

**TINTINA RESOURCES, INC.
BLACK BUTTE COPPER
PROJECT AMBIENT AIR
MONITORING PROGRAM
Quarterly Data Report
Second Quarter 2015**

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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: Hourly Meteorological Data
- Appendix B: Performance Audit Reports
- Appendix C: Evaporation and Precipitation Summary

1.0 INTRODUCTION

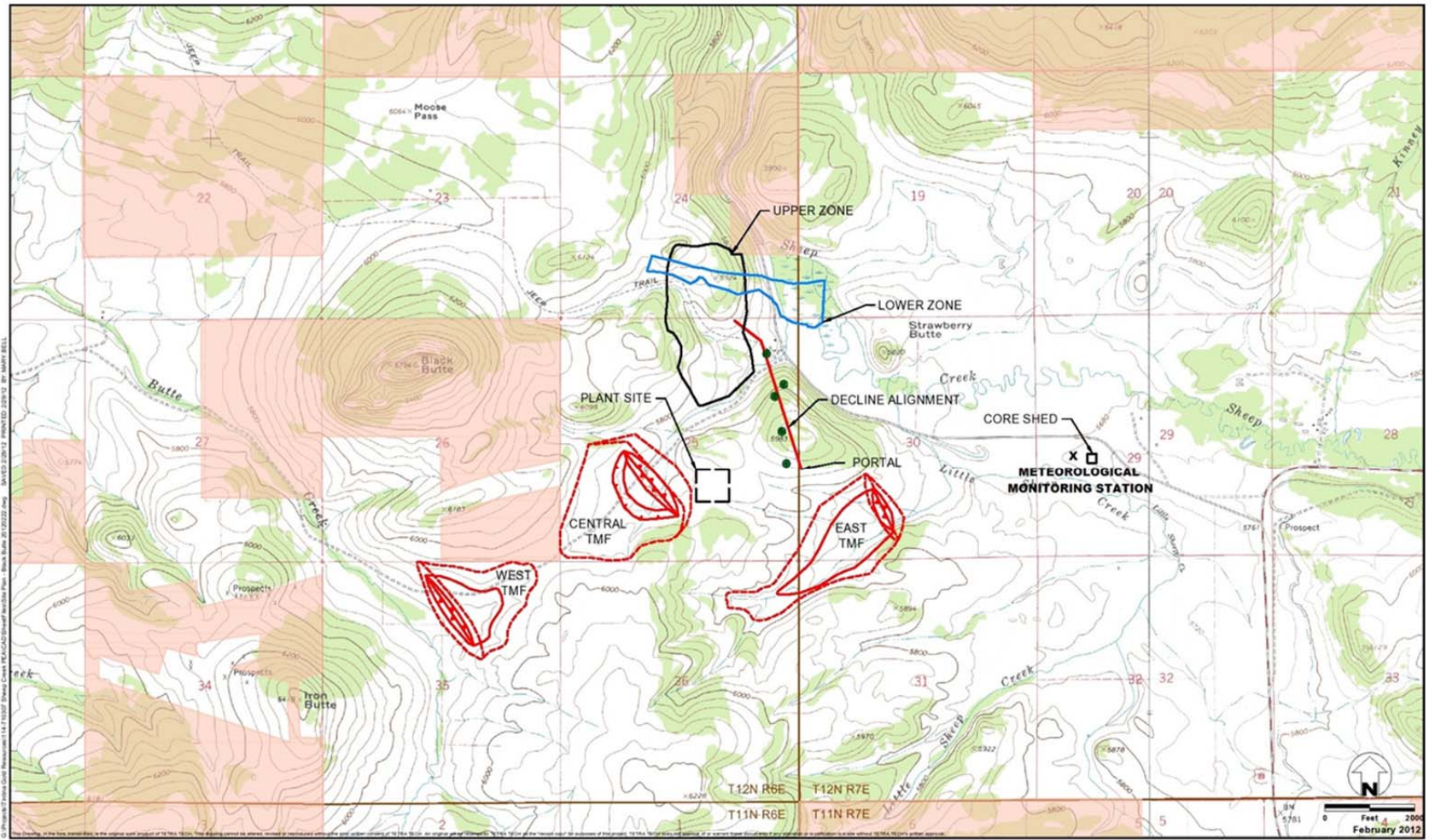
Tintina Resources, Inc. established an ambient air monitoring site to measure wind speed, wind direction, standard deviation of wind direction, temperature at 9 meters and 2 meters, delta temperature, solar radiation, barometric pressure, and precipitation. The station was established to accurately characterize 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 second quarter (April through June) of 2015. 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



- ADIT ALIGNMENT HOLES
- TAILINGS MANAGEMENT FACILITY
- USFS PROPERTY

Site Plan
Black Butte Copper Project
Meagher County, Montana
FIGURE 1

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 parameters were in full operation and producing valid data by April 30, 2012. An evaporation pan and manual precipitation gauge were added to the system on June 23, 2015.

Jeff Bell of Bison conducted performance audits of the meteorological system on June 18, 2015, and made any necessary calibration adjustments to the meteorological system following the audits. Both temperature sensors were replaced and calibrated after the audits were completed. 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.

3.0 CALIBRATION DATA

As discussed in Section 4.0, the system's as-found condition was audited on June 18, 2015. Both temperature sensors were replaced and calibrated after the audits were completed. See audit form in appendix B for the results of the calibration.

Otherwise, no calibration adjustments were made to the meteorological system.

4.0 PERFORMANCE AUDIT DATA

Jeff Bell of Bison conducted performance audits of the meteorological system on June 18, 2015. Both temperature sensors were replaced and calibrated after the audits were completed. Otherwise, no calibration adjustments were made to the system. The Bison report of the audits is presented in Appendix B.

5.0 DATA COMPLETENESS

The meteorological percentages of data recovery achieved during the second quarter of 2015 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 second quarter the net percentage data recovery was 99.7 percent for wind speed and 100.0 percent for all other parameters at the site. The loss of data was due to the wind speed cups being frozen in place because of weather.

Table 1. Monthly Data Completeness

April 2015					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	714	99.2	0	99.2
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	7,194	99.9	0	99.9

Table 1. Monthly Data Completeness (Continued)

May 2015					
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)

June 2015					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	720	716	99.4	4	100.0
Wind Direction	720	716	99.4	4	100.0
Standard Deviation	720	716	99.4	4	100.0
Temperature 9 Meters	720	716	99.4	4	100.0
Temperature 2 Meters	720	716	99.4	4	100.0
Temperature Delta T	720	716	99.4	4	100.0
Solar Radiation	720	716	99.4	4	100.0
Barometric Pressure	720	716	99.4	4	100.0
Relative Humidity	720	716	99.4	4	100.0
Precipitation	720	716	99.4	4	100.0
Total	7,200	7,160	99.4	40	100.0

Table 2. Quarterly Data Completeness

Second Quarter 2015					
Parameter	Readings Possible	Valid Readings	Percentage Recovery	Quality Assurance Hours	Net Percentage Recovery
Black Butte Copper Project Met Tower					
Wind Speed	2,184	2,174	99.5	4	99.7
Wind Direction	2,184	2,180	99.8	4	100.0
Standard Deviation	2,184	2,180	99.8	4	100.0
Temperature 9 Meters	2,184	2,180	99.8	4	100.0
Temperature 2 Meters	2,184	2,180	99.8	4	100.0
Temperature Delta T	2,184	2,180	99.8	4	100.0
Solar Radiation	2,184	2,180	99.8	4	100.0
Barometric Pressure	2,184	2,180	99.8	4	100.0
Relative Humidity	2,184	2,180	99.8	4	100.0
Precipitation	2,184	2,180	99.8	4	100.0
Total	21,840	21,794	99.8	40	100.0

Table 3. Periods of Missing Data

First Quarter 2015						
Starting Date/Hour	Ending Date/Hour	Site	Parameter	Total Hours	Percent of Month	Circumstance
Apr 25/3	Apr 25/8	Met Tower	Wind Speed	6	0.27	Missing data: Cups frozen in place.

6.0 MONITORING DATA

The hourly data values collected at the monitoring sites 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 4.

Monthly and quarterly wind rose distributions from the monitoring site are presented in Tables 5 through 8. 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.

A separate compilation of data collected from the evaporation pan and manual rain gauge is presented in Appendix C. For comparison purposes, the precipitation amounts reported by the automatic rain gauge over the same time periods are provided. Overall, the precipitation amounts obtained from the manual gauge were very similar to those reported by the automated gauge.

Table 4. 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 5. Monthly Wind Rose Summary, Black Butte Copper Project Met Tower

April 2015																		
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total	
Wind Speed (meters per second)	0.1 - 1.0	0.6	1.1	1.3	1.4	1.9	1.7	2.6	1.3	0.8	0.6	0.4	0.3	0.4	0.8	2.2	1.5	18.9
	1.1 - 2.0	0.6	0.6	0.6	1.8	2.9	4.2	3.3	1.8	0.6	0.3	0.4	0.4	1.1	1.3	2.1	0.1	21.9
	2.1 - 3.0	0.1	0.1	0.4	0.6	2.8	2.1	0.1	0.7	0.6	0.0	0.4	0.7	1.4	2.5	1.8	0.3	14.6
	3.1 - 4.0	0.0	0.4	0.4	1.0	0.6	0.0	0.4	0.6	0.4	0.3	0.6	2.4	3.3	1.9	1.1	0.4	13.8
	4.1 - 5.0	0.3	0.1	0.0	0.3	0.4	0.0	0.0	1.0	0.7	0.4	0.1	1.4	2.2	2.1	1.1	0.4	10.6
	5.1 - 6.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.3	0.6	0.8	1.5	1.5	0.8	0.1	7.4
	6.1 - 7.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	1.0	1.5	1.3	0.0	0.3	4.9
	7.1 - 8.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	1.5	0.4	0.3	0.1	3.2
	8.1 - 9.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.1	0.1	0.3	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	0.0	0.0	1.1	0.1	0.0	0.0	1.3
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.1	0.0	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	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Calm																		0.0
Total	2.1	2.9	2.6	5.0	8.6	7.9	6.5	6.7	3.2	2.2	3.1	7.5	16.4	12.2	9.7	3.3	100.0	
Average Speed	2.8	2.7	1.7	2.0	1.9	1.6	1.3	3.0	2.6	3.6	3.9	4.4	5.5	4.0	2.8	2.8	3.2	

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

May 2015																		
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total	
Wind Speed (meters per second)	0.1 - 1.0	0.4	0.7	0.7	0.8	1.6	1.3	0.9	0.7	0.4	1.2	0.1	0.1	0.1	0.4	0.4	1.3	11.3
	1.1 - 2.0	0.4	0.4	2.0	1.9	3.0	3.6	3.4	1.9	0.9	0.8	0.3	0.9	0.8	1.3	0.7	0.8	23.1
	2.1 - 3.0	0.3	0.1	0.3	1.3	2.2	2.8	1.1	1.6	0.7	0.3	0.4	0.1	1.2	0.7	0.5	0.5	14.1
	3.1 - 4.0	0.9	0.3	0.3	2.0	1.5	1.2	2.8	2.8	0.7	0.3	0.5	0.4	0.5	0.4	1.6	1.5	17.7
	4.1 - 5.0	0.8	0.3	0.4	1.1	1.2	0.5	3.0	2.6	0.5	0.1	0.1	1.1	0.7	0.8	0.9	1.2	15.3
	5.1 - 6.0	0.3	0.1	0.0	1.1	0.5	0.5	1.2	2.3	0.0	0.0	0.1	0.0	0.5	0.3	0.4	0.5	7.9
	6.1 - 7.0	0.0	0.1	0.0	0.1	0.1	0.0	1.1	2.0	0.0	0.1	0.0	0.3	0.4	0.4	0.0	0.1	4.8
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.6
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.5	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	3.1
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Calm																		0.0
Total	3.1	2.0	3.6	8.3	10.1	10.1	15.3	16.7	3.2	2.8	1.6	3.4	4.7	4.4	4.6	6.0	100.0	
Average Speed	3.2	2.5	1.9	3.1	2.5	2.3	4.0	4.7	2.6	1.8	3.0	3.9	4.0	3.3	3.3	3.0	3.4	

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

		June 2015																	
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	1.5	1.0	1.0	0.3	1.4	1.5	1.0	0.3	0.4	0.6	0.1	0.4	0.3	0.4	1.0	0.8	12.0	
	1.1 - 2.0	2.1	1.1	2.8	3.9	4.8	4.3	3.4	1.4	0.3	0.8	0.6	0.4	0.6	0.7	0.8	1.4	29.4	
	2.1 - 3.0	0.6	0.3	1.5	3.2	4.9	1.7	0.8	1.1	0.4	0.4	0.3	0.8	1.5	2.1	2.1	1.3	23.1	
	3.1 - 4.0	0.3	0.3	0.4	1.4	1.3	0.3	0.4	0.7	0.4	0.1	0.8	1.8	2.7	2.5	1.5	0.3	15.2	
	4.1 - 5.0	0.0	0.3	0.4	0.0	0.1	0.3	0.3	0.3	0.1	0.0	0.3	2.0	1.7	1.8	1.5	0.6	9.7	
	5.1 - 6.0	0.0	0.3	0.0	0.1	0.3	0.1	0.6	0.1	0.0	0.0	0.3	0.0	0.8	1.1	0.3	1.0	0.4	5.5
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.3	0.0	1.7
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.1	0.0	0.6	0.4	0.3	0.0	2.1
	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	0.0	0.7	0.0	0.1	0.0	0.8
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.0	0.6
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	0.0	
Calm																		0.0	
Total		4.5	3.2	6.2	9.0	12.7	8.3	7.3	4.5	1.7	2.2	2.2	6.4	9.8	8.4	9.0	4.8	100.0	
Average Speed		1.4	2.1	1.9	2.2	2.2	1.8	2.7	3.0	2.4	2.0	3.0	3.7	4.4	3.5	3.7	2.6	2.8	

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

Second Quarter 2015																		
Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total	
Wind Speed (meters per second)	0.1 - 1.0	0.8	0.9	1.0	0.8	1.7	1.5	1.5	0.7	0.6	0.8	0.2	0.3	0.3	0.6	1.2	1.2	14.0
	1.1 - 2.0	1.0	0.7	1.8	2.5	3.5	4.0	3.4	1.7	0.6	0.6	0.4	0.6	0.8	1.1	1.2	0.8	24.8
	2.1 - 3.0	0.3	0.2	0.7	1.7	3.3	2.2	0.7	1.1	0.6	0.2	0.4	0.6	1.4	1.7	1.5	0.7	17.2
	3.1 - 4.0	0.4	0.3	0.4	1.5	1.1	0.5	1.2	1.4	0.5	0.2	0.6	1.5	2.2	1.6	1.4	0.7	15.6
	4.1 - 5.0	0.4	0.2	0.3	0.5	0.6	0.3	1.1	1.3	0.5	0.2	0.2	1.5	1.5	1.6	1.2	0.7	11.9
	5.1 - 6.0	0.2	0.1	0.0	0.4	0.3	0.2	0.6	1.2	0.0	0.2	0.2	0.6	1.1	0.7	0.7	0.4	6.9
	6.1 - 7.0	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.8	0.6	0.1	0.1	3.8
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.1	0.1	0.1	0.7	0.3	0.2	0.0	2.3
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.1	0.2	0.7	0.0	0.1	0.0	2.1
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.8
	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	0.5
	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	3.2	2.7	4.1	7.4	10.5	8.8	9.8	9.4	2.7	2.4	2.3	5.7	10.2	8.3	7.7	4.7	100.0	
Average Speed	2.3	2.4	1.9	2.5	2.2	2.0	3.1	4.0	2.5	2.4	3.4	4.1	4.9	3.7	3.3	2.8	3.1	

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

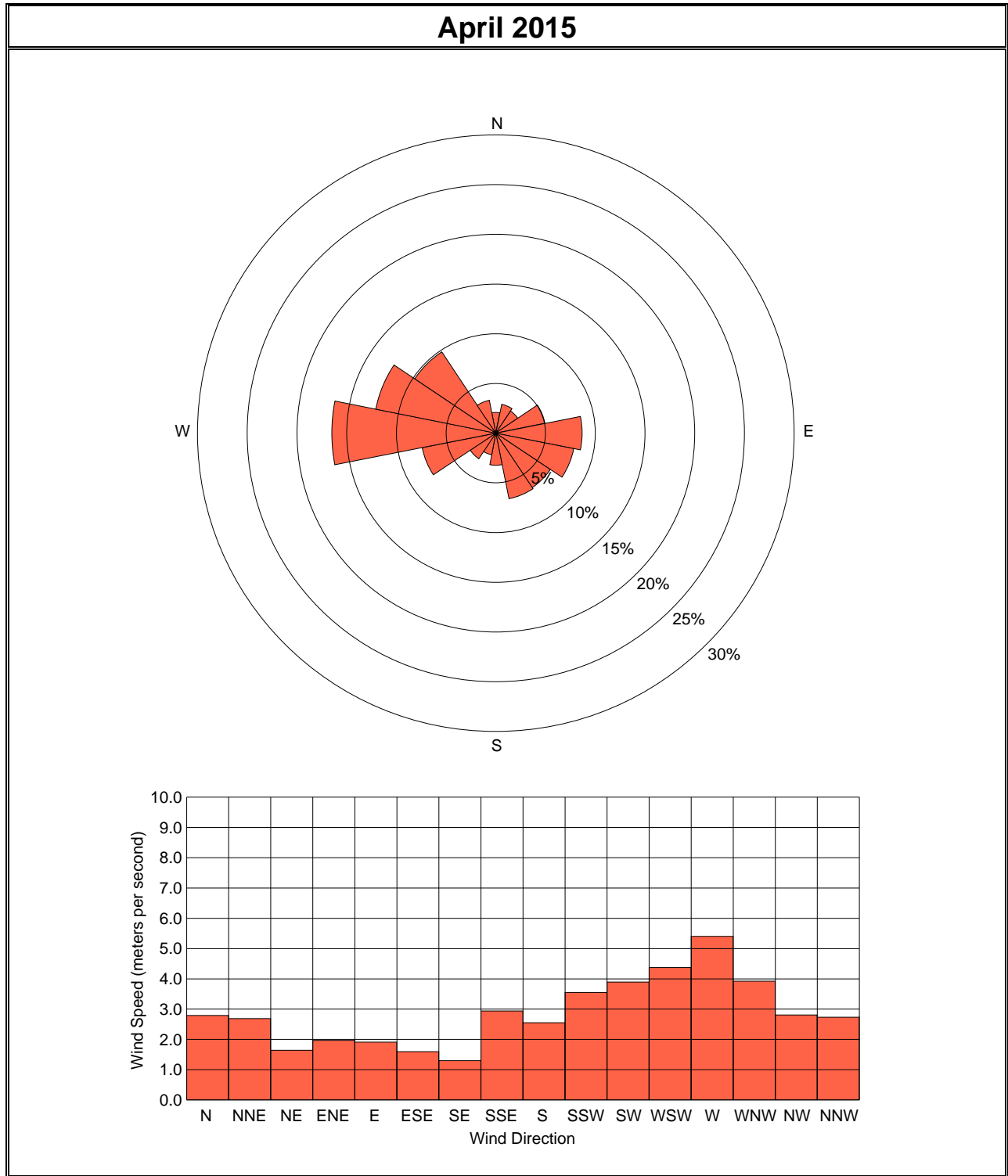


Figure 3. Monthly Wind Rose, Black Butte Copper Project Met Tower

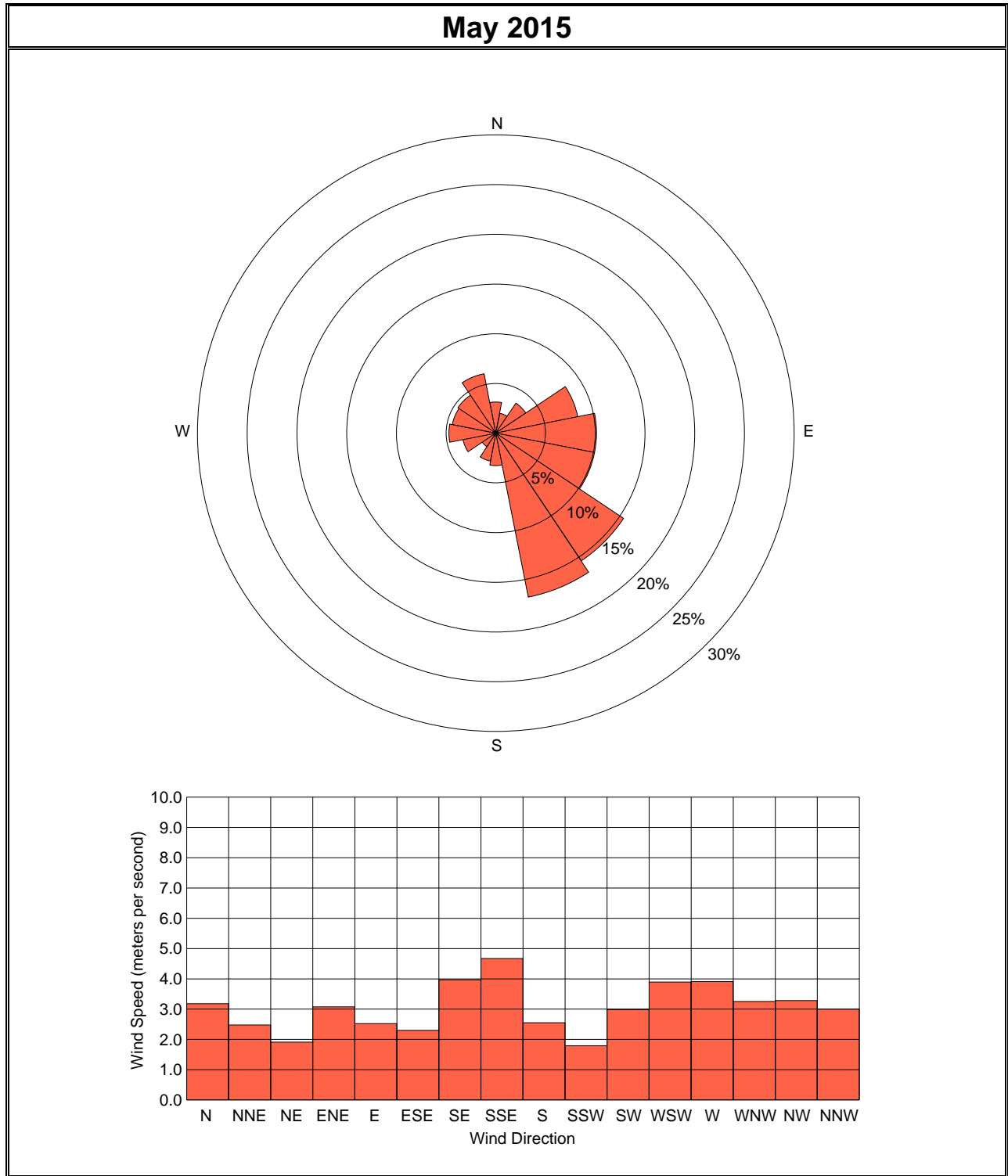


Figure 4. Monthly Wind Rose, Black Butte Copper Project Met Tower

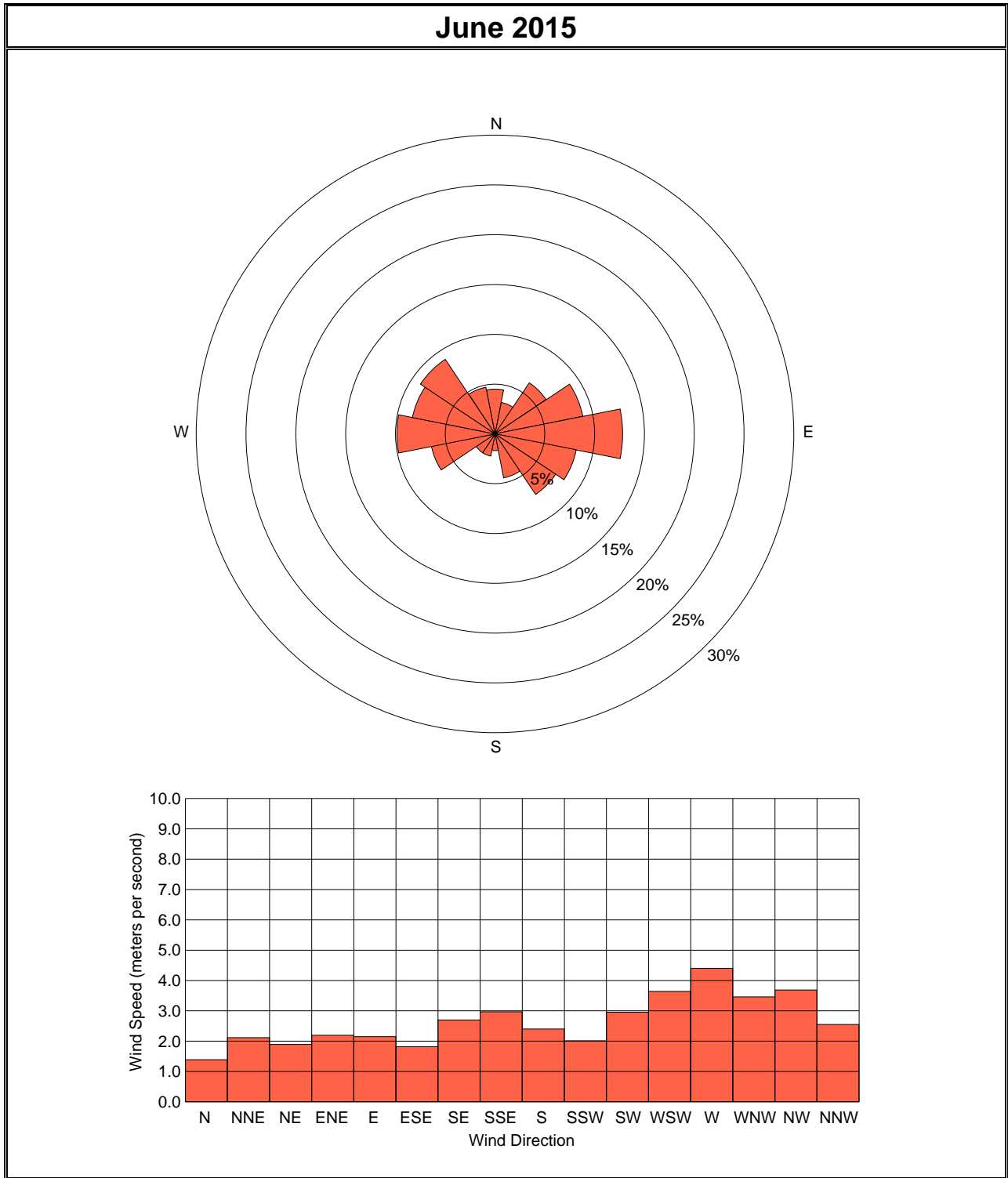
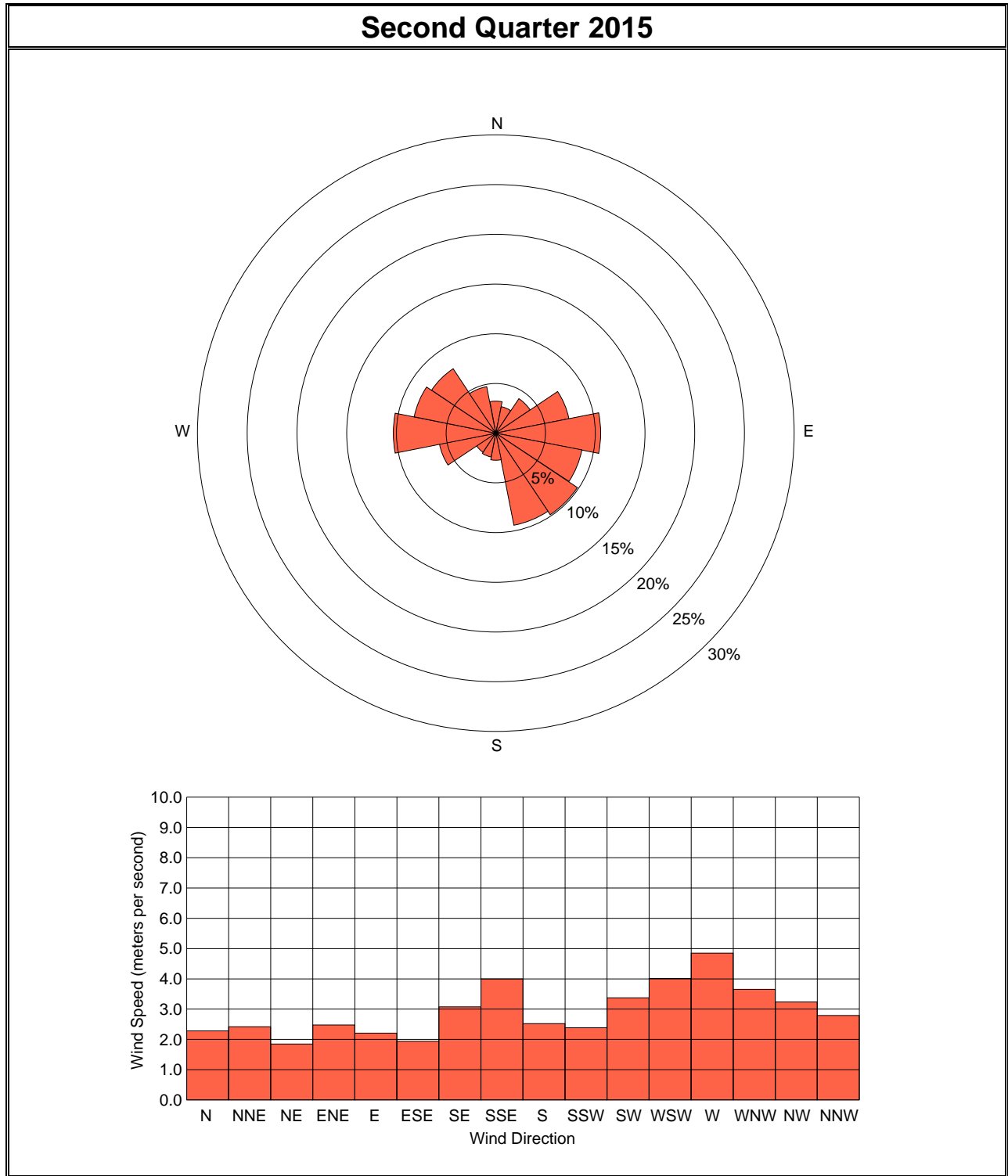


Figure 5. Quarterly Wind Rose, Black Butte Copper Project Met Tower



**APPENDIX A: HOURLY METEOROLOGICAL DATA, SECOND
QUARTER 2015**

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
April 2015

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	5.0	5.4	6.3	7.4	7.3	7.6	4.4	7.2	10.1	10.6	9.3	9.4	10.2	9.9	10.1	10.0	10.3	9.9	8.8	6.9	5.2	3.6	3.8	5.2	7.7	10.6	3.6	
2	4.8	3.8	3.7	4.6	3.4	3.6	1.9	3.1	4.9	4.4	5.3	4.6	4.4	5.1	4.7	3.6	4.5	4.7	4.2	3.6	2.1	1.5	1.1	0.9	3.7	5.3	0.9	
3	1.5	1.2	1.1	0.8	1.0	1.0	1.6	0.9	4.2	6.2	6.1	5.6	6.3	6.3	5.3	4.8	3.9	4.8	4.5	2.6	1.2	1.7	2.4	1.0	3.2	6.3	0.8	
4	3.0	1.0	1.4	0.8	1.0	1.0	0.8	0.9	1.6	5.2	2.5	2.3	4.1	5.5	5.8	3.6	3.9	6.0	2.7	0.7	0.7	1.0	0.8	0.8	2.4	6.0	0.7	
5	0.7	0.8	0.7	0.9	0.6	0.6	0.5	0.6	0.8	0.9	1.5	2.0	2.5	1.6	2.0	2.7	1.8	1.9	2.3	2.3	2.6	1.7	3.1	3.9	1.6	3.9	0.5	
6	4.4	4.9	5.0	4.8	5.3	5.5	5.9	6.3	5.8	6.3	5.4	3.8	2.9	2.7	4.6	5.2	2.9	1.4	0.8	2.4	3.3	1.3	0.8	1.9	3.9	6.3	0.8	
7	1.2	1.3	0.9	0.7	0.7	0.6	0.4	0.3	0.4	0.7	2.9	3.4	3.2	2.8	2.5	1.8	2.2	1.4	2.4	1.5	1.9	3.7	2.3	0.7	1.7	3.7	0.3	
8	0.7	0.7	0.6	0.9	0.9	1.1	0.9	0.8	1.9	3.8	4.4	2.5	2.9	3.1	3.8	3.7	4.7	3.6	4.6	2.1	1.1	1.0	1.0	0.9	2.2	4.7	0.6	
9	0.6	0.4	0.7	0.9	1.1	0.7	1.0	0.6	0.7	1.3	3.2	4.0	4.2	3.4	3.4	3.4	3.4	2.6	1.8	1.6	2.3	1.8	1.9	2.3	2.0	4.2	0.4	
10	1.6	1.7	1.4	1.3	0.7	1.1	1.2	0.7	1.7	4.8	5.3	4.7	6.0	5.2	7.0	7.2	5.6	3.3	3.5	1.1	2.1	2.9	1.6	1.4	3.0	7.2	0.7	
11	1.7	1.1	1.5	2.1	1.4	1.3	1.0	0.9	3.3	5.8	8.7	8.1	7.7	8.3	8.4	8.2	9.8	6.5	7.5	4.9	4.9	7.9	7.9	8.2	5.3	9.8	0.9	
12	7.3	5.1	4.3	3.6	5.0	4.8	6.8	8.9	9.4	10.7	9.8	8.9	10.7	11.2	10.2	10.0	9.0	8.0	7.2	6.4	5.8	7.0	5.9	6.5	7.6	11.2	3.6	
13	5.7	1.6	1.8	1.8	1.4	1.5	1.4	1.6	1.3	3.8	5.0	4.6	3.6	6.0	7.1	7.2	7.1	6.4	4.1	4.1	4.8	4.3	4.7	5.8	4.0	7.2	1.3	
14	3.1	2.5	1.4	0.9	1.4	2.6	4.3	5.1	5.5	5.4	7.3	8.6	6.9	3.4	4.0	10.2	4.8	5.7	6.8	7.4	6.1	5.7	6.8	6.1	5.1	10.2	0.9	
15	4.2	6.0	5.5	5.3	6.8	8.3	8.4	5.4	4.5	3.8	5.4	5.2	6.5	6.6	7.2	7.3	5.8	5.5	1.9	1.0	1.4	1.7	1.6	1.7	4.9	8.4	1.0	
16	1.2	1.1	1.1	0.8	0.8	1.0	0.8	0.5	0.7	0.6	1.3	1.5	2.3	2.6	2.3	2.3	2.5	2.2	1.8	2.6	4.0	3.3	2.6	2.0	1.7	4.0	0.5	
17	1.9	1.2	1.2	0.8	0.5	0.7	0.8	0.6	0.9	1.6	3.1	4.5	3.4	2.8	3.1	3.1	3.4	3.9	2.5	2.5	4.2	4.0	2.9	2.3	2.3	4.5	0.5	
18	1.7	1.0	1.4	0.7	0.5	0.9	0.7	0.7	4.0	8.3	8.0	7.4	6.1	5.0	5.4	6.7	8.1	6.9	4.8	2.7	1.8	1.2	1.9	1.2	3.6	8.3	0.5	
19	1.3	0.5	0.7	0.7	0.7	0.8	0.4	0.7	1.1	2.1	2.4	2.3	3.7	3.2	2.6	3.9	4.2	3.2	3.3	1.2	1.3	1.8	0.9	1.2	1.8	4.2	0.4	
20	1.0	1.0	0.6	1.1	1.3	0.9	0.9	0.6	1.0	4.1	5.3	6.2	5.9	6.3	6.5	6.6	6.0	5.6	4.3	1.5	2.3	2.1	2.4	1.9	3.1	6.6	0.6	
21	1.6	1.2	1.0	0.6	1.0	0.9	1.4	0.6	0.7	2.5	2.7	3.8	2.9	2.9	2.7	3.3	2.5	2.5	2.2	2.6	4.9	4.3	1.2	1.6	2.1	4.9	0.6	
22	1.7	1.7	2.1	1.9	1.4	0.6	1.2	0.5	0.7	1.8	3.1	3.7	4.8	3.6	4.5	4.3	7.2	8.7	2.8	3.3	6.5	1.6	1.5	1.0	2.9	8.7	0.5	
23	1.7	1.4	1.3	1.0	1.0	1.2	0.6	0.8	1.1	2.8	4.3	4.4	4.1	4.4	3.6	3.7	4.4	4.5	2.6	1.7	1.4	2.7	2.0	2.0	2.4	4.5	0.6	
24	1.6	1.9	2.4	1.3	1.4	0.5	0.8	0.7	0.8	1.3	3.5	3.0	2.9	3.2	4.0	4.7	3.8	2.6	5.5	4.1	2.5	1.8	1.2	1.7	2.4	5.5	0.5	
25	1.7	0.7	Wx	Wx	Wx	Wx	Wx	Wx	Wx	1.5	2.3	2.6	3.8	2.9	2.9	4.0	4.0	3.1	2.9	3.1	1.0	1.4	0.8	1.1	1.3	2.3	4.0	0.7
26	0.8	1.4	2.6	3.6	2.8	2.5	3.3	3.4	1.8	0.9	2.2	3.2	4.9	3.8	2.8	3.7	4.6	3.9	3.4	2.4	1.5	1.2	1.2	1.6	2.6	4.9	0.8	
27	0.7	1.2	0.6	0.7	0.7	0.7	0.5	0.6	1.2	2.4	3.7	4.7	3.6	3.8	3.6	3.8	3.5	3.1	2.5	2.0	4.3	3.1	2.9	2.4	2.3	4.7	0.5	
28	1.9	1.6	1.5	1.6	1.9	1.6	1.5	0.9	3.4	2.0	2.3	3.5	4.1	3.5	3.4	2.5	2.3	2.1	1.7	2.6	4.0	4.3	3.4	2.2	2.5	4.3	0.9	
29	2.3	2.5	2.1	1.8	2.3	2.1	2.3	1.1	1.3	3.1	3.5	4.9	4.5	3.5	4.0	5.7	5.8	4.4	4.8	3.0	2.4	2.6	0.9	1.6	3.0	5.8	0.9	
30	1.8	1.7	1.0	1.1	1.2	1.0	1.2	2.7	4.9	5.8	5.5	5.9	5.9	6.7	6.3	7.3	6.9	6.7	4.3	3.7	1.9	2.9	1.8	1.5	3.7	7.3	1.0	
Avg	2.3	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.7	3.8	4.5	4.7	4.8	4.6	4.8	5.2	4.9	4.5	3.8	2.9	3.0	2.8	2.5	2.4	3.3	6.2	0.9	
Max	7.3	6.0	6.3	7.4	7.3	8.3	8.4	8.9	10.1	10.7	9.8	9.4	10.7	11.2	10.2	10.2	10.3	9.9	8.8	7.4	6.5	7.9	7.9	8.2	7.7	11.2	3.6	
Min	0.6	0.4	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.6	1.3	1.5	2.3	1.6	2.0	1.8	1.8	1.4	0.8	0.7	0.7	0.8	0.8	0.7	1.6	3.7	0.3	

A-1

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
May 2015

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	1.6	1.4	1.4	1.5	1.9	0.9	0.9	1.0	1.3	3.6	4.4	3.3	4.9	5.9	6.8	7.1	6.3	5.6	4.1	2.5	1.0	2.0	2.9	3.1	7.1	0.9
2	2.3	2.4	1.5	1.5	1.0	0.8	0.5	0.6	5.6	8.1	9.5	8.7	8.4	8.9	8.4	6.8	6.9	6.7	4.6	2.2	1.1	1.3	1.9	1.1	4.2	9.5	0.5
3	1.4	0.8	1.3	1.1	0.6	0.6	0.7	3.2	4.1	3.4	3.1	2.8	2.8	4.1	3.5	2.0	5.1	5.7	5.4	3.8	1.8	1.4	2.0	1.9	2.6	5.7	0.6
4	2.2	1.7	1.3	0.9	0.9	0.8	0.8	0.7	3.3	2.9	4.1	4.1	3.4	4.3	5.0	4.6	4.0	3.9	2.7	2.6	3.4	3.1	2.1	2.0	2.7	5.0	0.7
5	1.6	1.2	1.4	1.1	1.0	0.9	0.9	0.8	1.7	3.3	3.0	3.1	3.6	3.3	6.1	4.9	3.2	3.3	2.2	2.2	2.8	1.0	1.0	1.3	2.3	6.1	0.8
6	0.9	1.0	1.0	2.6	3.6	3.9	3.6	3.9	3.7	4.5	5.9	4.4	4.2	3.3	3.8	4.4	5.2	6.8	4.5	4.0	4.1	4.9	5.5	5.5	4.0	6.8	0.9
7	5.0	4.6	1.9	4.8	5.5	6.0	5.6	4.5	2.7	2.5	3.3	2.8	3.5	5.7	6.1	6.3	4.7	4.9	3.7	3.7	3.1	3.4	1.6	1.3	4.0	6.3	1.3
8	1.1	1.6	1.2	0.7	0.6	0.6	0.6	0.7	2.1	4.7	3.8	2.3	2.9	2.4	1.6	3.3	1.9	1.1	0.9	0.9	0.6	1.1	1.4	1.4	1.6	4.7	0.6
9	1.5	1.5	1.7	1.5	1.1	1.3	0.6	1.0	4.7	6.7	6.0	6.3	5.2	2.4	4.8	7.0	4.9	5.2	6.2	5.0	2.3	1.4	1.2	1.2	3.4	7.0	0.6
10	1.4	1.4	0.9	0.7	1.0	0.6	0.6	0.6	1.8	3.2	3.6	4.5	4.7	3.4	3.9	3.1	5.0	5.2	3.6	3.3	3.4	3.8	1.2	1.2	2.6	5.2	0.6
11	0.9	1.3	1.0	1.2	1.2	1.3	0.6	0.7	1.8	1.5	2.4	3.4	3.2	3.0	2.5	1.6	2.9	2.5	3.3	4.4	4.3	5.5	4.5	3.0	2.4	5.5	0.6
12	2.0	1.2	2.7	2.8	1.8	1.2	2.9	4.2	4.4	6.1	6.1	3.7	6.0	5.2	5.4	3.8	5.0	4.9	3.1	3.8	3.7	3.3	3.5	2.1	3.7	6.1	1.2
13	1.9	3.1	3.2	3.4	3.9	3.1	5.4	5.7	7.5	7.9	9.0	6.3	4.4	3.8	4.1	4.1	4.7	3.9	4.2	3.8	3.5	1.8	1.6	2.5	4.3	9.0	1.6
14	1.4	1.3	1.4	0.8	3.1	3.3	3.0	3.0	7.4	7.7	8.1	8.7	7.5	8.5	10.1	8.0	4.0	4.0	6.3	4.0	4.2	3.9	3.8	4.8	4.9	10.1	0.8
15	3.4	5.2	3.8	3.8	2.7	4.4	4.0	5.3	5.4	6.0	8.6	6.8	5.5	6.5	5.4	5.2	4.0	5.6	4.3	2.8	1.9	1.4	0.9	3.1	4.4	8.6	0.9
16	3.7	3.6	3.8	3.8	1.3	1.3	2.6	4.1	3.9	3.5	3.2	5.2	5.2	4.2	4.6	3.4	4.6	5.8	5.8	5.8	5.4	4.4	3.7	2.5	4.0	5.8	1.3
17	3.8	4.2	3.0	2.0	2.3	1.9	4.1	3.5	3.9	4.4	4.7	2.9	4.1	4.5	6.5	5.1	4.3	4.0	4.7	2.2	2.2	2.0	1.4	1.3	3.5	6.5	1.3
18	1.4	1.2	2.1	4.8	4.5	2.7	4.1	4.8	6.0	7.3	8.1	8.5	8.8	9.1	9.1	8.7	8.2	5.8	4.5	4.7	4.8	4.6	4.0	4.0	5.5	9.1	1.2
19	4.2	4.2	3.2	2.7	3.9	4.0	3.3	4.7	4.6	5.4	5.7	8.1	7.0	4.5	4.5	4.4	5.9	6.0	7.4	6.9	3.0	1.9	2.5	2.2	4.6	8.1	1.9
20	3.5	2.3	3.0	4.9	2.5	3.3	5.7	8.0	8.5	8.8	8.0	8.2	8.7	9.2	9.7	9.0	8.5	7.0	6.2	3.9	1.2	1.0	2.1	3.1	5.7	9.7	1.0
21	2.8	2.3	1.3	1.1	0.9	0.9	1.0	2.3	5.5	4.7	4.4	4.4	6.2	6.9	9.0	10.4	7.8	6.9	6.1	4.2	2.3	1.1	2.1	1.8	4.0	10.4	0.9
22	1.2	0.9	0.9	0.7	1.3	1.8	1.0	1.0	1.1	2.0	2.5	3.1	5.5	5.1	6.8	6.4	5.9	6.0	4.4	2.1	1.6	3.5	2.8	1.2	2.9	6.8	0.7
23	1.0	2.0	1.1	1.5	1.0	0.8	1.2	1.0	2.0	3.4	2.5	2.8	2.2	4.3	2.7	3.3	2.0	1.3	1.6	1.6	1.5	1.4	1.2	1.0	1.8	4.3	0.8
24	0.8	1.4	1.1	0.9	0.7	0.9	1.3	1.1	2.4	3.1	2.5	4.2	3.5	4.4	3.9	4.2	3.6	3.5	2.1	1.7	0.9	1.8	2.4	1.8	2.3	4.4	0.7
25	1.9	1.6	1.9	1.1	1.3	0.7	0.9	0.8	1.6	2.9	3.0	2.2	2.5	5.6	5.5	4.0	3.1	5.0	4.2	1.9	3.7	2.6	1.3	1.2	2.5	5.6	0.7
26	1.7	1.2	3.1	1.2	1.0	1.5	0.9	0.8	1.0	0.9	1.4	1.9	2.1	4.5	3.3	4.0	4.6	2.3	3.2	2.2	1.7	2.4	1.8	1.6	2.1	4.6	0.8
27	1.0	1.1	1.2	1.5	1.1	1.8	2.0	2.3	3.1	2.9	4.8	4.0	4.4	5.6	4.2	5.3	4.4	3.8	4.7	5.0	1.8	2.5	1.9	1.6	3.0	5.6	1.0
28	1.5	1.8	1.8	1.5	1.7	0.9	1.0	0.6	0.9	1.6	2.7	1.6	2.0	4.3	5.0	4.8	4.2	4.3	3.7	3.0	3.0	2.9	3.7	3.3	2.6	5.0	0.6
29	2.3	2.0	1.4	1.5	1.2	2.4	1.8	4.0	5.6	4.5	4.2	3.8	4.4	4.3	4.2	4.7	6.2	6.5	6.5	4.1	3.1	4.3	2.4	3.9	3.7	6.5	1.2
30	2.0	1.4	2.3	1.9	1.7	1.7	2.0	2.5	3.3	3.4	1.8	4.0	4.7	4.8	6.8	4.0	2.6	1.3	0.8	0.8	1.8	2.8	2.5	2.5	2.6	6.8	0.8
31	1.9	2.5	2.1	1.2	1.3	1.4	1.1	0.7	0.5	1.1	3.0	4.3	4.9	5.4	6.6	6.3	6.0	4.0	2.1	3.1	2.7	5.3	2.6	3.5	3.1	6.6	0.5
Avg	2.0	2.1	1.9	2.0	1.8	1.9	2.1	2.5	3.6	4.2	4.6	4.6	4.7	5.0	5.5	5.2	4.9	4.6	4.1	3.3	2.7	2.7	2.3	2.3	3.4	6.7	0.9
Max	5.0	5.2	3.8	4.9	5.5	6.0	5.7	8.0	8.5	8.8	9.5	8.7	8.8	9.2	10.1	10.4	8.5	7.0	7.4	6.9	5.4	5.5	5.5	5.5	5.7	10.4	1.9
Min	0.8	0.8	0.9	0.7	0.6	0.6	0.5	0.6	0.5	0.9	1.4	1.6	2.0	2.4	1.6	1.6	1.9	1.1	0.8	0.8	0.6	1.0	0.9	1.0	1.6	4.3	0.5

A-2

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
June 2015

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	2.4	2.0	1.3	2.2	2.3	2.4	1.9	0.9	1.0	1.6	1.5	2.3	2.9	2.2	4.3	5.7	7.6	9.5	4.8	1.9	1.8	3.1	3.7	1.8	3.0	9.5	0.9
2	2.1	2.4	1.6	1.4	1.0	1.3	0.8	1.1	3.1	2.0	2.8	5.7	3.8	4.8	5.9	5.4	2.4	3.7	2.9	1.2	1.4	1.9	0.9	1.4	2.5	5.9	0.8
3	1.1	1.6	2.0	2.6	2.1	1.2	0.8	0.9	1.8	2.4	3.1	3.2	3.8	5.1	2.4	4.5	1.5	2.0	3.0	2.7	6.9	3.3	1.3	2.1	2.6	6.9	0.8
4	2.5	2.4	1.8	1.2	1.0	0.7	0.6	1.0	1.1	1.3	1.8	1.9	2.2	2.2	2.2	4.1	2.8	2.8	2.8	3.8	2.9	2.7	2.4	2.1	2.1	4.1	0.6
5	1.8	2.6	1.4	0.8	1.2	1.0	1.3	0.8	1.0	2.5	3.4	3.2	2.2	3.6	1.9	2.7	4.8	2.1	2.5	5.6	3.6	1.9	1.7	1.2	2.3	5.6	0.8
6	1.8	1.4	0.9	0.7	0.5	0.9	0.8	0.8	1.3	2.1	2.9	3.5	3.2	4.5	4.3	4.8	4.6	3.1	2.4	2.8	1.3	0.9	1.7	2.2	2.2	4.8	0.5
7	3.0	2.7	3.2	3.0	2.2	1.6	1.0	0.6	1.3	4.1	3.6	3.4	4.0	5.1	4.3	4.1	3.6	3.7	2.2	1.2	1.5	2.6	3.0	2.2	2.8	5.1	0.6
8	1.8	1.8	1.6	1.4	1.3	1.6	0.7	0.9	2.1	3.8	3.9	4.1	5.2	5.8	6.3	6.0	5.6	5.6	4.9	3.5	2.5	2.5	2.5	2.4	3.2	6.3	0.7
9	1.8	1.9	1.2	1.5	1.1	1.1	0.9	0.7	1.1	2.5	3.3	4.2	3.9	3.0	2.6	3.5	4.6	4.5	5.3	3.3	2.1	3.3	2.8	3.0	2.6	5.3	0.7
10	2.7	4.0	2.8	1.5	1.5	1.9	1.2	1.3	5.0	4.2	4.7	4.8	5.3	6.2	7.0	5.8	4.5	3.9	3.3	4.3	2.2	3.6	2.3	2.1	3.6	7.0	1.2
11	2.4	1.7	1.9	1.4	2.0	0.7	0.6	0.7	2.0	3.8	4.3	4.8	4.8	3.5	4.1	4.1	4.0	4.8	4.4	3.3	1.8	1.8	2.1	2.1	2.8	4.8	0.6
12	2.3	1.4	1.8	1.2	1.6	1.2	0.8	3.0	5.9	7.9	8.1	7.5	6.2	7.7	9.3	8.4	8.3	8.2	7.3	5.9	3.3	7.4	5.8	1.8	5.1	9.3	0.8
13	1.9	1.2	1.4	1.1	1.3	1.2	1.0	3.5	5.1	3.8	4.0	4.9	3.8	4.2	4.2	4.2	4.0	5.7	5.0	4.8	3.2	1.4	1.6	1.2	3.1	5.7	1.0
14	2.2	1.8	1.3	1.6	1.6	0.8	1.2	2.4	2.5	2.0	2.3	2.0	2.2	2.4	2.5	3.1	3.6	2.4	3.7	3.0	3.4	3.2	2.4	2.5	2.3	3.7	0.8
15	2.2	2.0	3.9	2.6	1.3	1.3	0.8	3.6	5.2	5.5	5.9	6.7	7.3	7.5	8.0	7.7	5.6	5.2	6.4	2.8	2.8	3.2	4.3	2.0	4.3	8.0	0.8
16	2.5	2.2	1.0	0.9	0.8	1.1	0.8	0.9	1.6	2.7	3.4	3.0	3.4	2.6	2.8	5.2	4.5	4.2	6.3	4.1	2.3	1.9	2.3	1.3	2.6	6.3	0.8
17	1.7	1.9	1.8	1.6	1.4	0.9	1.1	0.8	1.4	1.7	3.1	4.4	6.0	8.4	7.2	5.9	5.9	4.7	4.9	2.6	3.5	2.0	1.8	1.1	3.2	8.4	0.8
18	0.9	1.0	0.9	1.6	1.0	1.4	5.0	7.0	7.5	6.3	Au	Au	Au	Au	3.3	3.7	2.1	3.5	1.3	3.4	2.0	1.6	1.2	1.6	2.8	7.5	0.9
19	1.7	1.9	1.6	1.4	1.2	1.5	0.8	0.8	2.0	5.0	5.7	3.9	2.2	4.1	5.7	5.2	4.1	2.3	5.4	6.1	4.5	2.6	1.5	1.4	3.0	6.1	0.8
20	1.7	1.9	1.6	1.5	1.7	1.1	1.0	1.6	2.8	2.4	4.2	4.8	4.2	3.8	3.5	4.4	5.6	3.0	1.8	1.4	2.6	3.4	3.2	2.5	2.7	5.6	1.0
21	2.3	1.6	1.7	1.6	1.7	0.7	0.8	0.8	1.4	3.4	4.2	3.9	3.4	2.5	8.1	2.3	2.3	1.6	1.7	1.6	3.0	2.3	1.6	2.4	2.4	8.1	0.7
22	1.9	1.1	0.7	1.2	1.8	1.0	1.2	0.8	0.7	1.2	2.0	2.8	3.8	3.1	3.4	4.0	4.0	3.0	2.3	1.2	2.0	3.5	2.6	2.5	2.2	4.0	0.7
23	1.4	0.9	0.9	0.7	1.1	1.0	0.5	0.8	0.9	1.6	3.1	3.6	2.1	3.3	2.2	2.4	3.6	3.3	3.9	3.4	1.1	1.4	4.2	2.7	2.1	4.2	0.5
24	1.4	2.4	2.1	1.6	0.9	1.5	0.8	0.7	1.1	2.0	2.4	1.6	2.3	2.8	2.2	1.3	2.4	1.5	1.5	2.1	2.1	2.3	2.4	1.9	1.8	2.8	0.7
25	1.7	2.1	1.1	0.9	1.6	2.0	1.7	1.8	0.7	1.6	3.3	3.1	4.0	4.1	4.7	4.7	4.0	4.3	3.4	1.9	2.2	3.4	2.6	2.1	2.6	4.7	0.7
26	2.5	2.3	1.7	1.1	0.9	1.0	0.6	0.6	1.2	2.8	2.8	3.3	3.1	3.9	3.9	2.6	3.2	2.6	1.2	1.1	2.6	2.0	2.2	2.1	2.1	3.9	0.6
27	2.0	1.8	1.6	1.3	1.2	0.9	0.6	0.6	0.7	1.3	2.5	3.1	3.0	3.7	3.6	3.2	2.6	1.9	2.9	3.1	3.7	1.9	1.5	0.8	2.1	3.7	0.6
28	1.4	1.5	1.5	1.2	1.3	0.9	0.6	0.6	0.8	2.8	4.2	4.8	4.7	4.8	4.9	4.7	3.5	5.2	5.5	3.1	3.7	2.7	2.9	2.7	2.9	5.5	0.6
29	2.2	2.3	1.8	1.1	1.7	1.0	0.8	0.6	1.0	3.0	2.9	3.7	3.7	3.5	2.3	1.5	4.5	6.8	4.6	2.7	2.3	1.5	5.1	2.3	2.6	6.8	0.6
30	3.4	2.1	2.2	2.8	1.9	1.9	1.4	0.8	3.4	5.7	7.7	9.1	7.9	9.3	7.6	6.4	5.9	4.6	4.3	3.4	2.0	2.7	2.3	1.2	4.2	9.3	0.8
Avg	2.0	1.9	1.7	1.5	1.4	1.2	1.1	1.4	2.2	3.1	3.7	4.0	4.0	4.4	4.5	4.4	4.2	4.0	3.7	3.0	2.7	2.6	2.5	2.0	2.8	6.0	0.7
Max	3.4	4.0	3.9	3.0	2.3	2.4	5.0	7.0	7.5	7.9	8.1	9.1	7.9	9.3	9.3	8.4	8.3	9.5	7.3	6.1	6.9	7.4	5.8	3.0	5.1	9.5	1.2
Min	0.9	0.9	0.7	0.7	0.5	0.7	0.5	0.6	0.7	1.2	1.5	1.6	2.1	2.2	1.9	1.3	1.5	1.5	1.2	1.1	1.1	0.9	0.9	0.8	1.8	2.8	0.5

A-3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
April 2015

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	275	263	276	283	274	273	267	263	266	259	259	271	274	284	282	278	268	266	273	266	255	262	278	284	271
2	293	307	290	297	283	314	324	290	311	307	299	297	304	277	300	332	326	296	257	208	142	142	153	188	288
3	159	143	117	103	40	121	112	61	284	269	263	262	242	247	267	263	242	248	277	271	286	89	73	25	240
4	167	149	63	35	59	130	153	159	153	203	318	317	255	240	275	268	309	303	291	200	115	128	128	306	203
5	57	137	135	139	309	186	217	140	290	348	133	282	313	311	102	98	101	107	95	85	96	152	145	155	123
6	151	155	154	160	157	155	152	154	156	161	164	167	172	184	163	156	174	163	327	278	298	170	166	259	171
7	101	144	112	177	132	181	163	230	358	329	152	151	165	190	216	322	290	74	123	131	94	70	63	14	133
8	318	348	337	329	330	231	84	49	311	319	288	254	150	74	57	309	7	220	155	167	69	66	80	65	7
9	306	134	344	16	110	63	111	151	342	318	283	271	254	246	270	263	265	287	279	123	99	106	81	83	309
10	111	143	154	159	154	136	174	306	176	224	240	247	231	226	247	264	255	256	242	203	105	107	119	110	191
11	146	100	121	123	132	131	140	102	184	224	222	233	250	262	256	265	267	280	282	265	276	272	276	279	225
12	261	264	265	243	268	263	255	259	264	258	261	270	268	266	266	259	262	265	273	284	279	273	271	278	266
13	285	281	91	108	84	111	128	24	27	257	205	189	195	228	219	200	211	203	198	183	182	187	187	188	188
14	131	91	64	272	146	163	153	161	147	193	234	243	250	253	254	262	276	289	282	282	273	288	289	286	239
15	292	289	291	294	302	318	321	315	310	328	355	358	336	331	326	328	326	317	314	229	104	10	75	38	326
16	76	90	154	102	2	67	84	207	18	26	356	320	294	297	291	289	289	274	250	108	89	77	85	58	30
17	94	29	24	19	35	303	133	65	55	337	278	199	184	228	220	225	282	287	275	103	79	77	71	65	40
18	93	90	125	108	29	117	45	6	326	284	317	22	16	13	358	8	17	14	346	338	295	283	140	173	18
19	153	96	280	140	92	129	126	312	309	316	277	307	42	298	275	310	327	22	40	60	78	106	45	91	26
20	81	81	83	101	138	111	204	345	333	293	277	280	288	292	298	300	313	322	322	286	113	83	55	78	347
21	82	91	46	53	120	104	150	145	58	309	286	256	319	324	334	338	350	50	92	91	82	77	98	134	62
22	119	122	105	113	83	318	126	100	10	318	289	266	305	285	299	284	275	270	283	267	287	201	119	312	288
23	85	93	132	161	315	111	310	101	7	263	258	244	262	285	248	268	284	290	319	265	89	95	66	77	289
24	103	42	91	115	124	65	138	12	82	7	186	269	282	254	290	274	283	318	311	309	306	315	326	298	325
25	304	312	274	307	296	311	305	297	269	260	253	257	289	286	260	320	30	15	25	326	47	250	252	289	298
26	258	307	40	51	84	81	64	60	279	285	300	288	257	262	297	269	261	254	255	255	274	288	274	289	289
27	213	255	185	126	148	181	301	87	326	271	252	255	245	236	254	269	262	270	240	157	88	90	89	97	221
28	139	103	130	144	101	141	158	136	138	77	290	272	287	277	282	306	316	250	236	99	86	78	88	114	137
29	99	92	116	106	120	122	118	119	316	265	264	274	268	272	277	291	329	356	338	302	110	226	306	126	284
30	118	229	141	116	106	81	39	300	276	265	254	255	267	259	265	263	253	249	252	263	163	118	114	110	225
Prev	124	109	107	112	91	128	138	85	320	287	265	265	266	268	273	283	291	287	283	239	96	116	97	74	266

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
May 2015

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	134	82	53	50	69	38	107	157	331	157	225	255	281	221	229	263	255	249	271	264	236	223	80	100	213
2	97	98	97	56	110	115	93	97	273	267	282	254	254	262	280	284	287	296	296	289	117	62	51	104	340
3	163	132	126	188	304	85	88	138	147	146	147	163	267	300	317	342	146	146	132	122	69	322	91	121	132
4	122	139	125	197	110	60	101	144	155	149	151	179	216	240	241	241	240	212	192	147	70	82	126	124	155
5	118	51	106	158	339	159	131	293	255	220	233	165	248	291	207	153	122	76	63	277	306	188	157	143	176
6	335	343	94	340	349	331	337	345	314	338	333	1	22	16	360	8	9	19	45	65	83	76	75	69	12
7	65	58	63	49	57	74	60	48	72	95	62	187	125	154	153	153	152	153	151	148	156	156	136	141	112
8	94	114	138	204	260	31	197	343	122	153	162	165	168	171	173	325	182	187	125	166	138	123	136	171	155
9	128	87	95	113	66	12	341	136	155	152	155	153	153	161	142	142	139	152	150	145	120	76	80	94	123
10	105	135	25	51	109	37	196	349	296	76	24	62	22	53	1	330	177	145	102	87	100	83	105	125	74
11	109	103	121	105	94	119	63	342	169	201	152	171	203	160	131	70	119	122	72	86	77	67	67	72	110
12	84	244	72	78	143	103	122	142	140	157	157	132	157	152	154	114	88	86	92	100	125	145	138	130	125
13	139	142	144	139	137	137	137	141	136	139	144	142	149	147	169	202	7	93	83	77	65	271	247	191	140
14	215	240	210	198	159	113	147	150	156	159	159	158	161	161	158	155	137	172	159	155	167	167	141	124	162
15	122	123	168	174	160	164	149	163	156	157	150	152	160	157	160	164	153	164	170	180	204	265	50	3	158
16	342	344	338	309	11	202	349	345	321	313	331	324	316	329	326	344	335	330	323	332	336	328	315	326	329
17	318	317	301	256	274	275	343	330	286	319	354	326	355	342	329	2	335	324	317	290	286	287	282	263	311
18	251	150	169	151	158	165	153	152	153	157	153	158	155	153	154	153	149	132	125	121	129	114	121	139	149
19	141	141	126	126	154	153	153	158	134	105	126	146	130	105	97	109	115	110	145	147	138	126	121	106	130
20	92	109	122	142	121	97	138	145	148	154	153	142	136	141	148	143	142	133	126	121	72	336	123	116	128
21	94	116	154	167	97	71	96	139	148	153	144	146	148	142	141	146	142	134	133	133	129	91	195	294	134
22	147	60	202	31	48	38	1	335	300	297	304	263	28	75	85	74	67	83	94	64	86	69	101	286	48
23	94	71	13	64	5	82	326	284	329	351	72	96	90	59	75	71	50	35	303	10	307	331	232	59	32
24	90	134	12	320	289	22	107	297	333	57	52	80	71	72	72	83	84	66	80	66	182	70	66	112	65
25	89	100	109	82	147	134	190	19	96	277	276	238	130	89	83	142	130	139	145	150	70	58	106	359	113
26	147	196	348	124	118	103	203	45	318	72	244	268	302	296	325	309	285	37	52	26	49	87	71	35	26
27	348	263	96	68	41	328	314	275	256	275	283	295	289	289	277	282	281	270	276	260	201	119	108	113	286
28	109	119	92	87	54	87	122	246	34	122	114	144	93	325	317	330	319	6	353	352	278	339	315	353	35
29	334	312	346	302	329	120	130	148	150	161	141	137	139	150	143	146	152	152	149	146	145	161	110	153	144
30	132	135	111	139	148	153	136	110	146	166	171	217	249	257	241	170	87	147	206	123	111	101	108	80	146
31	108	84	87	105	81	142	161	163	199	45	269	258	254	268	275	263	267	267	229	179	106	81	96	91	163
Prev	108	110	100	113	90	96	119	122	172	149	162	174	168	165	166	139	133	126	124	121	115	90	107	103	122

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
June 2015

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	92	101	132	91	87	2	141	59	89	356	349	311	267	292	56	59	228	319	133	141	88	82	89	129	78
2	114	89	140	139	104	151	312	167	273	290	321	252	306	270	249	211	74	260	277	211	262	118	94	126	206
3	91	109	107	78	94	113	11	316	4	265	256	227	251	306	312	297	333	324	308	268	254	305	10	72	325
4	128	97	22	122	102	42	298	306	5	241	108	206	301	199	251	317	288	294	325	116	88	83	116	121	68
5	62	103	97	21	19	28	128	301	306	187	218	271	187	11	334	337	108	61	160	153	96	87	310	360	53
6	114	165	131	124	356	124	125	215	161	142	246	272	274	259	263	258	280	343	118	160	116	106	67	61	159
7	81	83	71	80	76	93	137	281	219	256	257	246	262	256	256	283	264	280	263	263	132	92	89	99	218
8	74	72	118	86	44	122	298	338	302	276	268	267	254	267	270	264	264	254	256	267	185	88	81	62	280
9	56	58	353	70	77	34	334	313	359	276	295	256	269	319	326	288	315	169	90	135	84	196	317	96	352
10	50	78	68	29	39	69	21	277	261	275	272	280	272	269	277	341	24	20	37	34	192	162	105	82	6
11	81	54	38	50	76	120	276	324	339	305	289	250	233	242	256	250	254	266	254	247	163	97	94	72	282
12	78	96	86	119	103	117	9	244	249	266	272	266	274	278	278	279	277	281	276	268	291	312	321	148	276
13	173	209	117	86	110	123	194	303	286	279	259	270	264	289	282	250	300	323	322	325	16	79	89	223	271
14	305	227	147	247	207	87	293	308	295	287	313	122	161	2	298	69	143	73	92	82	57	66	65	63	53
15	70	96	75	54	356	12	243	114	145	123	142	147	142	142	143	145	133	133	136	127	141	126	135	115	122
16	167	153	59	356	128	132	161	346	348	293	279	278	274	279	301	310	324	103	159	154	159	109	105	97	151
17	61	106	98	102	127	79	213	344	10	289	279	295	284	266	296	311	329	347	26	29	93	37	122	157	15
18	173	200	147	138	146	133	163	162	151	149	Au	Au	Au	Au	157	184	224	214	116	157	81	127	103	65	150
19	69	64	83	130	112	142	184	312	333	317	316	303	253	289	276	272	258	352	318	314	303	329	340	49	321
20	96	74	76	64	84	38	114	346	325	313	260	242	237	250	250	214	199	151	60	253	102	63	77	92	91
21	88	72	85	125	140	97	189	354	167	232	256	299	283	342	311	294	143	134	120	96	74	118	72	53	103
22	87	134	48	132	81	103	85	5	241	204	183	256	255	283	310	324	331	337	345	352	125	75	89	63	45
23	34	42	14	34	117	121	212	335	201	43	296	257	246	257	219	198	237	230	191	218	146	62	328	345	247
24	225	98	298	305	99	85	5	354	71	293	292	338	335	277	354	354	329	278	311	56	74	75	81	99	1
25	166	107	47	18	76	100	133	322	29	334	297	289	295	303	315	318	313	310	315	356	111	84	51	52	4
26	53	56	50	59	95	111	44	4	8	282	281	291	302	311	269	278	302	324	62	314	98	110	98	87	15
27	81	45	59	20	20	52	91	346	354	14	292	306	298	311	308	302	327	330	27	88	81	82	69	13	14
28	54	42	42	77	84	42	120	12	353	305	294	283	290	304	302	322	40	28	20	47	87	53	73	75	24
29	67	101	85	55	101	112	122	253	89	145	150	149	159	185	41	358	49	144	90	101	108	47	89	99	102
30	69	51	75	94	109	78	104	86	282	271	292	304	300	290	307	308	332	343	333	355	108	66	92	99	21
Prev	87	92	78	78	89	91	137	325	323	278	275	268	266	282	288	292	298	315	17	111	109	84	75	83	37

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
April 2015

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

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
May 2015

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	73	51	66	32	42	47	72	73	60	74	62	18	31	20	18	17	19	11	9	9	52	88	58	16	42	88	9
2	21	28	37	32	60	67	77	91	20	15	10	11	18	18	12	12	11	13	8	41	56	88	79	61	37	91	8
3	46	57	22	85	85	55	77	29	19	25	33	65	72	36	37	63	32	13	11	21	46	48	50	28	44	85	11
4	18	17	41	88	60	81	94	68	22	25	23	37	39	39	26	31	27	23	23	19	12	21	19	17	36	94	12
5	61	38	58	48	74	95	85	81	81	35	37	29	57	35	77	20	62	14	13	61	13	69	71	32	52	95	13
6	72	65	76	43	20	23	14	26	12	16	12	26	22	50	40	26	23	14	21	13	12	12	11	10	27	76	10
7	11	9	61	12	16	13	14	9	59	35	46	38	35	10	10	11	12	9	7	7	7	6	24	34	21	61	6
8	35	18	24	72	71	94	89	70	72	8	13	18	19	17	79	55	31	64	60	38	63	48	33	33	47	94	8
9	59	43	41	27	40	35	65	58	11	12	15	13	17	65	13	10	16	11	11	9	29	52	45	24	30	65	9
10	26	24	65	76	32	57	64	91	94	40	40	29	39	45	49	50	22	35	14	12	16	27	45	48	43	94	12
11	63	36	31	65	79	37	92	45	60	76	65	32	24	43	53	62	36	68	24	12	11	9	9	13	44	92	9
12	73	76	12	10	51	86	26	15	24	10	9	35	11	17	21	31	11	14	16	15	15	16	22	14	26	86	9
13	23	17	14	13	14	16	14	12	12	16	12	14	20	35	33	58	78	19	39	17	37	91	51	33	29	91	12
14	33	28	66	84	33	21	22	40	8	8	8	8	10	10	11	12	35	27	12	23	10	10	29	17	24	84	8
15	22	16	19	12	21	12	12	7	8	8	10	7	12	9	9	8	23	8	11	15	16	24	90	19	17	90	7
16	14	17	15	19	70	90	45	17	9	11	18	8	7	18	7	14	12	11	10	10	10	16	14	11	20	90	7
17	15	8	16	40	16	27	15	12	29	46	27	11	32	21	18	17	19	15	9	63	27	16	24	17	23	63	8
18	97	29	13	8	7	22	10	21	11	9	9	9	9	9	8	9	8	15	15	15	15	15	17	10	16	97	7
19	16	10	16	25	12	10	19	12	18	26	26	11	23	24	19	20	20	21	6	7	16	19	24	46	19	46	6
20	16	64	26	13	18	17	12	7	10	8	12	13	13	10	9	10	12	13	13	21	91	87	23	21	22	91	7
21	12	27	26	31	61	39	54	49	12	19	17	23	13	13	10	9	10	13	11	11	13	36	76	29	26	76	9
22	67	71	72	69	49	32	48	78	56	73	50	59	39	15	11	13	11	15	13	45	69	16	31	95	46	95	11
23	73	23	54	56	56	92	45	64	21	17	41	10	20	11	13	10	15	29	53	55	35	39	82	65	41	92	10
24	67	82	49	38	58	47	38	53	61	23	42	16	24	22	18	19	20	13	19	41	100	31	32	40	40	100	13
25	20	35	43	85	36	77	77	78	68	32	29	32	32	14	10	29	24	12	7	66	12	63	68	82	43	85	7
26	77	79	54	72	49	21	97	96	69	75	53	32	53	32	24	27	32	85	22	31	53	28	40	51	52	97	21
27	33	67	84	62	78	24	38	37	21	35	20	21	19	13	22	16	17	22	10	9	54	46	45	40	35	84	9
28	24	35	33	57	31	65	30	79	74	60	58	44	66	18	14	16	13	21	15	41	15	19	19	21	36	79	13
29	34	22	55	35	72	38	31	14	9	16	18	21	19	22	22	18	12	8	8	16	19	13	67	27	26	72	8
30	20	41	27	15	15	17	26	24	16	21	58	25	16	13	20	54	23	68	102	88	40	15	27	26	33	102	13
31	26	26	35	30	56	22	27	59	97	70	57	22	25	17	16	23	18	12	41	69	49	85	29	15	39	97	12
Avg	40	37	40	44	45	44	46	46	37	30	30	24	27	23	24	25	23	23	20	29	33	37	40	32	33	86	10
Max	97	82	84	88	85	95	97	96	97	76	65	65	72	65	79	63	78	85	102	88	100	91	90	95	52	102	21
Min	11	8	12	8	7	10	10	7	8	8	8	7	7	9	7	8	8	8	6	7	7	6	9	10	16	46	6

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
June 2015

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	24	45	31	28	77	42	60	78	49	58	27	49	39	72	16	92	47	79	43	55	12	26	34	46	92	12
2	25	17	14	23	63	50	89	69	31	50	33	38	47	22	16	72	41	22	15	73	46	43	58	50	42	89	14
3	65	44	34	23	33	55	88	74	62	52	39	38	36	25	26	23	50	52	12	45	30	26	75	24	43	88	12
4	29	25	66	39	82	38	67	59	85	97	89	60	59	60	65	28	20	19	30	37	16	25	26	29	48	97	16
5	47	20	49	44	47	59	27	55	60	36	36	27	45	63	40	50	65	91	83	27	35	61	28	51	48	91	20
6	35	44	46	81	87	48	67	75	61	36	29	33	36	28	21	18	26	51	35	18	27	50	28	24	42	87	18
7	12	13	13	17	22	39	21	95	97	12	20	25	43	19	25	21	18	21	14	35	44	11	14	23	28	97	11
8	32	25	24	29	34	30	75	54	47	22	18	25	21	21	19	15	15	13	11	9	83	25	20	19	29	83	9
9	36	31	67	26	95	66	88	48	45	33	31	23	27	24	35	26	33	70	24	23	87	81	76	34	47	95	23
10	64	14	16	35	27	33	43	89	15	17	18	18	16	15	13	37	18	17	13	16	82	15	51	45	30	89	13
11	27	34	41	41	35	55	91	59	43	18	24	17	21	35	26	30	20	17	10	8	60	32	24	37	34	91	8
12	39	55	72	66	55	51	93	41	18	14	15	15	21	17	13	15	14	12	12	10	22	8	39	55	32	93	8
13	27	57	52	52	53	31	90	57	19	28	28	31	47	36	32	36	22	12	12	13	36	71	63	73	41	90	12
14	72	68	70	46	43	84	37	16	26	50	57	40	34	73	41	64	25	35	12	11	12	11	14	8	40	84	8
15	44	41	7	45	39	69	67	34	11	21	19	10	14	14	9	9	16	15	10	27	22	35	13	46	27	69	7
16	12	18	85	42	57	29	34	99	46	49	27	39	29	22	42	24	26	76	10	9	17	26	23	65	38	99	9
17	51	45	32	30	28	57	66	69	57	80	33	31	31	16	21	18	11	31	10	28	58	66	68	53	41	80	10
18	56	72	35	19	34	34	14	7	10	8	Au	Au	Au	Au	21	24	17	41	59	17	29	27	50	43	31	72	7
19	41	29	45	41	45	22	77	52	26	19	20	30	52	39	18	24	55	48	9	8	12	15	48	64	35	77	8
20	32	37	27	29	43	60	75	56	25	37	30	26	29	33	34	20	17	39	34	40	44	23	13	21	34	75	13
21	20	27	32	24	18	43	75	44	94	51	27	22	37	26	14	68	57	46	44	49	18	41	34	23	39	94	14
22	30	53	99	57	35	38	84	60	51	79	64	35	35	51	24	21	12	16	13	47	26	10	16	15	40	99	10
23	22	39	52	69	54	50	96	84	81	66	35	37	89	35	63	56	23	21	15	49	62	68	47	52	53	96	15
24	72	52	70	71	40	52	31	71	78	54	34	51	46	41	48	74	61	54	25	54	15	15	15	39	48	78	15
25	69	38	45	63	59	25	69	20	55	82	20	28	32	27	22	17	20	17	12	47	38	15	40	15	36	82	12
26	18	24	33	47	59	45	92	64	67	28	38	38	40	22	31	41	28	26	103	59	34	26	21	27	42	103	18
27	16	32	40	28	45	55	93	63	42	46	43	38	63	25	44	34	28	24	35	12	7	41	55	81	41	93	7
28	38	39	26	73	54	63	89	68	53	12	18	21	26	18	21	24	45	36	11	26	7	42	30	24	36	89	7
29	18	21	21	41	21	81	71	89	81	23	28	26	35	53	63	18	88	81	25	30	56	82	15	24	45	89	15
30	19	25	17	27	40	50	61	45	62	16	14	16	11	17	19	18	10	18	9	21	66	39	24	57	29	66	9
Avg	36	35	43	42	46	50	67	59	51	40	33	30	37	32	31	31	32	36	26	30	38	35	35	39	39	88	12
Max	72	72	99	81	95	84	96	99	97	97	89	60	89	73	72	74	92	91	103	73	87	82	76	81	53	103	23
Min	12	13	7	17	18	22	14	7	10	8	14	10	11	14	9	9	10	12	9	8	7	8	13	8	27	66	7

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
April 2015

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	-0.2	-0.5	-0.7	-0.9	-1.2	-2.0	-1.6	-0.6	0.0	0.7	1.3	1.8	2.4	3.1	3.2	2.8	2.0	0.9	-0.2	-1.8	-2.2	-2.2	-2.1	0.1	3.2	-2.2
2	-2.4	-3.5	-3.7	-3.9	-4.8	-5.4	-6.0	-5.4	-4.6	-3.8	-3.1	-2.5	-1.6	-0.5	-0.2	-0.3	0.2	0.0	-1.2	-2.7	-4.4	-4.9	-5.6	-5.9	-3.2	0.2	-6.0
3	-5.5	-5.3	-5.2	-5.3	-5.8	-7.1	-8.7	-6.5	-2.7	-1.1	0.4	1.4	2.3	3.0	3.2	3.4	3.7	4.1	3.6	2.2	0.6	-0.5	-0.9	-1.3	-1.2	4.1	-8.7
4	-1.7	-1.0	-0.6	-1.6	-2.7	-3.7	-3.8	-2.2	1.3	2.5	2.1	3.2	4.7	5.6	5.4	4.9	4.7	2.0	-0.4	-0.9	-1.7	-3.1	-4.4	-5.1	0.1	5.6	-5.1
5	-6.5	-8.1	-8.6	-8.6	-9.0	-8.4	-7.2	-6.1	-4.0	-2.3	-1.3	-0.4	-1.0	-1.1	-1.0	-1.1	-1.0	-0.7	-1.1	-1.7	-2.0	-2.4	-2.3	-2.4	-3.7	-0.4	-9.0
6	-2.6	-2.8	-2.9	-3.2	-3.3	-3.5	-3.7	-3.8	-3.8	-3.2	-2.1	-0.7	0.3	1.6	0.7	0.0	0.0	-0.9	-1.0	-1.0	-1.6	-1.7	-2.1	-2.8	-1.8	1.6	-3.8
7	-5.0	-7.5	-9.2	-10.6	-12.3	-13.3	-14.2	-12.4	-8.7	-4.7	-0.3	1.8	3.0	3.8	4.6	5.6	5.7	5.6	4.0	1.6	0.0	-0.6	-1.7	-3.6	-2.9	5.7	-14.2
8	-3.7	-3.7	-3.2	-4.0	-3.4	-3.7	-3.8	-1.2	2.8	5.0	3.9	3.7	3.1	3.1	4.0	2.9	3.0	2.4	1.0	0.2	-0.9	-2.5	-3.3	-3.9	-0.1	5.0	-4.0
9	-4.7	-4.7	-6.0	-5.9	-6.4	-6.8	-6.7	-3.9	-0.2	3.2	4.9	6.0	6.7	7.6	8.4	8.7	8.6	8.6	7.7	3.2	0.7	-1.0	-1.8	-2.1	1.0	8.7	-6.8
10	-3.3	-3.9	-3.8	-4.8	-5.2	-5.4	-5.3	-2.6	3.0	5.2	6.1	6.5	7.8	8.5	9.6	10.0	9.8	9.7	9.6	7.8	4.2	2.0	1.3	0.1	2.8	10.0	-5.4
11	0.8	1.1	1.2	-0.3	-0.2	-0.9	-0.7	0.8	6.6	9.6	10.3	10.4	10.4	9.8	9.1	8.5	5.7	4.4	3.5	2.6	2.7	1.9	1.5	0.8	4.2	10.4	-0.9
12	-0.4	-1.9	-2.5	-2.9	-3.1	-3.3	-3.3	-2.4	-1.5	-0.4	-0.3	-0.2	0.6	1.7	2.2	3.3	3.5	2.9	2.0	1.6	1.4	1.2	0.8	0.3	-0.0	3.5	-3.3
13	0.0	-1.1	-3.1	-4.7	-6.3	-6.0	-3.8	0.6	3.0	4.9	6.3	7.8	9.6	11.4	12.3	12.9	13.5	13.8	12.9	11.2	10.4	9.7	10.0	10.4	5.7	13.8	-6.3
14	5.9	3.8	0.8	-1.0	0.2	4.5	8.5	10.5	12.3	13.3	13.3	13.4	12.8	12.1	11.9	6.9	0.7	-0.1	-0.9	-1.7	-2.0	-2.3	-2.3	-2.6	4.9	13.4	-2.6
15	-2.8	-2.8	-2.8	-2.5	-2.1	-2.1	-2.2	-2.4	-2.2	-1.5	-0.8	-0.4	-0.1	0.1	0.8	1.6	2.0	2.0	1.6	-0.4	-2.8	-4.5	-5.0	-6.5	-1.5	2.0	-6.5
16	-8.0	-9.4	-10.0	-11.4	-11.2	-11.8	-11.2	-8.3	-5.5	-0.1	2.8	4.4	5.5	6.5	7.4	8.4	9.0	9.2	8.5	3.0	0.4	-0.7	-1.7	-2.6	-1.1	9.2	-11.8
17	-3.2	-4.1	-3.5	-4.8	-4.9	-5.5	-4.7	-1.0	3.9	8.1	10.6	11.9	12.7	13.3	14.1	14.6	14.5	14.3	13.2	7.8	4.5	2.6	1.1	0.4	4.8	14.6	-5.5
18	-1.4	-2.3	-2.8	-3.6	-4.0	-4.0	-3.9	-0.6	4.5	6.5	3.9	1.7	2.1	3.0	3.5	4.0	3.0	2.4	2.0	0.9	-0.1	-0.9	-2.4	-4.0	0.3	6.5	-4.0
19	-5.1	-5.4	-6.4	-7.1	-7.4	-7.7	-6.8	-3.3	0.5	2.4	3.5	4.2	4.4	4.6	5.4	6.1	5.7	5.3	4.7	3.6	0.0	-2.3	-3.9	-4.6	-0.4	6.1	-7.7
20	-5.8	-6.3	-6.8	-7.4	-7.8	-8.5	-7.4	-3.4	2.2	5.6	7.4	8.8	10.1	10.8	11.3	11.3	11.3	11.6	10.8	8.7	4.3	2.3	1.3	-0.1	2.7	11.6	-8.5
21	-1.9	-3.0	-3.6	-3.8	-4.0	-4.6	-3.4	1.4	6.9	10.8	11.8	13.0	12.9	13.1	13.5	13.8	14.1	14.0	13.9	9.6	7.1	6.4	4.4	5.2	6.1	14.1	-4.6
22	4.7	3.8	0.6	-1.3	-1.8	-1.7	-1.2	2.5	8.3	12.5	13.9	14.8	15.4	15.5	15.8	16.0	14.4	11.6	10.5	10.1	6.9	5.0	5.1	4.6	7.7	16.0	-1.8
23	4.2	3.2	2.4	1.8	0.8	-1.0	-1.3	0.2	4.2	6.4	7.9	9.3	10.3	11.3	12.2	12.5	12.2	11.8	11.3	10.0	8.7	6.9	5.4	4.0	6.4	12.5	-1.3
24	1.8	0.5	-0.3	-1.9	-3.0	-3.0	-1.7	1.4	4.2	7.9	8.7	8.6	9.0	9.0	8.1	6.3	4.6	4.8	3.8	2.2	0.6	0.3	0.2	0.3	3.0	9.0	-3.0
25	0.2	0.1	0.1	0.0	-0.3	-0.6	-0.8	-0.8	-0.5	0.0	0.9	1.7	2.7	3.2	4.1	3.7	3.7	4.2	3.6	1.4	-0.8	-2.0	-2.4	-1.8	0.8	4.2	-2.4
26	-0.4	0.1	1.1	1.3	0.6	-0.1	-0.1	-0.3	-0.1	0.1	0.3	1.1	0.5	0.6	1.3	1.0	0.6	0.5	0.5	0.0	-0.1	-0.4	-0.4	-0.5	0.3	1.3	-0.5
27	-1.0	-2.0	-2.9	-3.9	-4.4	-4.3	-3.4	-0.8	1.1	2.6	3.8	4.7	5.7	6.9	8.1	8.8	9.4	9.7	9.4	6.1	2.8	1.0	0.0	-1.0	2.4	9.7	-4.4
28	-2.4	-2.3	-2.7	-3.4	-3.0	-3.7	-1.9	3.5	8.6	10.5	12.3	13.8	15.1	16.3	17.2	17.6	18.0	18.1	17.5	11.9	7.5	5.3	3.4	1.5	7.4	18.1	-3.7
29	1.1	1.3	-0.2	-0.5	-0.4	0.1	2.7	8.6	14.2	15.9	16.6	17.7	18.5	19.3	19.1	18.0	14.4	12.9	12.3	10.3	8.9	7.8	6.2	4.8	9.6	19.3	-0.5
30	4.2	3.3	2.8	2.0	1.6	1.9	1.4	2.6	4.3	5.6	6.5	7.5	8.6	9.6	10.4	11.2	11.8	11.7	11.2	9.6	5.6	1.8	0.4	-1.1	5.6	11.8	-1.1
Avg	-1.5	-2.1	-2.7	-3.5	-3.8	-4.0	-3.6	-1.2	1.9	4.0	5.0	5.8	6.5	7.1	7.5	7.5	7.0	6.6	5.8	3.9	2.0	0.7	-0.0	-0.7	2.0	8.4	-4.9
Max	5.9	3.8	2.8	2.0	1.6	4.5	8.5	10.5	14.2	15.9	16.6	17.7	18.5	19.3	19.1	18.0	18.0	18.1	17.5	11.9	10.4	9.7	10.0	10.4	9.6	19.3	-0.5
Min	-8.0	-9.4	-10.0	-11.4	-12.3	-13.3	-14.2	-12.4	-8.7	-4.7	-3.1	-2.5	-1.6	-1.1	-1.0	-1.1	-1.0	-0.9	-1.2	-2.7	-4.4	-4.9	-5.6	-6.5	-3.7	-0.4	-14.2

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
May 2015

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	-2.6	-3.0	-3.2	-3.2	-3.1	-2.8	0.0	4.8	10.1	12.1	12.4	12.5	13.8	15.2	15.5	15.9	15.9	15.1	13.0	9.9	10.0	8.3	6.5	7.1	15.9	-3.2
2	3.9	3.1	2.0	1.4	0.9	0.6	1.0	4.9	12.2	13.2	13.4	14.0	14.5	15.4	15.1	14.5	14.3	14.3	13.2	11.4	7.8	5.0	4.5	3.3	8.5	15.4	0.6
3	1.5	0.0	-1.9	-3.1	-3.7	-4.0	-2.6	3.9	6.1	7.6	9.2	10.8	11.7	12.7	13.2	13.8	13.7	13.1	11.5	9.9	8.1	8.0	7.6	7.1	6.4	13.8	-4.0
4	6.6	6.0	5.8	4.9	2.4	0.6	1.6	8.1	11.4	12.7	14.4	15.4	16.2	17.2	17.8	17.6	17.8	17.6	16.8	13.4	12.5	11.7	8.6	6.2	11.0	17.8	0.6
5	4.2	2.8	2.0	1.2	1.0	1.7	4.5	9.9	13.7	15.9	16.2	16.6	17.6	17.6	15.3	10.9	9.2	9.2	9.3	8.9	8.3	7.5	7.1	6.6	9.0	17.6	1.0
6	6.3	5.9	5.5	5.5	4.4	3.5	3.3	2.1	1.6	2.7	3.9	5.1	6.3	7.2	7.6	7.9	7.8	7.2	6.5	5.3	4.8	4.6	3.9	3.3	5.1	7.9	1.6
7	2.9	2.4	2.1	2.0	1.6	1.1	1.2	1.6	2.2	2.3	2.3	2.6	3.2	3.1	3.3	3.7	4.4	3.8	3.3	3.0	2.6	2.2	1.8	0.9	2.5	4.4	0.9
8	-0.8	-2.4	-3.0	-3.8	-4.9	-4.6	-3.3	-0.9	1.1	1.9	2.1	2.5	2.9	3.3	3.8	2.8	1.7	1.5	0.7	0.8	1.1	1.1	0.7	0.3	0.2	3.8	-4.9
9	-0.5	-1.0	-2.1	-3.8	-4.9	-5.5	-3.4	-0.4	2.0	2.7	3.8	4.8	5.6	6.2	6.4	5.8	5.0	5.3	5.1	3.6	2.2	0.0	-2.1	-3.4	1.3	6.4	-5.5
10	-4.2	-5.2	-5.9	-6.1	-6.5	-7.4	-4.8	-0.5	4.0	5.9	7.0	8.1	8.7	9.2	9.6	9.8	9.4	9.4	8.0	5.4	2.5	0.6	-1.0	-2.2	2.2	9.8	-7.4
11	-3.9	-4.7	-5.6	-6.7	-6.7	-6.8	-4.0	1.5	6.6	8.1	9.5	9.6	9.8	10.5	10.7	11.0	11.3	10.9	10.2	9.1	7.4	6.4	5.8	5.1	4.4	11.3	-6.8
12	5.0	5.1	5.2	5.3	5.2	4.8	5.1	5.4	5.5	5.6	5.4	6.3	7.1	8.1	8.8	8.7	7.9	7.0	6.8	6.5	5.7	5.2	4.1	3.6	6.0	8.8	3.6
13	3.3	3.9	3.8	4.1	4.1	4.1	4.3	5.1	6.8	8.2	9.4	10.7	11.5	12.7	13.9	14.5	13.4	11.3	10.6	9.5	8.1	6.7	5.3	4.3	7.9	14.5	3.3
14	3.5	2.6	2.2	2.8	5.6	5.8	5.8	6.5	6.8	6.5	8.3	9.2	10.7	11.7	10.0	8.2	7.5	7.4	7.0	7.5	7.2	7.4	8.2	8.5	7.0	11.7	2.2
15	8.2	8.2	7.4	6.7	7.2	7.1	7.3	6.7	7.3	8.5	7.8	6.7	7.3	7.8	8.3	8.6	9.7	8.8	7.8	7.3	6.6	6.4	6.3	6.7	7.5	9.7	6.3
16	6.6	6.3	6.2	5.7	6.0	5.5	5.0	5.1	5.4	5.6	5.6	5.2	5.1	5.2	4.5	4.7	4.6	4.2	3.5	2.7	2.3	2.1	1.9	1.7	4.6	6.6	1.7
17	1.5	1.7	1.6	1.6	1.8	2.1	2.8	2.9	2.9	2.7	2.3	2.0	1.9	1.8	1.5	2.4	2.4	2.7	2.1	1.8	1.0	0.7	0.7	0.8	1.9	2.9	0.7
18	0.7	0.8	0.9	0.4	0.1	0.2	1.0	1.8	2.0	2.5	3.1	3.7	4.3	4.5	5.0	5.0	4.6	3.9	3.6	3.4	3.5	3.7	3.9	3.8	2.8	5.0	0.1
19	3.8	3.6	3.5	2.2	1.1	2.5	3.5	4.9	6.3	6.8	7.9	7.8	7.6	8.0	9.0	9.5	9.0	7.6	6.4	5.2	5.5	5.5	5.0	4.0	5.7	9.5	1.1
20	1.7	2.0	2.8	3.4	2.5	2.8	4.3	5.0	6.2	7.3	8.7	9.8	10.7	10.8	11.0	11.1	11.0	11.0	10.1	8.7	7.0	5.8	5.5	5.4	6.9	11.1	1.7
21	4.9	4.2	3.6	3.2	0.9	0.2	4.4	7.9	9.8	10.3	11.3	12.6	13.5	14.0	14.3	13.6	12.8	12.7	12.3	11.2	9.7	7.9	7.6	6.7	8.7	14.3	0.2
22	7.7	5.9	4.1	1.9	1.1	1.1	4.4	8.8	10.9	12.1	13.0	13.9	10.9	9.4	9.2	10.9	12.0	11.7	11.0	10.0	7.9	6.4	6.2	6.2	8.2	13.9	1.1
23	6.2	5.5	4.3	3.6	2.5	3.0	3.6	5.7	7.5	8.3	8.5	7.6	7.6	7.2	6.5	6.4	6.7	7.2	7.3	7.1	5.6	5.7	5.8	5.4	6.0	8.5	2.5
24	4.4	2.8	3.0	3.1	3.5	3.8	4.8	5.6	6.9	7.5	8.9	9.8	10.4	10.8	11.2	10.9	11.4	10.4	10.2	9.0	6.5	4.9	4.1	2.6	6.9	11.4	2.6
25	1.9	0.7	0.4	-0.3	-0.4	-0.5	1.9	6.6	10.5	11.5	12.3	13.1	13.2	12.2	12.7	15.0	15.5	15.2	13.7	12.5	10.8	8.8	7.4	7.4	8.4	15.5	-0.5
26	7.3	7.2	7.5	7.3	6.4	6.5	6.8	7.1	7.4	8.2	9.2	10.0	11.4	12.2	13.4	14.1	13.5	13.3	13.3	11.8	8.8	6.7	5.4	5.3	9.2	14.1	5.3
27	3.9	4.1	4.7	5.4	5.4	6.1	7.2	8.9	9.3	10.4	11.1	11.3	12.3	12.1	13.4	13.6	13.5	13.5	12.6	10.7	9.5	8.5	7.7	6.7	9.2	13.6	3.9
28	5.8	4.7	4.8	5.4	5.0	4.9	5.7	6.5	7.7	8.0	7.9	8.1	8.7	9.8	9.4	9.0	9.2	8.9	8.7	8.3	7.1	7.0	6.6	6.1	7.2	9.8	4.7
29	5.7	5.2	5.2	5.2	5.1	5.0	6.2	7.7	8.3	9.7	10.0	11.1	11.8	12.4	13.3	14.1	13.9	13.5	11.7	10.2	9.3	8.8	8.3	7.7	9.1	14.1	5.0
30	7.2	6.7	5.8	4.5	3.7	3.1	6.3	11.7	14.1	14.8	14.9	15.5	15.4	15.1	13.7	11.1	11.6	12.6	12.7	12.0	10.1	8.3	6.7	5.9	10.1	15.5	3.1
31	4.5	4.1	3.4	2.7	2.3	2.5	5.5	8.9	11.0	14.2	16.5	17.6	18.3	18.7	19.7	20.5	21.1	20.7	19.0	16.5	13.9	11.7	10.2	8.7	12.2	21.1	2.3
Avg	3.5	2.9	2.5	2.0	1.6	1.5	2.8	5.1	7.0	8.1	8.9	9.5	10.0	10.3	10.5	10.5	10.4	10.1	9.4	8.2	6.9	6.0	5.2	4.6	6.6	11.5	0.8
Max	8.2	8.2	7.5	7.3	7.2	7.1	7.3	11.7	14.1	15.9	16.5	17.6	18.3	18.7	19.7	20.5	21.1	20.7	19.0	16.5	13.9	11.7	10.2	8.7	12.2	21.1	6.3
Min	-4.2	-5.2	-5.9	-6.7	-6.7	-7.4	-4.8	-0.9	1.1	1.9	2.1	2.0	1.9	1.8	1.5	2.4	1.7	1.5	0.7	0.8	1.0	0.0	-2.1	-3.4	0.2	2.9	-7.4

A-11

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
June 2015

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	7.7	7.5	7.3	8.1	7.7	8.5	9.4	11.2	14.6	17.6	18.5	19.3	19.9	20.3	20.0	17.7	13.9	10.8	11.6	10.1	9.3	9.3	8.5	7.2	12.3	20.3	7.2
2	6.5	5.8	4.3	3.8	3.4	3.5	4.9	8.5	11.1	11.2	12.1	12.0	12.0	14.5	14.0	9.1	10.7	12.8	12.4	11.3	10.0	8.2	6.6	5.3	8.9	14.5	3.4
3	4.6	4.5	4.2	3.7	3.9	4.3	5.4	8.2	10.4	11.3	12.6	13.7	14.3	12.6	13.6	13.9	14.7	15.3	15.0	13.2	10.2	8.0	7.6	7.7	9.7	15.3	3.7
4	7.2	7.5	7.0	6.1	5.0	4.3	5.6	8.4	10.5	11.8	12.9	14.0	15.1	15.6	16.5	16.5	16.7	17.0	16.3	14.4	11.9	11.8	10.6	10.0	11.4	17.0	4.3
5	8.0	6.9	5.9	5.3	4.9	5.0	7.0	10.0	13.1	16.0	16.5	16.3	17.1	16.7	17.6	17.5	12.4	12.0	11.4	10.3	10.9	9.7	8.1	7.3	11.1	17.6	4.9
6	5.7	4.2	3.1	2.7	2.1	2.3	5.0	9.3	13.1	15.9	16.9	17.6	18.2	19.2	19.9	20.3	20.6	20.3	18.4	17.1	16.2	15.1	12.6	11.2	12.8	20.6	2.1
7	9.9	9.1	8.3	7.5	6.6	6.1	8.5	12.8	16.8	18.6	19.4	20.1	21.0	21.0	21.5	21.4	21.6	21.8	21.6	20.0	16.0	13.9	12.1	10.2	15.2	21.8	6.1
8	9.5	8.6	7.6	6.8	6.9	7.0	9.4	13.8	18.4	19.8	20.8	22.0	23.2	24.2	25.1	25.6	26.0	26.2	25.7	24.0	19.9	14.3	12.6	11.1	17.0	26.2	6.8
9	10.3	9.1	8.4	8.1	6.7	7.3	10.4	15.3	19.4	21.7	22.7	23.8	24.6	25.2	25.8	26.0	22.7	17.9	16.8	17.4	16.5	16.8	17.1	16.0	16.9	26.0	6.7
10	15.0	13.0	12.3	11.1	10.6	9.8	11.9	15.1	16.6	16.8	16.7	16.6	18.5	20.1	20.7	20.7	19.9	20.0	19.1	18.3	16.3	14.1	13.1	10.6	15.7	20.7	9.8
11	8.8	7.8	7.6	6.4	6.0	5.5	8.3	12.6	16.6	18.0	19.2	20.2	19.7	21.2	22.0	22.4	22.8	22.8	22.5	21.1	16.4	12.0	10.0	8.5	14.9	22.8	5.5
12	7.3	6.1	5.4	4.4	3.6	4.4	7.8	15.0	17.0	17.9	18.6	19.4	20.0	20.6	21.1	21.3	21.2	20.6	19.9	18.5	15.0	13.9	12.4	10.1	14.2	21.3	3.6
13	6.6	5.5	3.0	1.2	0.1	0.3	3.9	9.8	11.1	11.9	13.0	14.3	15.1	16.1	16.7	17.3	17.6	17.1	16.1	15.3	14.0	12.6	11.2	10.1	10.8	17.6	0.1
14	10.1	8.3	6.4	5.6	5.3	5.5	6.5	7.5	8.3	9.2	9.6	10.1	10.9	12.0	12.5	13.2	12.6	12.0	11.5	10.5	9.3	8.9	8.4	7.1	9.2	13.2	5.3
15	7.0	4.9	5.0	3.6	2.7	3.0	5.7	9.4	9.3	9.9	10.1	10.3	11.5	12.3	11.9	11.0	11.3	11.1	10.5	9.7	9.2	9.3	8.8	8.8	8.6	12.3	2.7
16	8.1	8.1	8.1	7.9	7.9	7.3	8.7	10.7	12.0	13.7	14.9	15.9	16.7	16.7	17.7	18.7	19.1	18.0	16.2	15.0	12.8	11.7	9.5	8.2	12.6	19.1	7.3
17	7.0	6.2	6.0	5.9	5.8	6.7	9.0	11.9	14.7	17.5	18.6	19.6	19.8	21.2	20.8	20.2	20.1	19.1	18.2	17.0	15.2	13.5	11.1	10.6	14.0	21.2	5.8
18	10.0	9.2	10.7	10.9	10.5	10.2	12.0	13.3	14.4	14.9	Au	Au	Au	Au	20.6	21.9	21.6	21.1	20.5	17.4	16.8	15.3	12.9	11.2	14.8	21.9	9.2
19	10.1	9.3	7.4	6.2	5.0	4.7	7.9	12.0	16.5	18.3	18.3	18.1	18.3	19.7	20.6	20.4	18.7	18.5	19.0	18.2	16.9	15.1	13.7	11.0	14.3	20.6	4.7
20	7.4	5.8	4.3	3.4	2.0	2.4	5.1	10.4	13.2	14.4	15.5	16.4	16.6	16.7	17.1	17.4	17.6	18.0	18.3	17.3	14.0	10.3	8.8	6.6	11.6	18.3	2.0
21	5.6	4.4	3.4	2.1	1.7	1.9	5.7	10.6	15.6	18.1	18.9	19.3	19.5	19.3	16.6	15.8	14.6	14.0	13.0	12.1	11.2	9.4	7.6	7.5	11.2	19.5	1.7
22	6.9	6.3	6.2	5.2	5.3	5.9	6.9	7.9	9.3	11.7	13.7	15.6	16.6	17.3	18.1	18.4	18.2	17.8	17.4	16.4	12.0	9.9	7.5	7.0	11.6	18.4	5.2
23	5.2	4.1	3.2	3.0	3.0	3.0	6.0	11.0	15.9	18.2	19.4	20.1	20.0	20.9	21.1	21.4	21.9	21.9	21.1	19.4	17.2	14.6	15.0	13.0	14.2	21.9	3.0
24	12.4	12.2	11.9	11.5	9.8	8.4	10.1	13.8	15.9	16.9	17.3	17.8	19.1	20.3	20.5	20.9	21.8	21.7	21.3	19.9	17.7	16.9	16.9	16.9	16.3	21.8	8.4
25	16.0	15.1	13.5	12.7	12.3	12.2	12.3	13.5	15.4	17.7	18.8	19.2	20.2	21.0	21.6	21.8	21.8	22.6	22.2	21.1	17.5	14.3	12.1	10.8	16.9	22.6	10.8
26	10.1	9.1	7.8	7.3	6.0	6.3	9.6	14.5	19.2	21.3	22.2	23.4	24.3	25.5	26.2	26.8	27.3	27.2	27.2	24.6	19.8	16.4	13.6	12.4	17.8	27.3	6.0
27	11.5	10.5	10.2	9.4	8.8	8.8	11.8	16.9	22.0	24.9	26.6	27.4	28.3	28.9	29.5	29.9	30.0	30.0	29.2	26.7	23.5	19.6	17.3	15.5	20.7	30.0	8.8
28	14.4	13.4	13.1	11.8	10.7	10.4	12.9	17.9	22.8	26.3	27.6	28.6	29.3	29.5	29.6	29.8	29.3	28.7	27.3	26.4	22.3	17.9	16.7	15.2	21.3	29.8	10.4
29	14.4	12.6	11.8	10.6	10.3	9.5	12.5	17.5	23.3	27.1	28.1	29.1	29.7	29.9	29.6	29.1	23.9	18.3	18.5	18.5	17.5	16.3	15.6	15.1	19.5	29.9	9.5
30	14.3	14.0	13.4	13.0	13.0	12.4	13.7	16.9	20.2	22.0	23.5	24.1	23.9	25.5	25.3	25.1	24.7	24.6	24.3	23.2	20.1	16.8	13.8	11.3	19.1	25.5	11.3
Avg	9.3	8.3	7.6	6.8	6.3	6.2	8.5	12.2	15.2	17.0	18.0	18.8	19.4	20.1	20.5	20.4	19.8	19.3	18.7	17.5	15.2	13.2	11.7	10.4	14.2	21.2	5.9
Max	16.0	15.1	13.5	13.0	13.0	12.4	13.7	17.9	23.3	27.1	28.1	29.1	29.7	29.9	29.6	29.9	30.0	30.0	29.2	26.7	23.5	19.6	17.3	16.9	21.3	30.0	11.3
Min	4.6	4.1	3.0	1.2	0.1	0.3	3.9	7.5	8.3	9.2	9.6	10.1	10.9	12.0	11.9	9.1	10.7	10.8	10.5	9.7	9.2	8.0	6.6	5.3	8.6	12.3	0.1

A-12

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
April 2015

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	0.4	-0.3	-0.6	-0.8	-1.1	-1.4	-2.2	-1.4	-0.1	0.9	1.7	2.3	2.6	3.4	4.0	3.9	3.3	2.4	0.8	-0.5	-2.2	-2.6	-2.5	-2.2	0.3	4.0	-2.6
2	-2.4	-3.5	-3.8	-4.0	-5.2	-5.8	-6.5	-5.0	-4.1	-3.1	-2.1	-1.5	-0.5	0.9	1.0	0.1	0.8	0.4	-1.3	-3.1	-5.0	-5.7	-6.0	-6.0	-3.0	1.0	-6.5
3	-5.5	-5.2	-5.7	-6.5	-6.6	-8.2	-9.7	-6.3	-2.2	-0.3	1.6	2.7	3.6	4.4	4.3	4.2	4.2	4.4	3.4	1.3	0.3	-1.0	-1.4	-1.9	-1.1	4.4	-9.7
4	-2.0	-1.5	-1.1	-2.3	-3.8	-4.4	-4.4	-2.2	1.6	3.1	2.7	3.9	5.6	6.7	6.5	5.6	5.1	2.1	-0.4	-1.1	-2.4	-4.2	-5.3	-6.3	0.1	6.7	-6.3
5	-7.7	-9.3	-10.0	-9.7	-9.6	-9.2	-7.7	-5.9	-3.8	-2.0	-0.9	-0.2	-0.8	-1.0	-0.9	-1.0	-0.8	-0.6	-1.0	-1.6	-2.0	-2.6	-2.3	-2.4	-3.9	-0.2	-10.0
6	-2.6	-2.8	-2.9	-3.2	-3.3	-3.5	-3.6	-3.6	-3.4	-2.6	-1.4	0.1	1.0	2.3	1.3	0.5	0.3	-0.7	-0.9	-1.0	-1.6	-1.9	-2.5	-3.6	-1.7	2.3	-3.6
7	-6.8	-9.4	-11.0	-12.6	-14.0	-15.4	-15.4	-13.0	-8.6	-4.5	-0.1	2.3	3.6	4.5	5.4	6.3	6.3	5.8	3.8	0.8	-0.5	-0.8	-2.4	-4.6	-3.3	6.3	-15.4
8	-4.6	-4.8	-4.2	-5.1	-4.4	-4.8	-4.3	-1.0	3.3	5.8	4.2	4.0	3.5	3.7	4.5	3.5	3.4	2.6	0.9	-0.1	-1.6	-3.1	-3.9	-4.9	-0.3	5.8	-5.1
9	-5.6	-5.8	-6.8	-6.7	-7.4	-7.9	-7.4	-3.8	0.0	3.8	5.7	7.1	7.8	8.6	9.4	9.6	9.2	9.1	7.3	2.2	0.0	-1.9	-2.7	-2.8	0.9	9.6	-7.9
10	-4.6	-5.1	-5.4	-6.7	-6.9	-7.1	-6.3	-2.4	3.3	6.1	7.2	7.3	9.0	9.6	10.9	11.1	10.3	9.7	9.1	6.8	3.0	1.5	0.1	-1.2	2.5	11.1	-7.1
11	-0.5	0.2	-0.8	-1.6	-1.5	-2.1	-1.1	0.4	6.2	9.9	10.9	10.9	11.1	10.5	9.8	9.2	6.2	4.9	3.5	2.5	2.5	1.8	1.4	0.6	4.0	11.1	-2.1
12	-0.6	-2.3	-3.0	-3.7	-3.3	-3.2	-3.3	-2.1	-1.0	0.5	0.6	0.5	1.5	3.0	3.2	4.4	4.4	3.1	1.9	1.4	1.2	1.1	0.6	0.0	0.2	4.4	-3.7
13	-0.5	-1.8	-4.2	-5.4	-7.0	-6.6	-3.8	0.9	3.4	5.5	7.1	8.7	10.5	12.7	13.1	13.6	14.0	14.1	12.2	9.3	9.1	8.3	8.7	9.4	5.5	14.1	-7.0
14	4.8	2.8	-0.9	-3.0	-2.9	1.5	8.0	10.6	13.0	13.7	14.1	14.6	14.1	12.8	12.2	7.2	0.8	-0.1	-0.9	-1.7	-2.0	-2.2	-2.3	-2.6	4.6	14.6	-3.0
15	-2.7	-2.7	-2.7	-2.5	-2.1	-2.2	-2.3	-2.4	-2.1	-1.4	-0.6	-0.3	0.0	0.1	0.8	1.5	2.0	1.8	1.1	-0.9	-3.4	-5.6	-5.6	-7.6	-1.7	2.0	-7.6
16	-9.0	-10.6	-11.8	-12.4	-12.1	-12.8	-12.2	-8.1	-5.0	0.3	3.3	5.0	6.2	7.3	8.1	9.1	9.7	9.7	8.3	2.5	0.2	-1.1	-2.2	-3.6	-1.3	9.7	-12.8
17	-4.4	-5.0	-4.6	-5.7	-6.3	-6.7	-5.3	-0.6	4.3	8.7	11.5	13.0	13.6	14.1	14.9	15.4	15.2	14.9	13.0	6.8	4.3	2.5	0.7	-0.3	4.8	15.4	-6.7
18	-3.1	-3.8	-4.9	-4.6	-5.1	-5.1	-4.7	-0.5	5.1	7.4	4.6	2.1	2.9	3.8	4.4	5.0	3.8	3.1	2.1	0.5	-0.8	-1.7	-3.4	-5.1	0.1	7.4	-5.1
19	-6.4	-6.6	-7.2	-8.5	-8.6	-8.5	-7.1	-3.0	0.9	3.1	4.4	4.9	5.0	5.5	6.1	7.1	6.2	5.5	4.7	3.3	-1.0	-3.3	-4.9	-6.4	-0.6	7.1	-8.6
20	-7.5	-7.7	-8.3	-8.9	-9.5	-9.6	-7.7	-3.0	2.6	6.6	8.7	10.2	11.5	12.2	12.5	12.1	11.9	12.3	10.7	7.6	3.1	1.5	0.6	-1.4	2.5	12.5	-9.6
21	-2.8	-4.8	-5.0	-5.0	-5.7	-5.8	-3.7	1.6	7.4	11.6	12.7	14.1	13.5	13.7	14.2	14.3	14.8	14.3	13.8	8.9	6.6	5.6	3.5	2.4	5.8	14.8	-5.8
22	2.4	1.3	-0.4	-3.2	-3.0	-2.5	-2.2	2.9	8.7	13.1	14.9	16.0	16.7	16.2	16.5	16.7	14.4	11.4	10.0	9.3	6.7	4.7	5.0	4.2	7.5	16.7	-3.2
23	4.0	3.0	2.2	1.2	-0.1	-1.9	-1.3	0.5	4.6	7.2	9.0	10.4	11.5	12.6	13.2	13.5	12.9	12.0	11.0	9.2	8.2	6.5	5.1	3.5	6.6	13.5	-1.9
24	0.6	-0.3	-1.1	-3.4	-4.4	-3.9	-1.7	1.7	4.4	8.6	9.3	9.1	9.7	9.7	8.6	6.6	4.7	4.9	3.8	2.2	0.6	0.3	0.2	0.3	2.9	9.7	-4.4
25	0.2	0.1	0.0	0.0	-0.4	-0.6	-0.8	-0.7	-0.3	0.3	1.3	2.3	3.4	3.9	5.1	4.6	4.3	4.7	3.7	0.8	-1.5	-2.8	-3.2	-2.3	0.9	5.1	-3.2
26	-0.8	-0.1	1.0	1.2	0.6	0.0	0.0	-0.1	0.2	0.3	0.8	1.7	1.0	1.3	1.9	1.5	1.1	0.9	0.7	0.1	0.0	-0.3	-0.3	-0.4	0.5	1.9	-0.8
27	-1.0	-2.3	-3.3	-4.6	-5.1	-4.8	-3.3	-0.4	1.4	3.2	4.8	5.7	6.7	7.9	9.0	9.8	10.3	10.4	9.5	5.3	2.7	0.8	-0.3	-1.8	2.5	10.4	-5.1
28	-3.5	-3.5	-3.8	-4.6	-4.3	-5.1	-2.1	3.7	9.1	11.2	13.1	14.9	16.3	17.4	18.2	18.3	18.6	18.5	17.3	11.1	7.3	5.2	2.8	0.1	7.3	18.6	-5.1
29	-0.1	0.1	-1.9	-1.9	-2.0	-1.3	2.5	8.9	14.6	16.8	17.5	18.9	19.6	20.3	19.7	18.0	14.3	12.7	12.2	9.9	8.6	7.6	5.9	4.4	9.4	20.3	-2.0
30	4.0	3.1	2.5	1.8	1.2	1.7	1.3	2.7	4.9	6.5	7.5	8.7	9.8	11.0	11.6	12.2	12.6	12.2	11.1	8.5	3.7	1.1	-0.3	-2.3	5.7	12.6	-2.3
Avg	-2.3	-3.0	-3.7	-4.4	-4.8	-4.9	-3.9	-1.1	2.3	4.7	5.8	6.6	7.3	8.0	8.3	8.1	7.5	6.9	5.7	3.3	1.5	0.3	-0.6	-1.5	1.9	9.1	-5.8
Max	4.8	3.1	2.5	1.8	1.2	1.7	8.0	10.6	14.6	16.8	17.5	18.9	19.6	20.3	19.7	18.3	18.6	18.5	17.3	11.1	9.1	8.3	8.7	9.4	9.4	20.3	-0.8
Min	-9.0	-10.6	-11.8	-12.6	-14.0	-15.4	-15.4	-13.0	-8.6	-4.5	-2.1	-1.5	-0.8	-1.0	-0.9	-1.0	-0.8	-0.7	-1.3	-3.1	-5.0	-5.7	-6.0	-7.6	-3.9	-0.2	-15.4

A-13

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
May 2015

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-3.1	-3.4	-4.1	-4.0	-4.2	-4.0	-3.3	0.2	5.1	10.6	12.8	13.2	13.1	14.5	16.1	16.2	16.6	16.3	15.0	11.1	7.4	8.7	6.4	5.3	6.8	16.6	-4.2
2	3.4	2.5	1.2	0.9	0.2	0.1	0.9	5.1	12.8	14.1	14.4	14.8	15.1	16.3	15.7	14.8	14.6	14.5	12.8	10.3	6.4	4.2	3.6	2.3	8.4	16.3	0.1
3	0.5	-0.9	-3.1	-4.5	-4.8	-5.4	-2.7	3.5	6.9	8.4	10.0	11.6	12.8	13.9	14.2	14.5	14.5	13.6	11.6	9.7	7.6	7.4	7.2	6.5	6.4	14.5	-5.4
4	6.2	4.6	5.1	4.0	0.8	-0.9	1.4	8.4	12.0	13.4	15.3	16.4	17.1	18.0	18.9	18.2	18.6	18.0	16.4	12.6	11.6	11.0	5.8	3.4	10.7	18.9	-0.9
5	2.5	1.6	0.5	-0.5	0.0	0.8	4.4	10.2	14.1	16.6	16.9	17.3	18.5	18.2	15.2	10.2	9.3	9.4	9.3	8.7	8.0	7.4	6.9	6.5	8.8	18.5	-0.5
6	6.2	5.6	5.2	5.2	4.1	3.4	3.3	2.2	1.8	3.2	4.8	6.0	7.3	7.9	8.5	8.7	8.4	7.6	6.6	5.3	4.8	4.6	3.9	3.3	5.3	8.7	1.8
7	2.9	2.2	1.9	1.8	1.5	1.2	1.4	2.0	2.6	2.7	2.9	3.3	3.8	4.0	4.3	4.7	5.2	4.0	3.5	3.1	2.7	2.2	1.8	0.4	2.8	5.2	0.4
8	-1.4	-3.5	-4.8	-5.2	-6.0	-5.3	-3.2	-0.7	1.2	2.3	2.6	3.0	3.6	3.8	4.1	3.3	2.0	1.6	0.8	1.0	1.1	1.1	0.8	0.2	0.1	4.1	-6.0
9	-0.7	-1.1	-2.6	-4.5	-5.7	-5.8	-3.2	-0.1	2.9	3.8	4.9	6.3	6.7	6.9	7.1	6.5	5.6	5.8	5.3	3.6	2.1	-0.5	-2.7	-4.3	1.5	7.1	-5.8
10	-5.9	-6.6	-7.1	-6.9	-8.3	-7.8	-4.7	-0.1	4.6	6.6	8.0	9.0	9.7	10.1	10.6	10.7	10.0	10.0	8.2	5.1	1.7	0.1	-2.0	-4.0	2.1	10.7	-8.3
11	-5.5	-6.6	-6.9	-7.8	-8.1	-7.7	-3.7	1.8	7.1	8.6	10.3	10.4	10.5	11.3	11.2	11.5	11.6	11.1	10.3	9.1	7.4	6.4	5.7	4.9	4.3	11.6	-8.1
12	4.7	4.8	5.2	5.2	5.0	4.6	5.3	5.8	6.1	6.5	6.2	7.0	8.2	9.4	9.9	9.1	8.2	7.2	7.0	6.6	5.7	5.1	4.1	3.6	6.3	9.9	3.6
13	3.4	3.8	3.8	4.1	4.0	4.1	4.4	5.3	7.5	9.1	10.6	11.9	12.5	13.4	14.6	15.3	14.1	11.6	10.8	9.6	8.1	6.5	5.0	4.2	8.2	15.3	3.4
14	3.6	2.1	2.0	2.8	5.5	5.9	6.0	6.8	7.7	7.8	10.0	11.1	12.3	13.3	11.3	8.9	7.8	7.8	7.3	7.5	7.2	7.5	8.2	8.5	7.5	13.3	2.0
15	8.2	8.2	7.5	6.7	7.2	7.2	7.4	7.0	7.9	9.2	8.5	7.2	7.9	8.5	9.3	9.4	10.3	9.1	8.0	7.4	6.7	6.5	6.3	6.6	7.8	10.3	6.3
16	6.5	6.3	6.2	5.7	6.0	5.4	5.0	5.1	5.5	5.8	5.8	5.5	5.5	5.4	4.8	4.8	4.8	4.3	3.5	2.6	2.2	2.0	1.8	1.7	4.7	6.5	1.7
17	1.6	1.7	1.6	1.6	1.8	2.1	2.8	3.2	3.3	3.0	2.4	2.2	2.2	2.2	1.8	2.9	3.0	3.2	2.4	1.9	1.1	0.8	0.9	0.9	2.1	3.3	0.8
18	0.7	0.9	1.0	0.5	0.2	0.4	1.4	2.3	2.7	3.5	4.4	5.3	5.8	6.1	6.7	6.3	5.7	4.3	3.9	3.6	3.6	3.8	3.9	3.8	3.4	6.7	0.2
19	3.8	3.6	3.5	1.9	0.2	2.5	3.8	5.5	6.9	7.3	8.6	8.9	8.4	8.5	9.6	10.1	9.6	8.0	6.8	5.4	5.6	5.5	4.8	2.7	5.9	10.1	0.2
20	1.1	1.8	2.2	3.0	2.3	2.2	4.5	5.6	7.3	8.6	10.2	11.2	12.1	12.3	12.5	12.3	12.1	11.5	10.4	8.7	6.7	4.9	4.7	5.0	7.2	12.5	1.1
21	4.3	3.8	2.1	1.0	-0.7	-0.8	4.6	8.4	10.8	11.4	12.4	13.7	15.0	15.5	15.8	14.9	13.3	12.9	12.5	11.2	9.2	7.3	7.0	5.3	8.8	15.8	-0.8
22	6.4	4.4	2.4	0.8	0.1	0.4	4.6	9.2	11.4	12.8	13.7	14.6	10.8	9.7	9.5	11.4	12.6	12.2	11.3	9.8	7.4	6.2	6.2	6.0	8.1	14.6	0.1
23	5.7	5.1	3.9	2.9	1.7	2.6	3.6	5.9	7.6	8.5	8.7	7.8	7.8	7.4	6.6	6.5	6.9	7.3	7.3	6.9	5.2	5.5	5.5	5.1	5.9	8.7	1.7
24	4.0	2.6	3.0	3.2	3.5	3.7	4.9	5.7	7.0	7.7	9.3	10.2	10.9	11.2	11.7	11.2	11.6	10.6	10.2	8.6	5.9	4.7	4.0	1.7	7.0	11.7	1.7
25	1.3	0.1	-0.3	-0.9	-1.7	-0.9	2.2	7.0	11.0	12.2	12.8	13.6	13.4	12.6	13.1	15.9	15.8	15.3	13.3	12.2	10.4	8.4	6.7	7.2	8.4	15.9	-1.7
26	7.2	7.1	7.4	7.1	6.4	6.6	6.9	7.2	7.5	8.5	9.5	10.5	12.0	12.8	14.2	14.8	13.9	13.6	13.3	10.9	8.2	6.5	5.1	4.9	9.3	14.8	4.9
27	3.5	3.6	4.6	5.4	5.4	6.2	7.3	9.3	9.9	11.0	12.1	12.2	13.3	13.3	14.5	14.7	14.3	14.3	12.8	10.6	9.4	8.6	7.7	6.7	9.6	14.7	3.5
28	5.6	4.5	4.8	5.4	5.0	5.0	5.9	6.7	7.9	8.1	8.0	8.3	8.9	10.0	9.6	9.2	9.6	8.9	8.8	8.4	7.1	7.0	6.6	6.1	7.3	10.0	4.5
29	5.6	5.0	5.2	5.3	5.2	5.1	6.4	8.4	9.3	10.8	10.8	11.9	12.8	13.5	14.4	15.0	14.8	14.2	12.0	10.1	9.1	8.8	8.3	7.5	9.6	15.0	5.0
30	7.1	6.4	5.7	4.0	3.0	2.4	6.3	11.8	14.7	15.1	15.2	16.0	15.9	15.6	13.8	11.2	11.7	12.8	12.8	12.0	9.9	8.2	6.1	5.7	10.1	16.0	2.4
31	4.3	3.9	3.2	2.3	1.9	1.9	5.7	9.0	11.2	14.7	17.2	18.6	19.2	19.4	20.4	21.4	21.9	21.0	18.5	16.2	13.5	11.4	10.1	8.7	12.3	21.9	1.9
Avg	3.0	2.4	1.9	1.5	1.0	1.1	2.9	5.4	7.6	8.8	9.7	10.3	10.7	11.1	11.3	11.1	10.9	10.4	9.4	8.1	6.5	5.7	4.9	4.1	6.7	12.2	0.2
Max	8.2	8.2	7.5	7.1	7.2	7.2	7.4	11.8	14.7	16.6	17.2	18.6	19.2	19.4	20.4	21.4	21.9	21.0	18.5	16.2	13.5	11.4	10.1	8.7	12.3	21.9	6.3
Min	-5.9	-6.6	-7.1	-7.8	-8.3	-7.8	-4.7	-0.7	1.2	2.3	2.4	2.2	2.2	2.2	1.8	2.9	2.0	1.6	0.8	1.0	1.1	-0.5	-2.7	-4.3	0.1	3.3	-8.3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
June 2015

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	7.7	7.4	7.1	7.8	7.5	8.3	9.5	11.5	15.1	18.2	19.0	19.9	20.6	21.0	20.5	17.8	13.8	10.7	11.3	9.9	9.1	9.3	8.4	7.0	12.4	21.0	7.0
2	6.4	5.7	3.7	3.4	3.1	3.5	5.1	8.7	11.2	11.5	12.6	12.6	12.9	15.5	14.2	9.1	11.1	13.3	12.1	11.2	9.6	7.9	6.1	4.6	9.0	15.5	3.1
3	4.5	4.2	4.1	3.7	4.0	4.4	5.6	8.6	11.0	11.8	13.2	14.3	15.0	13.2	14.0	14.3	15.2	15.8	14.9	12.5	10.1	7.8	7.6	7.7	9.9	15.8	3.7
4	7.3	7.5	6.9	6.0	4.5	4.3	5.8	8.8	11.1	12.3	13.5	14.6	15.9	16.2	17.0	17.0	17.3	17.4	16.5	14.5	11.9	11.7	10.5	9.9	11.6	17.4	4.3
5	7.9	6.8	5.4	4.7	4.3	4.9	7.3	10.3	13.5	16.5	17.1	16.6	17.4	17.0	18.2	17.6	12.3	12.0	11.2	10.3	10.9	9.6	7.6	6.8	11.1	18.2	4.3
6	5.0	3.8	2.8	2.6	1.9	2.4	5.2	9.6	13.6	16.4	17.5	18.4	18.8	20.1	20.8	21.2	21.3	20.8	18.5	16.8	16.1	14.9	12.3	11.0	13.0	21.3	1.9
7	9.8	8.9	8.2	7.3	6.2	5.5	8.7	13.2	17.3	19.3	20.2	20.9	21.9	22.0	22.5	21.8	21.8	22.1	21.6	19.4	15.5	13.5	11.7	9.4	15.4	22.5	5.5
8	8.8	7.9	6.4	5.9	6.0	6.8	9.7	14.3	19.0	20.5	21.6	22.9	24.0	25.0	25.8	26.2	26.5	26.3	25.4	22.9	18.3	13.6	11.8	10.4	16.9	26.5	5.9
9	9.5	8.4	7.7	7.4	5.7	7.1	10.6	15.7	19.9	22.3	23.4	24.7	25.4	26.0	26.3	26.1	22.0	17.6	16.8	17.2	16.0	16.4	16.7	15.6	16.9	26.3	5.7
10	14.6	13.0	12.1	10.9	10.1	9.8	12.3	15.6	17.3	17.3	17.5	17.5	19.5	21.2	21.7	21.4	20.2	20.3	19.0	17.6	15.5	13.7	12.5	10.1	15.9	21.7	9.8
11	8.3	7.4	7.0	5.9	5.4	5.1	8.6	13.1	17.2	18.9	20.2	21.1	20.5	22.0	22.9	22.9	23.4	23.0	22.3	19.7	14.9	11.4	8.7	7.9	14.9	23.4	5.1
12	6.5	5.1	4.4	3.2	2.3	3.9	8.2	15.3	17.5	18.6	19.5	20.4	21.0	21.6	22.0	22.0	21.7	20.9	19.8	17.9	12.6	12.5	11.8	9.0	14.1	22.0	2.3
13	5.3	4.6	2.0	0.2	-0.8	-0.3	4.2	10.4	12.0	12.8	14.0	15.3	16.1	17.2	17.6	18.1	18.3	17.5	16.1	14.9	13.2	12.4	10.8	9.4	10.9	18.3	-0.8
14	9.3	7.7	5.7	5.3	5.2	5.6	6.8	7.9	8.9	9.8	10.2	10.6	11.6	12.9	13.4	14.1	13.1	12.3	11.8	10.7	9.3	9.0	8.2	6.6	9.4	14.1	5.2
15	6.4	4.0	4.6	3.1	1.9	2.5	6.0	9.7	9.7	10.4	10.7	11.1	12.7	13.8	13.3	12.1	12.0	11.7	11.1	9.9	9.1	9.4	8.9	8.9	8.9	13.8	1.9
16	7.8	8.2	8.2	8.0	7.9	7.2	9.0	11.2	12.7	14.6	15.9	17.0	17.5	17.2	18.2	19.5	19.8	18.5	16.5	14.8	12.0	10.7	8.5	7.3	12.8	19.8	7.2
17	6.1	5.1	4.9	5.2	4.9	6.4	9.2	12.2	15.1	18.1	19.5	20.5	20.5	22.3	21.6	21.0	20.6	19.2	18.5	16.7	14.8	12.9	10.5	10.0	14.0	22.3	4.9
18	8.7	7.5	8.7	9.8	9.3	9.8	12.1	13.8	15.3	15.6	Au	Au	Au	Au	21.6	22.7	21.6	21.4	20.6	17.0	16.5	14.3	12.0	10.3	14.4	22.7	7.5
19	9.2	8.3	6.4	4.9	3.8	4.1	8.2	12.4	17.0	19.0	18.8	18.4	18.9	20.7	21.3	20.6	18.4	18.5	18.4	17.4	15.7	13.4	12.9	10.1	14.0	21.3	3.8
20	6.3	5.2	3.5	2.4	1.0	2.0	5.4	10.9	13.8	15.1	16.2	17.4	17.7	17.5	17.9	18.2	18.4	18.6	18.7	16.8	12.9	9.9	8.5	5.6	11.7	18.7	1.0
21	4.8	3.0	2.2	0.7	0.3	1.4	6.1	11.0	16.0	18.8	19.7	20.2	20.0	19.6	16.4	15.7	14.6	14.0	13.0	12.0	11.1	9.0	7.0	7.3	11.0	20.2	0.3
22	6.8	5.9	5.9	4.3	5.3	5.9	7.2	8.2	9.6	12.2	14.4	16.4	17.6	18.2	19.0	19.1	18.8	18.1	17.1	16.0	11.5	9.8	6.7	6.7	11.7	19.1	4.3
23	4.4	3.3	2.5	2.1	1.4	2.6	6.3	11.5	16.4	18.9	20.3	21.0	20.4	21.6	21.6	21.9	22.5	22.1	20.9	18.6	16.4	13.8	14.3	12.6	14.1	22.5	1.4
24	11.9	12.0	11.6	11.1	8.5	8.3	10.4	14.3	16.5	17.5	17.9	18.3	19.9	21.2	21.1	21.3	22.5	22.0	21.4	19.8	17.5	16.7	16.8	16.5	16.5	22.5	8.3
25	15.7	14.8	13.2	12.4	12.2	12.2	12.3	13.6	15.8	18.3	19.3	19.8	20.9	21.8	22.4	22.4	22.1	23.2	22.2	20.6	16.8	14.1	11.7	10.2	17.0	23.2	10.2
26	9.4	8.6	7.2	5.9	4.7	5.6	10.0	14.9	19.8	22.1	23.1	24.4	25.3	26.6	27.3	27.5	28.0	27.5	27.3	23.9	18.7	14.8	12.3	11.2	17.8	28.0	4.7
27	10.1	9.6	9.2	8.2	7.5	8.0	12.2	17.3	22.5	25.5	27.4	28.3	29.2	29.8	30.3	30.7	30.5	30.2	29.1	26.3	22.6	18.8	16.3	14.4	20.6	30.7	7.5
28	13.3	12.2	12.1	10.2	9.6	9.4	13.3	18.4	23.3	27.1	28.5	29.7	30.4	30.3	30.4	30.7	30.0	29.1	26.9	25.3	21.1	17.3	16.4	14.8	21.2	30.7	9.4
29	13.7	11.6	10.4	9.5	8.7	8.9	12.5	17.8	23.8	27.8	28.9	30.0	30.8	30.4	29.8	28.6	23.0	18.1	18.7	18.5	17.4	16.0	15.6	15.0	19.4	30.8	8.7
30	14.3	13.9	13.5	13.1	13.0	12.3	14.0	17.3	20.8	22.7	24.3	24.8	24.3	26.3	25.9	25.7	24.7	24.5	23.7	21.5	18.1	16.1	12.9	9.9	19.1	26.3	9.9
Avg	8.7	7.7	6.9	6.2	5.5	5.9	8.7	12.6	15.8	17.7	18.8	19.6	20.2	21.0	21.2	20.9	20.2	19.6	18.7	17.0	14.5	12.7	11.2	9.9	14.2	21.9	5.1
Max	15.7	14.8	13.5	13.1	13.0	12.3	14.0	18.4	23.8	27.8	28.9	30.0	30.8	30.4	30.4	30.7	30.5	30.2	29.1	26.3	22.6	18.8	16.8	16.5	21.2	30.8	10.2
Min	4.4	3.0	2.0	0.2	-0.8	-0.3	4.2	7.9	8.9	9.8	10.2	10.6	11.6	12.9	13.3	9.1	11.1	10.7	11.1	9.9	9.1	7.8	6.1	4.6	8.9	13.8	-0.8

A-15

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
April 2015

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	52	165	424	591	541	521	460	590	472	401	339	206	37	0	0	0	0	0	200	591	0
2	0	0	0	0	0	0	37	173	358	462	587	526	565	752	626	180	242	132	41	0	0	0	0	0	195	752	0
3	0	0	0	0	0	0	37	157	311	458	758	772	832	790	590	381	195	99	19	0	0	0	0	0	225	832	0
4	0	0	0	0	0	0	34	145	259	229	268	532	506	581	570	359	103	34	11	0	0	0	0	0	151	581	0
5	0	0	0	0	0	0	26	95	210	182	308	163	111	101	76	115	95	44	7	0	0	0	0	0	64	308	0
6	0	0	0	0	0	0	25	71	146	406	441	509	566	483	171	131	87	24	6	0	0	0	0	0	128	566	0
7	0	0	0	0	0	1	77	259	423	618	756	827	856	822	721	552	337	134	29	0	0	0	0	0	267	856	0
8	0	0	0	0	0	1	55	257	468	490	137	192	216	490	288	237	98	54	27	0	0	0	0	0	125	490	0
9	0	0	0	0	0	1	64	252	462	627	683	852	889	819	769	583	366	248	63	1	0	0	0	0	278	889	0
10	0	0	0	0	0	3	87	266	455	590	678	486	730	678	727	573	245	104	43	0	0	0	0	0	236	730	0
11	0	0	0	0	0	2	41	73	153	302	437	312	374	350	351	310	179	179	29	0	0	0	0	0	129	437	0
12	0	0	0	0	0	0	32	237	304	610	473	319	482	718	554	606	437	139	31	0	0	0	0	0	206	718	0
13	0	0	0	0	0	12	164	227	271	352	466	631	813	777	524	430	325	215	35	1	0	0	0	0	218	813	0
14	0	0	0	0	0	3	128	180	408	372	429	735	718	323	114	113	22	37	13	0	0	0	0	0	150	735	0
15	0	0	0	0	0	3	36	68	199	387	606	467	421	318	385	422	341	192	69	3	0	0	0	0	163	606	0
16	0	0	0	0	0	5	114	306	502	671	798	876	899	862	771	633	464	279	93	2	0	0	0	0	303	899	0
17	0	0	0	0	0	5	128	314	501	663	789	868	890	856	768	632	462	280	95	2	0	0	0	0	302	890	0
18	0	0	0	0	0	8	95	261	461	627	321	130	453	407	619	534	373	295	80	3	0	0	0	0	194	627	0
19	0	0	0	0	0	6	131	306	461	580	649	497	327	603	473	468	179	72	42	3	0	0	0	0	200	649	0
20	0	0	0	0	0	9	154	321	512	672	800	881	900	879	752	433	346	298	97	4	0	0	0	0	294	900	0
21	0	0	0	0	0	12	141	322	506	668	786	888	473	298	363	288	422	200	95	3	0	0	0	0	228	888	0
22	0	0	0	0	0	10	128	323	510	671	800	885	883	497	361	336	89	21	26	2	0	0	0	0	231	885	0
23	0	0	0	0	0	10	111	321	523	681	822	890	916	876	783	647	303	139	58	3	0	0	0	0	295	916	0
24	0	0	0	0	0	7	36	142	229	552	279	260	353	329	235	141	83	37	9	0	0	0	0	0	112	552	0
25	0	0	0	0	0	3	31	96	316	614	813	635	655	608	842	457	366	250	80	6	0	0	0	0	241	842	0
26	0	0	0	0	0	5	44	89	150	187	319	296	185	279	258	186	175	103	44	3	0	0	0	0	97	319	0
27	0	0	0	0	0	8	88	265	298	492	870	708	751	896	795	657	491	311	128	8	0	0	0	0	282	896	0
28	0	0	0	0	0	29	197	362	540	707	831	910	929	890	806	668	500	318	132	9	0	0	0	0	326	929	0
29	0	0	0	0	0	30	173	361	553	705	803	906	920	833	332	117	64	66	62	3	0	0	0	0	247	920	0
30	0	0	0	0	0	12	49	292	553	704	823	900	913	872	785	647	476	298	121	8	0	0	0	0	311	913	0
Avg	0	0	0	0	0	6	84	224	382	529	602	612	633	619	529	408	273	160	54	2	0	0	0	0	213	731	0
Max	0	0	0	0	0	30	197	362	553	707	870	910	929	896	842	668	500	318	132	9	0	0	0	0	326	929	0
Min	0	0	0	0	0	0	25	68	146	182	137	130	111	101	76	113	22	21	6	0	0	0	0	0	64	308	0

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
May 2015

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	11	103	229	421	657	758	443	335	512	747	491	476	287	127	13	0	0	0	0	234	758	0
2	0	0	0	0	0	15	81	313	531	676	646	495	447	602	398	219	238	226	93	15	0	0	0	0	208	676	0
3	0	0	0	0	0	41	166	241	560	717	849	943	902	857	778	627	437	260	115	21	0	0	0	0	313	943	0
4	0	0	0	0	0	37	174	339	419	578	795	785	649	712	756	450	491	300	127	17	0	0	0	0	276	795	0
5	0	0	0	0	0	50	200	299	444	540	528	578	760	345	88	34	78	77	34	4	0	0	0	0	169	760	0
6	0	0	0	0	0	18	72	37	97	289	653	697	866	620	534	503	353	214	78	13	0	0	0	0	210	866	0
7	0	0	0	0	0	30	86	173	254	345	377	407	308	321	397	482	336	47	16	2	0	0	0	0	149	482	0
8	0	0	0	0	0	25	58	100	65	141	153	280	294	232	191	152	87	57	38	9	0	0	0	0	78	294	0
9	0	0	0	0	1	57	231	397	593	664	737	876	724	461	326	326	252	202	106	7	0	0	0	0	248	876	0
10	0	0	0	0	1	61	243	414	597	757	882	974	987	947	859	690	366	376	71	15	0	0	0	0	343	987	0
11	0	0	0	0	1	65	217	404	583	703	807	518	491	606	431	337	198	110	65	10	0	0	0	0	231	807	0
12	0	0	0	0	0	15	76	215	292	324	260	410	505	665	562	140	115	82	41	5	0	0	0	0	154	665	0
13	0	0	0	0	0	22	53	175	586	696	818	750	766	552	512	548	333	204	117	38	0	0	0	0	257	818	0
14	0	0	0	0	0	8	44	127	456	518	878	990	838	869	588	253	104	117	75	11	0	0	0	0	245	990	0
15	0	0	0	0	0	11	36	88	231	294	227	138	173	255	332	296	206	79	35	7	0	0	0	0	100	332	0
16	0	0	0	0	0	5	28	63	98	122	162	201	231	160	181	119	134	71	23	4	0	0	0	0	67	231	0
17	0	0	0	0	2	39	64	150	158	97	56	62	168	264	149	271	223	180	73	15	0	0	0	0	82	271	0
18	0	0	0	0	1	36	170	236	268	447	670	838	718	806	830	601	387	118	38	6	0	0	0	0	257	838	0
19	0	0	0	0	1	28	117	305	395	422	578	535	468	520	684	603	487	155	121	21	0	0	0	0	227	684	0
20	0	0	0	0	3	79	247	364	621	769	890	962	987	949	860	727	562	378	203	43	0	0	0	0	360	987	0
21	0	0	0	0	3	81	250	430	605	752	841	949	969	927	866	697	250	153	175	35	1	0	0	0	333	969	0
22	0	0	0	0	3	85	246	440	556	556	521	566	115	393	509	575	558	317	201	24	0	0	0	0	236	575	0
23	0	0	0	0	0	10	18	73	92	155	137	160	179	200	121	77	73	41	24	7	0	0	0	0	57	200	0
24	0	0	0	0	4	35	44	80	107	171	500	517	444	470	502	251	188	84	77	27	0	0	0	0	146	517	0
25	0	0	0	0	4	91	277	430	679	565	485	476	194	584	528	751	395	213	55	20	0	0	0	0	239	751	0
26	0	0	0	0	0	11	29	48	116	317	217	382	818	574	798	492	275	211	121	20	0	0	0	0	185	818	0
27	0	0	0	0	3	21	121	286	304	400	693	659	668	695	766	634	446	385	101	8	0	0	0	0	258	766	0
28	0	0	0	0	3	34	59	78	90	26	57	189	293	174	175	142	213	31	42	13	0	0	0	0	67	293	0
29	0	0	0	0	1	40	254	459	604	802	537	847	962	951	880	609	525	372	157	30	0	0	0	0	335	962	0
30	0	0	0	0	3	66	246	410	546	243	326	404	354	342	148	142	164	182	64	40	2	0	0	0	153	546	0
31	0	0	0	0	4	98	240	183	316	556	728	873	847	553	625	692	560	277	68	8	1	0	0	0	276	873	0
Avg	0	0	0	0	1	40	137	245	377	461	541	578	563	552	520	417	307	187	86	16	0	0	0	0	210	688	0
Max	0	0	0	0	4	98	277	459	679	802	890	990	987	951	880	751	562	385	203	43	2	0	0	0	360	990	0
Min	0	0	0	0	0	5	18	37	65	26	56	62	115	160	88	34	73	31	16	2	0	0	0	0	57	200	0

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
June 2015

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	7	37	131	321	592	606	628	716	729	858	557	118	6	2	14	23	0	0	0	0	223	858	0
2	0	0	0	0	3	64	213	370	271	460	394	559	832	822	175	78	529	330	73	46	1	0	0	0	218	832	0
3	0	0	0	0	6	41	182	440	545	419	584	653	551	403	338	324	462	395	172	18	0	0	0	0	231	653	0
4	0	0	0	0	6	89	259	437	665	679	577	732	983	477	538	467	437	335	199	27	2	0	0	0	288	983	0
5	0	0	0	0	7	100	204	375	550	607	484	169	324	221	608	144	70	33	5	9	3	0	0	0	163	608	0
6	0	0	0	0	6	91	269	444	619	786	688	935	760	888	878	788	584	420	84	19	1	0	0	0	344	935	0
7	0	0	0	0	7	95	270	449	608	736	833	938	986	961	901	416	351	376	203	52	4	0	0	0	341	986	0
8	0	0	0	0	7	116	268	444	614	763	871	941	966	931	849	730	573	398	231	74	2	0	0	0	366	966	0
9	0	0	0	0	7	109	272	449	619	766	874	944	964	925	752	454	68	13	36	10	0	0	0	0	303	964	0
10	0	0	0	0	3	80	258	447	553	441	499	680	797	924	851	676	349	351	169	92	3	0	0	0	299	924	0
11	0	0	0	0	6	110	266	435	602	752	865	933	716	851	870	632	586	377	234	77	2	0	0	0	346	933	0
12	0	0	0	0	9	111	272	451	618	768	876	971	892	979	858	720	589	424	252	85	3	0	0	0	370	979	0
13	0	0	0	0	9	119	283	465	638	787	899	967	984	940	740	649	581	416	205	109	4	0	0	0	366	984	0
14	0	0	0	0	5	61	124	183	341	378	340	346	625	801	768	572	201	115	76	56	2	0	0	0	208	801	0
15	0	0	0	0	5	44	174	121	181	338	341	412	843	969	665	460	372	303	238	47	2	0	0	0	230	969	0
16	0	0	0	0	5	73	268	430	586	752	854	928	786	417	432	770	625	348	216	80	3	0	0	0	316	928	0
17	0	0	0	0	5	78	168	297	432	724	839	872	706	966	739	698	512	213	219	79	4	0	0	0	315	966	0
18	0	0	0	0	8	67	190	352	553	379	Au	Au	Au	Au	853	614	159	321	153	38	1	0	0	0	184	853	0
19	0	0	0	0	5	84	249	387	506	676	592	395	670	923	631	307	200	272	151	71	5	0	0	0	255	923	0
20	0	0	0	0	8	118	283	466	611	760	626	828	771	565	606	587	510	418	247	84	6	0	0	0	312	828	0
21	0	0	0	0	8	93	281	372	528	625	677	742	434	332	251	158	106	42	35	25	11	0	0	0	197	742	0
22	0	0	0	0	6	40	107	94	165	449	763	880	905	766	635	626	460	323	152	65	3	0	0	0	268	905	0
23	0	0	0	0	11	112	192	445	613	750	887	822	441	682	432	461	479	295	175	50	1	0	0	0	285	887	0
24	0	0	0	0	11	109	253	424	486	563	434	538	771	811	557	336	608	302	189	72	2	0	0	0	269	811	0
25	0	0	0	0	3	12	42	125	342	620	504	558	559	703	715	537	404	433	242	85	5	0	0	0	245	715	0
26	0	0	0	0	7	104	263	437	607	756	867	943	964	930	853	735	586	415	243	87	4	0	0	0	367	964	0
27	0	0	0	0	10	101	270	401	604	747	861	935	959	929	856	752	568	412	234	75	4	0	0	0	363	959	0
28	0	0	0	0	3	65	248	418	585	740	856	936	989	768	825	817	549	432	231	78	3	0	0	0	356	989	0
29	0	0	0	0	8	78	225	370	586	730	777	910	945	451	355	190	55	19	241	39	1	0	0	0	249	945	0
30	0	0	0	0	2	54	236	425	591	737	885	817	508	922	607	553	358	299	168	45	4	0	0	0	300	922	0
Avg	0	0	0	0	6	82	224	376	527	643	696	759	771	763	657	512	398	294	170	57	3	0	0	0	286	890	0
Max	0	0	0	0	11	119	283	466	665	787	899	971	989	979	901	817	625	433	252	109	11	0	0	0	370	989	0
Min	0	0	0	0	2	12	42	94	165	338	340	169	324	221	175	78	6	2	5	9	0	0	0	0	163	608	0

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
April 2015

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	55.7	58.7	59.1	57.0	55.6	55.5	57.4	51.8	45.1	41.9	37.8	35.3	31.7	27.8	23.1	24.2	27.2	30.3	35.5	43.2	58.4	60.9	61.1	60.7	45.6	61.1	23.1
2	64.9	83.0	86.9	84.2	85.4	85.8	83.8	78.3	69.4	68.8	64.9	61.5	50.9	47.7	43.4	44.6	39.6	40.0	59.4	71.9	82.0	85.8	85.7	87.8	69.0	87.8	39.6
3	87.0	89.9	91.0	90.1	87.4	88.8	87.9	77.1	67.0	59.1	46.4	37.8	32.2	29.9	25.3	28.4	30.2	29.7	31.4	38.2	44.4	53.3	57.3	60.1	57.1	91.0	25.3
4	61.3	58.3	57.6	60.6	67.6	72.4	75.1	67.1	48.5	45.1	51.3	44.7	39.2	34.5	39.0	42.2	44.9	71.2	94.9	94.8	94.9	95.3	94.9	93.4	64.5	95.3	34.5
5	92.4	90.9	90.1	90.1	89.8	89.8	91.1	92.7	92.9	91.6	91.4	88.6	94.4	95.4	92.5	92.4	91.2	87.1	85.2	85.6	83.0	85.4	86.5	88.4	89.9	95.4	83.0
6	88.9	88.3	86.7	87.0	86.2	87.6	90.1	92.2	92.6	89.7	85.8	81.9	77.6	71.2	79.9	81.6	81.0	91.9	94.3	96.1	95.7	95.6	95.2	91.7	87.9	96.1	71.2
7	91.1	89.9	88.9	87.2	86.2	84.5	85.9	82.8	75.3	69.2	58.9	54.9	50.5	45.5	39.7	33.1	29.7	33.2	47.1	60.9	68.2	70.4	71.2	82.0	66.1	91.1	29.7
8	81.4	80.7	77.9	82.5	79.6	79.7	82.0	64.3	54.7	45.9	52.6	59.0	67.5	69.9	66.2	79.8	73.5	77.7	87.1	90.3	93.0	92.9	94.8	94.1	76.1	94.8	45.9
9	94.4	93.8	92.6	92.9	91.3	91.1	89.7	80.5	75.4	63.3	51.0	40.0	37.2	30.9	26.9	28.1	29.5	30.0	36.3	55.3	63.4	72.7	78.0	80.2	63.5	94.4	26.9
10	85.0	87.4	87.9	90.0	90.0	91.4	88.8	80.4	62.4	47.7	40.7	39.2	36.4	35.7	30.4	29.0	30.7	32.6	33.5	39.6	55.3	63.8	68.3	74.3	59.2	91.4	29.0
11	72.6	70.0	72.8	76.7	77.3	81.3	82.5	81.1	55.6	33.8	31.5	31.1	32.2	37.9	41.0	45.6	64.4	68.0	68.1	62.0	51.8	47.5	43.6	45.5	57.2	82.5	31.1
12	53.1	59.4	64.3	67.6	74.2	80.5	73.5	62.5	51.8	43.9	39.8	38.3	39.5	37.0	35.3	32.8	32.7	34.0	37.0	40.0	42.5	45.4	49.1	51.9	49.4	80.5	32.7
13	54.5	60.1	68.4	74.5	80.2	80.9	73.6	58.7	47.2	39.6	34.9	32.2	28.7	25.0	23.8	21.5	19.2	18.8	22.3	28.6	30.0	32.4	31.8	29.9	42.4	80.9	18.8
14	41.7	50.2	62.2	70.6	71.0	57.0	36.8	30.0	26.0	23.7	25.5	27.5	30.9	32.3	33.1	59.9	91.2	97.1	96.5	95.9	94.8	94.6	91.5	91.2	59.6	97.1	23.7
15	92.3	92.0	92.1	91.2	88.5	86.3	82.2	83.6	79.0	70.3	64.9	65.1	65.6	67.2	64.4	60.3	59.3	59.4	61.8	74.3	86.7	90.7	89.6	90.0	77.4	92.3	59.3
16	89.5	89.8	88.6	87.9	88.2	87.2	86.3	84.5	73.9	60.3	54.0	48.1	38.4	35.2	31.1	27.3	27.7	28.6	34.7	61.9	72.7	76.7	79.5	82.4	63.9	89.8	27.3
17	85.0	86.1	83.7	86.0	87.6	88.3	83.3	66.7	55.3	43.7	36.5	30.4	28.1	24.8	21.4	18.3	20.4	21.9	25.2	45.3	54.7	60.7	68.5	72.4	53.9	88.3	18.3
18	81.0	84.2	87.1	87.1	88.9	87.9	86.0	78.3	61.7	55.7	67.8	68.2	63.0	58.0	56.2	55.0	59.9	57.9	60.5	64.5	71.3	75.0	79.4	85.0	71.7	88.9	55.0
19	88.9	89.4	90.1	91.0	91.2	90.2	83.0	73.9	59.8	47.9	42.5	40.0	41.8	41.8	40.5	38.3	41.4	43.0	44.9	47.8	62.9	72.8	79.1	83.3	63.6	91.2	38.3
20	86.9	87.5	88.2	89.1	88.9	89.0	83.9	71.3	57.3	45.5	38.3	32.9	29.1	25.9	24.6	26.7	29.0	30.1	34.5	41.6	58.0	65.3	67.9	73.4	56.9	89.1	24.6
21	79.9	85.1	86.7	86.9	87.4	88.1	83.1	64.1	42.2	33.3	31.4	29.7	30.0	30.1	29.3	29.1	28.0	29.6	29.8	45.1	54.9	58.4	65.8	68.5	54.0	88.1	28.0
22	68.9	72.4	79.0	87.1	87.5	87.4	85.3	63.2	46.5	35.2	31.2	27.9	27.5	27.8	25.8	25.4	30.9	45.2	53.4	57.5	80.8	89.9	90.9	92.8	59.1	92.8	25.4
23	92.8	93.3	94.7	96.6	96.7	97.6	97.9	92.0	56.5	37.2	23.0	19.7	17.6	18.2	18.3	22.1	28.8	31.9	34.0	35.9	42.7	49.5	56.4	63.5	54.9	97.9	17.6
24	71.2	74.5	74.0	82.6	85.2	85.5	83.3	71.6	62.6	42.1	43.3	45.7	45.9	49.9	62.5	79.4	88.5	87.5	90.0	92.3	96.5	97.7	97.9	98.1	75.3	98.1	42.1
25	98.2	98.2	98.0	97.4	94.6	94.6	89.0	84.5	78.3	72.7	78.2	76.8	71.5	69.0	67.3	71.4	66.2	61.6	62.3	77.5	88.6	92.0	94.2	93.7	82.3	98.2	61.6
26	88.8	88.2	82.5	78.0	76.4	75.3	74.7	80.1	79.8	84.6	89.7	85.1	88.5	87.7	87.2	91.2	92.8	92.1	93.0	95.1	95.9	95.9	95.3	95.1	87.2	95.9	74.7
27	94.4	93.8	93.3	92.9	92.6	93.8	87.2	79.0	78.9	75.4	66.5	58.2	54.4	47.8	43.0	41.2	40.1	39.5	42.3	61.6	78.2	83.2	87.0	89.3	71.4	94.4	39.5
28	93.0	93.1	93.2	94.1	94.5	93.1	88.9	73.7	52.6	43.9	36.8	31.0	28.0	24.3	20.4	18.2	19.0	19.1	21.8	40.9	53.7	58.5	64.8	74.7	55.5	94.5	18.2
29	76.8	73.0	81.7	82.4	82.4	82.7	72.3	56.1	36.8	29.5	27.5	24.3	23.9	21.9	23.8	29.4	48.8	59.0	63.8	75.1	87.1	87.8	94.1	97.0	59.9	97.0	21.9
30	93.2	92.7	92.3	93.9	93.5	80.5	81.4	66.1	51.9	43.2	40.1	37.3	34.4	29.9	26.4	24.5	24.5	26.0	28.1	33.4	51.3	65.3	70.7	78.3	56.6	93.9	24.5
Avg	80.2	81.8	83.1	84.5	84.9	84.5	81.5	72.9	61.2	52.8	49.5	46.4	44.6	42.7	41.4	43.4	46.3	49.1	53.6	61.7	69.8	73.8	76.3	79.0	64.4	91.0	36.4
Max	98.2	98.2	98.0	97.4	96.7	97.6	97.9	92.7	92.9	91.6	91.4	88.6	94.4	95.4	92.5	92.4	92.8	97.1	96.5	96.1	96.5	97.7	97.9	98.1	89.9	98.2	83.0
Min	41.7	50.2	57.6	57.0	55.6	55.5	36.8	30.0	26.0	23.7	23.0	19.7	17.6	18.2	18.3	18.2	19.0	18.8	21.8	28.6	30.0	32.4	31.8	29.9	42.4	61.1	17.6

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (% RH)
May 2015

Day	<< Hour >>																								Avg	Max	Min
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	82.5	83.2	85.3	85.4	85.5	85.0	83.9	78.2	64.5	32.1	29.0	30.0	30.5	25.6	23.0	22.2	21.2	20.1	19.8	25.6	34.0	30.1	41.5	47.2	48.6	85.5	19.8
2	56.4	60.9	67.1	71.1	74.8	77.0	77.0	59.1	32.8	30.4	30.7	29.4	27.3	23.0	21.8	22.6	20.0	18.1	18.8	23.7	39.6	52.7	63.1	70.4	44.5	77.0	18.1
3	83.8	87.3	92.3	94.3	92.2	92.1	84.0	75.7	61.4	53.4	45.4	37.3	31.5	26.4	23.1	22.7	32.6	36.6	43.4	47.3	53.0	52.2	54.8	58.3	57.5	94.3	22.7
4	61.2	67.4	70.1	73.8	85.2	88.0	82.6	61.5	48.2	43.0	39.1	36.9	34.3	28.7	25.3	25.8	22.1	23.5	28.6	47.7	48.7	47.5	66.5	77.1	51.4	88.0	22.1
5	81.5	84.9	89.0	92.8	91.4	88.7	79.6	63.7	46.8	34.2	33.8	33.9	30.3	31.1	44.3	74.3	84.7	87.2	86.8	87.1	82.7	86.7	89.9	92.8	70.8	92.8	30.3
6	94.2	96.1	92.5	73.1	66.4	63.4	59.3	69.7	76.8	65.2	60.9	56.2	50.5	46.5	45.3	46.1	47.2	49.0	49.6	55.4	55.9	55.9	61.7	61.8	62.4	96.1	45.3
7	62.0	63.8	64.9	65.9	67.3	65.6	59.5	57.3	55.2	57.4	60.9	62.4	61.3	65.2	67.0	65.9	61.1	65.6	68.5	70.7	74.7	78.3	80.4	84.0	66.0	84.0	55.2
8	88.5	92.0	93.8	94.1	92.9	93.6	91.9	89.5	84.0	77.7	75.2	74.6	73.1	71.9	67.7	80.8	91.2	91.9	96.0	96.0	94.6	91.0	93.9	94.1	87.1	96.0	67.7
9	94.6	94.0	91.8	93.6	93.4	91.5	81.8	74.3	74.8	69.3	63.0	58.1	52.4	47.3	50.2	53.4	58.9	55.4	56.5	63.9	69.9	78.5	84.9	88.8	72.5	94.6	47.3
10	90.8	92.6	91.6	92.0	90.9	88.7	79.9	67.8	41.8	26.4	22.7	17.0	18.0	16.8	17.1	15.9	24.3	25.2	28.9	39.9	51.2	55.3	64.3	73.8	51.4	92.6	15.9
11	79.8	82.8	84.6	85.6	86.1	83.2	71.5	60.0	33.5	25.8	23.4	26.1	27.2	27.0	26.8	26.5	27.2	29.8	33.8	36.6	43.9	47.6	49.1	50.9	48.7	86.1	23.4
12	52.2	54.6	54.8	55.5	55.2	58.8	56.5	58.8	59.9	61.8	65.8	62.3	59.9	56.9	54.8	56.5	60.8	64.4	64.4	64.6	69.7	74.2	86.2	88.8	62.4	88.8	52.2
13	88.3	87.1	87.8	85.8	84.1	83.1	81.5	77.9	70.1	64.3	60.5	58.2	55.2	49.4	41.4	37.0	47.0	62.0	67.8	70.9	75.2	80.6	86.0	88.8	70.4	88.8	37.0
14	92.3	93.9	95.7	93.8	89.3	87.3	88.0	83.5	82.7	84.6	77.0	72.3	66.3	63.2	71.3	78.6	81.9	82.3	85.6	82.2	86.5	86.9	83.5	81.2	82.9	95.7	63.2
15	82.2	80.9	86.0	91.3	89.0	87.6	85.7	89.0	85.8	79.5	81.6	86.1	83.0	81.2	79.5	79.4	75.0	82.1	86.8	88.3	92.1	95.4	95.8	87.1	85.4	95.8	75.0
16	84.7	84.4	84.8	89.4	84.7	89.0	89.1	83.9	84.7	84.6	83.8	87.1	88.4	85.4	84.7	84.3	83.8	83.0	83.5	84.2	82.1	82.3	84.6	89.0	85.2	89.4	82.1
17	90.9	91.6	93.5	94.4	93.5	91.2	86.9	88.1	86.5	85.9	83.7	82.5	77.3	76.0	78.5	75.7	74.7	74.5	78.4	79.3	83.8	86.0	86.0	86.5	84.4	94.4	74.5
18	88.9	88.8	86.3	84.1	87.3	85.8	79.9	78.9	76.2	74.1	72.6	71.0	69.7	69.3	66.3	66.9	68.4	72.6	75.4	75.9	75.8	74.3	73.6	76.2	76.6	88.9	66.3
19	77.7	78.6	74.9	75.8	82.2	68.6	68.9	61.5	52.8	54.4	50.1	48.5	52.1	53.6	50.5	49.3	52.4	59.6	71.2	80.2	76.8	74.0	76.3	79.0	65.4	82.2	48.5
20	82.9	80.6	81.8	78.2	77.6	75.2	61.9	59.9	54.0	45.8	38.9	31.3	25.7	25.3	29.1	32.2	32.1	30.4	34.1	43.9	53.6	61.7	62.0	59.7	52.4	82.9	25.3
21	63.1	65.9	71.9	76.8	84.1	83.6	69.7	59.7	55.6	54.5	52.7	50.1	48.7	48.1	47.0	49.3	52.7	52.2	52.4	55.9	59.8	67.1	69.4	74.1	61.0	84.1	47.0
22	74.4	80.7	88.0	90.5	92.8	88.3	79.3	63.8	52.0	52.3	50.7	48.2	70.7	85.4	84.8	73.0	63.9	63.9	64.3	68.3	78.0	87.5	86.8	89.1	74.0	92.8	48.2
23	88.8	92.2	94.0	94.3	96.3	96.7	96.3	96.3	88.4	81.6	81.3	83.4	82.0	81.9	88.6	89.7	90.3	89.3	90.9	85.7	93.2	92.6	92.9	94.9	90.1	96.7	81.3
24	95.6	97.7	98.5	98.3	98.2	98.0	97.1	92.9	82.6	76.1	67.4	65.6	61.9	62.6	60.9	62.6	59.0	65.1	66.4	72.2	87.0	88.8	90.5	94.8	80.8	98.5	59.0
25	94.0	96.4	95.5	96.3	96.2	93.0	85.4	72.3	60.7	61.1	58.1	53.1	53.3	65.1	64.2	48.6	44.2	47.4	55.7	57.7	66.5	75.6	83.1	84.9	71.2	96.4	44.2
26	90.4	90.8	92.2	91.6	95.6	95.9	95.4	94.3	88.8	82.6	78.4	73.4	65.4	61.9	52.4	49.8	57.5	61.0	59.2	66.1	80.8	88.7	90.3	90.1	78.9	95.9	49.8
27	94.4	95.0	94.1	92.2	94.6	93.3	89.6	78.2	76.1	67.9	66.2	65.4	60.6	61.7	53.5	55.7	54.5	52.6	63.0	78.1	87.0	91.4	90.4	93.2	77.0	95.0	52.6
28	94.1	97.2	96.4	95.8	94.7	95.8	94.2	92.7	90.2	93.1	89.8	89.2	87.0	79.3	82.4	82.9	81.8	83.2	80.1	81.9	93.0	89.8	88.2	86.5	89.1	97.2	79.3
29	88.5	89.8	91.4	92.6	94.7	93.9	84.2	80.7	79.0	72.5	71.4	67.2	65.7	63.4	60.6	58.6	60.6	63.7	72.2	77.9	81.2	84.8	88.8	89.7	78.0	94.7	58.6
30	90.3	91.1	91.8	95.6	97.2	97.5	93.7	70.4	59.1	60.0	58.7	55.5	56.5	59.9	65.7	82.0	82.3	71.9	73.5	83.4	91.7	93.1	95.4	93.4	79.6	97.5	55.5
31	97.0	95.7	96.9	97.7	97.7	97.9	92.2	84.3	77.4	64.8	54.6	48.7	46.5	42.6	39.1	36.8	34.8	36.4	51.5	58.6	68.8	78.7	85.2	90.2	69.8	97.9	34.8
Avg	83.4	85.1	86.4	86.8	87.5	86.4	81.5	75.0	67.2	61.8	58.9	56.8	55.2	54.2	53.8	55.0	56.4	58.1	61.5	66.1	72.0	75.1	78.9	81.2	70.2	91.6	48.5
Max	97.0	97.7	98.5	98.3	98.2	98.0	97.1	96.3	90.2	93.1	89.8	89.2	88.4	85.4	88.6	89.7	91.2	91.9	96.0	96.0	94.6	95.4	95.8	94.9	90.1	98.5	82.1
Min	52.2	54.6	54.8	55.5	55.2	58.8	56.5	57.3	32.8	25.8	22.7	17.0	18.0	16.8	17.1	15.9	20.0	18.1	18.8	23.7	34.0	30.1	41.5	47.2	44.5	77.0	15.9

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APPENDIX B: PERFORMANCE AUDIT REPORTS
SECOND QUARTER 2015



PRELIMINARY METEOROLOGICAL AUDIT REPORT

Client : Tintina Resources
 SITE : Black Butte

DATE : 06/18/15

Audit Start Time : 10:30 MST Audit End Time : 13:30 MST

Temperature

Audit Device : Control Company Digital Thermometer
 Model Number : 4000 Serial Number : 140251289
 Last certified : 04/10/15
 Sensor Make : Climatronics
 Model Number : 100093 Serial Number Upper: 8253 Serial Number Lower: 8255

Temperature bath results as is

	9m	9m	2m	2m	9m - 2m
Audit	DAS	DAS	DAS	DAS	DAS
Value	Value	Diff.	Value	Diff.	Diff.
oC	oC	oC	oC	oC	oC
-9.39	-8.64	0.75	-9.01	0.38	-0.37
20.00	19.96	-0.04	19.99	-0.01	0.03
49.51	49.10	-0.41	49.41	-0.10	0.31

Temp probes were replaced after the audits.

Temperature bath results new sensors

Model Number : 100093.00 Serial Number Upper: P12535 Serial Number Lower: P12535

Temperature bath results as is

	9m	9m	2m	2m	9m - 2m
Audit	DAS	DAS	DAS	DAS	DAS
Value	Value	Diff.	Value	Diff.	Diff.
oC	oC	oC	oC	oC	oC
-9.51	-9.51	0.00	-9.24	0.27	0.27
19.89	19.81	-0.08	19.86	-0.03	0.05
49.53	49.62	0.09	49.44	-0.09	-0.18

Wind Direction

Alignment Audit Device : Nextar
 Model Number : X3-T
 Linearity Audit Device : Climatronics
 Model Number : 101966 Serial Number : 72
 Sensor height : 10 Meter
 Sensor Make : Climatronics
 Model Number : 102083 Serial Number : 1849

Linearity Check from DAS (as found)

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0.5	0.5	0.5	0.5
30	33.0	33.0	3.0	3.0
60	62.2	61.2	2.2	1.2
90	91.7	91.6	1.7	1.6
120	123.1	123.1	3.1	3.1
150	152.2	152.1	2.2	2.1
180	182.2	182.0	2.2	2.0
210	211.5	211.3	1.5	1.3
240	241.5	241.3	1.5	1.3
270	271.0	270.8	1.0	0.8
300	301.3	301.2	1.3	1.2
330	331.1	331.1	1.1	1.1
		Max Diff	3.0	3.0

Crossarm Orientation : N-S
 Magnetic Declination : 12
 Measured Degrees : 0
 Sensor response aligned with crossarm (as found) : 0.0
 Sensor response aligned with crossarm (as left) : 0.0

Linearity Check from DAS (as left)

Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
0	0	1	0.0	1.0
90	90	90	0.0	0.0
180	179	180	-1.0	0.0
270	268	268	-2.0	-2.0
		Max Diff	0.0	1.0

Wind Speed

Audit Device : RMYoung
 Model Number : 18811 Serial Number : CA02929
 Last certified : NA
 Sensor height : 10 Meter
 Sensor Make : Climatronics
 Model Number : 102083 Serial Number : 1849

Synchronous motor checks

Known Value	Audit Value	DAS	
		Station Value	DAS Diff.
RPM	MPS	MPS	MPS
0	0.2	0.2	0.0
300	6.7	6.7	0.0
600	13.1	13.0	-0.1
950	20.6	20.6	0.0

Torque Audit Device : RM Young Disk
 Model Number : 18312 Serial Number : NA

Threshold Torque	Station Value	Diff. Torque
gm-cm	gm-cm	gm-cm
Maximum	0.3	-0.7
1.0		

Relative Humidity

Audit Device : Taylor Hygrometer
 Model Number : 5522 Serial Number : 66978
 Last certified : NA
 Sensor height : 10 Meter
 Sensor Make : Met One
 Model Number : 083E-0-35 Serial Number : P18245

Audit Dry-Bulb	Audit Wet-Bulb	Audit RH	Station RH	Audit Diff
oC	oC	%RH	%RH	%RH
74.0	64.0	58.0	57.0	-1

Barometric Pressure

Audit Device : Delta Cal
 Model Number : Delta Cal Serial Number : 999
 Last certified : 03/19/15
 Sensor Make : Climatronics
 Model Number : 102663-G0 Serial Number : 42017

Audit Value	Station Value	Audit Diff.
In Hg	In Hg	In Hg
24.28	24.46	0.18

Solar Radiation

Audit Device : Li Cor
 Model Number : LI-200 Serial Number : PY82228
 Last certified : 05/21/15 uA/m² : 98.51
 Sensor Make : Met One
 Model Number : 096-1 Serial Number : PY69829

Audit Value	Station Value	DAS Diff.
w/m2	w/m2	%
480	491	2.3

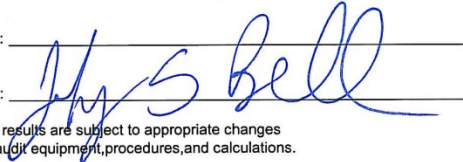
Precipitation

Audit Device : Fisher Scientific
Model Number : S32814A Serial Number : 250 ml
Last certified : NA
Sensor Make : Climatronics
Model Number : 100097-1-G0-H0 Serial Number : N3939
Opening : 8 Inch
Bucket Tip : 0.254 MM
Bucket Tip Volume : 8.24 ML
Level checked : OK
Wind Screen in place : OK

Known Value	Known Value	Station Value	% Diff
ML	Bucket Tips	Bucket Tips	
250.0	30	27	-11.0
250.0	30	28	-7.7

Signature Site Operator : _____

Signature Auditor : _____



Note: These preliminary results are subject to appropriate changes following verification of audit equipment, procedures, and calculations.

**APPENDIX C: EVAPORATION AND PRECIPITATION
SUMMARY, SECOND QUARTER 2015**

EVAPORATION AND PRECIPITATION SUMMARY FOR TINTINA SITE (06.23.2015 - 07.01.2015)
 (All values in inches)

DATE	TIME	EVAPORATION AS-FOUND	EVAPORATION AS-LEFT	PRECIPITATION (MANUAL)	PRECIPITATION (AUTOMATED)	TOTAL EVAPORATION	NET EVAPORATION
6/23/2015	1215	3.616	3.616				
6/25/2015	1400	3.134	3.134	0.00	0.01	0.482	0.482
6/26/2015	1410	2.994	2.994	0.00	0.00	0.140	0.140
6/29/2015	1520	1.902	3.500	0.00	0.00	1.092	1.092
7/1/2015	1530	3.201	3.201	0.20	0.18	0.499	0.299
			TOTAL	0.20	0.19	2.213	2.013