.5	-18.7	-16.3	-14.5	-10.2	-12.0	-13.8	-14.7	-20.8	-23.9	-23.8	-23.7	-24.2	-24.0	-23.5	-19.7	-10.2	-24.2
31	-22.7	-22.0	-22.6	-23.5	-22.7	-23.1	-21.8	-20.7	-19.8	-19.2	-18.4	-18.0	-16.9	-15.4	-14.0	-13.6	-14.3	-16.6	-18.0	-19.7	-20.8	-22.6	-23.1	-22.3	-19.7	-13.6	-23.5
Avg	-12.6	-12.6	-12.8	-13.0	-13.2	-13.3	-13.5	-13.9	-13.5	-12.6	-11.0	-9.6	-7.9	-6.3	-5.8	-6.2	-7.4	-8.9	-9.8	-10.9	-11.7	-12.3	-12.7	-13.0	-11.0	-4.0	-17.6
Max	1.0	1.4	1.8	1.4	1.2	0.7	0.2	1.3	1.7	1.9	2.4	2.7	2.5	4.6	3.7	3.3	3.8	2.9	2.5	0.3	0.1	0.5	0.4	0.6	0.6	4.6	-3.2
Min	-29.9	-30.3	-31.0	-31.7	-31.9	-32.5	-32.0	-33.0	-32.6	-31.2	-28.4	-25.8	-22.9	-19.3	-19.7	-19.8	-20.0	-22.4	-23.9	-24.9	-25.9	-27.6	-28.5	-28.4	-26.8	-16.7	-33.0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
October 2017

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	0.63	0.84	0.73	1.35	0.84	1.01	0.70	-0.18	-0.30	-0.29	-0.55	-0.32	-0.49	-0.62	-0.36	-0.56	-0.23	-0.13	0.15	-0.04	0.29	0.34	-0.07	0.00	0.11	1.35	-0.62
2	0.08	0.10	0.05	0.00	0.00	-0.01	-0.02	-0.13	-0.37	-0.64	-0.64	-0.67	-0.71	-0.72	-0.43	-0.32	-0.26	-0.18	-0.15	-0.14	-0.12	-0.09	-0.09	-0.06	-0.23	0.10	-0.72
3	-0.05	-0.06	-0.06	-0.05	-0.09	-0.07	-0.07	-0.15	-0.20	-0.28	-0.45	-0.43	-0.45	-0.52	-0.47	-0.46	-0.36	-0.03	0.64	0.78	0.61	0.54	1.02	1.00	0.01	1.02	-0.52
4	1.01	0.77	1.07	1.12	1.13	1.03	0.83	0.34	-0.36	-0.58	-0.51	-0.64	-0.49	-0.77	-0.79	-0.30	-0.36	-0.13	-0.05	-0.05	-0.07	-0.11	0.00	0.01	0.09	1.13	-0.79
5	0.09	0.07	-0.12	-0.11	-0.07	0.09	0.55	0.05	-0.38	-0.44	-0.52	-0.73	-0.79	-0.77	-0.80	-0.51	-0.20	-0.01	0.49	0.86	0.37	0.16	0.69	1.11	-0.04	1.11	-0.80
6	1.02	1.29	1.74	1.51	1.47	0.78	0.78	0.33	-0.27	-0.72	-0.79	-0.92	-1.01	-0.76	-0.43	-0.14	0.09	1.00	0.74	1.26	3.93	2.84	0.84	0.51	0.63	3.93	-1.01
7	0.46	0.32	0.32	0.39	0.63	0.72	0.41	0.13	0.00	-0.15	-0.24	0.09	-0.09	-0.39	-0.12	-0.18	-0.07	0.14	0.28	0.55	0.89	0.30	1.04	0.97	0.27	1.04	-0.39
8	1.16	0.47	0.86	0.85	1.06	0.75	1.05	0.50	-0.39	-0.18	-0.66	-0.40	-0.37	-0.42	-0.62	-0.54	-0.31	-0.10	0.15	0.15	0.44	1.08	1.26	1.22	0.29	1.26	-0.66
9	1.18	0.30	-0.16	0.21	0.41	0.01	0.35	0.43	-0.14	-0.59	-0.87	-1.02	-1.03	-1.01	-0.89	-0.72	-0.34	0.33	1.21	1.01	0.82	1.09	1.79	1.45	0.16	1.79	-1.03
10	2.09	2.07	2.00	2.04	1.46	1.89	1.42	0.67	-0.07	-0.34	-0.51	-0.48	-0.38	-0.25	-0.35	-0.48	0.06	0.92	1.88	1.80	1.87	1.60	2.32	2.54	0.99	2.54	-0.51
11	2.18	2.11	2.28	2.26	2.03	1.04	0.89	0.74	-0.09	-0.08	-0.23	-0.69	-0.83	-0.78	-0.47	-0.37	-0.19	-0.10	0.02	0.00	0.08	0.10	0.28	0.40	0.44	2.28	-0.83
12	1.09	2.11	1.53	1.67	1.69	1.76	1.55	0.58	-0.41	-0.24	-0.56	-0.84	-0.85	-0.73	-0.59	-0.37	-0.14	0.63	1.01	1.22	0.32	0.30	0.14	0.13	0.46	2.11	-0.85
13	0.31	0.07	0.08	0.09	0.23	0.25	0.61	0.20	-0.13	-0.27	-0.39	-0.43	-0.67	-0.25	-0.16	-0.26	-0.19	0.45	1.04	0.95	1.65	0.83	1.40	1.19	0.27	1.65	-0.67
14	0.49	-0.06	-0.01	0.14	0.17	-0.07	0.38	0.71	-0.04	0.02	-0.11	-0.39	-0.52	-0.64	-0.58	-0.44	-0.15	0.33	0.36	0.16	0.13	0.18	0.28	0.47	0.03	0.71	-0.64
15	0.38	0.46	0.83	0.56	1.88	1.02	0.48	0.26	-0.27	-0.51	-0.46	-0.84	-0.80	-0.88	-0.75	-0.52	-0.16	2.18	1.10	0.62	1.58	1.34	2.02	1.86	0.47	2.18	-0.88
16	1.67	1.36	0.91	0.70	0.80	1.30	1.85	1.59	0.29	-0.38	-0.67	-0.76	-0.81	-0.77	-0.64	-0.36	0.03	1.54	1.39	0.67	0.78	0.75	0.88	1.10	0.55	1.85	-0.81
17	1.37	2.32	2.68	1.41	1.54	2.23	2.48	1.78	0.31	-0.34	-0.52	-0.76	-0.82	-0.33	-0.21	-0.26	0.12	0.40	0.61	0.98	0.60	0.46	0.27	0.21	0.69	2.68	-0.82
18	0.25	0.23	0.22	0.23	0.41	0.86	0.63	0.32	-0.40	-0.46	-0.42	-0.73	-0.74	-0.62	-0.54	-0.25	0.03	0.68	1.92	1.71	2.10	1.98	2.72	2.23	0.52	2.72	-0.74
19	1.41	1.97	1.26	1.17	1.13	1.50	1.29	0.99	0.13	-0.35	-0.72	-0.99	-1.09	-0.82	-0.71	-0.09	0.20	1.16	3.26	1.37	1.64	1.56	2.24	2.01	0.81	3.26	-1.09
20	2.80	3.02	1.79	1.31	1.71	1.49	1.30	0.89	0.57	0.27	0.34	-0.14	0.00	-0.43	-0.45	-0.12	-0.05	0.04	0.07	0.14	0.06	0.04	0.07	0.23	0.62	3.02	-0.45
21	0.28	0.34	0.41	0.37	0.52	0.40	0.32	0.21	-0.05	-0.20	-0.29	-0.39	-0.52	-0.73	-0.68	-0.40	0.13	0.59	0.83	0.52	0.12	0.09	0.11	0.10	0.09	0.83	-0.73
22	0.07	0.07	0.12	0.12	0.07	0.05	0.09	-0.02	-0.20	-0.18	-0.29	-0.63	-0.67	-0.61	-0.37	-0.14	-0.09	0.11	0.20	0.17	0.28	0.34	0.27	0.27	-0.04	0.34	-0.67
23	0.13	0.85	1.13	1.35	0.82	0.69	1.19	0.58	-0.11	-0.46	-0.72	-0.75	-0.82	-0.84	-0.72	-0.43	-0.02	1.21	0.94	0.85	2.12	1.85	1.28	1.57	0.49	2.12	-0.84
24	1.48	1.03	1.32	1.62	1.47	1.48	1.23	1.26	-0.07	-0.21	-0.53	-0.77	-0.83	-0.84	-0.71	-0.48	-0.15	0.96	1.14	0.36	0.97	2.04	1.87	1.72	0.64	2.04	-0.84
25	1.87	1.49	1.77	1.63	2.24	2.31	2.06	1.85	0.00	-0.16	-0.51	-0.73	-0.62	-0.10	-0.07	0.06	0.16	0.25	0.27	0.20	0.13	0.09	0.08	-0.01	0.59	2.31	-0.73
26	-0.05	-0.07	-0.06	-0.06	-0.07	-0.12	-0.11	-0.13	-0.26	-0.41	-0.44	-0.55	-0.60	-0.59	-0.66	-0.51	-0.03	0.32	0.08	0.32	0.36	0.17	0.33	0.98	-0.09	0.98	-0.66
27	1.70	1.25	1.27	0.83	0.92	0.83	0.96	0.50	-0.27	-0.27	-0.36	-0.61	-0.84	-0.62	-0.38	-0.21	-0.01	0.40	0.72	0.35	0.91	0.61	0.88	0.90	0.39	1.70	-0.84
28	0.71	0.78	1.26	1.39	1.21	1.46	1.73	1.12	-0.04	-0.41	-0.56	-0.62	-0.76	-0.77	-0.60	-0.30	0.27	1.26	0.82	1.22	1.16	1.49	2.03	1.30	0.63	2.03	-0.77
29	0.93	1.68	1.21	1.80	0.31	0.08	0.06	0.00	-0.09	-0.20	-0.25	-0.30	-0.33	-0.25	-0.17	-0.14	-0.07	0.01	-0.02	0.09	0.08	0.03	-0.01	0.00	0.19	1.80	-0.33
30	-0.05	-0.03	-0.04	-0.05	-0.07	-0.05	-0.07	-0.08	-0.33	-0.45	-0.56	-0.56	-0.73	-0.71	-0.60	-0.47	0.08	1.10	1.55	1.24	1.70	1.68	1.00	1.27	0.20	1.70	-0.73
31	0.78	0.91	0.71	0.94	0.46	0.21	0.57	0.74	-0.21	-0.21	-0.45	-0.55	-0.38	-0.37	-0.18	-0.05	0.05	0.03	0.00	-0.03	-0.03	-0.04	-0.05	-0.06	0.12	0.94	-0.55
Avg	0.89	0.91	0.87	0.86	0.85	0.80	0.82	0.52	-0.13	-0.31	-0.47	-0.60	-0.65	-0.61	-0.50	-0.33	-0.07	0.50	0.73	0.62	0.83	0.76	0.87	0.86	0.33	1.76	-0.73
Max	2.80	3.02	2.68	2.26	2.24	2.31	2.48	1.85	0.57	0.27	0.34	0.09	0.00	-0.10	-0.07	0.06	0.27	2.18	3.26	1.80	3.93	2.84	2.72	2.54	0.99	3.93	-0.33
Min	-0.05	-0.07	-0.16	-0.11	-0.09	-0.12	-0.11	-0.18	-0.41	-0.72	-0.87	-1.02	-1.09	-1.01	-0.89	-0.72	-0.36	-0.18	-0.15	-0.14	-0.12	-0.11	-0.09	-0.06	-0.23	0.10	-1.09

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
November 2017

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	-0.05	-0.03	-0.05	-0.05	-0.05	-0.02	-0.05	-0.03	-0.03	-0.01	-0.05	-0.10	-0.10	-0.08	-0.09	0.10	0.45	0.12	0.04	0.83	0.68	1.25	0.98	1.23	0.20	1.25	-0.10
2	1.70	2.01	0.87	0.27	0.18	-0.01	0.04	0.30	0.14	0.02	0.18	0.03	-0.08	-0.10	-0.08	-0.06	-0.05	-0.03	0.00	-0.01	0.00	-0.03	-0.04	0.00	0.22	2.01	-0.10
3	0.04	0.18	0.02	-0.06	-0.08	-0.12	-0.13	-0.09	-0.16	-0.12	-0.04	-0.01	-0.07	-0.10	-0.11	-0.12	-0.15	-0.13	-0.14	-0.11	-0.12	-0.09	-0.12	-0.13	-0.08	0.18	-0.16
4	-0.10	-0.08	0.12	0.25	0.83	2.13	2.72	2.10	1.96	2.11	1.56	2.22	0.13	0.39	0.72	0.54	0.82	0.90	0.44	0.45	0.38	0.37	0.29	0.50	0.91	2.72	-0.10
5	0.47	0.49	0.35	0.72	0.42	0.37	0.65	2.23	1.78	1.17	0.84	1.12	0.44	-0.08	-0.26	0.05	-0.06	-0.04	-0.10	-0.11	-0.09	-0.13	-0.16	-0.15	0.41	2.23	-0.26
6	-0.12	-0.17	-0.15	-0.15	-0.15	-0.14	-0.11	-0.06	-0.08	-0.19	-0.28	-0.30	-0.29	0.16	0.65	1.46	1.63	3.25	1.55	2.52	2.95	2.85	2.23	2.53	0.82	3.25	-0.30
7	2.84	2.50	3.08	2.14	2.71	3.18	3.25	2.65	2.54	2.14	1.45	1.66	1.26	1.10	1.21	2.18	2.03	2.43	2.07	1.45	1.63	1.38	1.61	1.08	2.07	3.25	1.08
8	1.12	0.63	0.58	0.37	0.51	0.39	0.19	0.18	0.10	0.13	-0.04	0.25	0.26	-0.10	0.04	0.26	1.14	1.17	0.31	0.24	0.20	0.12	0.07	0.11	0.34	1.17	-0.10
9	0.11	0.03	0.00	0.00	0.05	0.02	0.01	0.09	0.07	0.04	-0.08	0.07	-0.23	-0.14	-0.03	0.15	0.62	0.89	1.00	1.36	1.04	1.09	0.11	0.16	0.27	1.36	-0.23
10	0.70	1.00	0.40	0.72	0.63	0.55	0.46	0.95	0.93	0.97	0.64	0.09	0.07	0.19	0.62	0.73	0.50	0.78	0.56	0.56	0.36	0.50	0.39	0.16	0.56	1.00	0.07
11	0.48	0.09	0.34	0.74	0.78	0.95	0.96	1.18	0.57	0.16	0.33	0.66	0.24	0.09	0.27	0.42	1.26	1.19	1.33	1.93	2.58	2.62	2.23	2.47	0.99	2.62	0.09
12	2.40	1.96	2.58	2.48	1.75	2.11	2.35	2.15	1.55	1.35	0.68	1.02	0.87	0.59	2.16	1.05	1.11	1.15	1.33	1.60	1.13	0.81	0.96	1.27	1.52	2.58	0.59
13	1.22	1.87	2.42	2.41	2.12	2.18	1.98	2.16	2.39	2.09	1.35	2.82	1.35	1.10	0.62	1.16	1.31	1.38	1.19	1.96	1.44	1.69	0.47	0.16	1.62	2.82	0.16
14	0.06	0.38	0.30	0.17	0.26	0.51	0.68	0.36	0.23	0.17	0.13	0.14	0.14	0.10	0.08	0.21	0.64	1.55	1.49	1.73	1.65	0.88	1.33	1.49	0.61	1.73	0.06
15	1.68	2.22	2.39	1.86	1.74	2.37	2.75	2.40	2.45	1.89	1.41	2.14	0.45	0.72	0.90	1.02	1.04	1.74	2.42	1.95	1.87	2.69	1.25	0.87	1.76	2.75	0.45
16	0.83	0.45	0.59	0.42	0.43	0.51	0.51	0.64	0.49	0.41	0.43	0.00	-0.03	0.02	0.20	0.28	0.57	0.98	0.86	0.81	1.20	1.44	1.61	1.53	0.63	1.61	-0.03
17	0.83	0.68	0.57	0.88	1.00	1.12	1.00	1.07	0.50	0.58	0.01	0.11	0.16	0.16	0.30	0.28	0.36	0.28	0.26	0.28	0.57	0.60	0.46	0.42	0.52	1.12	0.01
18	0.42	0.40	0.43	0.20	0.22	0.11	0.07	0.08	0.13	0.25	0.18	0.17	0.20	0.20	0.16	0.38	0.46	0.76	1.00	0.90	1.26	1.08	1.05	1.49	0.48	1.49	0.07
19	1.00	0.78	0.79	0.70	1.15	1.22	1.07	1.04	0.90	0.66	0.84	1.16	0.39	0.16	0.88	1.19	1.66	1.30	1.88	1.71	1.72	1.77	1.24	0.82	1.08	1.88	0.16
20	1.84	2.53	2.93	1.68	1.42	0.77	1.21	1.09	0.56	0.43	0.40	0.37	0.29	0.23	0.10	-0.02	-0.04	-0.02	-0.05	-0.03	0.06	0.49	0.84	0.33	0.73	2.93	-0.05
21	0.07	-0.11	0.05	0.41	0.13	0.03	0.11	0.90	1.50	1.21	0.68	0.52	0.38	0.75	0.75	0.26	0.17	0.03	-0.02	-0.03	0.06	0.07	0.18	0.12	0.34	1.50	-0.11
22	0.25	0.39	1.05	0.91	1.06	0.37	0.45	0.71	0.97	0.51	0.61	1.16	1.63	1.59	1.12	0.61	0.45	0.31	0.42	0.37	0.38	0.55	0.69	0.89	0.73	1.63	0.25
23	0.99	0.26	0.37	1.17	1.01	1.00	1.70	1.57	1.07	1.24	1.45	1.56	1.42	1.18	1.29	1.40	1.35	1.11	1.17	1.31	1.17	0.63	0.42	0.42	1.09	1.70	0.26
24	0.39	0.24	0.33	0.35	0.43	0.89	0.88	1.48	0.54	0.30	0.07	0.00	0.07	0.17	0.30	0.43	0.52	0.75	0.77	1.29	0.84	1.44	1.11	1.10	0.61	1.48	0.00
25	1.04	1.48	1.17	0.93	1.36	0.56	0.39	0.63	0.52	0.41	0.15	0.12	-0.13	0.07	0.22	0.63	1.01	0.62	0.34	0.38	0.23	0.30	0.41	0.69	0.56	1.48	-0.13
26	0.60	0.60	1.11	0.24	0.29	0.42	0.71	1.42	2.34	1.52	1.39	1.01	1.13	1.83	1.28	1.59	1.90	1.60	1.64	1.68	1.57	1.88	1.47	1.17	1.27	2.34	0.24
27	1.12	0.81	0.61	0.64	0.34	0.21	0.26	0.20	0.19	0.15	0.06	0.02	-0.06	-0.03	-0.03	0.14	0.31	0.48	0.39	0.46	0.34	0.33	0.30	0.32	0.32	1.12	-0.06
28	0.33	0.47	0.41	0.32	0.50	0.52	0.48	0.69	0.20	-0.28	-0.37	-0.49	-0.41	-0.42	-0.26	0.20	0.26	0.74	1.34	0.67	0.69	0.24	0.36	0.31	0.27	1.34	-0.49
29	0.24	0.14	0.09	0.08	0.00	0.04	0.00	0.05	0.04	0.03	-0.02	-0.24	-0.38	-0.28	-0.19	0.02	0.25	0.27	0.36	0.28	0.36	0.35	0.51	1.07	0.13	1.07	-0.38
30	1.21	0.90	0.46	0.52	0.44	0.34	0.58	0.48	0.08	-0.23	-0.21	-0.47	-0.39	-0.32	0.03	0.34	0.44	0.61	0.48	0.62	0.75	0.83	0.51	0.78	0.37	1.21	-0.47
Avg	0.79	0.77	0.81	0.71	0.72	0.75	0.84	0.95	0.82	0.64	0.46	0.56	0.29	0.31	0.43	0.56	0.73	0.87	0.81	0.90	0.90	0.93	0.76	0.77	0.71	1.83	0.01
Max	2.84	2.53	3.08	2.48	2.71	3.18	3.25	2.65	2.54	2.14	1.56	2.82	1.63	1.83	2.16	2.18	2.03	3.25	2.42	2.52	2.95	2.85	2.23	2.53	2.07	3.25	1.08
Min	-0.12	-0.17	-0.15	-0.15	-0.15	-0.14	-0.13	-0.09	-0.16	-0.28	-0.37	-0.49	-0.41	-0.42	-0.26	-0.12	-0.15	-0.13	-0.14	-0.11	-0.12	-0.13	-0.16	-0.15	-0.08	0.18	-0.49

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
December 2017

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	0.17	0.01	0.32	0.39	0.24	0.34	0.61	0.56	0.15	0.00	-0.08	-0.21	-0.24	-0.20	-0.06	0.09	0.56	1.86	0.65	0.56	0.65	0.39	0.92	0.95	0.36	1.86	-0.24
2	1.23	1.03	1.09	0.84	1.15	1.07	0.59	0.64	0.37	-0.04	-0.21	-0.31	-0.16	-0.19	-0.03	0.22	0.32	1.04	0.96	1.00	0.73	0.50	0.50	0.14	0.52	1.23	-0.31
3	-0.03	0.02	0.02	-0.08	-0.07	-0.05	-0.01	0.38	0.18	-0.07	-0.08	-0.01	0.02	-0.07	0.05	0.16	0.11	0.24	0.18	0.40	0.26	0.17	0.08	0.37	0.09	0.40	-0.08
4	1.08	1.66	1.00	0.79	0.08	0.08	0.04	-0.03	-0.04	-0.09	-0.10	-0.10	-0.08	-0.06	-0.06	0.00	0.05	0.08	0.60	1.51	1.56	0.96	1.37	1.77	0.50	1.77	-0.10
5	1.17	0.14	-0.01	-0.03	-0.03	0.00	0.00	-0.05	-0.01	0.07	0.05	0.09	0.19	0.22	0.32	0.91	0.74	1.71	1.46	1.47	1.33	0.97	1.33	1.64	0.57	1.71	-0.05
6	1.39	1.72	0.86	0.93	1.10	0.87	1.66	2.47	1.60	1.55	1.34	0.41	Au	Au	Au	1.25	1.10	0.81	0.65	1.18	0.83	0.46	0.34	0.59	1.10	2.47	0.34
7	1.08	0.92	0.52	1.16	1.25	1.52	0.93	1.19	1.34	1.21	0.45	1.02	1.97	0.13	0.87	1.16	1.14	1.46	1.49	1.20	1.67	1.60	1.80	1.43	1.19	1.97	0.13
8	1.40	1.10	1.12	1.31	1.87	1.55	2.39	2.36	2.42	1.61	1.00	0.73	0.82	2.60	0.69	0.63	0.72	1.02	1.44	1.42	1.63	1.43	1.50	2.00	1.45	2.60	0.63
9	2.01	2.32	2.30	1.76	2.07	1.88	2.15	2.26	1.66	2.15	1.14	0.93	0.88	4.61	2.18	0.85	0.97	1.24	1.89	2.13	2.08	1.43	2.18	2.43	1.90	4.61	0.85
10	1.88	1.63	1.60	1.62	1.69	1.76	1.84	2.14	1.39	1.18	1.52	1.12	0.90	1.35	0.88	1.65	1.90	1.02	1.35	1.32	1.67	2.15	1.89	1.70	1.55	2.15	0.88
11	1.36	1.93	1.98	2.66	2.09	2.08	2.44	1.62	1.93	1.07	1.00	0.98	0.97	1.14	0.69	0.67	1.02	0.88	1.27	1.26	1.24	2.22	1.76	1.66	1.50	2.66	0.67
12	1.85	1.73	2.07	2.09	2.28	2.38	2.55	2.68	2.57	1.96	1.60	1.03	1.58	1.41	1.36	1.32	1.21	1.02	1.03	1.18	1.13	1.41	1.64	1.54	1.69	2.68	1.02
13	1.69	1.22	1.51	1.32	1.91	1.59	1.54	1.32	0.78	0.16	0.45	0.09	-0.12	-0.12	-0.07	0.20	0.71	0.76	1.16	1.44	1.15	1.94	2.15	1.63	1.02	2.15	-0.12
14	1.47	1.42	0.88	1.52	1.89	1.46	1.20	1.68	1.43	0.63	0.19	0.02	0.10	-0.43	0.01	0.29	0.70	1.11	1.47	1.34	1.37	1.45	1.20	1.56	1.00	1.89	-0.43
15	1.66	1.56	1.57	1.49	1.36	1.40	1.66	1.03	0.77	0.63	0.62	0.57	0.95	1.41	1.29	1.07	0.99	1.23	0.49	0.27	0.07	0.08	0.31	0.30	0.95	1.66	0.07
16	0.00	0.13	0.07	0.15	0.01	0.05	0.00	0.01	0.05	-0.03	-0.07	-0.08	0.02	0.37	0.25	0.71	0.93	1.86	1.18	2.01	2.12	2.25	2.94	2.58	0.73	2.94	-0.08
17	2.35	2.34	2.33	2.65	2.48	1.86	0.93	0.73	0.94	0.40	0.14	0.02	0.05	0.04	0.02	0.08	0.41	0.37	0.47	0.38	0.21	0.19	0.64	0.20	0.84	2.65	0.02
18	0.03	0.14	0.09	0.09	0.13	0.16	0.30	0.18	0.14	0.12	0.15	0.26	0.22	0.20	0.19	0.17	0.30	0.16	0.07	0.08	0.05	0.08	0.05	0.16	0.15	0.30	0.03
19	0.05	0.06	0.12	0.06	0.08	0.04	0.01	-0.02	-0.05	-0.10	-0.11	-0.13	-0.08	-0.08	-0.06	-0.06	0.00	0.01	0.01	0.16	0.06	0.14	0.14	0.11	0.01	0.16	-0.13
20	0.17	0.28	0.32	0.27	0.19	0.14	-0.02	-0.02	0.02	0.07	-0.07	-0.12	-0.12	-0.12	-0.11	-0.11	-0.10	-0.12	-0.13	-0.07	0.04	0.22	0.90	1.81	0.14	1.81	-0.13
21	1.55	1.50	1.90	1.32	1.68	1.27	1.46	1.51	0.50	0.33	0.22	0.12	0.31	-0.04	-0.07	-0.02	0.23	0.56	0.18	-0.07	-0.10	-0.02	-0.02	-0.05	0.59	1.90	-0.10
22	-0.03	0.30	0.22	0.09	0.22	0.58	0.29	1.02	0.93	0.33	0.01	-0.08	-0.10	-0.18	-0.16	-0.08	-0.08	0.03	-0.02	-0.03	0.00	-0.02	-0.01	-0.02	0.13	1.02	-0.18
23	-0.08	0.00	0.06	0.25	0.09	0.26	0.53	2.01	0.79	0.96	0.72	1.27	0.11	0.37	0.51	1.25	0.85	2.07	1.25	1.83	1.90	1.63	1.62	1.51	0.91	2.07	-0.08
24	1.55	1.78	1.56	1.51	1.12	1.83	1.85	1.78	1.88	1.82	1.48	1.85	1.74	2.08	2.06	1.82	1.94	1.29	1.86	1.76	1.70	1.61	2.16	1.54	1.73	2.16	1.12
25	0.65	0.88	0.70	0.07	0.13	-0.06	-0.08	-0.09	-0.09	-0.10	-0.08	-0.17	-0.22	-0.11	-0.02	0.10	0.04	-0.05	-0.05	-0.07	-0.09	-0.08	-0.07	-0.10	0.04	0.88	-0.22
26	-0.09	-0.12	-0.11	-0.10	-0.09	-0.05	0.35	1.65	1.00	0.42	0.28	0.68	1.35	0.64	-0.16	0.36	0.63	1.01	1.01	0.58	1.23	0.95	1.02	1.13	0.57	1.65	-0.16
27	0.88	0.67	0.41	0.13	-0.03	0.22	0.27	0.53	0.37	0.51	0.13	0.07	0.08	0.02	0.03	0.12	0.11	0.10	0.47	0.39	0.35	0.33	0.38	0.24	0.28	0.88	-0.03
28	0.24	0.33	0.16	0.19	0.39	0.23	0.45	0.38	0.50	0.41	0.17	-0.12	0.08	0.04	0.09	0.11	0.17	0.20	0.18	0.35	0.54	0.30	0.29	0.29	0.25	0.54	-0.12
29	0.02	-0.07	-0.23	-0.24	-0.28	-0.28	-0.26	-0.20	-0.21	-0.17	-0.18	-0.16	-0.18	-0.21	-0.19	-0.17	-0.15	-0.17	-0.18	-0.18	-0.16	-0.22	-0.22	-0.26	-0.19	0.02	-0.28
30	-0.22	-0.22	-0.24	-0.22	-0.24	-0.23	-0.20	-0.18	0.03	0.28	0.07	-0.09	0.51	0.70	0.05	-0.10	-0.11	0.03	0.15	-0.11	-0.20	-0.17	-0.19	-0.16	-0.04	0.70	-0.24
31	-0.16	-0.15	0.38	0.29	-0.06	0.45	-0.13	-0.13	-0.13	-0.09	-0.02	0.15	0.61	0.96	1.43	1.79	2.05	1.43	1.65	1.93	1.77	2.33	2.29	1.94	0.86	2.33	-0.16
Avg	0.85	0.85	0.79	0.78	0.80	0.79	0.82	0.95	0.75	0.55	0.38	0.32	0.41	0.55	0.40	0.53	0.63	0.78	0.78	0.86	0.86	0.86	1.00	0.99	0.72	1.74	0.08
Max	2.35	2.34	2.33	2.66	2.48	2.38	2.55	2.68	2.57	2.15	1.60	1.85	1.97	4.61	2.18	1.82	2.05	2.07	1.89	2.13	2.12	2.33	2.94	2.58	1.90	4.61	1.12
Min	-0.22	-0.22	-0.24	-0.24	-0.28	-0.28	-0.26	-0.20	-0.21	-0.17	-0.21	-0.31	-0.24	-0.43	-0.19	-0.17	-0.15	-0.17	-0.18	-0.18	-0.20	-0.22	-0.22	-0.26	-0.19	0.02	-0.43

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
October 2017

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	19	84	181	121	284	149	328	430	147	259	57	13	0	0	0	0	0	0	86	430	0
2	0	0	0	0	0	0	7	115	252	318	348	322	349	306	129	72	41	9	0	0	0	0	0	0	95	349	0
3	0	0	0	0	0	0	12	65	105	119	275	233	296	352	453	218	187	32	1	0	0	0	0	0	98	453	0
4	0	0	0	0	0	0	13	171	326	477	590	510	324	411	423	82	113	27	0	0	0	0	0	0	144	590	0
5	0	0	0	0	0	0	8	95	324	310	434	340	449	342	362	161	98	18	0	0	0	0	0	0	123	449	0
6	0	0	0	0	0	0	6	74	294	469	563	640	655	437	267	125	130	20	0	0	0	0	0	0	153	655	0
7	0	0	0	0	0	0	3	33	72	167	170	71	170	260	138	224	128	31	0	0	0	0	0	0	61	260	0
8	0	0	0	0	0	0	5	136	309	198	459	188	199	223	358	235	127	27	0	0	0	0	0	0	103	459	0
9	0	0	0	0	0	0	5	64	252	475	579	634	617	593	487	350	189	19	0	0	0	0	0	0	178	634	0
10	0	0	0	0	0	0	9	88	254	354	343	307	278	205	310	297	126	26	0	0	0	0	0	0	108	354	0
11	0	0	0	0	0	0	6	104	234	202	247	493	558	439	235	218	55	2	0	0	0	0	0	0	116	558	0
12	0	0	0	0	0	0	4	58	208	244	482	526	444	343	251	156	63	19	0	0	0	0	0	0	117	526	0
13	0	0	0	0	0	0	6	53	83	144	135	161	240	55	125	221	86	25	0	0	0	0	0	0	56	240	0
14	0	0	0	0	0	0	4	36	162	144	334	583	618	572	465	321	154	6	0	0	0	0	0	0	142	618	0
15	0	0	0	0	0	0	3	83	271	432	347	604	593	544	448	314	156	16	0	0	0	0	0	0	159	604	0
16	0	0	0	0	0	0	5	85	269	419	524	587	596	550	450	313	150	15	0	0	0	0	0	0	165	596	0
17	0	0	0	0	0	0	2	77	266	421	467	596	584	273	275	284	113	10	0	0	0	0	0	0	140	596	0
18	0	0	0	0	0	0	2	82	281	306	263	488	413	366	323	168	72	11	0	0	0	0	0	0	116	488	0
19	0	0	0	0	0	0	2	53	179	384	546	636	686	490	449	169	87	9	0	0	0	0	0	0	154	686	0
20	0	0	0	0	0	0	1	24	94	76	68	130	72	247	135	30	15	2	0	0	0	0	0	0	37	247	0
21	0	0	0	0	0	0	1	39	195	260	264	252	297	482	429	247	45	3	0	0	0	0	0	0	105	482	0
22	0	0	0	0	0	0	2	64	127	136	248	467	461	427	267	86	117	4	0	0	0	0	0	0	100	467	0
23	0	0	0	0	0	0	1	60	232	371	495	485	520	513	415	255	115	5	0	0	0	0	0	0	144	520	0
24	0	0	0	0	0	0	1	63	246	323	465	510	495	474	362	271	162	11	0	0	0	0	0	0	141	510	0
25	0	0	0	0	0	0	1	68	258	381	491	569	474	154	131	47	12	0	0	0	0	0	0	0	108	569	0
26	0	0	0	0	0	0	0	16	69	127	216	473	538	496	395	259	86	3	0	0	0	0	0	0	112	538	0
27	0	0	0	0	0	0	2	49	201	237	203	375	485	267	148	77	27	1	0	0	0	0	0	0	86	485	0
28	0	0	0	0	0	0	1	48	224	351	458	516	522	472	375	244	81	3	0	0	0	0	0	0	137	522	0
29	0	0	0	0	0	0	0	5	31	70	82	102	123	82	83	50	19	1	0	0	0	0	0	0	27	123	0
30	0	0	0	0	0	0	0	17	117	325	462	522	526	471	388	255	65	1	0	0	0	0	0	0	131	526	0
31	0	0	0	0	0	0	0	29	222	220	322	375	194	200	63	20	4	0	0	0	0	0	0	0	69	375	0
Avg	0	0	0	0	0	0	4	66	204	277	360	414	423	370	300	194	93	12	0	0	0	0	0	0	113	481	0
Max	0	0	0	0	0	0	19	171	326	477	590	640	686	593	487	350	189	32	1	0	0	0	0	0	178	686	0
Min	0	0	0	0	0	0	0	5	31	70	68	71	72	55	63	20	4	0	0	0	0	0	0	0	27	123	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
November 2017

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	9	45	108	144	249	266	262	267	132	31	1	0	0	0	0	0	0	63	267	0
2	0	0	0	0	0	0	0	9	42	90	126	259	265	208	138	77	21	0	0	0	0	0	0	0	51	265	0
3	0	0	0	0	0	0	0	4	28	51	100	111	105	155	89	67	17	0	0	0	0	0	0	0	30	155	0
4	0	0	0	0	0	0	0	25	155	279	388	471	512	459	312	225	52	0	0	0	0	0	0	0	120	512	0
5	0	0	0	0	0	0	0	42	175	306	456	322	294	238	169	92	34	0	0	0	0	0	0	0	89	456	0
6	0	0	0	0	0	0	0	11	53	149	238	364	482	442	342	207	56	1	0	0	0	0	0	0	98	482	0
7	0	0	0	0	0	0	0	18	167	325	422	485	500	450	350	212	42	0	0	0	0	0	0	0	124	500	0
8	0	0	0	0	0	0	0	7	59	106	145	182	194	128	174	94	22	0	0	0	0	0	0	0	46	194	0
9	0	0	0	0	0	0	0	3	32	107	165	183	169	245	204	154	47	0	0	0	0	0	0	0	55	245	0
10	0	0	0	0	0	0	0	18	151	166	383	632	602	572	183	86	21	0	0	0	0	0	0	0	117	632	0
11	0	0	0	0	0	0	0	6	51	97	173	267	310	383	303	184	34	0	0	0	0	0	0	0	75	383	0
12	0	0	0	0	0	0	0	10	69	145	210	198	213	226	210	142	25	0	0	0	0	0	0	0	60	226	0
13	0	0	0	0	0	0	0	10	155	312	395	450	458	408	312	114	21	0	0	0	0	0	0	0	110	458	0
14	0	0	0	0	0	0	0	7	51	116	142	199	255	207	335	186	35	0	0	0	0	0	0	0	64	335	0
15	0	0	0	0	0	0	0	15	86	147	224	303	307	209	155	91	22	0	0	0	0	0	0	0	65	307	0
16	0	0	0	0	0	0	0	6	33	113	75	95	118	141	174	54	14	0	0	0	0	0	0	0	34	174	0
17	0	0	0	0	0	0	0	4	51	96	305	221	218	206	118	52	25	0	0	0	0	0	0	0	54	305	0
18	0	0	0	0	0	0	0	3	63	231	366	341	408	289	179	85	18	0	0	0	0	0	0	0	83	408	0
19	0	0	0	0	0	0	0	3	33	73	116	271	435	217	126	174	29	0	0	0	0	0	0	0	62	435	0
20	0	0	0	0	0	0	0	2	37	50	46	74	79	69	55	21	2	0	0	0	0	0	0	0	18	79	0
21	0	0	0	0	0	0	0	3	46	118	180	227	415	361	146	31	3	0	0	0	0	0	0	0	64	415	0
22	0	0	0	0	0	0	0	1	18	37	64	65	70	73	59	77	19	0	0	0	0	0	0	0	20	77	0
23	0	0	0	0	0	0	0	4	71	241	325	124	226	389	154	194	20	0	0	0	0	0	0	0	73	389	0
24	0	0	0	0	0	0	0	4	100	238	375	293	384	388	267	121	24	0	0	0	0	0	0	0	91	388	0
25	0	0	0	0	0	0	0	5	58	161	235	223	329	265	145	71	10	0	0	0	0	0	0	0	63	329	0
26	0	0	0	0	0	0	0	3	46	127	227	152	136	92	148	19	4	0	0	0	0	0	0	0	40	227	0
27	0	0	0	0	0	0	0	1	18	50	133	192	317	376	280	102	20	0	0	0	0	0	0	0	62	376	0
28	0	0	0	0	0	0	0	2	85	223	323	384	394	343	261	113	17	0	0	0	0	0	0	0	89	394	0
29	0	0	0	0	0	0	0	0	23	66	196	390	484	375	261	137	14	0	0	0	0	0	0	0	81	484	0
30	0	0	0	0	0	0	0	2	76	235	293	362	264	219	72	17	2	0	0	0	0	0	0	0	64	362	0
Avg	0	0	0	0	0	0	0	8	69	152	232	270	307	280	200	111	23	0	0	0	0	0	0	0	69	342	0
Max	0	0	0	0	0	0	0	42	175	325	456	632	602	572	350	225	56	1	0	0	0	0	0	0	124	632	0
Min	0	0	0	0	0	0	0	0	18	37	46	65	70	69	55	17	2	0	0	0	0	0	0	0	18	77	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
December 2017

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0	0	0	0	0	0	0	2	19	64	91	125	157	121	116	107	11	0	0	0	0	0	0	0	34	157	0
2	0	0	0	0	0	0	0	2	54	115	208	272	216	174	103	55	5	0	0	0	0	0	0	0	50	272	0
3	0	0	0	0	0	0	0	0	3	11	14	18	15	19	17	12	1	0	0	0	0	0	0	0	5	19	0
4	0	0	0	0	0	0	0	0	6	21	36	46	55	46	32	22	26	0	0	0	0	0	0	0	12	55	0
5	0	0	0	0	0	0	0	0	21	78	140	189	416	409	276	171	16	0	0	0	0	0	0	0	72	416	0
6	0	0	0	0	0	0	0	1	35	161	300	355	Au	Au	Au	131	9	0	0	0	0	0	0	0	47	355	0
7	0	0	0	0	0	0	0	0	37	190	295	286	276	291	238	124	13	0	0	0	0	0	0	0	73	295	0
8	0	0	0	0	0	0	0	0	38	166	288	344	385	346	260	135	12	0	0	0	0	0	0	0	82	385	0
9	0	0	0	0	0	0	0	2	40	157	250	339	343	234	165	75	14	0	0	0	0	0	0	0	67	343	0
10	0	0	0	0	0	0	0	1	48	118	183	188	206	192	211	50	5	0	0	0	0	0	0	0	50	211	0
11	0	0	0	0	0	0	0	0	22	92	191	320	384	326	243	98	9	0	0	0	0	0	0	0	70	384	0
12	0	0	0	0	0	0	0	1	46	202	315	319	427	223	127	31	1	0	0	0	0	0	0	0	71	427	0
13	0	0	0	0	0	0	0	0	11	41	73	68	85	101	115	54	12	0	0	0	0	0	0	0	23	115	0
14	0	0	0	0	0	0	0	2	34	182	272	316	383	332	248	121	13	0	0	0	0	0	0	0	79	383	0
15	0	0	0	0	0	0	0	0	6	29	63	79	87	99	70	36	9	0	0	0	0	0	0	0	20	99	0
16	0	0	0	0	0	0	0	0	9	30	46	70	83	105	148	117	16	0	0	0	0	0	0	0	26	148	0
17	0	0	0	0	0	0	0	1	14	89	116	158	249	370	140	46	7	0	0	0	0	0	0	0	50	370	0
18	0	0	0	0	0	0	0	0	11	41	81	77	75	65	53	21	3	0	0	0	0	0	0	0	18	81	0
19	0	0	0	0	0	0	0	0	8	40	63	104	117	76	65	39	6	0	0	0	0	0	0	0	22	117	0
20	0	0	0	0	0	0	0	0	10	50	101	129	131	111	95	47	7	0	0	0	0	0	0	0	28	131	0
21	0	0	0	0	0	0	0	0	15	60	127	158	176	159	114	50	8	0	0	0	0	0	0	0	36	176	0
22	0	0	0	0	0	0	0	0	15	68	97	131	130	112	71	44	6	0	0	0	0	0	0	0	28	131	0
23	0	0	0	0	0	0	0	0	21	79	121	153	172	163	260	280	43	0	0	0	0	0	0	0	54	280	0
24	0	0	0	0	0	0	0	0	22	64	103	189	315	398	390	255	30	0	0	0	0	0	0	0	74	398	0
25	0	0	0	0	0	0	0	0	7	22	59	72	68	50	43	24	3	0	0	0	0	0	0	0	15	72	0
26	0	0	0	0	0	0	0	0	5	26	52	95	122	125	110	76	14	0	0	0	0	0	0	0	26	125	0
27	0	0	0	0	0	0	0	0	3	24	30	55	48	33	27	54	7	0	0	0	0	0	0	0	12	55	0
28	0	0	0	0	0	0	0	0	12	60	111	143	184	154	74	42	8	0	0	0	0	0	0	0	33	184	0
29	0	0	0	0	0	0	0	0	9	50	96	125	170	118	107	51	8	0	0	0	0	0	0	0	31	170	0
30	0	0	0	0	0	0	0	0	9	119	178	156	234	371	349	200	32	0	0	0	0	0	0	0	69	371	0
31	0	0	0	0	0	0	0	0	16	97	202	330	391	351	277	133	28	0	0	0	0	0	0	0	76	391	0
Avg	0	0	0	0	0	0	0	0	20	82	139	174	203	189	151	87	12	0	0	0	0	0	0	0	44	230	0
Max	0	0	0	0	0	0	0	2	54	202	315	355	427	409	390	280	43	0	0	0	0	0	0	0	82	427	0
Min	0	0	0	0	0	0	0	0	3	11	14	18	15	19	17	12	1	0	0	0	0	0	0	0	5	19	0

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
October 2017

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	24.18	24.18	24.17	24.17	24.16	24.15	24.15	24.17	24.18	24.18	24.18	24.17	24.17	24.16	24.16	24.17	24.18	24.19	24.20	24.21	24.21	24.22	24.22	24.23	24.18	24.23	24.15
2	24.23	24.23	24.23	24.23	24.23	24.23	24.23	24.23	24.24	24.26	24.26	24.26	24.27	24.28	24.29	24.30	24.31	24.32	24.33	24.33	24.34	24.35	24.36	24.36	24.28	24.36	24.23
3	24.37	24.39	24.40	24.42	24.44	24.46	24.48	24.50	24.53	24.55	24.55	24.56	24.57	24.58	24.58	24.58	24.58	24.57	24.56	24.58	24.58	24.58	24.58	24.57	24.52	24.58	24.37
4	24.57	24.55	24.53	24.52	24.51	24.50	24.49	24.47	24.47	24.47	24.46	24.44	24.44	24.43	24.43	24.45	24.46	24.47	24.48	24.49	24.50	24.49	24.49	24.49	24.48	24.57	24.43
5	24.49	24.49	24.50	24.49	24.49	24.48	24.48	24.48	24.49	24.49	24.48	24.46	24.45	24.44	24.44	24.43	24.42	24.41	24.41	24.40	24.39	24.38	24.37	24.35	24.45	24.50	24.35
6	24.34	24.33	24.32	24.31	24.31	24.30	24.29	24.28	24.30	24.29	24.28	24.27	24.26	24.23	24.22	24.21	24.19	24.17	24.15	24.14	24.13	24.11	24.09	24.07	24.23	24.34	24.07
7	24.05	24.04	24.03	24.02	24.01	24.01	24.00	24.00	23.98	23.98	23.99	24.00	24.01	24.00	24.01	24.02	24.03	24.05	24.08	24.08	24.09	24.09	24.09	24.10	24.03	24.10	23.98
8	24.09	24.10	24.10	24.11	24.12	24.14	24.15	24.17	24.19	24.20	24.22	24.24	24.26	24.28	24.31	24.33	24.36	24.39	24.41	24.42	24.43	24.44	24.46	24.47	24.27	24.47	24.09
9	24.48	24.48	24.46	24.46	24.47	24.46	24.47	24.46	24.46	24.46	24.45	24.45	24.44	24.44	24.43	24.43	24.44	24.44	24.44	24.43	24.44	24.44	24.46	24.45	24.45	24.48	24.43
10	24.45	24.45	24.44	24.42	24.41	24.39	24.38	24.36	24.36	24.35	24.33	24.30	24.28	24.26	24.24	24.22	24.20	24.20	24.20	24.19	24.19	24.19	24.19	24.18	24.30	24.45	24.18
11	24.18	24.18	24.18	24.18	24.16	24.15	24.13	24.13	24.13	24.13	24.11	24.11	24.10	24.10	24.10	24.10	24.14	24.19	24.21	24.21	24.21	24.20	24.21	24.20	24.16	24.21	24.10
12	24.20	24.21	24.22	24.22	24.23	24.23	24.25	24.26	24.28	24.28	24.28	24.29	24.29	24.28	24.28	24.29	24.29	24.28	24.27	24.27	24.27	24.28	24.28	24.27	24.26	24.29	24.20
13	24.26	24.25	24.25	24.24	24.23	24.23	24.22	24.23	24.23	24.24	24.24	24.24	24.23	24.24	24.25	24.26	24.27	24.29	24.30	24.32	24.34	24.35	24.35	24.36	24.27	24.36	24.22
14	24.37	24.38	24.39	24.41	24.43	24.45	24.47	24.47	24.49	24.49	24.49	24.49	24.48	24.48	24.48	24.49	24.49	24.49	24.51	24.51	24.53	24.53	24.54	24.54	24.47	24.54	24.37
15	24.56	24.57	24.58	24.58	24.59	24.59	24.60	24.61	24.63	24.62	24.61	24.60	24.59	24.56	24.55	24.54	24.53	24.52	24.51	24.51	24.50	24.49	24.48	24.47	24.56	24.63	24.47
16	24.47	24.46	24.46	24.46	24.45	24.46	24.46	24.48	24.52	24.53	24.52	24.51	24.50	24.48	24.47	24.46	24.45	24.44	24.44	24.44	24.44	24.43	24.43	24.42	24.47	24.53	24.42
17	24.42	24.41	24.41	24.39	24.39	24.38	24.37	24.37	24.37	24.34	24.31	24.28	24.24	24.21	24.18	24.16	24.14	24.13	24.15	24.17	24.20	24.23	24.22	24.24	24.28	24.42	24.13
18	24.26	24.26	24.29	24.29	24.30	24.30	24.31	24.32	24.34	24.33	24.32	24.31	24.29	24.27	24.26	24.25	24.25	24.25	24.23	24.21	24.21	24.20	24.20	24.19	24.27	24.34	24.19
19	24.18	24.18	24.17	24.17	24.17	24.16	24.15	24.15	24.15	24.15	24.13	24.13	24.11	24.08	24.06	24.05	24.03	24.02	24.01	24.00	23.99	23.98	23.97	23.95	24.09	24.18	23.95
20	23.92	23.89	23.87	23.85	23.84	23.82	23.79	23.78	23.77	23.76	23.76	23.76	23.74	23.76	23.82	23.87	23.91	23.93	23.94	23.95	23.99	24.00	24.02	24.04	23.87	24.04	23.74
21	24.06	24.08	24.09	24.10	24.13	24.15	24.16	24.18	24.20	24.21	24.22	24.22	24.22	24.21	24.21	24.21	24.21	24.22	24.23	24.22	24.21	24.22	24.22	24.21	24.18	24.23	24.06
22	24.20	24.18	24.17	24.16	24.16	24.16	24.15	24.14	24.16	24.16	24.16	24.17	24.17	24.18	24.20	24.25	24.29	24.33	24.36	24.41	24.43	24.45	24.47	24.50	24.25	24.50	24.14
23	24.52	24.54	24.56	24.57	24.59	24.61	24.62	24.65	24.69	24.71	24.73	24.74	24.74	24.75	24.76	24.76	24.77	24.77	24.78	24.79	24.78	24.78	24.79	24.79	24.70	24.79	24.52
24	24.79	24.79	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.77	24.75	24.73	24.71	24.69	24.67	24.66	24.65	24.64	24.63	24.62	24.60	24.59	24.56	24.71	24.79	24.56
25	24.54	24.52	24.50	24.47	24.44	24.40	24.37	24.34	24.32	24.30	24.26	24.24	24.20	24.17	24.18	24.18	24.20	24.22	24.23	24.24	24.28	24.32	24.36	24.39	24.32	24.54	24.17
26	24.43	24.46	24.49	24.51	24.54	24.56	24.57	24.59	24.60	24.62	24.62	24.62	24.60	24.57	24.57	24.56	24.53	24.53	24.53	24.52	24.52	24.52	24.51	24.50	24.54	24.62	24.43
27	24.51	24.51	24.51	24.50	24.51	24.51	24.51	24.51	24.52	24.53	24.52	24.52	24.50	24.50	24.50	24.50	24.50	24.51	24.50	24.49	24.48	24.47	24.48	24.48	24.50	24.53	24.47
28	24.47	24.47	24.47	24.48	24.48	24.48	24.48	24.48	24.48	24.48	24.47	24.45	24.42	24.39	24.37	24.35	24.34	24.32	24.31	24.29	24.27	24.26	24.25	24.25	24.40	24.48	24.25
29	24.24	24.24	24.26	24.27	24.31	24.33	24.35	24.38	24.40	24.42	24.44	24.45	24.44	24.44	24.45	24.46	24.48	24.49	24.50	24.50	24.52	24.52	24.53	24.53	24.41	24.53	24.24
30	24.54	24.54	24.54	24.54	24.54	24.53	24.54	24.53	24.52	24.51	24.48	24.46	24.44	24.41	24.39	24.37	24.35	24.33	24.33	24.32	24.31	24.31	24.30	24.30	24.43	24.54	24.30
31	24.28	24.27	24.25	24.24	24.22	24.19	24.16	24.13	24.10	24.07	24.04	24.01	23.97	23.96	23.94	23.92	23.92	23.92	23.91	23.90	23.90	23.89	23.88	23.87	24.04	24.28	23.87
Avg	24.34	24.34	24.34	24.34	24.34	24.34	24.34	24.34	24.35	24.35	24.34	24.34	24.33	24.32	24.32	24.32	24.32	24.32	24.33	24.33	24.33	24.33	24.34	24.33	24.33	24.43	24.23
Max	24.79	24.79	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.77	24.75	24.74	24.75	24.76	24.76	24.77	24.77	24.78	24.79	24.78	24.78	24.79	24.79	24.71	24.79	24.56
Min	23.92	23.89	23.87	23.85	23.84	23.82	23.79	23.78	23.77	23.76	23.76	23.76	23.74	23.76	23.82	23.87	23.91	23.92	23.91	23.90	23.90	23.89	23.88	23.87	23.87	24.04	23.74

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
November 2017

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	23.86	23.84	23.83	23.82	23.81	23.81	23.81	23.84	23.86	23.87	23.89	23.90	23.91	23.92	23.95	23.97	23.99	24.02	24.06	24.08	24.10	24.11	24.12	24.14	23.94	24.14	23.81
2	24.14	24.14	24.15	24.15	24.16	24.17	24.16	24.17	24.18	24.19	24.18	24.17	24.17	24.17	24.15	24.17	24.17	24.17	24.17	24.17	24.18	24.18	24.18	24.18	24.17	24.19	24.14
3	24.18	24.17	24.18	24.17	24.16	24.15	24.15	24.15	24.15	24.14	24.12	24.11	24.09	24.07	24.06	24.06	24.08	24.12	24.12	24.09	24.08	24.07	24.08	24.10	24.12	24.18	24.06
4	24.09	24.09	24.10	24.10	24.10	24.11	24.11	24.12	24.13	24.13	24.11	24.11	24.10	24.09	24.09	24.09	24.09	24.09	24.10	24.10	24.09	24.10	24.10	24.11	24.10	24.13	24.09
5	24.10	24.10	24.10	24.09	24.10	24.11	24.10	24.11	24.12	24.12	24.12	24.12	24.11	24.10	24.10	24.10	24.11	24.12	24.14	24.14	24.16	24.17	24.18	24.19	24.20	24.13	24.09
6	24.21	24.22	24.23	24.23	24.24	24.26	24.28	24.30	24.33	24.33	24.34	24.36	24.36	24.36	24.37	24.38	24.40	24.41	24.43	24.43	24.44	24.46	24.46	24.47	24.35	24.47	24.21
7	24.47	24.47	24.47	24.47	24.46	24.47	24.46	24.48	24.51	24.51	24.50	24.49	24.47	24.46	24.45	24.43	24.43	24.44	24.43	24.43	24.42	24.41	24.40	24.39	24.45	24.51	24.39
8	24.39	24.37	24.36	24.35	24.35	24.35	24.34	24.35	24.35	24.35	24.35	24.35	24.34	24.34	24.33	24.33	24.32	24.34	24.34	24.34	24.34	24.35	24.34	24.34	24.35	24.39	24.32
9	24.32	24.30	24.29	24.28	24.26	24.26	24.24	24.23	24.22	24.22	24.21	24.19	24.17	24.16	24.15	24.15	24.14	24.13	24.13	24.12	24.11	24.11	24.15	24.14	24.19	24.32	24.11
10	24.14	24.14	24.13	24.12	24.11	24.12	24.11	24.13	24.15	24.15	24.16	24.17	24.16	24.15	24.14	24.14	24.15	24.15	24.16	24.16	24.16	24.17	24.17	24.17	24.15	24.17	24.11
11	24.17	24.18	24.19	24.18	24.20	24.22	24.25	24.27	24.30	24.31	24.33	24.35	24.35	24.36	24.38	24.39	24.40	24.40	24.41	24.42	24.43	24.43	24.43	24.43	24.32	24.43	24.17
12	24.44	24.44	24.43	24.42	24.41	24.42	24.41	24.41	24.41	24.40	24.40	24.39	24.38	24.37	24.36	24.35	24.35	24.34	24.34	24.33	24.32	24.31	24.30	24.30	24.38	24.44	24.30
13	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.30	24.29	24.27	24.26	24.25	24.23	24.21	24.20	24.20	24.19	24.18	24.17	24.16	24.16	24.17	24.20	24.23	24.24	24.30	24.16
14	24.23	24.21	24.21	24.20	24.19	24.19	24.19	24.21	24.22	24.24	24.27	24.28	24.28	24.30	24.32	24.32	24.34	24.35	24.37	24.38	24.39	24.40	24.41	24.40	24.29	24.41	24.19
15	24.39	24.37	24.35	24.34	24.33	24.32	24.31	24.30	24.28	24.26	24.23	24.22	24.19	24.16	24.15	24.14	24.12	24.09	24.08	24.08	24.07	24.04	24.01	23.99	24.20	24.39	23.99
16	23.96	23.93	23.91	23.89	23.88	23.86	23.84	23.82	23.82	23.81	23.82	23.86	23.87	23.87	23.88	23.89	23.91	23.91	23.92	23.93	23.92	23.93	23.94	23.94	23.89	23.96	23.81
17	23.93	23.93	23.93	23.93	23.93	23.94	23.94	23.95	23.96	23.97	23.99	24.00	24.00	24.01	24.02	24.05	24.08	24.11	24.14	24.18	24.20	24.23	24.25	24.27	24.04	24.27	23.93
18	24.29	24.30	24.32	24.34	24.36	24.36	24.37	24.38	24.39	24.41	24.41	24.41	24.41	24.40	24.39	24.38	24.38	24.37	24.36	24.36	24.35	24.36	24.35	24.35	24.37	24.41	24.29
19	24.34	24.33	24.33	24.32	24.30	24.28	24.27	24.26	24.25	24.24	24.21	24.21	24.20	24.16	24.14	24.12	24.10	24.07	24.06	24.04	24.02	24.01	24.00	23.98	24.18	24.34	23.98
20	23.97	23.97	23.96	23.97	23.96	23.97	23.98	24.00	24.02	24.05	24.07	24.06	24.05	24.05	24.05	24.06	24.07	24.08	24.10	24.13	24.15	24.18	24.21	24.25	24.06	24.25	23.96
21	24.29	24.33	24.36	24.38	24.39	24.40	24.40	24.40	24.43	24.43	24.45	24.45	24.45	24.44	24.43	24.42	24.42	24.42	24.42	24.41	24.40	24.38	24.38	24.38	24.40	24.45	24.29
22	24.39	24.38	24.38	24.38	24.38	24.39	24.40	24.40	24.42	24.44	24.44	24.45	24.45	24.45	24.45	24.45	24.45	24.45	24.44	24.44	24.42	24.41	24.40	24.38	24.42	24.45	24.38
23	24.36	24.35	24.34	24.32	24.30	24.27	24.26	24.24	24.23	24.22	24.20	24.18	24.15	24.12	24.09	24.06	24.04	24.02	24.00	23.98	23.97	23.99	23.99	23.99	24.15	24.36	23.97
24	24.00	24.03	24.06	24.08	24.11	24.13	24.15	24.16	24.19	24.20	24.20	24.20	24.20	24.21	24.22	24.23	24.24	24.26	24.26	24.27	24.28	24.29	24.31	24.32	24.19	24.32	24.00
25	24.32	24.31	24.32	24.34	24.36	24.36	24.35	24.37	24.38	24.39	24.40	24.40	24.39	24.39	24.38	24.37	24.36	24.35	24.35	24.36	24.37	24.37	24.34	24.34	24.36	24.40	24.31
26	24.33	24.32	24.30	24.31	24.30	24.28	24.26	24.26	24.25	24.25	24.24	24.21	24.18	24.16	24.15	24.15	24.12	24.10	24.08	24.07	24.04	24.02	24.00	23.97	24.18	24.33	23.97
27	23.95	23.94	23.93	23.93	23.96	23.99	23.99	23.99	24.00	24.02	24.04	24.04	24.05	24.06	24.06	24.07	24.12	24.14	24.16	24.17	24.19	24.22	24.23	24.25	24.06	24.25	23.93
28	24.26	24.28	24.30	24.32	24.33	24.34	24.35	24.36	24.37	24.38	24.39	24.38	24.35	24.31	24.28	24.27	24.25	24.23	24.21	24.17	24.15	24.13	24.11	24.09	24.28	24.39	24.09
29	24.09	24.10	24.12	24.13	24.14	24.15	24.17	24.20	24.26	24.31	24.36	24.38	24.39	24.40	24.41	24.43	24.44	24.44	24.45	24.44	24.43	24.43	24.43	24.43	24.31	24.45	24.09
30	24.42	24.42	24.42	24.42	24.42	24.41	24.40	24.39	24.39	24.38	24.37	24.35	24.32	24.30	24.28	24.29	24.28	24.26	24.25	24.24	24.24	24.25	24.25	24.25	24.33	24.42	24.24
Avg	24.21	24.21	24.21	24.21	24.21	24.21	24.21	24.22	24.23	24.23	24.24	24.23	24.23	24.22	24.21	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.23	24.22	24.32	24.11
Max	24.47	24.47	24.47	24.47	24.46	24.47	24.46	24.48	24.51	24.51	24.50	24.49	24.47	24.46	24.45	24.45	24.45	24.45	24.45	24.44	24.44	24.46	24.46	24.47	24.45	24.51	24.39
Min	23.86	23.84	23.83	23.82	23.81	23.81	23.81	23.82	23.82	23.81	23.82	23.86	23.87	23.87	23.88	23.89	23.91	23.91	23.92	23.93	23.92	23.93	23.94	23.94	23.89	23.96	23.81

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
December 2017

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	24.25	24.25	24.25	24.25	24.25	24.25	24.26	24.26	24.26	24.28	24.30	24.29	24.27	24.26	24.25	24.25	24.24	24.24	24.23	24.23	24.24	24.25	24.24	24.24	24.25	24.30	24.23
2	24.24	24.23	24.23	24.23	24.22	24.23	24.22	24.22	24.23	24.23	24.23	24.23	24.21	24.20	24.18	24.17	24.16	24.15	24.14	24.12	24.10	24.10	24.08	24.07	24.18	24.24	24.07
3	24.05	24.03	24.02	24.00	23.98	23.96	23.95	23.94	23.92	23.92	23.92	23.92	23.92	23.94	23.94	23.97	24.00	24.02	24.04	24.05	24.07	24.13	24.17	24.20	24.00	24.20	23.92
4	24.21	24.23	24.25	24.26	24.28	24.29	24.30	24.32	24.33	24.34	24.35	24.35	24.34	24.34	24.35	24.36	24.36	24.38	24.38	24.39	24.41	24.42	24.42	24.41	24.34	24.42	24.21
5	24.42	24.42	24.44	24.44	24.46	24.48	24.49	24.50	24.50	24.50	24.51	24.50	24.50	24.51	24.52	24.55	24.56	24.59	24.62	24.63	24.65	24.66	24.66	24.67	24.53	24.67	24.42
6	24.67	24.67	24.69	24.69	24.70	24.70	24.72	24.73	24.74	24.74	24.76	24.75	Au	Au	Au	24.72	24.72	24.72	24.72	24.71	24.71	24.71	24.71	24.70	24.71	24.76	24.67
7	24.68	24.69	24.69	24.69	24.68	24.68	24.69	24.69	24.70	24.70	24.69	24.68	24.67	24.67	24.67	24.67	24.67	24.68	24.69	24.69	24.71	24.71	24.71	24.71	24.69	24.71	24.67
8	24.71	24.70	24.69	24.69	24.69	24.69	24.69	24.69	24.69	24.68	24.68	24.67	24.66	24.64	24.64	24.63	24.62	24.63	24.62	24.63	24.63	24.63	24.64	24.65	24.66	24.71	24.62
9	24.65	24.65	24.65	24.65	24.64	24.63	24.64	24.64	24.65	24.65	24.64	24.64	24.63	24.62	24.61	24.61	24.62	24.63	24.65	24.66	24.66	24.67	24.67	24.68	24.64	24.68	24.61
10	24.68	24.68	24.68	24.67	24.66	24.66	24.67	24.67	24.66	24.66	24.66	24.66	24.63	24.62	24.62	24.60	24.61	24.62	24.64	24.65	24.65	24.66	24.67	24.68	24.65	24.68	24.60
11	24.68	24.67	24.67	24.67	24.67	24.67	24.68	24.69	24.69	24.69	24.68	24.68	24.68	24.67	24.66	24.64	24.63	24.64	24.65	24.65	24.65	24.65	24.65	24.64	24.66	24.69	24.63
12	24.63	24.62	24.63	24.61	24.60	24.59	24.58	24.57	24.56	24.55	24.55	24.52	24.51	24.48	24.48	24.47	24.48	24.47	24.46	24.46	24.45	24.46	24.47	24.48	24.53	24.63	24.45
13	24.48	24.48	24.49	24.48	24.48	24.47	24.46	24.46	24.44	24.45	24.46	24.46	24.46	24.45	24.45	24.45	24.47	24.49	24.51	24.53	24.53	24.54	24.54	24.54	24.48	24.54	24.44
14	24.54	24.53	24.55	24.55	24.56	24.57	24.57	24.58	24.59	24.57	24.57	24.55	24.52	24.50	24.48	24.45	24.43	24.43	24.43	24.43	24.42	24.41	24.40	24.39	24.50	24.59	24.39
15	24.38	24.35	24.34	24.32	24.31	24.29	24.28	24.27	24.25	24.24	24.23	24.20	24.17	24.13	24.10	24.09	24.07	24.08	24.09	24.10	24.10	24.11	24.12	24.12	24.20	24.38	24.07
16	24.12	24.12	24.13	24.12	24.12	24.13	24.14	24.15	24.16	24.18	24.19	24.20	24.20	24.20	24.21	24.21	24.23	24.26	24.27	24.27	24.27	24.26	24.26	24.25	24.19	24.27	24.12
17	24.23	24.22	24.20	24.18	24.18	24.18	24.18	24.18	24.17	24.17	24.17	24.17	24.16	24.15	24.15	24.16	24.16	24.17	24.17	24.17	24.16	24.14	24.12	24.11	24.17	24.23	24.11
18	24.09	24.08	24.08	24.06	24.06	24.06	24.06	24.06	24.07	24.07	24.08	24.09	24.09	24.09	24.09	24.10	24.12	24.14	24.16	24.17	24.18	24.19	24.20	24.20	24.11	24.20	24.06
19	24.20	24.20	24.19	24.18	24.17	24.16	24.15	24.14	24.14	24.14	24.12	24.10	24.08	24.06	24.06	24.05	24.03	24.02	24.00	24.00	23.99	23.97	23.97	23.96	24.09	24.20	23.96
20	23.93	23.91	23.90	23.89	23.87	23.87	23.89	23.93	23.96	24.00	24.05	24.06	24.08	24.11	24.15	24.19	24.21	24.24	24.26	24.28	24.30	24.31	24.32	24.31	24.08	24.32	23.87
21	24.30	24.30	24.30	24.30	24.29	24.29	24.30	24.30	24.31	24.32	24.31	24.29	24.26	24.23	24.23	24.22	24.22	24.23	24.23	24.23	24.22	24.22	24.22	24.22	24.26	24.32	24.22
22	24.22	24.21	24.22	24.23	24.24	24.25	24.26	24.27	24.28	24.29	24.30	24.29	24.28	24.27	24.26	24.26	24.27	24.28	24.29	24.28	24.28	24.29	24.29	24.29	24.27	24.30	24.21
23	24.29	24.29	24.29	24.29	24.28	24.28	24.28	24.27	24.29	24.32	24.34	24.33	24.32	24.32	24.33	24.34	24.35	24.35	24.36	24.35	24.34	24.34	24.34	24.36	24.32	24.36	24.27
24	24.36	24.36	24.35	24.35	24.36	24.36	24.35	24.34	24.35	24.39	24.39	24.38	24.35	24.32	24.30	24.28	24.29	24.28	24.28	24.28	24.28	24.27	24.27	24.26	24.32	24.39	24.26
25	24.26	24.24	24.24	24.24	24.23	24.22	24.22	24.22	24.23	24.24	24.26	24.27	24.27	24.26	24.26	24.27	24.28	24.30	24.31	24.32	24.33	24.34	24.35	24.34	24.27	24.35	24.22
26	24.34	24.34	24.34	24.34	24.34	24.33	24.33	24.32	24.33	24.34	24.36	24.34	24.33	24.32	24.32	24.31	24.32	24.32	24.32	24.32	24.31	24.30	24.30	24.28	24.32	24.36	24.28
27	24.27	24.26	24.26	24.25	24.24	24.22	24.22	24.22	24.21	24.22	24.22	24.21	24.20	24.19	24.20	24.20	24.22	24.25	24.26	24.26	24.25	24.26	24.27	24.28	24.23	24.28	24.19
28	24.29	24.29	24.30	24.31	24.31	24.30	24.30	24.30	24.29	24.28	24.28	24.27	24.25	24.24	24.23	24.22	24.22	24.21	24.19	24.16	24.14	24.12	24.11	24.11	24.24	24.31	24.11
29	24.10	24.11	24.16	24.20	24.21	24.23	24.26	24.28	24.31	24.33	24.35	24.36	24.34	24.33	24.33	24.33	24.34	24.34	24.32	24.31	24.30	24.29	24.28	24.27	24.28	24.36	24.10
30	24.25	24.22	24.20	24.17	24.14	24.11	24.10	24.10	24.10	24.12	24.14	24.14	24.13	24.14	24.17	24.21	24.24	24.27	24.28	24.30	24.33	24.35	24.36	24.38	24.21	24.38	24.10
31	24.38	24.38	24.39	24.39	24.39	24.39	24.41	24.41	24.42	24.44	24.44	24.43	24.40	24.40	24.40	24.40	24.42	24.43	24.43	24.43	24.42	24.41	24.40	24.41	24.41	24.44	24.38
Avg	24.35	24.35	24.35	24.35	24.34	24.34	24.34	24.35	24.35	24.36	24.36	24.36	24.33	24.32	24.32	24.33	24.34	24.35	24.35	24.36	24.36	24.36	24.36	24.36	24.35	24.43	24.27
Max	24.71	24.70	24.69	24.69	24.70	24.70	24.72	24.73	24.74	24.74	24.76	24.75	24.68	24.67	24.67	24.72	24.72	24.72	24.72	24.71	24.71	24.71	24.71	24.71	24.71	24.76	24.67
Min	23.93	23.91	23.90	23.89	23.87	23.87	23.89	23.93	23.92	23.92	23.92	23.92	23.92	23.94	23.94	23.97	24.00	24.02	24.00	24.00	23.99	23.97	23.97	23.96	24.00	24.20	23.87

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
October 2017

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	71.2	76.8	77.9	82.7	86.2	88.0	88.1	83.3	79.9	82.9	73.0	84.3	79.6	67.2	66.0	59.0	68.6	82.0	90.9	91.5	91.0	86.5	90.2	91.1	80.7	91.5	59.0
2	87.9	86.9	84.0	84.6	78.6	80.0	78.4	76.3	72.8	75.3	74.5	74.6	72.2	72.8	74.5	77.3	78.0	79.2	79.2	80.7	82.4	82.5	84.4	84.3	79.2	87.9	72.2
3	82.8	84.1	83.7	82.3	85.5	85.3	84.7	83.1	80.7	83.2	82.3	81.3	75.5	70.8	68.5	68.4	65.4	68.6	76.8	83.8	85.8	86.0	86.6	86.3	80.1	86.6	65.4
4	86.2	85.9	86.0	85.4	84.9	86.3	86.4	82.7	78.1	77.0	66.8	68.6	69.6	71.6	67.6	71.0	74.1	78.5	83.8	86.0	87.7	86.7	88.2	90.1	80.4	90.1	66.8
5	90.3	91.2	90.6	91.2	91.6	91.5	91.3	91.3	78.9	67.9	64.1	64.8	62.4	63.7	60.2	61.4	63.6	66.5	76.4	83.7	86.5	86.7	89.3	90.6	79.0	91.6	60.2
6	91.8	91.5	91.4	89.8	89.3	89.1	89.0	90.1	90.7	71.2	55.7	48.7	45.2	41.4	38.3	36.3	34.0	44.3	57.2	65.8	67.2	60.7	40.9	37.2	64.9	91.8	34.0
7	37.4	36.4	37.4	37.1	37.2	38.1	40.2	41.0	40.2	40.8	41.1	54.9	53.6	53.6	77.6	77.2	67.0	53.9	53.2	57.3	64.0	61.7	69.8	77.0	52.0	77.6	36.4
8	82.3	80.4	83.5	86.0	85.6	86.9	86.3	82.7	70.3	58.5	49.8	49.1	51.2	55.8	56.1	57.4	61.7	63.0	68.9	72.4	82.2	87.3	87.2	86.8	72.1	87.3	49.1
9	86.8	87.1	86.8	86.5	87.1	87.1	86.9	86.4	79.9	57.0	49.5	46.4	44.3	41.9	39.8	41.4	40.8	43.8	48.4	61.9	71.2	74.1	80.1	82.0	66.5	87.1	39.8
10	83.2	84.6	84.9	85.4	85.1	84.2	82.7	80.8	69.0	42.0	29.5	26.3	23.8	23.2	18.8	18.3	20.3	24.0	35.4	47.8	48.3	52.9	58.7	63.1	53.0	85.4	18.3
11	67.6	68.2	71.7	72.0	73.2	70.1	69.2	68.8	57.7	39.4	27.3	24.3	26.0	25.8	28.4	32.0	54.1	72.2	89.4	83.8	86.3	86.7	85.8	87.0	61.1	89.4	24.3
12	87.5	87.2	88.6	87.2	86.4	85.6	84.7	86.0	80.5	74.3	67.1	57.1	48.4	55.3	46.1	50.5	49.6	53.2	60.7	70.9	75.7	78.1	75.9	77.7	71.4	88.6	46.1
13	77.9	77.8	75.0	76.3	77.9	78.9	80.2	79.7	76.0	66.0	60.0	57.0	64.9	84.7	88.3	82.8	84.4	85.1	88.7	89.3	88.9	88.8	88.7	88.1	79.4	89.3	57.0
14	89.0	89.2	89.5	90.2	90.4	90.3	89.5	88.3	78.8	68.4	60.6	56.0	52.6	46.8	44.1	43.0	43.2	46.6	48.0	45.9	46.6	48.5	49.8	53.2	64.5	90.4	43.0
15	55.1	57.9	60.5	59.7	64.9	72.4	77.3	75.5	59.7	52.4	51.3	47.2	43.5	41.0	38.6	37.7	37.9	47.1	60.5	67.0	77.4	82.9	85.3	85.0	59.9	85.3	37.7
16	86.0	84.6	85.8	84.4	84.6	83.7	81.0	66.0	42.7	30.2	27.0	24.2	22.9	22.0	20.7	19.7	21.5	28.5	39.6	49.8	56.7	63.1	66.3	70.4	52.6	86.0	19.7
17	71.4	77.6	77.0	75.5	79.0	79.5	79.8	77.0	62.8	28.4	21.8	18.1	16.6	18.1	16.6	15.3	16.7	18.7	20.6	24.8	28.3	31.7	32.8	34.4	42.6	79.8	15.3
18	37.6	40.1	43.9	45.9	49.1	54.4	54.9	54.0	46.4	40.6	34.6	28.8	23.8	21.1	21.6	27.4	31.2	36.8	43.9	56.8	57.7	59.0	51.9	46.2	42.0	59.0	21.1
19	41.3	43.8	38.7	37.0	36.1	37.1	37.3	32.5	25.1	20.2	16.5	14.0	12.3	11.5	11.7	12.5	13.3	16.0	24.7	18.1	18.8	23.2	28.0	30.7	25.0	43.8	11.5
20	34.3	34.8	28.6	31.9	38.5	39.2	39.0	36.3	34.2	30.6	34.3	34.2	36.0	52.0	71.2	76.9	87.7	84.4	78.6	71.7	72.4	71.0	71.6	67.3	52.4	87.7	28.6
21	66.5	67.2	67.5	67.6	68.2	67.6	68.2	68.5	62.8	57.9	55.5	47.8	45.0	39.1	37.1	39.1	43.2	46.6	50.5	53.8	49.5	52.0	57.8	55.8	55.6	68.5	37.1
22	57.2	57.8	56.8	54.7	53.4	54.3	55.6	54.7	52.7	51.6	50.7	48.5	47.7	43.2	38.8	42.2	38.7	42.6	47.5	50.5	52.0	53.9	51.6	51.7	50.4	57.8	38.7
23	58.1	62.4	61.6	64.8	68.4	65.7	69.1	65.0	56.0	50.1	42.6	37.6	32.7	30.5	30.2	31.0	33.5	43.8	54.3	59.7	66.3	72.2	77.7	80.5	54.7	80.5	30.2
24	82.6	82.9	84.5	84.7	85.5	85.0	85.1	83.6	76.4	57.1	43.0	38.4	36.4	34.5	34.8	34.0	32.7	35.9	49.3	58.1	65.4	74.4	78.2	80.9	62.6	85.5	32.7
25	81.6	82.5	81.5	83.2	83.6	83.8	83.3	81.5	73.9	53.4	16.8	15.1	14.7	18.4	21.4	23.6	34.3	53.0	63.3	73.9	79.8	80.8	74.1	72.2	59.6	83.8	14.7
26	70.7	70.6	70.7	70.3	68.3	76.3	77.9	77.7	72.9	70.6	69.3	60.1	56.7	51.4	45.9	47.6	54.6	64.7	67.0	68.8	72.7	73.6	76.2	80.4	67.3	80.4	45.9
27	83.5	84.3	85.4	84.6	85.7	84.8	84.5	83.9	73.4	72.6	59.9	50.9	39.2	41.3	41.3	47.9	51.6	55.0	60.8	66.1	70.1	76.0	79.8	82.4	68.5	85.7	39.2
28	81.6	84.2	84.4	86.4	87.6	87.8	88.3	87.7	79.6	71.1	46.9	40.8	38.1	35.5	32.0	30.3	34.5	44.7	56.1	66.8	73.8	79.0	82.2	83.2	65.9	88.3	30.3
29	82.3	83.9	82.9	81.5	73.9	73.5	71.7	70.3	68.8	68.4	65.3	61.9	62.6	70.3	58.5	55.7	57.5	60.2	64.5	66.0	68.6	64.8	63.7	63.4	68.3	83.9	55.7
30	66.1	63.3	68.0	60.0	64.9	63.2	67.0	67.1	64.7	59.2	55.7	49.2	49.7	46.9	37.9	39.3	43.6	55.2	63.6	71.0	74.7	75.9	79.3	78.6	61.0	79.3	37.9
31	79.7	80.1	80.3	80.5	81.6	81.3	80.2	81.3	76.4	50.4	35.9	35.1	41.0	48.3	55.6	54.3	58.6	79.4	87.6	91.3	90.6	90.2	91.8	92.6	71.8	92.6	35.1
Avg	72.8	73.7	73.8	73.9	74.6	75.2	75.4	73.6	66.5	57.1	49.3	46.6	44.8	45.2	44.8	45.5	48.3	54.0	60.9	65.6	69.0	70.7	71.7	72.6	62.7	82.7	38.8
Max	91.8	91.5	91.4	91.2	91.6	91.5	91.3	91.3	90.7	83.2	82.3	84.3	79.6	84.7	88.3	82.8	87.7	85.1	90.9	91.5	91.0	90.2	91.8	92.6	80.7	92.6	72.2
Min	34.3	34.8	28.6	31.9	36.1	37.1	37.3	32.5	25.1	20.2	16.5	14.0	12.3	11.5	11.7	12.5	13.3	16.0	20.6	18.1	18.8	23.2	28.0	30.7	25.0	43.8	11.5

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
November 2017

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	92.2	91.5	91.9	92.3	92.1	91.4	91.0	88.1	88.9	88.5	77.7	75.8	78.5	73.6	74.4	78.1	80.2	74.5	73.7	78.3	84.2	85.2	83.5	83.4	83.7	92.3	73.6
2	81.8	80.0	80.6	81.3	82.4	83.0	83.4	83.5	83.1	81.4	75.2	77.4	78.8	79.7	80.1	80.0	82.5	81.8	81.3	80.5	80.8	81.0	85.4	87.3	81.3	87.3	75.2
3	87.2	87.0	87.0	86.5	85.9	85.7	85.8	85.7	85.6	85.2	83.6	80.1	82.2	85.6	86.2	86.2	83.8	82.4	83.6	84.3	85.1	85.1	85.4	83.7	85.0	87.2	80.1
4	84.3	84.3	84.4	84.4	83.9	82.2	79.0	78.4	77.9	76.8	73.5	74.7	67.3	68.1	67.4	65.8	73.9	80.1	82.9	84.4	83.9	83.9	83.9	84.3	78.7	84.4	65.8
5	84.1	84.6	84.6	85.1	85.2	85.4	85.3	84.9	80.7	75.2	63.2	62.3	64.3	77.6	79.4	80.5	83.0	82.8	82.0	81.4	80.4	80.0	79.8	78.3	79.6	85.4	62.3
6	78.2	77.4	77.5	78.2	78.5	77.9	78.5	77.8	76.9	71.1	61.1	61.0	55.2	56.3	49.4	64.6	72.8	82.1	80.3	78.6	77.7	75.4	74.8	74.0	72.3	82.1	49.4
7	73.6	72.8	72.5	72.5	72.0	71.8	71.6	71.9	73.7	74.4	77.5	75.7	71.0	65.2	58.3	61.9	76.4	82.4	83.2	83.3	81.9	81.8	81.0	81.0	74.5	83.3	58.3
8	81.7	82.2	82.5	82.8	83.3	83.9	84.4	84.4	83.8	79.4	77.6	76.3	76.6	73.1	72.6	72.5	80.3	84.3	82.3	81.8	78.9	79.6	78.9	78.4	80.1	84.4	72.5
9	76.9	76.4	77.8	77.4	78.2	75.1	78.2	72.2	71.9	70.3	69.8	69.4	65.1	68.1	68.3	66.3	64.0	78.3	82.7	86.9	85.7	86.4	84.5	82.6	75.5	86.9	64.0
10	86.7	86.5	83.4	85.3	84.6	81.4	80.1	75.1	70.5	69.3	59.4	40.6	44.2	46.9	51.9	60.6	67.8	80.6	83.3	85.2	85.6	86.5	86.4	87.1	73.7	87.1	40.6
11	88.3	88.1	89.1	89.7	89.7	88.9	87.6	87.6	87.8	88.3	87.8	79.6	72.7	68.2	65.1	62.4	68.4	82.0	85.6	88.5	86.5	84.5	83.1	82.4	82.6	89.7	62.4
12	82.5	81.9	82.0	82.6	83.4	83.1	82.7	82.8	84.2	85.5	88.9	86.0	82.3	77.6	72.4	61.4	70.7	81.0	84.5	87.2	85.2	85.8	86.1	86.4	81.9	88.9	61.4
13	86.6	87.6	86.2	84.6	83.8	83.2	82.4	82.3	85.5	88.7	84.8	61.1	44.9	43.4	43.2	54.9	69.0	71.2	72.2	76.1	66.4	69.2	67.2	73.4	72.8	88.7	43.2
14	75.0	78.7	69.1	78.9	78.2	82.6	81.1	69.9	66.8	67.6	62.3	57.6	61.5	62.6	65.3	62.5	60.8	67.3	66.8	72.2	79.4	81.8	84.9	84.7	71.6	84.9	57.6
15	84.6	83.6	82.5	82.4	82.6	82.6	81.8	80.8	81.6	82.9	81.3	63.0	46.9	47.7	50.6	54.5	58.3	69.3	75.5	77.9	79.3	75.2	67.8	62.8	72.3	84.6	46.9
16	62.1	65.2	76.9	66.2	67.6	69.5	69.7	68.1	66.0	64.2	64.1	77.0	74.6	72.1	59.3	55.5	58.3	59.4	58.6	59.9	62.4	66.7	69.6	74.5	66.1	77.0	55.5
17	75.6	75.3	76.2	76.6	79.6	81.7	83.2	85.2	82.1	71.6	60.0	55.1	53.8	51.5	50.6	54.0	57.6	59.0	58.5	57.8	57.8	57.2	59.2	61.9	65.9	85.2	50.6
18	62.5	63.9	65.6	64.6	63.5	60.9	63.9	62.2	59.3	57.7	56.9	57.6	56.0	55.4	54.5	56.1	57.4	56.4	62.9	69.3	74.3	77.1	79.8	80.8	63.3	80.8	54.5
19	83.0	82.0	80.1	80.0	79.4	78.5	76.5	75.5	75.1	73.8	69.6	62.1	46.6	43.5	49.4	48.9	39.1	42.9	50.2	59.4	62.8	57.4	44.4	33.9	62.3	83.0	33.9
20	42.6	42.9	40.3	40.1	37.4	37.7	44.4	51.4	55.6	56.3	59.5	63.0	56.0	71.1	82.7	91.6	92.5	92.8	93.0	93.1	93.2	93.2	93.2	92.0	67.3	93.2	37.4
21	90.3	89.7	88.6	89.0	89.4	89.1	89.1	89.9	88.9	87.1	82.4	74.2	67.7	65.8	73.6	84.0	86.2	88.2	87.6	86.7	86.0	87.2	87.0	87.3	84.8	90.3	65.8
22	89.2	89.5	85.6	76.4	86.2	87.4	87.8	89.3	88.8	86.9	84.5	79.9	74.2	71.5	81.1	84.6	87.2	88.6	88.4	88.7	90.0	90.5	91.2	89.7	85.7	91.2	71.5
23	90.5	89.7	89.4	86.3	81.6	80.2	75.1	66.4	52.0	48.4	48.1	50.8	50.2	45.9	44.0	41.0	43.6	44.0	44.1	47.5	59.5	78.1	83.2	77.7	63.2	90.5	41.0
24	75.8	77.5	65.9	58.9	58.9	61.9	59.8	63.1	60.0	52.9	52.5	53.7	52.0	47.1	48.5	49.2	50.0	56.2	61.5	64.0	62.2	66.6	71.5	68.8	59.9	77.5	47.1
25	64.6	65.8	54.0	66.5	71.5	73.7	72.7	76.6	78.0	72.2	66.2	59.0	42.7	29.1	33.9	34.9	48.5	56.5	60.8	59.9	65.5	63.0	61.0	69.9	60.3	78.0	29.1
26	68.2	66.1	69.4	66.5	68.7	73.3	75.6	80.3	75.5	68.2	44.9	35.5	33.7	35.4	32.8	35.8	39.8	53.2	47.7	42.2	41.0	49.7	48.6	44.8	54.0	80.3	32.8
27	46.3	48.6	51.0	58.7	69.6	61.7	60.3	58.0	56.8	55.6	53.7	45.6	46.0	43.2	43.2	44.3	46.5	50.9	50.1	53.7	54.8	56.3	55.3	56.9	52.8	69.6	43.2
28	59.0	61.6	61.8	61.8	64.2	63.8	60.4	65.5	67.1	58.7	49.5	43.9	38.4	37.0	34.4	36.7	43.5	47.8	51.1	48.6	47.6	53.2	42.0	40.7	51.6	67.1	34.4
29	39.3	47.2	57.3	62.7	73.8	71.1	71.8	61.0	58.3	56.5	53.6	51.4	50.9	51.2	50.1	50.4	50.4	53.3	56.5	56.2	58.7	59.8	59.2	62.3	56.8	73.8	39.3
30	66.0	66.6	75.2	76.6	77.7	79.3	81.3	81.2	80.0	65.6	60.5	39.1	36.5	34.7	33.4	39.5	41.5	46.5	48.9	52.1	55.4	63.7	66.1	72.2	60.0	81.3	33.4
Avg	75.3	75.8	75.6	75.8	77.1	76.9	76.8	76.0	74.7	72.0	67.7	62.9	59.0	58.3	58.5	60.6	64.5	69.2	70.7	72.2	73.1	74.7	74.1	74.1	70.7	83.9	52.8
Max	92.2	91.5	91.9	92.3	92.1	91.4	91.0	89.9	88.9	88.7	88.9	86.0	82.3	85.6	86.2	91.6	92.5	92.8	93.0	93.1	93.2	93.2	93.2	92.0	85.7	93.2	80.1
Min	39.3	42.9	40.3	40.1	37.4	37.7	44.4	51.4	52.0	48.4	44.9	35.5	33.7	29.1	32.8	34.9	39.1	42.9	44.1	42.2	41.0	49.7	42.0	33.9	51.6	67.1	29.1

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
December 2017

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	72.9	71.2	71.8	63.9	59.9	62.8	66.3	69.4	64.3	60.0	58.4	57.2	54.4	53.9	54.3	51.4	55.5	62.6	67.8	70.7	74.4	75.3	78.2	81.0	64.9	81.0	51.4
2	82.7	83.1	83.2	83.2	83.6	83.3	83.4	83.3	82.2	80.6	77.7	72.6	50.3	48.5	50.2	51.1	59.7	67.8	70.6	76.1	78.4	77.6	75.9	81.4	73.6	83.6	48.5
3	89.0	90.9	91.5	92.0	92.1	92.1	92.1	91.9	92.1	91.2	91.1	91.3	88.7	88.2	83.7	80.2	75.9	78.5	77.0	77.0	77.3	75.2	76.9	74.7	85.4	92.1	74.7
4	80.1	83.5	84.8	86.2	85.8	85.3	85.3	85.3	85.0	82.6	80.4	82.4	80.5	80.2	80.5	77.7	75.4	75.1	74.9	80.8	83.5	82.3	82.1	83.2	81.8	86.2	74.9
5	82.2	78.6	78.5	79.1	78.6	78.5	78.6	78.0	77.8	75.3	74.3	73.7	73.6	73.1	71.6	70.5	77.6	80.6	84.1	85.0	83.1	80.9	80.7	79.4	78.1	85.0	70.5
6	80.2	83.8	84.0	83.7	82.3	82.9	82.6	82.5	81.3	73.9	65.4	64.3	Au	Au	Au	58.2	63.4	72.0	78.2	81.1	81.6	82.6	82.6	84.2	77.7	84.2	58.2
7	84.9	84.4	84.2	83.2	82.7	81.8	80.8	80.1	79.8	75.2	70.8	65.5	61.2	53.1	55.4	60.5	67.4	78.1	82.7	84.8	83.2	83.3	83.6	83.9	76.3	84.9	53.1
8	82.7	83.1	82.2	82.5	80.7	81.5	80.8	80.4	81.5	79.6	77.3	71.1	63.8	54.0	44.8	63.2	74.9	81.1	83.7	85.7	83.7	84.0	82.7	82.1	77.0	85.7	44.8
9	80.7	80.5	79.1	79.1	79.3	78.9	79.2	79.3	79.3	76.8	76.2	69.5	65.1	58.9	62.5	69.2	75.5	79.7	82.7	84.0	84.3	84.6	82.9	82.0	77.1	84.6	58.9
10	81.8	81.6	81.7	80.7	81.2	81.1	81.3	81.2	80.8	79.5	74.9	70.1	69.7	60.1	36.7	52.8	65.0	70.0	78.0	81.7	82.8	83.4	83.4	84.3	75.2	84.3	36.7
11	84.1	82.4	83.5	82.4	82.1	81.9	81.8	80.9	81.0	79.9	73.4	63.8	57.6	45.7	44.7	55.2	68.9	71.4	70.5	72.5	77.5	79.3	79.8	81.2	73.4	84.1	44.7
12	79.9	80.4	81.0	80.8	81.9	82.5	81.9	81.4	78.4	70.6	61.5	58.0	46.4	29.3	28.7	30.3	31.3	36.9	36.2	44.0	53.6	60.1	63.9	65.3	60.2	82.5	28.7
13	70.0	75.3	79.3	80.9	82.5	81.8	81.9	81.6	80.8	79.0	74.8	79.7	81.0	78.1	82.8	84.0	89.3	91.3	89.3	87.7	87.5	87.3	87.4	87.1	82.5	91.3	70.0
14	85.0	79.9	77.6	78.3	84.8	87.3	85.1	84.3	83.0	79.3	71.1	64.8	59.7	50.9	54.9	66.0	74.2	81.5	84.6	85.7	85.1	83.8	84.0	82.9	77.2	87.3	50.9
15	82.2	82.4	81.9	81.7	81.6	81.8	81.4	82.3	82.8	83.3	84.2	83.9	82.6	80.1	75.7	72.9	70.7	72.5	58.4	62.8	80.7	85.3	87.8	86.3	79.4	87.8	58.4
16	86.1	88.6	90.4	90.8	90.6	91.0	91.3	91.2	91.0	89.9	88.1	85.7	76.3	71.4	74.8	73.8	79.5	85.1	84.2	84.8	81.9	80.0	78.8	78.3	84.3	91.3	71.4
17	76.1	75.9	75.0	74.1	74.4	78.5	83.6	82.1	76.1	67.1	66.5	66.0	66.3	66.9	68.1	69.2	71.0	70.7	72.4	74.7	78.2	78.5	79.0	81.7	73.8	83.6	66.0
18	79.6	75.0	72.0	71.0	71.7	71.2	74.4	70.5	71.1	70.8	68.4	65.5	65.2	64.9	66.1	66.4	65.0	67.3	74.4	77.9	84.7	89.0	90.5	90.6	73.5	90.6	64.9
19	91.4	91.7	91.7	91.9	89.4	86.8	85.2	86.0	87.4	86.3	85.4	86.9	87.3	89.4	90.2	89.4	90.2	90.0	87.8	84.6	84.2	81.7	83.7	79.0	87.4	91.9	79.0
20	72.8	66.5	63.2	65.1	68.2	73.5	82.3	75.6	69.3	79.2	77.7	77.0	75.7	75.4	74.0	74.0	76.3	76.9	78.4	77.6	78.4	78.9	79.2	78.9	74.8	82.3	63.2
21	76.8	74.7	74.6	72.7	73.0	72.3	72.2	72.6	74.2	76.2	77.9	77.6	76.1	72.8	72.6	72.3	75.3	78.1	82.0	84.6	85.3	85.7	85.7	84.6	77.1	85.7	72.2
22	84.3	83.8	82.7	81.3	80.1	75.2	74.4	73.6	73.9	76.8	74.1	74.1	74.3	76.4	75.9	76.3	77.7	77.9	78.1	78.8	78.7	78.3	78.5	78.0	77.6	84.3	73.6
23	78.1	77.8	78.0	77.1	76.5	76.1	76.2	76.3	73.4	66.7	66.4	63.6	63.2	66.5	65.1	65.4	73.2	78.5	76.6	77.5	75.1	72.7	71.6	71.1	72.6	78.5	63.2
24	69.9	69.4	68.2	67.5	67.2	66.6	67.2	65.9	67.0	65.9	68.5	69.1	69.7	63.3	54.6	56.7	72.6	78.2	77.7	75.2	73.4	72.8	70.8	70.6	68.7	78.2	54.6
25	71.4	70.9	71.0	72.2	73.3	74.2	75.0	75.7	76.3	76.7	77.2	73.2	71.8	72.0	72.3	73.8	75.7	76.8	76.1	76.1	76.0	75.7	75.8	75.9	74.4	77.2	70.9
26	75.6	75.9	75.7	75.8	75.9	75.9	75.7	76.0	74.3	72.7	71.0	63.1	63.2	58.5	59.4	62.5	75.1	79.9	78.5	78.9	78.5	78.1	78.0	78.4	73.2	79.9	58.5
27	78.6	79.2	79.6	80.7	81.1	81.9	82.1	82.2	82.7	80.7	76.5	72.6	72.4	75.9	74.6	68.0	68.3	67.7	73.2	74.0	74.2	72.8	74.7	78.4	76.3	82.7	67.7
28	80.9	80.7	81.2	80.4	81.9	82.5	82.5	83.0	83.4	81.8	79.1	75.5	71.8	72.3	70.9	69.9	69.9	71.6	73.3	75.8	78.8	82.6	85.0	85.2	78.3	85.2	69.9
29	86.4	84.7	78.4	76.5	76.1	74.7	73.9	73.7	73.8	74.4	74.5	74.6	74.3	74.3	74.9	75.1	75.3	73.8	73.9	73.3	73.2	71.5	71.0	70.5	75.1	86.4	70.5
30	70.4	69.2	68.2	69.0	70.4	72.8	74.6	75.0	74.2	69.0	65.2	66.5	63.1	63.3	72.3	69.3	73.6	74.5	73.5	73.5	73.2	72.3	71.6	71.4	70.7	75.0	63.1
31	71.2	71.7	71.7	72.8	72.7	73.2	72.7	71.9	70.9	75.7	69.8	74.0	71.6	65.3	61.6	69.3	79.5	81.7	80.6	79.2	77.9	76.0	75.2	75.1	73.4	81.7	61.6
Avg	79.6	79.3	78.9	78.6	78.8	79.0	79.5	79.1	78.4	76.7	74.1	72.0	69.2	66.1	65.1	66.9	71.7	75.1	76.1	77.6	79.0	79.1	79.4	79.6	75.8	84.5	61.1
Max	91.4	91.7	91.7	92.0	92.1	92.1	92.1	91.9	92.1	91.2	91.1	91.3	88.7	89.4	90.2	89.4	90.2	91.3	89.3	87.7	87.5	89.0	90.5	90.6	87.4	92.1	79.0
Min	69.9	66.5	63.2	63.9	59.9	62.8	66.3	65.9	64.3	60.0	58.4	57.2	46.4	29.3	28.7	30.3	31.3	36.9	36.2	44.0	53.6	60.1	63.9	65.3	60.2	75.0	28.7

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
October 2017

[illegible]

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
November 2017

[illegible]

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
December 2017

[illegible]

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APPENDIX B: PERFORMANCE AUDIT REPORTS
FOURTH QUARTER 2017



BISON ENGINEERING, INC.

Bison Engineering

Preliminary Meteorological Parameters Audit Form

Audit Dates: 12/06/2017 Tower Lowered : 12:00 MST Tower Back Up : 14:50 MST
 Client: Tintina Resources
 Site: Black Butte
 AUDITOR: Steve Heck PRECEDING CALIBRATION BY: Jeff Bell

Temperature

Audit Device: Control Company - digital thermometer Model 4000
 Meter S/N: 91255639 Temperature Sensor: Climatronics 100093
 Last certified: 08/22/2017 S/N P12535 (Upper), S/N P12535 (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
0.00	0.09	0.09	0.15	0.15	-0.06
16.99	16.89	-0.10	16.95	-0.04	-0.06
34.56	34.73	0.17	34.71	0.15	0.02

Wind Direction

		Linearity Check from DAS			
Sensor height:	9 Meter	Setpoint	Clockwise	Counter-CW	Diff CW
Sensor (Make/model number):	Climatronics/ 102083	0	0.3	0.3	0.3
Serial Number :	P1336C	30	31.2	31.4	1.2
Crossarm orientation (from Garmin GPS):	0.3 / 180.3	60	61.4	61.3	1.4
GPS location at sensor:		90	91.5	91.5	1.5
N 46 deg 46.374 min, W 110 deg 52.886 min		120	121.2	121.2	1.2
GPS location at sighting point:		150	151.1	151.1	1.1
N 46 deg 46.313 min, W 110 deg 52.886 min		180	180.9	180.9	0.9
Sensor response aligned with crossarm (as found):	181.4	210	210.4	210.4	0.4
Sensor response aligned with crossarm (as left):	180.7	240	240.4	240.3	0.4
		270	269.7	270.0	-0.3
		300	299.6	299.6	-0.4
		330	329.9	330.3	-0.1
				Max Diff	1.5

Linearity Audit Device: Climatronics 101966, SN 70
 Threshold Torque: 0.08 oz.-in.
 (Waters Model 366-1 torque watch)

Wind Speed

Sensor height: 9 Meter
 Sensor (Make/model number): Climatronics/ 102083
 Serial Number : P1336C
 Calibration device: Weathertronics 300 rpm synchronous motor
 Weathertronics 600 rpm synchronous motor

Synchronous motor checks

Known	Known	DAS	DAS
Value	Value	Value	Diff.
RPM	m/s	m/s	m/s
0	0.22	0.22	0.00
300	6.66	6.65	-0.01
600	13.09	13.09	0.00

Threshold Torque: 0.004 oz.-in.
 (Waters Model 366-3 torque watch)

Solar Radiation

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley October 2017)

Time (MST)	CTS Value (W/m2)	Site Value (W/m2)	Diff. (%)	Diff. (% FS)
1430	257	275	7.0	1.4
1435	159	159	0.0	0.0
1442	244	261	7.0	1.3
1451	200	213	6.5	1.0

Relative Humidity

Site Sensor: Met One 083E-0-35
Sensor Height: 2 meters
Reference Std: Assmann Psychrometer, thermometer calibrations checked March 2017

Ref Dry-Bulb: -4.1 deg C BP = 24.78 in. Hg
Ref Wet-Bulb: -6.2 deg C
Ref RH: 59.9 %RH
Station RH: 55.7 %RH
Diff: -4.2 %RH

Barometric Pressure

Audit Device: Wallace & Tiernan Model FA185260, S/N LL03297.
Checked against Bison Mercury barometer (Butte) November 2017

Audit Value: 24.78 in Hg
Station Value: 24.72 in Hg
Diff: -0.06 in Hg

Precipitation

Rain Gauge = Met One Model 375
Level checked OK
Wind Screen in place
8" opening

Precip audit performed during hour ending at 1500 MST

559 ml water added
Calibration is 8.24 ml per tip
Known audit value is $559 / 8.24 = 67.8$ tips (so 67 full tips expected)

Unit registered 68 tips
% difference from expected = 1.5%

Signature Site Operator : _____

Signature Auditor : 