

**APPENDIX A: HOURLY AIR QUALITY AND
METEOROLOGICAL DATA, THIRD QUARTER 2013**

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
July 2013

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	2.3	1.6	1.3	1.2	1.4	1.3	1.0	0.8	1.0	1.4	1.6	2.6	2.4	2.0	2.0	2.2	3.4	3.0	3.8	2.6	3.2	3.8	2.5	1.1	2.1	3.8	0.8	
2	1.1	1.7	2.7	2.8	2.5	1.7	1.0	0.6	0.9	1.4	1.7	3.3	3.4	4.4	4.9	5.8	5.6	4.8	1.1	0.7	2.2	2.4	2.3	2.4	2.6	5.8	0.6	
3	1.5	2.0	1.1	1.0	1.3	1.2	1.3	1.1	5.1	6.7	6.3	6.4	6.5	5.2	2.7	5.8	5.7	5.6	4.6	2.0	1.7	2.6	2.1	1.2	3.4	6.7	1.0	
4	1.4	0.9	1.4	1.1	0.7	0.8	0.6	0.7	2.8	4.6	4.1	3.8	4.9	4.5	3.3	3.9	3.5	2.4	1.0	1.0	2.3	0.7	1.1	1.2	2.2	4.9	0.6	
5	1.3	1.2	1.1	0.8	0.9	1.1	0.9	1.3	3.0	1.7	3.4	3.9	3.8	3.5	3.7	2.8	2.4	5.3	6.0	2.9	1.8	1.5	1.3	1.8	2.4	6.0	0.8	
6	1.7	2.0	1.0	1.3	1.1	0.4	0.6	0.7	2.7	3.7	3.8	2.4	2.3	1.8	2.1	3.0	3.4	4.4	3.8	2.9	3.1	3.1	2.7	3.0	2.4	4.4	0.4	
7	2.6	2.2	2.7	1.6	1.4	1.1	1.6	3.6	4.9	4.2	3.4	2.9	2.6	3.0	2.6	1.4	4.5	5.4	3.6	2.1	1.4	1.0	0.7	1.3	2.6	5.4	0.7	
8	0.8	1.2	1.1	2.1	1.1	0.7	1.2	1.0	2.9	3.1	3.4	3.4	5.7	5.7	4.4	3.2	3.1	4.2	4.0	5.7	3.8	1.3	1.1	1.3	2.7	5.7	0.7	
9	1.1	1.6	1.1	0.9	0.9	0.8	0.6	0.7	3.9	4.2	3.9	3.5	3.5	3.3	3.5	3.0	4.8	3.0	2.3	0.7	1.8	1.4	1.5	1.6	2.2	4.8	0.6	
10	1.5	2.1	1.6	1.7	1.8	1.3	1.1	0.8	1.1	1.6	3.8	4.3	4.4	4.3	4.5	3.3	2.8	2.4	2.5	1.7	2.3	1.6	2.4	1.9	2.4	4.5	0.8	
11	1.6	1.2	2.3	2.7	2.1	1.3	1.3	0.7	1.4	3.4	4.5	4.6	6.0	8.8	6.6	8.2	7.8	5.8	5.4	3.6	2.3	6.2	5.5	1.9	4.0	8.8	0.7	
12	1.8	1.6	1.3	1.4	1.8	1.1	0.7	0.8	1.8	4.9	5.3	5.6	4.8	4.6	3.3	5.1	5.3	4.3	2.5	2.5	3.8	2.4	3.3	2.8	3.0	5.6	0.7	
13	2.2	2.0	1.8	0.8	1.0	0.8	0.6	0.8	2.9	2.9	3.3	3.9	4.5	5.9	5.2	4.3	4.3	3.8	5.7	4.5	4.3	3.2	3.1	3.2	3.1	5.9	0.6	
14	3.1	2.1	2.2	1.2	1.8	1.7	5.6	7.3	6.7	6.7	6.5	4.3	3.0	5.1	4.5	2.6	3.2	1.6	4.4	5.6	4.9	4.2	2.8	2.0	3.9	7.3	1.2	
15	2.2	2.3	1.4	1.3	2.1	1.0	1.2	0.6	1.3	1.9	3.8	5.1	5.0	5.0	4.2	3.7	3.9	3.7	2.9	5.1	5.3	2.7	1.9	2.6	2.9	5.3	0.6	
16	2.1	2.8	1.2	1.2	1.9	0.8	0.7	0.9	1.7	6.9	7.7	8.8	8.7	8.2	8.7	9.3	9.0	8.0	6.7	3.6	3.5	4.7	4.9	3.4	4.8	9.3	0.7	
17	1.3	3.3	1.7	1.9	1.0	0.7	1.0	0.7	2.3	1.6	2.5	2.6	2.4	2.6	2.5	2.1	1.8	6.3	4.5	6.2	2.4	1.8	2.7	2.3	2.4	6.3	0.7	
18	2.0	1.9	1.0	1.2	0.8	1.4	1.2	0.8	1.7	4.4	5.3	3.3	3.9	5.1	5.0	5.0	5.1	5.5	4.1	1.7	2.4	3.1	2.1	1.3	2.9	5.5	0.8	
19	0.9	1.6	1.7	1.4	1.2	1.3	1.1	0.6	0.8	2.8	4.2	3.9	5.0	5.7	5.7	7.8	6.4	4.9	4.0	4.0	2.0	2.4	1.7	0.7	3.0	7.8	0.6	
20	1.0	0.9	1.3	1.8	1.0	1.0	0.6	0.7	0.8	1.4	3.1	3.5	3.5	3.0	3.2	2.4	2.4	1.4	2.6	1.8	4.0	3.7	2.3	1.6	2.0	4.0	0.6	
21	1.5	0.9	0.9	0.7	1.2	0.8	0.5	0.6	1.3	4.3	4.1	3.9	3.3	3.1	2.4	1.9	2.8	3.1	3.2	1.5	1.7	2.4	1.5	2.1	2.1	4.3	0.5	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	1.7	1.8	1.5	1.4	1.4	1.1	1.2	1.2	2.4	3.5	4.1	4.1	4.3	4.5	4.0	4.1	4.3	4.2	3.7	3.0	2.9	2.7	2.4	1.9	2.8	5.8	0.7	
Max	3.1	3.3	2.7	2.8	2.5	1.7	5.6	7.3	6.7	6.9	7.7	8.8	8.7	8.8	8.7	9.3	9.0	8.0	6.7	6.2	5.3	6.2	5.5	3.4	4.8	9.3	1.2	
Min	0.8	0.9	0.9	0.7	0.7	0.4	0.5	0.6	0.8	1.4	1.6	2.4	2.3	1.8	2.0	1.4	1.8	1.4	1.0	0.7	1.4	0.7	0.7	0.7	2.0	3.8	0.4	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	3.9	3.4	4.6	3.5	3.7	3.2	4.3	3.3	2.8	2.7	3.5	4.6	2.7
30	3.3	2.7	1.4	1.7	1.2	1.4	1.2	1.1	0.9	3.0	4.6	6.3	5.8	7.4	6.3	6.3	5.3	4.7	4.8	4.1	3.7	3.0	3.5	2.3	3.6	7.4	0.9	
31	1.6	1.9	1.1	0.7	1.1	0.6	0.9	0.8	0.8	3.0	4.1	4.2	3.4	2.6	3.1	2.3	2.2	1.3	1.2	3.5	3.1	2.1	2.3	1.6	2.1	4.2	0.6	
Avg	2.5	2.3	1.3	1.2	1.1	1.0	1.1	1.0	0.9	3.0	4.3	5.3	4.6	5.0	4.4	4.0	4.0	3.2	3.2	3.6	3.7	2.8	2.9	2.2	2.9	5.4	1.4	
Max	3.3	2.7	1.4	1.7	1.2	1.4	1.2	1.1	0.9	3.0	4.6	6.3	5.8	7.4	6.3	6.3	5.3	4.7	4.8	4.1	4.3	3.3	3.5	2.7	3.6	7.4	2.7	
Min	1.6	1.9	1.1	0.7	1.1	0.6	0.9	0.8	0.8	3.0	4.1	4.2	3.4	2.6	3.1	2.3	2.2	1.3	1.2	3.2	3.1	2.1	2.3	1.6	2.1	4.2	0.6	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Speed (meters per second)
September 2013

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	2.0	1.9	1.6	1.6	2.5	1.6	1.2	0.6	0.8	1.3	2.2	2.3	2.9	3.5	2.8	3.2	2.3	1.5	1.1	2.5	1.7	2.0	2.0	2.0	2.0	2.0	3.5	0.6
2	1.5	1.7	1.2	1.5	1.0	1.3	1.1	0.6	0.5	2.4	4.7	5.5	7.1	6.8	6.2	5.9	3.6	3.3	2.4	1.5	1.8	1.6	1.9	1.5	2.8	7.1	0.5	
3	1.2	1.6	0.7	1.0	1.2	0.5	0.7	0.7	0.6	0.9	2.5	2.2	2.4	2.2	3.0	4.6	3.6	3.0	3.1	3.7	3.4	5.2	3.2	1.2	2.2	5.2	0.5	
4	2.0	1.1	1.1	0.9	1.0	1.7	1.3	0.6	1.0	1.0	1.7	2.1	2.8	2.5	2.7	4.3	3.8	3.4	2.1	3.4	2.1	2.2	1.8	0.8	2.0	4.3	0.6	
5	1.2	1.5	1.5	1.3	1.5	1.4	0.6	0.7	0.6	1.7	3.7	4.6	4.0	4.8	8.4	6.0	4.9	4.3	2.4	1.9	1.8	2.5	1.2	1.9	2.7	8.4	0.6	
6	5.1	3.1	1.4	2.1	2.1	1.9	2.0	1.3	1.5	1.2	1.8	3.3	4.3	4.2	5.7	6.1	4.7	4.3	1.9	1.9	3.4	2.1	1.6	1.1	2.8	6.1	1.1	
7	1.0	1.1	0.7	0.7	1.0	1.0	0.9	0.5	1.4	1.0	1.7	2.1	2.0	3.0	3.9	2.9	5.2	5.7	5.5	5.0	4.1	2.9	4.6	2.2	2.5	5.7	0.5	
8	1.7	1.0	0.8	0.7	0.7	0.8	0.4	0.7	0.5	0.8	1.2	3.1	5.6	7.3	5.8	3.6	4.1	5.3	3.5	4.1	1.5	1.3	2.2	1.8	2.4	7.3	0.4	
9	1.5	1.1	0.6	0.9	1.1	1.8	1.5	2.6	4.8	4.7	5.3	5.6	5.9	5.2	4.7	5.7	4.3	4.6	1.4	2.2	2.1	2.7	2.1	1.7	3.1	5.9	0.6	
10	1.7	1.2	1.5	1.4	1.4	1.2	0.5	1.5	0.9	0.8	2.1	3.4	3.0	2.3	2.1	1.8	1.6	1.9	2.3	3.1	1.8	2.0	1.7	2.0	1.8	3.4	0.5	
11	1.4	1.9	1.4	1.1	1.0	1.0	1.0	0.5	0.8	1.1	2.2	3.2	3.6	3.4	3.2	3.7	4.8	4.6	4.3	4.4	4.1	4.0	4.1	2.3	2.6	4.8	0.5	
12	1.8	1.5	3.0	2.6	1.6	4.2	1.9	1.3	4.7	7.1	7.3	7.8	6.5	7.0	6.2	5.5	6.0	5.4	3.4	3.1	4.6	2.0	1.8	3.0	4.1	7.8	1.3	
13	2.2	1.6	1.8	1.9	1.5	1.7	1.4	0.5	0.9	0.9	1.8	3.2	2.9	2.6	2.3	2.1	2.9	3.6	1.4	1.5	1.3	1.0	0.8	0.4	1.8	3.6	0.4	
14	0.5	1.0	1.2	0.7	0.8	1.1	1.2	3.8	4.6	5.2	6.0	8.1	8.0	5.1	4.7	5.1	7.2	5.8	3.6	4.2	3.2	1.4	1.7	2.8	3.6	8.1	0.5	
15	3.3	2.6	2.5	4.0	3.2	1.5	1.2	1.8	4.8	7.9	8.0	8.1	9.8	7.9	7.1	5.9	4.9	2.7	3.1	1.7	1.9	2.4	3.5	3.3	4.3	9.8	1.2	
16	1.7	2.8	2.0	1.4	1.1	1.2	1.1	0.9	2.1	2.8	3.5	4.6	5.7	4.7	6.1	10.7	2.9	3.8	2.3	2.0	3.0	1.5	2.0	1.5	3.0	10.7	0.9	
17	1.5	1.3	1.0	1.2	0.5	1.0	1.1	0.9	1.2	3.8	3.3	4.6	4.6	2.1	1.7	5.7	5.0	3.5	3.2	6.8	2.1	2.9	2.8	5.0	2.8	6.8	0.5	
18	2.6	2.0	2.3	1.3	1.4	1.2	2.2	2.6	4.6	4.5	5.2	6.3	6.1	7.4	6.3	6.6	7.8	7.2	4.8	3.9	3.8	4.5	4.0	4.1	4.3	7.8	1.2	
19	4.2	2.7	1.2	0.8	0.5	0.6	0.6	1.0	2.3	3.3	4.8	4.8	5.2	4.1	3.3	4.3	3.2	1.9	2.5	3.9	3.3	2.4	2.0	1.7	2.7	5.2	0.5	
20	1.3	1.5	1.8	1.8	1.7	1.9	2.0	1.4	0.9	3.1	2.7	3.5	4.4	4.9	5.4	5.6	4.7	2.6	2.7	2.6	1.3	1.4	1.8	1.7	2.6	5.6	0.9	
21	1.9	1.3	2.6	2.5	2.4	2.8	2.8	1.7	1.3	1.5	5.7	5.8	6.8	5.7	6.3	6.3	4.1	2.8	1.9	2.3	3.5	2.3	1.4	1.5	3.2	6.8	1.3	
22	0.9	1.0	1.0	2.2	1.2	1.9	1.8	1.8	1.7	1.4	1.6	3.4	3.9	3.4	4.8	6.5	7.0	6.9	2.1	1.9	1.1	1.3	1.9	0.8	2.6	7.0	0.8	
23	1.7	1.7	1.3	0.9	0.8	1.9	4.0	3.9	5.9	8.7	6.1	9.8	9.2	8.8	8.9	8.1	7.7	4.3	4.8	4.8	4.9	4.6	2.4	2.6	4.9	9.8	0.8	
24	1.5	1.6	1.6	2.2	2.1	1.3	1.4	0.7	0.5	1.5	Au	Au	Au	Au	2.3	2.3	1.2	2.7	5.0	4.0	2.4	2.4	1.3	2.2	2.0	5.0	0.5	
25	1.0	1.5	1.3	0.6	1.2	1.2	1.0	1.8	1.6	1.6	1.7	3.1	3.3	2.9	3.4	3.6	3.9	3.1	3.1	1.4	2.6	1.6	1.2	1.7	2.1	3.9	0.6	
26	2.1	2.3	3.3	3.2	3.3	3.4	2.7	2.2	6.9	6.2	6.5	2.9	3.5	3.6	4.4	3.7	4.0	3.1	2.6	2.1	1.0	0.9	1.0	1.5	3.2	6.9	0.9	
27	0.5	0.7	0.7	0.5	1.1	0.9	0.9	0.8	1.0	4.2	5.5	5.8	6.4	6.6	6.7	6.3	5.6	5.9	5.7	4.7	4.4	3.5	1.9	0.7	3.4	6.7	0.5	
28	2.6	1.5	2.2	3.3	1.9	1.3	1.9	2.4	2.8	4.4	4.9	6.0	6.6	6.2	6.2	4.9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	3.7	6.6	1.3	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	1.8	1.6	1.5	1.6	1.5	1.5	1.4	1.4	2.2	3.0	3.8	4.6	5.1	4.7	4.8	5.0	4.5	4.0	3.0	3.1	2.7	2.4	2.1	2.0	2.9	6.4	0.7	
Max	5.1	3.1	3.3	4.0	3.3	4.2	4.0	3.9	6.9	8.7	8.0	9.8	9.8	8.8	8.9	10.7	7.8	7.2	5.7	6.8	4.9	5.2	4.6	5.0	4.9	10.7	1.3	
Min	0.5	0.7	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.8	1.2	2.1	2.0	2.1	1.7	1.8	1.2	1.5	1.1	1.4	1.0	0.9	0.8	0.4	1.8	3.4	0.4	

A-3

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
July 2013

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	54	63	24	70	91	81	213	312	345	256	208	311	257	263	321	232	101	103	127	93	90	85	84	74	71	
2	69	92	64	73	93	89	134	328	349	314	313	297	267	271	278	275	282	263	45	240	94	57	72	71	11	
3	70	87	66	42	47	17	12	344	289	289	287	282	290	281	307	275	306	308	296	308	129	104	98	64	344	
4	109	43	119	106	97	151	182	104	294	288	288	285	264	296	280	291	306	316	300	276	135	352	152	84	288	
5	6	43	101	29	356	99	20	316	275	329	290	302	299	301	341	338	319	346	157	87	136	127	118	60	5	
6	56	86	52	71	110	159	237	357	285	266	238	297	348	335	345	111	148	144	76	82	96	111	154	159	92	
7	146	243	119	353	106	104	109	142	142	137	143	149	191	292	305	36	150	143	156	121	123	102	131	160	135	
8	79	47	49	3	104	138	136	99	131	180	277	297	312	342	54	203	313	279	289	321	33	299	147	141	33	
9	63	79	111	67	95	103	83	78	305	283	300	312	282	321	286	290	289	301	328	279	101	123	129	124	12	
10	95	111	99	81	113	86	129	314	350	337	257	251	268	287	289	285	220	215	190	119	86	74	65	114	113	
11	147	123	117	111	79	38	128	311	356	275	273	237	224	199	208	200	207	202	201	255	256	273	284	335	221	
12	89	96	107	127	115	148	196	339	320	203	200	239	237	219	232	234	179	84	52	64	79	50	87	100	134	
13	125	131	77	26	89	350	87	264	319	301	289	274	300	295	301	326	317	357	53	71	71	70	72	83	13	
14	110	119	137	118	139	142	130	134	136	138	149	139	231	245	247	299	279	332	110	137	128	131	100	198	146	
15	133	102	96	63	106	74	151	324	118	141	247	214	221	227	226	276	287	311	293	7	349	346	282	305	269	
16	302	332	299	276	159	141	145	339	335	152	145	144	143	146	139	140	143	149	150	149	146	150	150	138	151	
17	165	151	139	100	177	195	109	355	151	160	140	158	205	275	295	326	333	216	140	106	102	123	81	77	143	
18	90	93	132	96	67	36	131	183	273	290	285	283	292	291	291	285	278	286	305	309	65	49	74	112	335	
19	56	62	73	89	47	58	117	6	302	254	295	284	279	293	277	295	276	295	289	6	103	45	92	56	357	
20	81	81	360	108	82	88	95	196	4	326	292	265	293	253	255	199	248	215	260	271	96	93	100	98	142	
21	41	21	94	23	96	114	354	207	10	284	293	309	320	260	264	19	247	232	258	158	117	79	52	99	4	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
Prev	87	84	89	70	96	99	125	335	324	262	260	266	267	275	283	279	266	266	232	75	100	81	102	99	86	

A-4

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	215	181	215	210	189	109	59	130	115	93	154
30	97	99	109	120	120	114	148	118	165	154	196	236	256	264	279	281	283	280	306	312	335	82	86	74	156	
31	59	91	88	56	61	44	121	274	322	293	284	252	305	262	279	221	335	71	102	85	81	91	110	112	54	
Prev	78	95	99	88	91	79	135	196	244	224	240	244	281	263	259	227	279	236	179	70	42	101	104	93	123	

A-5

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Wind Direction (degrees)
September 2013

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	123	131	109	97	84	64	66	251	79	248	157	269	276	295	235	292	321	44	151	98	17	62	64	69	81
2	55	96	104	128	63	85	158	1	321	155	148	145	146	134	122	136	201	176	141	91	100	112	104	91	118
3	30	86	48	79	115	16	145	302	133	349	266	274	298	240	133	50	60	48	69	78	73	262	291	175	55
4	81	106	110	309	102	69	115	128	148	297	14	329	260	254	267	287	273	261	30	90	88	88	84	35	62
5	80	88	91	76	113	132	82	146	352	142	176	166	211	242	211	199	222	202	257	94	43	54	77	188	137
6	107	109	48	113	113	114	109	159	125	169	60	153	173	184	153	129	155	98	62	74	117	165	291	325	122
7	9	92	277	89	74	85	77	346	142	336	305	321	281	154	181	185	163	181	29	63	74	294	85	110	78
8	91	60	31	75	121	137	125	151	74	360	282	221	220	261	180	64	319	317	309	286	331	129	141	121	98
9	57	69	20	113	96	267	348	335	277	277	282	281	283	288	289	285	299	294	294	97	76	77	104	96	333
10	107	82	64	66	101	102	42	137	207	8	258	278	283	276	258	299	272	250	314	59	16	52	11	55	14
11	23	61	42	83	71	38	49	332	324	287	312	127	102	120	97	99	100	81	81	78	84	82	82	111	70
12	155	117	108	130	149	92	153	91	135	144	151	141	136	144	134	133	139	129	101	95	114	173	122	115	129
13	168	201	114	87	112	60	102	127	148	138	313	271	264	259	287	287	335	35	110	90	61	49	37	162	102
14	339	105	133	114	349	351	267	338	314	316	348	11	21	4	6	355	14	8	31	62	83	147	138	89	21
15	96	128	129	110	95	116	146	141	163	145	138	136	143	133	121	125	123	90	131	54	125	123	125	137	125
16	134	144	140	113	123	138	141	147	113	148	170	194	198	204	217	165	154	170	74	104	93	32	112	68	139
17	49	100	107	119	328	128	105	325	112	113	139	135	154	360	99	290	23	266	67	84	151	85	96	78	94
18	104	115	86	100	55	134	116	217	213	249	261	264	265	261	255	257	275	294	298	290	282	294	303	304	262
19	310	322	327	122	186	311	346	58	327	289	286	278	258	271	263	249	254	226	147	90	95	107	114	124	277
20	140	134	100	130	131	126	121	155	135	136	150	157	169	180	179	174	176	174	116	110	95	128	113	69	138
21	126	131	86	92	103	102	88	126	134	6	189	189	196	226	228	222	216	196	175	111	78	55	315	122	140
22	92	139	155	145	178	168	143	278	315	308	190	194	208	203	233	280	275	282	311	151	320	32	305	206	220
23	111	90	105	122	134	247	262	276	259	267	255	268	266	267	272	274	261	267	278	293	283	296	295	101	262
24	105	100	84	118	124	145	151	243	259	127	Au	Au	Au	Au	330	311	340	313	292	313	117	271	174	318	181
25	280	165	134	12	304	163	93	251	281	326	92	10	1	350	27	14	352	13	360	19	316	323	164	266	349
26	308	307	324	331	316	295	296	266	331	323	350	303	351	355	348	355	3	1	333	322	133	215	59	155	328
27	320	74	306	36	87	36	149	167	113	258	250	258	253	257	255	247	242	246	243	251	260	276	271	319	260
28	248	252	289	280	238	217	232	210	216	215	208	220	217	228	217	214	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	230
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Prev	83	107	85	97	104	105	114	199	167	266	229	231	233	241	221	252	269	261	41	75	76	82	90	104	118

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
July 2013

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

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	78	41	18	11	15	33	46	65	66	33	41	78	11
30	19	24	30	26	62	40	53	77	46	36	21	18	21	22	18	20	19	20	15	12	33	31	23	46	31	77	12
31	40	37	65	62	37	78	91	92	61	45	28	29	33	56	69	72	50	58	52	33	42	29	31	35	51	92	28
Avg	30	31	48	44	50	59	72	85	54	41	25	24	27	39	55	44	29	30	27	26	40	42	40	38	41	82	17
Max	40	37	65	62	62	78	91	92	61	45	28	29	33	56	78	72	50	58	52	33	46	65	66	46	51	92	28
Min	19	24	30	26	37	40	53	77	46	36	21	18	21	22	18	20	18	11	15	12	33	29	23	33	31	77	11

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Standard Deviation of Wind Direction (degrees)
September 2013

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

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
July 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	13.8	12.9	12.0	11.4	10.5	10.2	12.6	16.7	20.6	23.4	24.5	25.2	25.7	26.1	26.5	26.8	26.5	25.7	24.2	23.4	20.8	19.1	16.6	14.4	19.6	26.8	10.2	
2	13.0	11.9	11.7	11.1	9.8	9.7	11.7	16.4	20.7	23.1	24.7	25.9	27.1	28.2	29.1	29.8	29.8	28.1	27.7	24.4	20.4	17.7	16.0	15.2	20.1	29.8	9.7	
3	13.1	12.7	11.9	11.9	11.4	10.8	13.7	18.8	22.9	24.3	25.0	25.7	26.2	26.8	27.0	27.8	27.4	27.0	26.1	24.5	20.6	16.2	14.3	12.5	19.9	27.8	10.8	
4	10.9	10.3	9.5	9.0	9.1	8.7	11.1	16.0	20.1	21.3	21.9	22.8	23.5	23.4	23.8	24.3	24.5	24.6	24.8	22.8	18.3	18.4	15.1	12.6	17.8	24.8	8.7	
5	10.9	11.0	9.1	8.6	8.3	8.6	10.5	14.7	16.4	18.1	19.0	19.7	20.6	21.4	21.9	22.3	22.3	19.9	13.9	13.6	12.5	11.9	9.6	8.3	14.7	22.3	8.3	
6	7.6	6.9	5.9	5.1	4.1	3.8	5.7	10.2	14.2	15.7	16.8	17.6	18.6	19.4	20.7	21.8	22.4	21.4	19.6	18.3	17.0	15.4	13.9	13.6	14.0	22.4	3.8	
7	13.1	12.1	11.9	11.7	9.9	9.3	11.9	14.5	15.9	17.2	18.4	19.9	21.5	22.8	22.9	23.2	22.1	21.3	19.5	18.9	16.9	15.0	13.4	13.1	16.5	23.2	9.3	
8	11.3	10.3	9.9	9.8	9.7	9.1	11.1	15.2	19.8	20.7	21.1	21.3	19.6	16.6	17.0	19.4	19.8	20.0	20.5	19.4	15.1	12.7	9.7	7.9	15.3	21.3	7.9	
9	7.0	6.1	4.9	4.2	3.1	2.8	5.5	10.5	14.9	16.3	17.3	18.6	19.9	20.7	21.6	22.5	23.4	23.4	22.7	20.7	16.3	16.9	15.2	13.9	14.5	23.4	2.8	
10	10.5	8.3	8.3	7.0	6.2	6.3	8.6	12.8	17.9	21.0	23.4	24.7	25.7	26.5	27.4	27.6	28.1	28.1	26.8	24.4	22.9	22.3	21.5	20.9	19.1	28.1	6.2	
11	19.9	15.8	13.3	12.1	10.8	10.2	12.3	15.7	20.8	23.5	24.1	23.7	23.3	23.7	23.8	22.6	22.0	21.0	20.4	18.6	16.5	15.6	14.6	14.0	18.3	24.1	10.2	
12	11.9	9.7	8.3	6.7	5.1	5.7	8.4	13.2	17.5	19.1	20.5	22.0	22.3	20.0	21.3	22.9	18.3	16.4	16.0	15.6	13.8	12.9	12.0	11.6	14.6	22.9	5.1	
13	9.7	8.0	7.9	7.1	6.1	5.2	9.0	12.6	15.9	17.2	18.3	19.4	19.8	20.5	20.8	20.7	20.7	20.3	18.9	16.4	15.3	13.5	13.1	12.7	14.5	20.8	5.2	
14	13.7	13.3	12.4	11.9	12.0	11.9	12.9	13.5	15.0	16.3	17.6	19.0	19.5	21.9	21.8	22.1	22.9	22.7	22.6	20.4	19.2	18.6	17.5	16.2	17.3	22.9	11.9	
15	15.6	13.8	11.0	9.3	8.2	7.1	9.6	14.4	19.7	22.4	24.2	25.4	26.2	26.6	26.9	27.4	27.8	26.9	25.7	23.1	20.0	16.7	14.3	12.8	19.0	27.8	7.1	
16	11.9	10.8	9.7	8.8	7.1	6.4	8.5	11.2	14.3	17.2	17.9	18.1	18.1	19.3	20.4	20.1	19.9	19.2	17.7	16.0	15.0	14.0	13.6	13.4	14.5	20.4	6.4	
17	13.1	12.5	12.4	12.3	11.8	11.5	12.0	13.1	15.3	17.7	20.3	22.1	23.7	25.0	26.0	26.7	26.6	21.7	16.3	13.9	13.7	12.3	11.7	11.0	16.8	26.7	11.0	
18	10.3	9.3	8.8	7.8	7.4	7.5	8.6	12.1	16.2	18.8	20.0	21.1	22.2	23.3	23.8	24.4	24.8	24.9	24.0	21.9	17.1	14.8	12.5	9.8	16.3	24.9	7.4	
19	9.2	9.3	8.4	6.7	6.4	6.0	7.9	12.9	17.8	20.5	21.6	22.6	23.8	24.5	25.2	25.4	25.4	25.0	24.4	22.4	18.4	14.2	12.1	9.9	16.7	25.4	6.0	
20	9.0	7.1	7.1	7.0	5.7	5.6	7.7	12.5	17.5	20.5	21.9	22.6	23.3	23.7	24.4	25.3	25.0	25.1	25.0	23.1	16.8	13.4	10.0	7.7	16.1	25.3	5.6	
21	7.5	6.7	6.1	4.8	4.1	3.9	5.9	11.6	17.9	20.5	21.5	22.2	22.9	23.7	24.5	25.3	26.0	26.2	25.9	22.5	18.8	16.9	13.0	16.6	16.5	26.2	3.9	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	11.6	10.4	9.5	8.8	7.9	7.6	9.8	13.7	17.7	19.8	21.0	21.9	22.5	23.1	23.7	24.2	24.1	23.3	22.0	20.2	17.4	15.6	13.8	12.8	16.8	24.6	7.5	
Max	19.9	15.8	13.3	12.3	12.0	11.9	13.7	18.8	22.9	24.3	25.0	25.9	27.1	28.2	29.1	29.8	29.8	28.1	27.7	24.5	22.9	22.3	21.5	20.9	20.1	29.8	11.9	
Min	7.0	6.1	4.9	4.2	3.1	2.8	5.5	10.2	14.2	15.7	16.8	17.6	18.1	16.6	17.0	19.4	18.3	16.4	13.9	13.6	12.5	11.9	9.6	7.7	14.0	20.4	2.8	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	27.1	27.0	26.8	26.1	23.7	19.9	17.6	17.7	16.9	14.9	21.8	27.1	14.9
30	13.0	11.0	10.0	9.4	8.7	8.2	8.0	10.7	16.9	22.1	24.1	24.8	24.9	25.6	25.2	25.9	25.7	25.0	23.0	20.1	17.0	15.4	11.9	9.4	17.3	25.9	8.0	
31	8.2	6.6	5.4	4.7	3.5	2.6	2.1	6.0	12.6	16.3	17.4	18.6	19.5	20.7	21.4	22.0	22.3	22.3	21.0	15.5	13.8	11.7	9.9	11.9	13.2	22.3	2.1	
Avg	10.6	8.8	7.7	7.1	6.1	5.4	5.0	8.3	14.8	19.2	20.8	21.7	22.2	23.1	24.6	25.0	24.9	24.5	22.6	18.5	16.1	14.9	12.9	12.1	16.4	25.1	8.3	
Max	13.0	11.0	10.0	9.4	8.7	8.2	8.0	10.7	16.9	22.1	24.1	24.8	24.9	25.6	27.1	27.0	26.8	26.1	23.7	20.1	17.6	17.7	16.9	14.9	21.8	27.1	14.9	
Min	8.2	6.6	5.4	4.7	3.5	2.6	2.1	6.0	12.6	16.3	17.4	18.6	19.5	20.7	21.4	22.0	22.3	22.3	21.0	15.5	13.8	11.7	9.9	9.4	13.2	22.3	2.1	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 9 Meters (degrees Celsius)
September 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	13.3	13.3	13.0	10.2	7.0	5.9	4.6	8.3	14.6	18.8	21.4	23.4	25.0	25.8	26.7	27.2	27.2	27.1	24.9	17.8	15.3	13.7	12.7	11.1	17.0	27.2	4.6	
2	9.8	9.5	8.5	7.1	7.0	6.6	6.1	9.7	17.4	24.1	26.9	27.4	27.4	28.1	27.7	26.8	26.5	25.0	22.7	21.8	18.9	16.5	14.7	12.6	17.9	28.1	6.1	
3	11.1	9.8	7.9	7.2	5.8	6.0	5.8	8.8	14.5	19.7	22.7	24.1	25.4	26.2	26.8	26.0	25.4	25.0	23.7	22.3	22.1	20.6	18.9	17.9	17.7	26.8	5.8	
4	16.6	15.3	14.8	13.8	13.8	12.9	12.1	13.3	16.5	19.5	21.5	22.5	23.8	24.1	25.1	25.6	25.6	23.9	22.6	18.0	15.9	13.7	12.2	10.9	18.1	25.6	10.9	
5	9.8	9.7	8.8	8.8	8.5	8.0	7.8	11.5	17.8	23.3	25.1	25.9	25.7	25.4	25.2	23.7	24.0	23.7	22.1	18.2	16.5	15.4	14.2	12.8	17.2	25.9	7.8	
6	15.3	14.3	12.3	10.6	9.6	9.6	10.3	11.3	14.6	18.9	23.1	25.4	26.3	26.9	27.1	26.2	26.0	19.7	18.0	17.7	18.7	17.9	17.0	15.6	18.0	27.1	9.6	
7	13.8	12.3	11.8	11.4	11.2	9.9	9.9	10.7	11.8	14.4	17.5	19.4	20.8	21.8	22.4	23.2	22.9	19.6	12.1	11.3	11.4	10.9	11.0	9.5	14.6	23.2	9.5	
8	9.0	7.8	7.0	6.4	5.5	5.2	4.3	6.1	9.6	13.8	16.4	18.6	20.3	19.3	13.6	14.1	14.8	14.9	14.1	13.6	11.9	9.3	7.0	6.2	11.2	20.3	4.3	
9	5.7	4.5	4.1	4.9	6.4	9.0	9.1	9.8	11.2	12.0	12.7	13.3	14.2	13.2	14.3	15.8	15.9	15.9	14.3	11.1	9.0	8.0	6.4	5.6	10.3	15.9	4.1	
10	4.9	4.2	4.1	4.2	3.4	2.5	2.6	5.2	10.4	15.1	17.4	18.4	19.0	19.9	20.6	21.2	21.5	21.5	18.0	14.2	12.9	11.2	10.0	9.5	12.2	21.5	2.5	
11	8.4	7.9	6.5	5.3	4.5	4.5	4.1	5.8	11.5	17.5	19.6	21.0	21.6	22.0	22.1	22.2	21.8	20.8	18.4	15.8	15.4	14.8	14.6	12.8	14.1	22.2	4.1	
12	12.0	11.2	11.7	10.8	10.7	10.7	9.1	12.4	15.7	17.0	18.5	19.7	20.7	20.1	21.7	21.8	21.8	21.2	19.1	18.0	18.3	16.6	16.7	16.7	16.3	21.8	9.1	
13	15.3	11.8	10.7	8.6	7.3	7.5	7.6	7.9	12.4	17.2	19.5	20.6	21.4	21.6	21.9	22.1	22.0	21.3	19.4	16.8	14.6	13.1	11.9	11.7	15.2	22.1	7.3	
14	11.4	11.8	11.2	11.1	11.6	11.5	11.6	13.5	13.4	15.5	17.5	17.9	17.3	17.5	18.0	18.0	17.7	16.5	15.6	14.7	13.8	12.9	11.8	10.8	14.3	18.0	10.8	
15	11.7	11.4	10.4	9.5	9.8	8.2	8.8	11.5	13.9	14.9	15.9	16.4	16.8	17.7	18.0	17.7	17.0	16.2	15.6	15.3	15.3	15.2	14.9	14.1	14.0	18.0	8.2	
16	13.4	12.5	11.4	9.7	8.5	7.0	6.7	8.4	15.3	18.4	20.1	21.9	22.8	22.2	22.0	17.4	18.4	19.6	18.0	14.9	12.9	10.6	9.2	8.2	14.6	22.8	6.7	
17	7.7	6.1	4.9	3.9	4.1	3.7	2.8	4.3	7.2	10.1	11.8	12.8	12.9	12.4	13.9	12.5	10.7	10.5	9.9	9.7	9.6	8.3	7.7	8.2	8.6	13.9	2.8	
18	7.1	5.6	4.5	3.4	3.3	3.7	5.4	6.4	6.8	7.0	7.8	7.8	8.2	9.0	9.4	9.9	9.5	8.6	6.8	5.9	5.1	4.4	3.9	3.4	6.4	9.9	3.3	
19	2.7	2.5	2.5	2.8	3.1	3.2	3.3	4.1	5.2	6.3	7.6	8.7	10.0	10.4	11.1	11.8	11.9	11.8	8.1	5.3	3.7	2.1	0.7	0.2	5.8	11.9	0.2	
20	-0.1	-0.5	-0.5	-1.6	-1.5	-1.3	-1.3	0.5	6.5	11.6	13.6	14.9	16.4	18.0	19.0	19.3	19.4	18.4	12.4	7.9	5.5	3.9	3.3	2.3	7.8	19.4	-1.6	
21	2.2	1.6	1.6	1.4	1.6	2.1	2.5	3.8	10.8	16.8	20.3	20.7	21.3	21.4	21.8	21.7	21.5	20.1	17.8	15.7	13.3	11.3	9.9	8.6	12.1	21.8	1.4	
22	7.6	6.8	5.5	4.8	6.4	5.1	6.1	7.2	9.8	12.3	14.4	15.3	15.9	16.3	16.4	15.6	13.4	10.0	8.3	7.8	7.6	6.8	7.5	6.6	9.7	16.4	4.8	
23	5.5	4.6	2.9	3.3	3.8	5.4	6.5	6.8	7.3	8.7	8.4	9.7	10.4	10.5	10.4	10.4	11.0	10.7	9.9	8.3	8.5	7.9	7.1	4.9	7.6	11.0	2.9	
24	4.3	3.7	2.1	0.5	1.0	-0.7	-0.7	1.1	4.2	7.7	Au	Au	Au	Au	7.6	6.9	6.7	6.3	5.4	3.6	3.4	3.4	3.4	3.4	3.7	7.7	-0.7	
25	2.5	1.6	1.5	1.3	2.0	1.0	0.4	0.3	2.0	4.1	5.5	5.6	5.1	5.4	6.2	5.9	4.9	4.5	4.1	3.8	3.1	2.8	2.6	1.9	3.3	6.2	0.3	
26	0.9	0.4	1.0	1.3	1.3	1.3	1.1	0.8	1.0	1.4	1.6	2.3	2.6	2.6	2.7	2.4	2.2	1.8	0.9	-0.6	-1.3	-2.2	-2.3	-2.8	0.8	2.7	-2.8	
27	-3.1	-3.3	-4.1	-4.5	-5.3	-5.6	-6.1	-5.0	-1.5	1.6	2.5	3.3	4.3	5.0	5.6	5.5	5.2	5.1	4.6	4.3	4.1	3.2	3.0	2.9	0.9	5.6	-6.1	
28	3.3	3.4	3.3	3.9	3.9	3.7	3.8	5.1	5.9	6.2	6.9	8.1	8.7	9.5	10.1	10.6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	6.0	10.6	3.3	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	7.9	7.1	6.4	5.7	5.5	5.2	5.2	6.8	10.2	13.4	15.4	16.5	17.2	17.5	17.4	17.2	17.2	16.3	14.3	12.3	11.3	10.1	9.3	8.4	11.4	18.0	4.3	
Max	16.6	15.3	14.8	13.8	13.8	12.9	12.1	13.5	17.8	24.1	26.9	27.4	27.4	28.1	27.7	27.2	27.2	27.1	24.9	22.3	22.1	20.6	18.9	17.9	18.1	28.1	10.9	
Min	-3.1	-3.3	-4.1	-4.5	-5.3	-5.6	-6.1	-5.0	-1.5	1.4	1.6	2.3	2.6	2.6	2.7	2.4	2.2	1.8	0.9	-0.6	-1.3	-2.2	-2.3	-2.8	0.8	2.7	-6.1	

A-12

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
July 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	13.3	12.0	11.1	10.4	8.7	9.4	12.8	17.2	21.2	23.9	25.1	25.9	26.4	26.6	27.1	27.5	26.9	26.0	24.1	23.1	20.1	17.6	15.2	13.6	19.4	27.5	8.7	
2	11.7	11.1	11.4	10.6	8.7	9.0	12.0	16.8	21.2	23.7	25.3	26.6	27.9	28.9	29.7	30.2	29.9	27.2	27.9	23.6	19.7	16.8	15.4	14.6	20.0	30.2	8.7	
3	11.8	11.6	11.1	11.0	10.4	10.1	14.1	19.2	23.3	24.7	25.7	26.4	27.0	27.7	27.6	28.4	27.7	26.9	25.6	23.6	18.8	14.9	13.1	11.4	19.7	28.4	10.1	
4	9.9	9.3	8.3	7.8	7.7	7.8	11.4	16.4	20.7	22.0	22.6	23.6	24.3	23.7	24.2	24.7	25.1	25.0	25.1	22.0	17.2	17.4	13.4	11.7	17.6	25.1	7.7	
5	9.9	9.8	8.0	7.8	7.1	8.3	10.8	15.2	16.8	18.8	19.9	20.7	21.6	22.4	22.8	23.0	22.6	19.5	13.7	13.8	12.2	11.1	8.7	7.8	14.7	23.0	7.1	
6	7.1	5.8	5.2	4.0	3.1	3.6	6.0	10.7	14.7	16.5	17.7	18.3	19.4	20.1	21.5	22.5	23.2	21.9	20.0	18.4	17.0	15.1	13.5	13.0	14.1	23.2	3.1	
7	12.8	11.7	11.9	11.3	9.6	9.0	12.1	15.0	16.6	18.1	19.4	20.7	22.3	23.5	23.1	23.5	22.6	21.6	19.6	19.0	16.1	14.0	12.2	11.0	16.5	23.5	9.0	
8	9.9	9.1	9.0	9.0	8.8	8.7	11.4	15.7	20.4	21.5	22.0	21.9	19.8	16.5	17.2	19.8	20.2	20.0	20.6	18.9	14.8	11.6	8.4	6.2	15.1	22.0	6.2	
9	5.8	5.3	3.7	3.1	1.9	2.1	5.8	11.0	15.6	17.1	18.2	19.5	20.8	21.6	22.6	23.3	24.0	23.8	22.6	20.0	15.3	16.1	13.7	11.1	14.3	24.0	1.9	
10	8.7	6.4	6.9	5.6	4.9	5.0	8.8	13.2	18.5	21.7	24.4	25.7	26.7	27.5	28.3	28.2	28.5	28.0	26.1	23.7	22.3	21.8	20.5	18.4	18.7	28.5	4.9	
11	17.8	14.0	11.4	10.7	9.3	9.6	12.4	16.1	21.4	24.3	24.8	23.9	23.3	24.3	24.3	22.7	22.0	21.1	20.2	18.4	15.8	15.2	14.3	13.5	18.0	24.8	9.3	
12	11.4	9.4	7.7	5.3	3.3	4.4	8.6	13.6	18.0	20.1	21.7	23.1	23.2	20.0	21.8	23.5	18.2	16.7	16.1	15.6	13.8	12.6	12.0	11.6	14.7	23.5	3.3	
13	9.2	7.0	7.0	6.3	4.9	4.7	9.1	13.0	16.6	18.0	19.3	20.5	20.8	21.7	22.0	21.6	21.4	20.9	19.4	16.5	15.3	13.3	12.7	12.4	14.7	22.0	4.7	
14	13.8	13.3	12.2	11.7	11.8	11.7	13.1	13.8	15.9	17.4	19.1	20.1	19.9	23.0	22.2	22.6	23.1	22.9	22.9	20.3	19.0	18.4	17.3	15.6	17.5	23.1	11.7	
15	15.1	13.1	9.7	8.2	7.2	6.2	9.7	14.8	20.1	23.0	25.1	26.5	27.3	27.2	27.4	27.8	28.1	26.3	25.1	22.5	19.4	15.7	13.7	12.2	18.8	28.1	6.2	
16	11.4	10.5	9.3	8.2	6.2	5.8	8.6	11.7	14.9	18.5	19.3	19.6	19.6	20.9	21.9	21.5	21.0	20.0	18.1	15.9	14.7	13.8	13.5	13.3	14.9	21.9	5.8	
17	12.9	12.3	12.4	12.3	11.7	11.5	12.2	13.4	15.9	18.3	21.2	23.0	24.5	25.8	26.8	27.4	26.6	20.8	16.0	13.9	13.6	12.0	11.7	10.9	17.0	27.4	10.9	
18	10.3	9.3	8.6	7.4	7.1	7.4	8.8	12.4	16.5	19.4	20.7	21.7	23.0	24.1	24.5	25.0	25.3	25.0	23.6	20.9	16.1	14.2	11.6	8.5	16.3	25.3	7.1	
19	7.9	8.3	7.6	5.5	5.5	5.4	8.1	13.2	18.2	21.1	22.3	23.4	24.6	25.3	26.0	26.0	25.8	25.1	24.0	21.2	16.6	13.3	10.4	8.5	16.4	26.0	5.4	
20	7.2	6.0	5.8	5.3	4.6	4.3	7.9	12.8	17.9	21.1	22.7	23.4	24.2	24.4	25.1	25.9	25.2	25.1	24.7	21.8	15.8	13.0	8.7	6.5	15.8	25.9	4.3	
21	6.3	5.4	4.5	3.3	2.8	2.8	6.2	12.0	18.4	21.3	22.4	23.1	23.8	24.7	25.3	25.9	26.6	26.6	25.6	21.3	17.5	15.8	12.0	14.9	16.2	26.6	2.8	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	10.7	9.6	8.7	7.8	6.9	7.0	10.0	14.2	18.2	20.5	21.9	22.7	23.4	23.8	24.4	24.8	24.5	23.4	22.0	19.7	16.7	14.9	13.0	11.7	16.7	25.2	6.6	
Max	17.8	14.0	12.4	12.3	11.8	11.7	14.1	19.2	23.3	24.7	25.7	26.6	27.9	28.9	29.7	30.2	29.9	28.0	27.9	23.7	22.3	21.8	20.5	18.4	20.0	30.2	11.7	
Min	5.8	5.3	3.7	3.1	1.9	2.1	5.8	10.7	14.7	16.5	17.7	18.3	19.4	16.5	17.2	19.8	18.2	16.7	13.7	13.8	12.2	11.1	8.4	6.2	14.1	21.9	1.9	

A-13

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	27.7	27.6	27.2	25.5	22.6	19.0	17.0	16.9	16.1	14.5	21.4	27.7	14.5
30	12.7	10.4	9.2	8.5	7.7	6.9	7.0	11.0	17.2	22.7	25.2	25.8	25.5	26.7	25.9	26.8	26.3	25.2	22.3	18.2	15.2	13.8	11.2	9.0	17.1	26.8	6.9	
31	7.3	5.6	4.0	3.0	2.0	1.5	1.4	6.3	13.0	17.1	18.4	19.8	20.5	21.6	22.2	22.7	23.0	22.8	20.6	15.1	12.8	10.9	8.3	9.2	12.9	23.0	1.4	
Avg	10.0	8.0	6.6	5.8	4.8	4.2	4.2	8.7	15.1	19.9	21.8	22.8	23.0	24.1	25.3	25.7	25.5	24.5	21.8	17.4	15.0	13.9	11.9	10.9	16.1	25.8	7.6	
Max	12.7	10.4	9.2	8.5	7.7	6.9	7.0	11.0	17.2	22.7	25.2	25.8	25.5	26.7	27.7	27.6	27.2	25.5	22.6	19.0	17.0	16.9	16.1	14.5	21.4	27.7	14.5	
Min	7.3	5.6	4.0	3.0	2.0	1.5	1.4	6.3	13.0	17.1	18.4	19.8	20.5	21.6	22.2	22.7	23.0	22.8	20.6	15.1	12.8	10.9	8.3	9.0	12.9	23.0	1.4	

A-14

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature 2 Meters (degrees Celsius)
September 2013

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	11.5	11.3	11.4	8.5	5.3	4.7	3.8	8.6	15.1	19.3	22.1	24.2	25.8	26.8	27.5	28.0	27.8	27.5	24.2	17.3	14.2	12.9	11.3	9.9	16.6	28.0	3.8	
2	8.7	7.0	6.7	5.0	4.9	5.1	4.9	10.0	17.7	24.6	27.8	28.3	28.1	28.7	27.8	27.0	26.3	24.4	21.7	21.1	17.9	15.5	13.2	11.4	17.2	28.7	4.9	
3	9.8	7.8	6.7	5.7	4.2	4.3	4.8	9.0	14.8	20.1	23.4	24.8	26.2	26.8	27.6	26.3	25.4	24.7	23.4	22.0	21.7	20.2	18.6	17.1	17.3	27.6	4.2	
4	16.1	15.0	14.3	13.5	13.4	12.6	11.9	13.5	16.8	19.9	22.2	22.9	24.5	24.7	25.8	26.6	26.0	23.4	21.8	17.6	15.4	13.0	11.2	9.4	18.0	26.6	9.4	
5	8.4	7.5	7.0	7.1	6.9	6.5	7.1	11.7	18.2	23.8	26.0	27.0	26.3	25.7	25.7	24.6	24.8	24.1	21.5	17.4	16.0	15.0	13.4	12.4	16.8	27.0	6.5	
6	15.1	14.0	11.8	10.0	9.0	9.2	10.3	11.5	14.8	19.2	23.6	26.3	27.3	27.8	27.9	26.4	26.5	19.5	17.9	17.5	18.3	17.1	16.2	14.9	18.0	27.9	9.0	
7	12.7	11.4	11.0	10.5	10.7	9.5	9.9	10.9	12.1	14.8	18.0	20.2	21.4	22.5	23.2	23.7	23.2	19.6	11.7	11.1	11.3	10.7	10.9	9.2	14.6	23.7	9.2	
8	8.7	7.2	6.3	5.7	5.1	4.9	4.2	6.2	9.8	14.0	16.9	19.3	21.1	19.7	13.4	14.4	15.0	14.9	13.8	13.2	11.1	7.9	6.5	5.9	11.0	21.1	4.2	
9	4.9	4.1	3.9	4.9	6.2	8.7	8.9	9.9	11.5	12.5	13.2	13.6	14.9	13.7	15.2	16.7	16.3	16.0	13.5	10.5	8.6	7.8	5.5	4.9	10.2	16.7	3.9	
10	4.0	3.3	3.1	3.3	2.1	1.2	1.6	5.2	10.6	15.5	17.9	19.2	19.8	20.6	21.2	21.7	21.9	21.6	17.2	13.7	11.6	10.5	8.8	8.6	11.8	21.9	1.2	
11	7.3	6.7	5.1	4.2	3.3	3.3	3.0	6.1	11.9	17.9	20.3	21.6	22.2	22.6	22.5	22.7	22.1	20.9	18.2	15.5	14.9	13.1	11.7	11.0	13.7	22.7	3.0	
12	11.3	9.4	10.9	9.2	9.1	9.1	7.8	12.6	16.2	17.8	19.5	20.8	21.7	20.9	22.6	22.3	22.2	21.3	18.8	17.3	18.0	15.8	16.2	15.9	16.1	22.6	7.8	
13	14.1	10.5	9.5	7.9	6.0	6.8	7.1	7.9	12.7	17.6	20.1	21.3	22.1	22.1	22.2	22.2	21.9	20.7	18.3	16.0	13.7	12.5	11.1	10.9	14.8	22.2	6.0	
14	10.9	11.1	10.8	10.6	10.6	11.0	11.2	13.0	13.9	16.4	18.4	18.6	17.9	18.1	18.6	18.5	17.9	16.5	14.8	14.3	13.6	12.0	11.2	10.2	14.2	18.6	10.2	
15	10.7	10.6	9.7	8.9	9.0	7.2	7.7	11.6	14.4	15.8	16.8	17.5	18.1	18.6	18.5	18.1	17.3	16.3	15.5	15.0	15.2	15.0	14.8	13.8	14.0	18.6	7.2	
16	12.8	11.2	10.0	8.8	7.3	5.9	5.5	8.5	15.5	19.0	20.9	22.8	23.7	22.5	22.2	17.4	18.5	19.5	17.2	13.9	12.2	9.1	8.1	7.4	14.2	23.7	5.5	
17	6.5	4.8	3.6	2.9	3.2	1.9	1.5	4.3	7.3	10.1	11.9	12.9	12.8	12.9	14.2	12.4	10.6	10.4	9.9	9.7	9.2	8.2	7.6	8.1	8.2	14.2	1.5	
18	6.8	5.1	4.2	3.2	3.1	3.7	5.3	6.3	6.7	7.1	8.1	7.9	8.3	9.3	9.7	10.1	9.7	8.6	6.7	5.8	5.1	4.4	4.0	3.4	6.4	10.1	3.1	
19	2.7	2.6	2.5	3.0	3.2	3.3	3.5	4.3	5.5	6.7	8.3	9.7	11.3	11.2	11.7	12.6	12.4	11.9	7.5	5.2	3.6	1.6	0.0	-0.5	6.0	12.6	-0.5	
20	-1.2	-1.7	-1.5	-2.8	-2.6	-2.5	-2.5	0.3	6.7	12.1	14.1	15.6	17.3	18.9	19.7	19.9	19.6	18.0	11.7	7.0	3.6	2.1	1.6	1.0	7.3	19.9	-2.8	
21	0.5	-0.2	0.6	0.0	0.1	0.8	1.4	3.2	11.0	17.3	20.9	21.5	22.1	22.2	22.2	21.8	21.3	18.5	16.4	14.6	12.6	10.3	8.4	7.2	11.4	22.2	-0.2	
22	6.2	5.8	4.3	3.9	5.3	4.4	5.5	6.9	10.0	12.7	14.8	15.8	16.7	17.1	17.0	16.3	13.6	9.8	8.2	7.7	7.4	6.5	7.2	6.4	9.6	17.1	3.9	
23	5.0	3.8	2.5	3.3	3.8	4.6	6.0	6.8	7.3	9.3	8.9	10.3	11.2	11.1	10.7	10.5	11.3	10.6	9.4	7.4	8.2	7.3	6.1	4.4	7.5	11.3	2.5	
24	3.8	3.1	1.2	-0.3	0.0	-1.8	-1.8	1.1	4.4	7.8	Au	Au	Au	Au	7.7	7.0	6.8	6.3	5.4	3.6	3.5	3.4	3.3	3.1	3.4	7.8	-1.8	
25	2.1	1.2	1.0	0.8	1.4	0.7	0.1	0.4	2.2	4.3	5.7	5.8	5.2	5.8	6.6	6.1	5.0	4.4	3.9	3.8	3.1	2.8	2.6	1.9	3.2	6.6	0.1	
26	1.0	0.4	0.9	1.2	1.1	1.2	1.0	1.0	1.2	1.7	2.0	2.7	3.0	3.1	3.1	2.9	2.5	1.9	0.4	-1.5	-1.7	-2.6	-3.0	-3.2	0.8	3.1	-3.2	
27	-3.4	-3.8	-4.6	-5.4	-6.2	-6.4	-6.7	-5.0	-1.2	2.2	3.5	4.5	5.3	5.9	6.3	5.8	5.3	5.0	4.5	4.1	4.0	3.1	2.9	2.7	0.9	6.3	-6.7	
28	3.0	2.9	2.8	3.7	3.5	3.2	3.2	5.2	6.1	6.4	7.3	8.6	9.1	9.9	10.5	10.8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	6.0	10.8	2.8	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	7.1	6.1	5.6	4.9	4.6	4.4	4.5	6.8	10.5	13.8	16.0	17.2	17.9	18.1	17.9	17.6	17.5	16.2	13.8	11.9	10.8	9.5	8.5	7.7	11.2	18.6	3.4	
Max	16.1	15.0	14.3	13.5	13.4	12.6	11.9	13.5	18.2	24.6	27.8	28.3	28.1	28.7	27.9	28.0	27.8	27.5	24.2	22.0	21.7	20.2	18.6	17.1	18.0	28.7	10.2	
Min	-3.4	-3.8	-4.6	-5.4	-6.2	-6.4	-6.7	-5.0	-1.2	1.7	2.0	2.7	3.0	3.1	3.1	2.9	2.5	1.9	0.4	-1.5	-1.7	-2.6	-3.0	-3.2	0.8	3.1	-6.7	

A-15

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
July 2013

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	0.44	0.93	0.83	1.03	1.76	0.78	-0.25	-0.46	-0.55	-0.47	-0.59	-0.68	-0.65	-0.57	-0.68	-0.64	-0.42	-0.26	0.08	0.30	0.65	1.49	1.38	0.80	0.18	1.76	-0.68	
2	1.33	0.77	0.32	0.53	1.11	0.68	-0.27	-0.45	-0.49	-0.60	-0.53	-0.71	-0.75	-0.71	-0.59	-0.42	-0.14	0.87	-0.14	0.80	0.78	0.90	0.62	0.58	0.15	1.33	-0.75	
3	1.29	1.03	0.84	0.89	1.02	0.72	-0.34	-0.39	-0.33	-0.43	-0.65	-0.76	-0.77	-0.85	-0.62	-0.60	-0.28	0.07	0.51	0.91	1.82	1.33	1.13	1.15	0.28	1.82	-0.85	
4	0.93	1.06	1.16	1.22	1.44	0.92	-0.22	-0.40	-0.61	-0.71	-0.66	-0.75	-0.74	-0.36	-0.40	-0.44	-0.56	-0.41	-0.30	0.80	1.09	0.96	1.66	0.95	0.23	1.66	-0.75	
5	1.01	1.14	1.09	0.78	1.14	0.29	-0.34	-0.45	-0.39	-0.61	-0.85	-0.93	-0.99	-0.96	-0.96	-0.70	-0.23	0.41	0.15	-0.15	0.22	0.72	0.91	0.47	0.03	1.14	-0.99	
6	0.54	1.08	0.76	1.11	1.08	0.21	-0.27	-0.48	-0.46	-0.81	-0.94	-0.75	-0.82	-0.64	-0.73	-0.74	-0.83	-0.52	-0.38	-0.16	-0.04	0.32	0.40	0.55	-0.11	1.11	-0.94	
7	0.28	0.37	0.03	0.31	0.33	0.25	-0.20	-0.43	-0.74	-0.83	-0.97	-0.88	-0.78	-0.73	-0.18	-0.30	-0.40	-0.33	-0.12	-0.03	0.78	1.04	1.22	2.15	-0.01	2.15	-0.97	
8	1.40	1.17	0.95	0.83	0.88	0.41	-0.27	-0.42	-0.59	-0.77	-0.89	-0.57	-0.21	0.11	-0.27	-0.40	-0.36	-0.03	-0.07	0.46	0.32	1.12	1.27	1.64	0.24	1.64	-0.89	
9	1.23	0.86	1.19	1.06	1.15	0.73	-0.28	-0.47	-0.67	-0.86	-0.90	-0.92	-0.93	-0.88	-0.91	-0.76	-0.64	-0.39	0.08	0.66	0.96	0.73	1.50	2.80	0.18	2.80	-0.93	
10	1.78	1.92	1.32	1.43	1.35	1.30	-0.12	-0.42	-0.58	-0.66	-0.93	-1.02	-0.99	-0.91	-0.83	-0.62	-0.49	0.08	0.73	0.70	0.66	0.46	0.94	2.50	0.32	2.50	-1.02	
11	2.14	1.76	1.80	1.38	1.49	0.60	-0.15	-0.36	-0.60	-0.83	-0.62	-0.15	0.07	-0.60	-0.48	-0.11	0.00	-0.05	0.12	0.29	0.69	0.41	0.27	0.54	0.32	2.14	-0.83	
12	0.55	0.31	0.62	1.32	1.82	1.30	-0.17	-0.39	-0.53	-0.92	-1.18	-1.08	-0.91	0.02	-0.45	-0.58	0.06	-0.33	-0.07	-0.01	0.02	0.30	0.02	0.05	-0.01	1.82	-1.18	
13	0.53	0.96	0.92	0.80	1.23	0.58	-0.08	-0.43	-0.64	-0.82	-0.94	-1.13	-1.05	-1.16	-1.15	-0.93	-0.69	-0.65	-0.49	-0.18	0.00	0.27	0.42	0.28	-0.18	1.23	-1.16	
14	-0.07	0.01	0.17	0.26	0.25	0.21	-0.14	-0.35	-0.87	-1.12	-1.50	-1.12	-0.49	-1.07	-0.34	-0.48	-0.22	-0.17	-0.30	0.15	0.15	0.17	0.22	0.61	-0.25	0.61	-1.50	
15	0.58	0.68	1.24	1.16	0.98	0.91	-0.10	-0.40	-0.46	-0.60	-0.90	-1.09	-1.09	-0.62	-0.46	-0.39	-0.32	0.65	0.64	0.65	0.56	0.93	0.60	0.63	0.16	1.24	-1.09	
16	0.55	0.28	0.43	0.63	0.88	0.66	-0.17	-0.50	-0.59	-1.23	-1.40	-1.47	-1.44	-1.62	-1.45	-1.34	-1.07	-0.72	-0.36	0.07	0.22	0.21	0.10	0.09	-0.38	0.88	-1.62	
17	0.19	0.24	0.01	-0.02	0.12	0.02	-0.14	-0.29	-0.54	-0.59	-0.84	-0.85	-0.83	-0.84	-0.78	-0.71	-0.03	0.82	0.34	-0.03	0.07	0.31	0.06	0.07	-0.18	0.82	-0.85	
18	0.02	0.03	0.24	0.40	0.26	0.09	-0.22	-0.31	-0.26	-0.56	-0.69	-0.67	-0.75	-0.82	-0.70	-0.59	-0.48	-0.11	0.41	1.06	1.01	0.57	0.89	1.26	0.00	1.26	-0.82	
19	1.27	0.94	0.80	1.16	0.88	0.57	-0.20	-0.30	-0.36	-0.55	-0.74	-0.77	-0.85	-0.82	-0.80	-0.54	-0.40	-0.13	0.41	1.20	1.79	0.84	1.63	1.40	0.27	1.79	-0.85	
20	1.80	1.09	1.31	1.72	1.11	1.25	-0.17	-0.36	-0.41	-0.56	-0.76	-0.81	-0.93	-0.65	-0.68	-0.64	-0.24	-0.06	0.30	1.28	0.99	0.35	1.39	1.27	0.32	1.80	-0.93	
21	1.21	1.36	1.64	1.45	1.30	1.08	-0.35	-0.34	-0.54	-0.73	-0.85	-0.88	-0.89	-0.94	-0.81	-0.66	-0.59	-0.37	0.31	1.27	1.27	1.09	1.03	1.67	0.28	1.67	-0.94	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	0.90	0.86	0.84	0.93	1.03	0.65	-0.21	-0.40	-0.53	-0.73	-0.87	-0.86	-0.80	-0.74	-0.68	-0.60	-0.40	-0.08	0.09	0.48	0.67	0.69	0.84	1.02	0.09	1.58	-0.98	
Max	2.14	1.92	1.80	1.72	1.82	1.30	-0.08	-0.29	-0.26	-0.43	-0.53	-0.15	0.07	0.11	-0.18	-0.11	0.06	0.87	0.73	1.28	1.82	1.49	1.66	2.80	0.32	2.80	-0.68	
Min	-0.07	0.01	0.01	-0.02	0.12	0.02	-0.35	-0.50	-0.87	-1.23	-1.50	-1.47	-1.44	-1.62	-1.45	-1.34	-1.07	-0.72	-0.49	-0.18	-0.04	0.17	0.02	0.05	-0.38	0.61	-1.62	

A-16

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	-0.56	-0.61	-0.37	0.65	1.15	0.89	0.57	0.77	0.74	0.39	0.36	1.15	-0.61
30	0.32	0.52	0.85	0.90	1.04	1.30	1.00	-0.25	-0.26	-0.60	-1.10	-1.04	-0.67	-1.14	-0.69	-0.88	-0.59	-0.20	0.69	1.91	1.75	1.62	0.74	0.42	0.24	1.91	-1.14	
31	0.91	1.02	1.34	1.66	1.50	1.07	0.72	-0.30	-0.42	-0.80	-1.02	-1.14	-0.98	-0.91	-0.85	-0.70	-0.63	-0.46	0.40	0.44	0.95	0.80	1.61	2.69	0.29	2.69	-1.14	
Avg	0.61	0.77	1.10	1.28	1.27	1.19	0.86	-0.28	-0.34	-0.70	-1.06	-1.09	-0.82	-1.02	-0.70	-0.73	-0.53	-0.00	0.75	1.08	1.09	1.06	1.03	1.17	0.28	1.92	-0.96	
Max	0.91	1.02	1.34	1.66	1.50	1.30	1.00	-0.25	-0.26	-0.60	-1.02	-1.04	-0.67	-0.91	-0.56	-0.61	-0.37	0.65	1.15	1.91	1.75	1.62	1.61	2.69	0.36	2.69	-0.61	
Min	0.32	0.52	0.85	0.90	1.04	1.07	0.72	-0.30	-0.42	-0.80	-1.10	-1.14	-0.98	-1.14	-0.85	-0.88	-0.63	-0.46	0.40	0.44	0.57	0.77	0.74	0.39	0.24	1.15	-1.14	

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Temperature Delta T (degrees Celsius)
September 2013

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	1.76	1.99	1.51	1.68	1.63	1.17	0.85	-0.22	-0.47	-0.49	-0.69	-0.79	-0.90	-0.98	-0.78	-0.77	-0.53	-0.35	0.63	0.50	1.07	0.83	1.36	1.23	0.38	1.99	-0.98	
2	1.18	2.44	1.85	2.20	2.07	1.52	1.16	-0.28	-0.29	-0.55	-0.90	-0.85	-0.73	-0.66	-0.17	-0.15	0.15	0.54	1.06	0.71	1.03	1.05	1.54	1.25	0.63	2.44	-0.90	
3	1.27	1.98	1.22	1.43	1.56	1.63	1.04	-0.22	-0.35	-0.43	-0.74	-0.69	-0.73	-0.64	-0.78	-0.29	-0.04	0.23	0.33	0.27	0.37	0.36	0.31	0.82	0.33	1.98	-0.78	
4	0.49	0.36	0.55	0.33	0.48	0.25	0.25	-0.20	-0.27	-0.43	-0.71	-0.44	-0.69	-0.56	-0.74	-0.96	-0.36	0.48	0.86	0.43	0.47	0.68	1.05	1.56	0.12	1.56	-0.96	
5	1.40	2.19	1.78	1.77	1.64	1.41	0.78	-0.23	-0.36	-0.55	-0.94	-1.12	-0.58	-0.27	-0.43	-0.87	-0.76	-0.34	0.56	0.85	0.51	0.40	0.80	0.43	0.34	2.19	-1.12	
6	0.19	0.25	0.54	0.61	0.55	0.44	0.00	-0.12	-0.19	-0.28	-0.51	-0.86	-0.95	-0.91	-0.80	-0.20	-0.53	0.17	0.13	0.30	0.42	0.79	0.80	0.73	0.02	0.80	-0.95	
7	1.06	0.88	0.76	0.84	0.43	0.41	0.00	-0.18	-0.32	-0.41	-0.55	-0.76	-0.55	-0.71	-0.78	-0.57	-0.34	-0.04	0.45	0.14	0.09	0.25	0.07	0.32	0.02	1.06	-0.78	
8	0.29	0.61	0.72	0.65	0.38	0.37	0.08	-0.13	-0.22	-0.22	-0.46	-0.69	-0.87	-0.47	0.16	-0.27	-0.17	0.01	0.27	0.36	0.73	1.44	0.52	0.34	0.14	1.44	-0.87	
9	0.72	0.40	0.25	0.02	0.17	0.26	0.14	-0.09	-0.31	-0.49	-0.45	-0.31	-0.72	-0.50	-0.90	-0.84	-0.42	-0.09	0.82	0.60	0.33	0.24	0.86	0.77	0.02	0.86	-0.90	
10	0.90	0.87	1.08	0.90	1.32	1.25	1.03	0.00	-0.17	-0.44	-0.52	-0.80	-0.83	-0.71	-0.62	-0.55	-0.33	-0.09	0.79	0.46	1.35	0.76	1.17	0.89	0.32	1.35	-0.83	
11	1.03	1.16	1.31	1.08	1.19	1.21	1.11	-0.23	-0.39	-0.41	-0.64	-0.57	-0.61	-0.64	-0.42	-0.43	-0.27	-0.11	0.20	0.38	0.50	1.76	2.85	1.74	0.45	2.85	-0.64	
12	0.68	1.85	0.85	1.58	1.60	1.61	1.25	-0.16	-0.46	-0.79	-1.01	-1.09	-0.99	-0.73	-0.93	-0.58	-0.40	-0.11	0.34	0.62	0.28	0.77	0.52	0.81	0.23	1.85	-1.09	
13	1.22	1.34	1.23	0.72	1.30	0.68	0.57	0.01	-0.28	-0.40	-0.63	-0.75	-0.71	-0.47	-0.33	-0.14	0.12	0.69	1.04	0.84	0.87	0.60	0.86	0.80	0.38	1.34	-0.75	
14	0.53	0.68	0.47	0.55	0.96	0.55	0.36	0.45	-0.53	-0.92	-0.88	-0.67	-0.59	-0.61	-0.58	-0.52	-0.25	0.09	0.77	0.39	0.20	0.82	0.62	0.66	0.11	0.96	-0.92	
15	0.96	0.79	0.75	0.55	0.84	1.00	1.05	-0.03	-0.50	-0.90	-0.89	-1.11	-1.29	-0.88	-0.51	-0.39	-0.32	-0.15	0.11	0.29	0.15	0.18	0.11	0.38	0.01	1.05	-1.29	
16	0.62	1.30	1.46	0.87	1.14	1.10	1.19	-0.06	-0.17	-0.56	-0.74	-0.87	-0.89	-0.29	-0.14	0.05	-0.11	0.14	0.77	0.94	0.61	1.51	1.09	0.80	0.41	1.51	-0.89	
17	1.17	1.37	1.35	1.00	0.93	1.86	1.33	0.09	-0.10	-0.01	-0.17	-0.09	0.01	-0.44	-0.36	0.06	0.06	0.13	0.01	-0.02	0.35	0.08	0.13	0.06	0.37	1.86	-0.44	
18	0.26	0.53	0.28	0.25	0.23	-0.05	0.11	0.07	0.11	-0.15	-0.32	-0.16	-0.11	-0.24	-0.27	-0.19	-0.16	-0.04	0.13	0.13	0.01	0.03	-0.07	-0.02	0.02	0.53	-0.32	
19	-0.02	-0.05	-0.07	-0.12	-0.13	-0.11	-0.10	-0.17	-0.27	-0.41	-0.74	-0.97	-1.26	-0.74	-0.59	-0.72	-0.47	-0.04	0.61	0.11	0.09	0.51	0.80	0.71	-0.17	0.80	-1.26	
20	1.11	1.23	1.03	1.23	1.11	1.17	1.16	0.22	-0.20	-0.45	-0.52	-0.78	-0.87	-0.87	-0.75	-0.58	-0.23	0.46	0.65	0.90	1.95	1.83	1.70	1.35	0.49	1.95	-0.87	
21	1.74	1.85	1.02	1.33	1.50	1.31	1.11	0.58	-0.14	-0.43	-0.55	-0.77	-0.82	-0.77	-0.42	-0.18	0.19	1.65	1.44	1.12	0.65	0.96	1.42	1.41	0.63	1.85	-0.82	
22	1.50	1.04	1.14	0.83	1.09	0.66	0.59	0.31	-0.16	-0.37	-0.38	-0.54	-0.81	-0.78	-0.61	-0.74	-0.11	0.18	0.14	0.02	0.23	0.30	0.21	0.20	0.16	1.50	-0.81	
23	0.50	0.80	0.40	0.00	-0.01	0.75	0.49	0.08	0.03	-0.58	-0.43	-0.58	-0.81	-0.60	-0.39	-0.10	-0.30	0.12	0.46	0.85	0.36	0.57	0.96	0.49	0.13	0.96	-0.81	
24	0.48	0.57	0.90	0.93	1.01	1.03	1.10	-0.03	-0.20	-0.11	Au	Au	Au	Au	-0.14	-0.07	-0.08	-0.03	0.01	0.01	-0.05	0.02	0.09	0.31	0.29	1.10	-0.20	
25	0.40	0.39	0.54	0.46	0.63	0.38	0.24	-0.13	-0.21	-0.27	-0.15	-0.21	-0.10	-0.34	-0.43	-0.28	0.00	0.11	0.17	0.02	0.03	0.03	-0.03	-0.03	0.05	0.63	-0.43	
26	-0.01	0.01	0.11	0.15	0.15	0.15	0.08	-0.12	-0.12	-0.26	-0.35	-0.41	-0.44	-0.50	-0.48	-0.43	-0.32	-0.06	0.51	0.91	0.45	0.47	0.63	0.41	0.02	0.91	-0.50	
27	0.28	0.50	0.59	0.92	0.96	0.81	0.60	0.03	-0.26	-0.65	-1.01	-1.16	-1.01	-0.94	-0.72	-0.34	-0.14	0.03	0.12	0.15	0.09	0.09	0.06	0.16	-0.03	0.96	-1.16	
28	0.27	0.46	0.49	0.20	0.34	0.53	0.65	-0.12	-0.21	-0.16	-0.39	-0.50	-0.41	-0.40	-0.36	-0.23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	0.01	0.65	-0.50	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	0.78	0.99	0.86	0.82	0.90	0.83	0.65	-0.03	-0.25	-0.43	-0.60	-0.69	-0.71	-0.62	-0.51	-0.40	-0.23	0.13	0.50	0.45	0.49	0.64	0.76	0.69	0.21	1.39	-0.81	
Max	1.76	2.44	1.85	2.20	2.07	1.86	1.33	0.58	0.11	-0.01	-0.15	-0.09	0.01	-0.24	0.16	0.06	0.19	1.65	1.44	1.12	1.95	1.83	2.85	1.74	0.63	2.85	-0.20	
Min	-0.02	-0.05	-0.07	-0.12	-0.13	-0.11	-0.10	-0.28	-0.53	-0.92	-1.01	-1.16	-1.29	-0.98	-0.93	-0.96	-0.76	-0.35	0.01	-0.02	-0.05	0.02	-0.07	-0.03	-0.17	0.53	-1.29	

A-18

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
July 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0.0	0.0	0.0	0.0	4.9	103.2	254.4	430.8	568.8	745.1	850.0	890.0	877.0	739.0	815.0	654.6	400.8	240.9	123.5	77.3	4.1	0.0	0.0	0.0	324.1	890.0	0.0	
2	0.0	0.0	0.0	0.0	5.3	93.1	245.4	410.5	583.2	726.2	830.0	905.0	932.0	899.0	826.0	724.3	564.3	203.2	217.7	69.7	5.3	0.0	0.0	0.0	343.3	932.0	0.0	
3	0.0	0.0	0.0	0.0	4.1	84.5	240.2	411.3	578.2	713.4	838.0	904.0	936.0	907.0	801.0	719.8	566.5	394.1	223.1	79.3	5.5	0.0	0.0	0.0	350.3	936.0	0.0	
4	0.0	0.0	0.0	0.0	4.7	54.6	233.2	410.2	580.2	707.2	713.6	809.0	722.9	528.3	578.4	574.5	602.3	450.2	279.5	47.4	3.0	0.0	0.0	0.0	304.1	809.0	0.0	
5	0.0	0.0	0.0	0.0	3.9	87.7	255.6	380.7	440.7	735.8	839.0	916.0	948.0	920.0	876.0	646.9	393.2	32.4	54.1	92.4	6.2	0.0	0.0	0.0	317.9	948.0	0.0	
6	0.0	0.0	0.0	0.0	3.4	89.0	248.0	426.3	572.2	754.3	859.0	898.0	966.0	741.5	846.0	547.4	596.0	326.0	169.5	80.4	10.1	0.0	0.0	0.0	338.9	966.0	0.0	
7	0.0	0.0	0.0	0.0	2.8	68.0	213.4	400.5	579.1	730.2	842.0	929.0	918.0	786.2	377.9	321.1	334.6	244.4	152.8	92.3	3.0	0.0	0.0	0.0	291.5	929.0	0.0	
8	0.0	0.0	0.0	0.0	1.5	55.2	235.8	408.9	575.7	682.4	792.3	598.7	248.5	141.7	409.5	476.8	432.6	233.8	233.1	79.7	2.8	0.0	0.0	0.0	233.7	792.3	0.0	
9	0.0	0.0	0.0	0.0	3.0	91.6	251.1	421.4	593.2	746.1	854.0	928.0	952.0	925.0	855.0	741.7	589.6	422.5	246.0	84.0	2.8	0.0	0.0	0.0	362.8	952.0	0.0	
10	0.0	0.0	0.0	0.0	2.8	92.8	246.7	420.2	591.3	741.5	850.0	916.0	939.0	919.0	834.0	646.4	498.9	303.5	156.7	40.6	0.3	0.0	0.0	0.0	341.7	939.0	0.0	
11	0.0	0.0	0.0	0.0	4.8	78.9	162.9	390.7	583.5	743.5	579.8	273.5	212.2	564.3	424.2	220.7	147.9	151.9	91.9	49.0	1.9	0.0	0.0	0.0	195.1	743.5	0.0	
12	0.0	0.0	0.0	0.0	1.7	80.5	236.8	408.1	576.3	699.9	828.0	818.0	627.7	163.3	499.5	456.2	258.2	201.0	56.6	41.2	1.1	0.0	0.0	0.0	248.1	828.0	0.0	
13	0.0	0.0	0.0	0.0	2.5	83.8	233.2	403.3	571.1	720.3	832.0	912.0	939.0	911.0	841.0	729.0	517.9	400.1	263.0	43.0	1.5	0.0	0.0	0.0	350.2	939.0	0.0	
14	0.0	0.0	0.0	0.0	1.4	24.2	145.5	277.0	567.7	718.2	842.0	772.0	440.4	794.0	303.4	530.8	350.0	278.7	234.8	71.8	2.4	0.0	0.0	0.0	264.8	842.0	0.0	
15	0.0	0.0	0.0	0.0	1.9	71.6	228.9	406.3	579.3	727.5	842.0	920.0	874.0	527.2	454.3	542.8	474.8	155.4	92.4	47.4	2.5	0.0	0.0	0.0	289.5	920.0	0.0	
16	0.0	0.0	0.0	0.0	1.6	62.0	215.0	386.4	562.6	694.2	790.7	797.8	780.7	823.0	783.2	703.7	553.6	385.2	193.2	35.8	0.8	0.0	0.0	0.0	323.7	823.0	0.0	
17	0.0	0.0	0.0	0.0	0.3	16.5	101.7	243.0	516.9	697.9	806.0	859.0	905.0	876.0	810.0	686.0	216.0	5.1	2.9	38.2	1.6	0.0	0.0	0.0	282.6	905.0	0.0	
18	0.0	0.0	0.0	0.0	1.7	54.2	218.7	395.6	565.8	725.8	841.0	910.0	935.0	914.0	828.0	714.2	579.9	407.0	227.0	64.5	1.8	0.0	0.0	0.0	349.3	935.0	0.0	
19	0.0	0.0	0.0	0.0	1.7	63.9	216.7	392.9	572.3	735.7	845.0	921.0	954.0	922.0	852.0	748.3	588.4	410.8	231.1	68.4	1.6	0.0	0.0	0.0	355.2	954.0	0.0	
20	0.0	0.0	0.0	0.0	1.4	61.5	218.5	393.6	567.1	720.7	833.0	915.0	952.0	750.6	681.1	759.6	416.0	314.2	221.8	66.6	1.4	0.0	0.0	0.0	328.1	952.0	0.0	
21	0.0	0.0	0.0	0.0	1.2	62.2	223.1	398.1	570.7	723.4	835.0	911.0	941.0	915.0	838.0	714.3	569.1	404.9	228.9	62.7	1.4	0.0	0.0	0.0	350.0	941.0	0.0	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	0.0	0.0	0.0	0.0	2.7	70.4	220.2	391.2	566.5	723.3	816.3	843.0	809.5	746.1	692.1	612.3	459.6	284.1	176.2	63.4	2.9	0.0	0.0	0.0	311.7	898.8	0.0	
Max	0.0	0.0	0.0	0.0	5.3	103.2	255.6	430.8	593.2	754.3	859.0	929.0	966.0	925.0	876.0	759.6	602.3	450.2	279.5	92.4	10.1	0.0	0.0	0.0	362.8	966.0	0.0	
Min	0.0	0.0	0.0	0.0	0.3	16.5	101.7	243.0	440.7	682.4	579.8	273.5	212.2	141.7	303.4	220.7	147.9	5.1	2.9	35.8	0.3	0.0	0.0	0.0	195.1	743.5	0.0	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	427.8	423.5	300.5	86.5	30.2	2.2	0.0	0.0	0.0	0.0	127.1	427.8	0.0
30	0.0	0.0	0.0	0.0	0.0	2.1	79.5	249.3	431.9	591.0	711.5	670.4	506.2	782.5	487.9	589.3	405.8	230.5	63.3	1.2	0.0	0.0	0.0	0.0	241.8	782.5	0.0	
31	0.0	0.0	0.0	0.0	0.0	2.4	99.8	274.3	454.4	614.4	739.3	816.0	836.0	800.0	706.1	575.8	417.0	242.9	64.0	0.9	0.0	0.0	0.0	0.0	276.8	836.0	0.0	
Avg	0.0	0.0	0.0	0.0	0.0	2.3	89.7	261.8	443.1	602.7	725.4	743.2	671.1	791.3	540.6	529.5	374.4	186.6	52.5	1.4	0.0	0.0	0.0	0.0	236.5	682.1	0.0	
Max	0.0	0.0	0.0	0.0	0.0	2.4	99.8	274.3	454.4	614.4	739.3	816.0	836.0	800.0	706.1	589.3	417.0	242.9	64.0	2.2	0.0	0.0	0.0	0.0	276.8	836.0	0.0	
Min	0.0	0.0	0.0	0.0	0.0	2.1	79.5	249.3	431.9	591.0	711.5	670.4	506.2	782.5	427.8	423.5	300.5	86.5	30.2	0.9	0.0	0.0	0.0	0.0	127.1	427.8	0.0	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Solar Radiation (watts m²)
September 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	0.0	0.0	0.0	0.0	0.0	2.6	87.5	260.6	438.5	594.8	717.0	795.4	814.0	781.6	697.8	561.5	394.0	221.6	52.7	0.5	0.0	0.0	0.0	0.0	267.5	814.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	4.2	70.1	255.7	392.9	559.4	582.3	509.0	439.9	473.9	234.7	201.1	139.9	67.8	16.6	0.0	0.0	0.0	0.0	0.0	164.5	582.3	0.0	
3	0.0	0.0	0.0	0.0	0.0	2.6	67.0	227.9	363.8	521.4	656.9	724.3	690.2	678.7	562.1	173.2	85.0	54.3	13.5	0.0	0.0	0.0	0.0	0.0	200.9	724.3	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.7	29.0	185.7	330.5	528.8	674.7	340.9	610.2	355.1	611.5	540.9	299.3	76.4	21.5	0.1	0.0	0.0	0.0	0.0	191.9	674.7	0.0	
5	0.0	0.0	0.0	0.0	0.0	1.6	65.4	235.0	401.7	504.3	623.8	663.9	303.9	170.9	286.4	457.4	360.0	196.0	37.0	0.0	0.0	0.0	0.0	0.0	179.5	663.9	0.0	
6	0.0	0.0	0.0	0.0	0.0	1.7	42.2	99.4	300.5	415.1	641.3	748.6	628.9	532.3	423.4	225.2	371.4	141.9	27.5	0.0	0.0	0.0	0.0	0.0	191.6	748.6	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.6	44.6	99.4	245.1	373.2	615.4	724.0	543.6	459.2	426.1	364.4	220.3	40.5	0.0	0.0	0.0	0.0	0.0	0.0	173.2	724.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.3	39.4	137.2	372.1	554.0	616.8	733.4	758.9	404.1	244.6	319.5	244.5	129.8	12.6	0.0	0.0	0.0	0.0	0.0	190.3	758.9	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	12.6	101.7	221.5	291.6	254.0	179.2	434.4	344.8	528.2	455.3	242.5	137.9	8.5	0.0	0.0	0.0	0.0	0.0	133.8	528.2	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.8	71.0	244.1	411.5	563.2	687.9	758.2	776.3	739.6	646.5	517.9	353.2	178.1	25.8	0.0	0.0	0.0	0.0	0.0	248.9	776.3	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.8	69.5	235.2	405.4	557.7	679.6	767.8	779.2	749.6	549.4	502.8	345.8	172.3	22.1	0.0	0.0	0.0	0.0	0.0	243.2	779.2	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.8	62.0	233.1	405.1	557.0	682.3	753.5	779.1	461.4	739.9	447.3	329.0	180.5	16.1	0.0	0.0	0.0	0.0	0.0	235.3	779.1	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.7	22.4	135.0	372.6	564.5	656.5	615.7	579.6	389.0	297.8	206.2	123.1	55.2	8.1	0.0	0.0	0.0	0.0	0.0	167.8	656.5	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	16.3	74.1	341.0	610.1	707.9	568.0	463.6	458.0	432.6	384.8	217.3	82.6	11.1	0.0	0.0	0.0	0.0	0.0	182.0	707.9	0.0	
15	0.0	0.0	0.0	0.0	0.0	1.1	54.0	216.2	380.6	533.7	656.7	757.8	719.8	641.4	521.8	327.6	235.6	109.0	14.6	0.0	0.0	0.0	0.0	0.0	215.4	757.8	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.1	52.9	213.1	377.1	527.2	644.1	712.8	647.4	225.5	192.7	54.0	185.9	140.0	10.3	0.0	0.0	0.0	0.0	0.0	166.0	712.8	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	15.5	104.5	69.8	50.4	116.9	117.4	74.5	563.2	351.9	30.8	11.2	11.4	0.5	0.0	0.0	0.0	0.0	0.0	63.3	563.2	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	5.5	7.0	38.3	202.6	255.2	183.7	139.6	231.0	215.1	164.0	175.7	89.6	5.8	0.0	0.0	0.0	0.0	0.0	71.4	255.2	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	12.8	70.2	140.1	238.0	447.8	643.1	869.0	484.0	393.1	475.8	287.0	133.1	7.7	0.0	0.0	0.0	0.0	0.0	175.1	869.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	52.8	230.0	385.7	534.7	660.6	726.7	740.7	699.1	607.4	475.7	310.2	132.9	6.5	0.0	0.0	0.0	0.0	0.0	231.8	740.7	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	37.3	203.2	342.4	460.6	654.5	723.5	712.7	677.7	445.0	318.0	191.7	42.5	1.4	0.0	0.0	0.0	0.0	0.0	200.4	723.5	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	15.4	86.4	172.2	337.4	420.7	476.2	674.6	693.6	422.5	431.3	122.1	19.1	0.2	0.0	0.0	0.0	0.0	0.0	161.3	693.6	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	22.2	143.8	136.1	488.3	258.2	449.5	550.5	406.3	289.3	152.5	245.6	86.8	3.8	0.0	0.0	0.0	0.0	0.0	134.7	550.5	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	15.5	186.3	123.1	119.4	Au	Au	Au	Au	59.8	38.7	48.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	30.1	186.3	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	7.8	32.1	75.8	165.7	200.8	114.9	111.8	269.3	268.2	139.4	30.0	13.8	0.8	0.0	0.0	0.0	0.0	0.0	59.6	269.3	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	7.3	58.6	144.2	170.0	269.0	271.3	254.6	324.2	251.4	189.3	113.8	26.4	1.3	0.0	0.0	0.0	0.0	0.0	86.7	324.2	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	21.1	202.4	369.1	479.3	612.3	689.4	557.9	469.8	325.4	148.6	71.3	22.3	0.5	0.0	0.0	0.0	0.0	0.0	165.4	689.4	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	22.3	111.7	121.2	103.8	243.5	302.2	271.7	267.3	248.0	169.5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	116.3	302.2	0.0	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	0.0
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.7	37.2	156.8	281.4	414.5	527.3	557.4	552.8	479.7	402.6	302.6	213.1	95.3	12.1	0.0	0.0	0.0	0.0	0.0	167.4	627.0	0.0	
Max	0.0	0.0	0.0	0.0	0.0	4.2	87.5	260.6	438.5	610.1	717.0	795.4	869.0	781.6	739.9	561.5	394.0	221.6	52.7	0.5	0.0	0.0	0.0	0.0	267.5	869.0	0.0	
Min	0.0	0.0	0.0	0.0	0.0	0.0	5.5	7.0	38.3	50.4	116.9	114.9	74.5	170.9	59.8	30.8	11.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	30.1	186.3	0.0	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
July 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	24.69	24.69	24.69	24.69	24.70	24.71	24.71	24.71	24.71	24.70	24.70	24.69	24.69	24.68	24.68	24.67	24.66	24.66	24.66	24.67	24.67	24.68	24.68	24.69	24.69	24.69	24.71	24.66
2	24.68	24.68	24.67	24.67	24.67	24.68	24.67	24.66	24.65	24.64	24.64	24.63	24.62	24.61	24.59	24.58	24.56	24.55	24.55	24.54	24.54	24.54	24.54	24.54	24.54	24.61	24.68	24.54
3	24.53	24.53	24.52	24.52	24.53	24.54	24.55	24.55	24.55	24.54	24.53	24.53	24.51	24.50	24.49	24.48	24.47	24.46	24.45	24.45	24.46	24.48	24.48	24.48	24.48	24.51	24.55	24.45
4	24.48	24.48	24.48	24.48	24.48	24.49	24.49	24.48	24.48	24.47	24.46	24.45	24.44	24.43	24.42	24.40	24.38	24.36	24.35	24.35	24.36	24.38	24.36	24.36	24.36	24.43	24.49	24.35
5	24.36	24.36	24.36	24.36	24.36	24.36	24.37	24.38	24.39	24.38	24.38	24.37	24.36	24.36	24.35	24.33	24.31	24.32	24.35	24.35	24.36	24.37	24.37	24.37	24.36	24.39	24.31	
6	24.38	24.38	24.39	24.40	24.41	24.42	24.43	24.44	24.44	24.45	24.45	24.44	24.43	24.42	24.41	24.39	24.39	24.37	24.39	24.40	24.42	24.45	24.45	24.45	24.45	24.42	24.45	24.37
7	24.45	24.45	24.44	24.44	24.44	24.45	24.46	24.46	24.46	24.46	24.45	24.44	24.44	24.42	24.40	24.40	24.39	24.40	24.41	24.42	24.43	24.46	24.47	24.48	24.44	24.48	24.39	
8	24.48	24.46	24.45	24.46	24.47	24.47	24.48	24.47	24.46	24.47	24.46	24.46	24.46	24.48	24.48	24.47	24.45	24.46	24.47	24.49	24.53	24.56	24.57	24.58	24.48	24.58	24.45	
9	24.59	24.60	24.59	24.60	24.61	24.62	24.64	24.64	24.64	24.65	24.65	24.65	24.64	24.63	24.62	24.62	24.61	24.60	24.59	24.59	24.61	24.62	24.62	24.62	24.62	24.62	24.65	24.59
10	24.62	24.61	24.60	24.60	24.60	24.60	24.60	24.59	24.58	24.57	24.56	24.56	24.55	24.53	24.51	24.49	24.47	24.45	24.44	24.43	24.42	24.42	24.41	24.41	24.53	24.62	24.41	
11	24.39	24.39	24.38	24.36	24.37	24.39	24.39	24.39	24.38	24.37	24.37	24.38	24.39	24.39	24.38	24.37	24.37	24.37	24.36	24.38	24.39	24.42	24.43	24.42	24.38	24.43	24.36	
12	24.41	24.42	24.42	24.42	24.43	24.44	24.45	24.43	24.43	24.42	24.41	24.40	24.40	24.40	24.39	24.38	24.41	24.40	24.41	24.41	24.42	24.43	24.44	24.45	24.42	24.45	24.38	
13	24.44	24.43	24.43	24.43	24.45	24.46	24.48	24.48	24.49	24.50	24.50	24.52	24.53	24.53	24.54	24.55	24.55	24.55	24.57	24.59	24.62	24.63	24.65	24.65	24.52	24.65	24.43	
14	24.66	24.66	24.65	24.64	24.64	24.64	24.64	24.65	24.65	24.63	24.63	24.62	24.60	24.59	24.58	24.57	24.55	24.55	24.54	24.55	24.54	24.55	24.55	24.55	24.60	24.66	24.54	
15	24.55	24.53	24.53	24.53	24.53	24.53	24.53	24.53	24.52	24.51	24.50	24.49	24.47	24.46	24.46	24.45	24.44	24.44	24.45	24.48	24.50	24.54	24.57	24.58	24.50	24.58	24.44	
16	24.59	24.60	24.61	24.62	24.63	24.64	24.65	24.66	24.65	24.64	24.65	24.65	24.65	24.64	24.64	24.63	24.62	24.61	24.63	24.64	24.65	24.66	24.66	24.66	24.64	24.66	24.59	
17	24.65	24.66	24.65	24.63	24.62	24.64	24.65	24.64	24.64	24.63	24.62	24.61	24.60	24.59	24.57	24.55	24.54	24.56	24.62	24.63	24.61	24.62	24.62	24.63	24.62	24.66	24.54	
18	24.63	24.63	24.63	24.63	24.64	24.64	24.65	24.66	24.65	24.65	24.64	24.64	24.63	24.62	24.62	24.60	24.59	24.59	24.59	24.59	24.61	24.63	24.63	24.63	24.63	24.63	24.59	
19	24.64	24.63	24.63	24.62	24.62	24.62	24.62	24.61	24.61	24.59	24.59	24.58	24.56	24.55	24.54	24.54	24.53	24.52	24.52	24.52	24.54	24.55	24.55	24.55	24.58	24.64	24.52	
20	24.56	24.55	24.55	24.54	24.53	24.54	24.54	24.54	24.53	24.52	24.51	24.50	24.49	24.48	24.47	24.45	24.44	24.42	24.41	24.41	24.42	24.43	24.43	24.42	24.49	24.56	24.41	
21	24.42	24.41	24.40	24.41	24.41	24.42	24.44	24.44	24.44	24.44	24.44	24.43	24.43	24.43	24.42	24.41	24.40	24.39	24.39	24.40	24.41	24.43	24.44	24.45	24.42	24.45	24.39	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	
Avg	24.53	24.53	24.53	24.53	24.53	24.54	24.54	24.54	24.54	24.53	24.53	24.53	24.52	24.51	24.50	24.49	24.48	24.48	24.48	24.49	24.50	24.52	24.52	24.52	24.52	24.52	24.57	24.46
Max	24.69	24.69	24.69	24.69	24.70	24.71	24.71	24.71	24.71	24.70	24.70	24.69	24.69	24.68	24.68	24.67	24.66	24.66	24.66	24.67	24.67	24.68	24.68	24.69	24.69	24.69	24.71	24.66
Min	24.36	24.36	24.36	24.36	24.36	24.36	24.37	24.38	24.38	24.37	24.37	24.37	24.36	24.36	24.35	24.33	24.31	24.32	24.35	24.35	24.36	24.37	24.36	24.36	24.36	24.36	24.39	24.31

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	24.54	24.54	24.52	24.52	24.53	24.53	24.55	24.58	24.59	24.59	24.55	24.59	24.52
30	24.60	24.60	24.59	24.59	24.58	24.58	24.59	24.59	24.58	24.57	24.56	24.55	24.54	24.54	24.53	24.52	24.51	24.50	24.50	24.52	24.53	24.55	24.57	24.59	24.59	24.56	24.60	24.50
31	24.59	24.59	24.59	24.60	24.59	24.60	24.61	24.62	24.62	24.62	24.62	24.62	24.61	24.60	24.59	24.58	24.57	24.56	24.56	24.57	24.59	24.59	24.59	24.59	24.59	24.59	24.59	24.56
Avg	24.59	24.59	24.59	24.59	24.59	24.59	24.60	24.61	24.60	24.59	24.59	24.59	24.57	24.57	24.55	24.55	24.53	24.53	24.53	24.54	24.56	24.57	24.58	24.59	24.57	24.60	24.53	
Max	24.60	24.60	24.59	24.60	24.59	24.60	24.61	24.62	24.62	24.62	24.62	24.62	24.61	24.60	24.59	24.58	24.57	24.56	24.56	24.57	24.59	24.59	24.59	24.59	24.59	24.59	24.62	24.56
Min	24.59	24.59	24.59	24.59	24.58	24.58	24.59	24.59	24.58	24.57	24.56	24.55	24.54	24.54	24.53	24.52	24.51	24.50	24.50	24.52	24.53	24.55	24.57	24.59	24.55	24.59	24.50	

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Barometric Pressure (InHg)
September 2013

Day	<< Hour >>																								Avg	Max	Min	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	24.59	24.59	24.59	24.58	24.58	24.57	24.58	24.58	24.57	24.56	24.56	24.55	24.54	24.53	24.52	24.50	24.49	24.48	24.48	24.49	24.51	24.51	24.52	24.51	24.54	24.59	24.48	
2	24.51	24.51	24.50	24.50	24.49	24.49	24.50	24.50	24.49	24.48	24.47	24.46	24.45	24.45	24.44	24.45	24.46	24.46	24.47	24.48	24.49	24.51	24.51	24.52	24.53	24.48	24.53	24.44
3	24.53	24.54	24.55	24.55	24.56	24.56	24.57	24.58	24.59	24.59	24.59	24.58	24.57	24.56	24.55	24.54	24.55	24.55	24.55	24.56	24.59	24.62	24.63	24.63	24.57	24.63	24.53	
4	24.62	24.62	24.61	24.61	24.62	24.62	24.63	24.64	24.64	24.64	24.63	24.62	24.62	24.61	24.61	24.60	24.60	24.60	24.60	24.60	24.62	24.63	24.63	24.62	24.62	24.64	24.60	
5	24.62	24.61	24.60	24.59	24.59	24.60	24.61	24.61	24.60	24.59	24.58	24.56	24.55	24.55	24.55	24.55	24.53	24.52	24.52	24.54	24.55	24.56	24.56	24.58	24.57	24.62	24.52	
6	24.59	24.55	24.56	24.57	24.57	24.58	24.58	24.59	24.58	24.57	24.56	24.55	24.54	24.52	24.50	24.48	24.48	24.50	24.51	24.51	24.52	24.53	24.54	24.55	24.54	24.59	24.48	
7	24.55	24.56	24.56	24.57	24.57	24.57	24.59	24.59	24.60	24.60	24.59	24.58	24.56	24.55	24.53	24.51	24.49	24.49	24.55	24.56	24.55	24.57	24.54	24.54	24.56	24.60	24.49	
8	24.54	24.53	24.52	24.52	24.51	24.51	24.50	24.50	24.49	24.47	24.46	24.43	24.42	24.45	24.43	24.42	24.42	24.42	24.42	24.43	24.44	24.43	24.44	24.44	24.47	24.54	24.42	
9	24.44	24.44	24.43	24.43	24.43	24.44	24.44	24.46	24.46	24.47	24.48	24.48	24.49	24.50	24.49	24.49	24.50	24.50	24.51	24.53	24.54	24.54	24.55	24.55	24.48	24.55	24.43	
10	24.56	24.56	24.56	24.56	24.56	24.57	24.58	24.60	24.60	24.60	24.59	24.59	24.59	24.58	24.57	24.56	24.55	24.56	24.57	24.59	24.61	24.62	24.63	24.64	24.58	24.64	24.55	
11	24.65	24.65	24.66	24.67	24.67	24.68	24.70	24.72	24.72	24.72	24.72	24.71	24.71	24.71	24.71	24.71	24.71	24.71	24.72	24.73	24.74	24.74	24.75	24.75	24.71	24.75	24.65	
12	24.76	24.75	24.75	24.74	24.74	24.72	24.72	24.72	24.71	24.71	24.69	24.68	24.66	24.65	24.62	24.61	24.60	24.58	24.58	24.58	24.57	24.57	24.55	24.54	24.66	24.76	24.54	
13	24.53	24.52	24.52	24.51	24.50	24.49	24.49	24.48	24.47	24.46	24.44	24.42	24.41	24.40	24.38	24.37	24.37	24.37	24.37	24.38	24.39	24.40	24.40	24.41	24.44	24.53	24.37	
14	24.41	24.41	24.42	24.43	24.44	24.45	24.46	24.48	24.49	24.51	24.51	24.51	24.53	24.53	24.54	24.54	24.54	24.55	24.56	24.57	24.58	24.60	24.61	24.61	24.51	24.61	24.41	
15	24.60	24.60	24.61	24.61	24.60	24.60	24.60	24.60	24.59	24.59	24.59	24.58	24.57	24.56	24.54	24.53	24.52	24.51	24.51	24.50	24.50	24.49	24.48	24.47	24.56	24.61	24.47	
16	24.46	24.45	24.45	24.45	24.44	24.44	24.44	24.44	24.43	24.43	24.41	24.40	24.39	24.38	24.37	24.37	24.35	24.34	24.34	24.34	24.35	24.35	24.36	24.37	24.40	24.46	24.34	
17	24.36	24.36	24.35	24.35	24.34	24.33	24.32	24.33	24.33	24.35	24.34	24.33	24.32	24.30	24.26	24.28	24.25	24.25	24.27	24.22	24.20	24.21	24.23	24.20	24.29	24.36	24.20	
18	24.18	24.19	24.19	24.18	24.19	24.20	24.22	24.23	24.26	24.26	24.26	24.27	24.28	24.29	24.31	24.31	24.33	24.35	24.38	24.41	24.43	24.44	24.46	24.47	24.30	24.47	24.18	
19	24.48	24.50	24.50	24.51	24.52	24.53	24.55	24.56	24.57	24.58	24.59	24.58	24.57	24.57	24.57	24.56	24.55	24.55	24.54	24.54	24.54	24.54	24.53	24.52	24.54	24.59	24.48	
20	24.51	24.50	24.50	24.49	24.49	24.48	24.48	24.48	24.47	24.46	24.44	24.42	24.39	24.37	24.36	24.35	24.34	24.33	24.33	24.33	24.32	24.32	24.31	24.31	24.41	24.51	24.31	
21	24.31	24.30	24.29	24.29	24.28	24.28	24.27	24.27	24.26	24.24	24.23	24.22	24.21	24.19	24.17	24.16	24.15	24.15	24.15	24.16	24.17	24.16	24.15	24.14	24.22	24.31	24.14	
22	24.14	24.14	24.15	24.17	24.16	24.16	24.15	24.15	24.16	24.16	24.15	24.13	24.14	24.12	24.11	24.11	24.13	24.16	24.17	24.19	24.20	24.21	24.22	24.22	24.16	24.22	24.11	
23	24.22	24.22	24.23	24.24	24.25	24.25	24.28	24.29	24.31	24.32	24.34	24.33	24.33	24.33	24.33	24.34	24.35	24.37	24.37	24.37	24.38	24.39	24.39	24.39	24.32	24.39	24.22	
24	24.39	24.40	24.39	24.39	24.38	24.37	24.36	24.36	24.35	24.34	Au	Au	Au	Au	24.25	24.23	24.21	24.19	24.19	24.22	24.22	24.22	24.23	24.22	24.30	24.40	24.19	
25	24.19	24.19	24.20	24.19	24.17	24.17	24.16	24.16	24.16	24.16	24.16	24.15	24.15	24.14	24.14	24.14	24.16	24.17	24.17	24.18	24.17	24.18	24.19	24.20	24.17	24.20	24.14	
26	24.22	24.22	24.23	24.24	24.24	24.26	24.27	24.28	24.29	24.31	24.32	24.33	24.34	24.35	24.36	24.37	24.38	24.39	24.40	24.38	24.39	24.38	24.38	24.39	24.32	24.40	24.22	
27	24.39	24.39	24.38	24.38	24.38	24.37	24.38	24.38	24.38	24.38	24.36	24.36	24.34	24.33	24.33	24.33	24.33	24.34	24.34	24.34	24.34	24.34	24.34	24.33	24.36	24.39	24.33	
28	24.33	24.33	24.32	24.32	24.33	24.33	24.34	24.34	24.35	24.35	24.34	24.33	24.33	24.32	24.32	24.32	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	24.33	24.35	24.32	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
Avg	24.45	24.45	24.45	24.45	24.45	24.45	24.46	24.46	24.46	24.46	24.46	24.45	24.45	24.44	24.42	24.42	24.42	24.42	24.43	24.43	24.44	24.45	24.45	24.45	24.45	24.51	24.38	
Max	24.76	24.75	24.75	24.74	24.74	24.72	24.72	24.72	24.72	24.72	24.72	24.71	24.71	24.71	24.71	24.71	24.71	24.71	24.72	24.73	24.74	24.74	24.75	24.75	24.71	24.76	24.65	
Min	24.14	24.14	24.15	24.17	24.16	24.16	24.15	24.15	24.16	24.16	24.15	24.13	24.14	24.12	24.11	24.11	24.13	24.15	24.15	24.16	24.17	24.16	24.15	24.14	24.16	24.20	24.11	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (RH)
July 2013

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	86.5	88.8	92.3	93.8	94.1	92.7	83.7	72.4	58.1	38.6	31.3	31.1	30.8	32.0	32.0	31.8	35.5	38.4	42.2	46.2	54.4	62.7	71.4	77.2	59.1	94.1	30.8	
2	81.8	83.0	82.7	83.1	88.2	84.9	78.7	65.6	51.9	47.9	45.4	42.5	35.6	30.5	30.0	29.0	28.1	32.5	35.4	50.8	59.8	68.2	73.9	76.7	57.8	88.2	28.1	
3	85.7	85.3	86.6	88.0	88.4	86.1	76.5	62.8	47.6	40.4	36.5	34.5	33.5	33.4	33.0	30.1	31.4	31.1	34.0	38.5	55.6	68.3	73.5	79.7	56.7	88.4	30.1	
4	84.4	86.2	89.4	92.8	93.0	91.9	80.4	70.4	57.9	50.4	46.9	40.8	36.9	39.1	34.6	36.4	37.0	35.9	31.9	43.3	63.3	59.2	76.6	82.4	60.9	93.0	31.9	
5	89.5	88.2	93.1	93.4	95.0	86.7	78.3	65.5	56.6	43.1	42.5	35.8	37.4	35.9	36.6	34.2	36.2	49.9	77.6	80.3	88.7	88.0	94.7	94.5	67.6	95.0	34.2	
6	94.8	95.6	96.5	96.5	96.7	96.1	91.7	81.9	64.9	56.3	44.3	41.2	41.1	38.7	33.1	32.1	30.4	42.8	53.9	59.8	65.3	76.9	83.8	83.7	66.6	96.7	30.4	
7	84.0	89.5	90.4	88.9	92.8	93.3	82.0	73.0	69.7	62.7	58.5	52.1	43.6	36.6	36.2	35.2	50.9	52.2	56.5	57.2	67.1	75.6	80.7	81.8	67.1	93.3	35.2	
8	83.6	86.4	87.2	85.6	86.6	85.9	76.0	61.7	45.8	44.1	45.6	47.6	62.4	75.6	64.5	49.6	43.6	43.6	42.2	41.5	65.8	77.0	86.5	91.0	65.8	91.0	41.5	
9	93.0	91.7	93.9	93.9	95.2	94.3	82.8	69.5	54.1	43.7	40.6	37.7	32.9	29.8	27.9	24.4	20.1	21.6	29.5	36.6	52.1	58.5	67.4	76.5	57.0	95.2	20.1	
10	83.2	90.7	90.8	91.7	94.2	90.4	82.7	70.7	52.4	40.7	30.9	27.1	24.2	20.6	19.1	19.3	16.6	16.7	23.4	31.8	30.9	30.9	32.1	38.2	47.9	94.2	16.6	
11	41.4	54.4	63.0	65.6	70.4	71.3	64.4	58.1	43.3	33.8	34.3	34.4	29.8	28.4	27.9	30.5	32.8	37.9	39.7	46.5	54.9	56.1	54.1	56.9	47.1	71.3	27.9	
12	66.0	73.9	78.3	85.2	88.3	84.9	70.6	60.9	44.3	40.3	36.8	30.5	29.6	37.6	34.1	30.3	52.3	63.7	69.6	73.6	83.6	85.0	84.3	84.6	62.0	88.3	29.6	
13	89.7	93.4	92.0	92.3	93.8	90.5	78.1	64.1	56.8	53.3	48.9	41.3	37.3	34.9	35.5	36.0	34.8	39.7	42.9	48.9	51.1	58.3	60.9	61.4	59.8	93.8	34.8	
14	59.6	59.9	62.8	63.2	61.1	62.9	56.2	59.2	58.0	57.0	54.2	47.5	45.6	29.6	31.6	32.5	30.7	34.6	36.5	47.4	51.8	52.4	57.0	63.8	50.6	63.8	29.6	
15	66.7	72.7	83.5	88.1	88.1	88.6	81.7	66.9	44.8	35.8	23.7	19.5	19.7	18.4	18.4	18.1	18.1	22.0	24.1	31.5	48.9	64.7	69.7	73.7	49.5	88.6	18.1	
16	75.1	76.8	80.7	84.1	89.1	87.7	77.0	68.3	61.1	50.2	49.8	48.1	48.8	42.8	38.4	38.9	38.7	43.4	52.2	60.5	65.6	71.0	74.3	77.5	62.5	89.1	38.4	
17	80.7	87.5	91.0	92.7	93.1	94.3	90.9	83.5	76.9	65.6	57.4	51.5	45.9	41.5	38.5	35.5	38.5	57.9	78.0	88.9	89.5	94.1	93.5	93.7	73.4	94.3	35.5	
18	94.1	96.6	96.8	96.8	97.2	97.1	95.8	90.8	67.1	48.1	40.8	37.9	33.1	30.1	27.2	25.1	24.7	21.4	26.8	37.5	55.5	62.8	71.8	83.9	60.8	97.2	21.4	
19	84.9	82.1	83.2	89.1	89.9	86.2	81.2	69.4	49.8	33.6	29.8	26.2	19.4	18.9	16.1	10.6	11.8	15.7	18.4	27.0	39.6	52.6	64.3	71.8	48.8	89.9	10.6	
20	76.6	82.2	83.0	85.9	88.0	88.3	77.5	64.2	47.7	36.5	31.6	26.8	26.7	26.7	24.6	19.9	20.1	20.3	21.7	26.3	46.7	53.6	65.0	71.6	50.5	88.3	19.9	
21	71.1	74.5	78.7	84.1	87.0	86.9	75.4	62.0	40.6	28.9	27.6	26.8	24.7	23.1	22.6	21.0	16.9	15.2	16.8	30.3	35.8	49.1	65.2	56.6	46.7	87.0	15.2	
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
31	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	79.6	82.8	85.5	87.4	89.1	87.7	79.1	68.6	54.7	45.3	40.8	37.2	35.2	33.5	31.5	29.5	30.9	35.1	40.6	47.8	58.4	65.0	71.5	75.1	58.0	89.6	27.6	
Max	94.8	96.6	96.8	96.8	97.2	97.1	95.8	90.8	76.9	65.6	58.5	52.1	62.4	75.6	64.5	49.6	52.3	63.7	78.0	88.9	89.5	94.1	94.7	94.5	73.4	97.2	41.5	
Min	41.4	54.4	62.8	63.2	61.1	62.9	56.2	58.1	40.6	28.9	23.7	19.5	19.4	18.4	16.1	10.6	11.8	15.2	16.8	26.3	30.9	30.9	32.1	38.2	46.7	63.8	10.6	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (RH)
August 2013

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	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw				
2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
3	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
4	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
5	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
6	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
7	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
8	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
9	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
10	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
11	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
12	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
13	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
14	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
15	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
16	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
17	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
18	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
19	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
20	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
21	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
22	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
23	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
24	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
25	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
26	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
27	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
28	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw			
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	23.4	21.5	21.4	23.4	34.4	45.4	56.1	60.4	65.0	70.7	42.2	70.7	21.4
30	79.6	84.3	87.8	89.7	90.9	92.2	91.3	79.0	55.6	41.3	34.7	30.9	28.3	23.8	25.1	21.4	21.4	23.4	30.0	38.7	48.3	54.4	64.2	70.6	54.5	92.2	21.4	
31	73.6	78.6	83.1	84.9	86.8	90.3	86.6	73.9	53.4	37.5	31.6	24.7	20.5	19.3	20.5	21.6	21.1	21.3	24.9	41.3	47.2	53.4	61.1	57.8	50.6	90.3	19.3	
Avg	76.6	81.4	85.4	87.3	88.8	91.3	88.9	76.5	54.5	39.4	33.2	27.8	24.4	21.6	23.0	21.5	21.3	22.7	29.8	41.8	50.5	56.1	63.4	66.4	50.8	84.4	20.7	
Max	79.6	84.3	87.8	89.7	90.9	92.2	91.3	79.0	55.6	41.3	34.7	30.9	28.3	23.8	25.1	21.6	21.4	23.4	34.4	45.4	56.1	60.4	65.0	70.7	54.5	92.2	21.4	
Min	73.6	78.6	83.1	84.9	86.8	90.3	86.6	73.9	53.4	37.5	31.6	24.7	20.5	19.3	20.5	21.4	21.1	21.3	24.9	38.7	47.2	53.4	61.1	57.8	42.2	70.7	19.3	

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Relative Humidity (RH)
September 2013

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	53.2	53.0	51.8	59.8	72.4	76.0	77.4	63.3	42.4	33.1	28.7	25.6	22.8	20.6	17.4	14.3	16.0	16.4	22.1	38.4	45.9	49.5	54.2	60.1	42.3	77.4	14.3	
2	64.1	68.9	69.9	75.6	75.6	74.2	75.4	59.4	39.4	25.0	19.8	19.0	19.8	19.2	18.8	23.1	21.6	25.6	33.9	34.1	44.2	52.6	58.6	63.6	45.1	75.6	18.8	
3	69.7	74.4	79.7	82.2	85.7	86.8	84.4	69.8	50.6	35.8	30.7	28.3	26.9	25.7	25.4	27.6	29.1	30.2	32.6	35.8	35.6	42.1	49.1	51.2	49.6	86.8	25.4	
4	57.6	62.4	66.7	71.9	74.6	82.1	86.9	77.6	59.4	45.2	42.3	40.1	36.3	35.9	33.8	32.3	29.8	35.8	38.8	53.9	58.6	66.6	72.1	79.9	55.9	86.9	29.8	
5	82.5	86.4	88.6	88.2	89.7	91.0	87.8	70.4	53.2	37.4	34.2	32.5	33.5	36.9	34.9	38.8	36.7	35.8	44.9	57.9	65.4	73.7	77.5	85.0	61.0	91.0	32.5	
6	82.7	87.1	92.3	95.1	94.9	96.5	93.4	92.8	81.2	63.9	45.1	34.2	32.9	31.5	28.7	36.0	35.6	72.1	81.8	78.9	64.5	66.3	69.7	74.2	68.0	96.5	28.7	
7	82.1	87.7	90.8	92.5	92.8	94.2	95.9	93.8	91.8	78.8	66.8	60.4	51.1	44.7	41.6	38.4	45.6	64.5	86.3	89.3	87.0	90.1	87.1	91.9	76.9	95.9	38.4	
8	92.2	95.2	95.7	96.0	96.2	96.5	96.4	95.4	90.1	70.7	64.3	52.7	37.5	41.5	70.9	74.1	70.3	62.4	61.3	56.9	65.7	80.4	86.0	88.2	76.5	96.5	37.5	
9	89.8	93.2	93.9	93.9	91.8	82.9	82.6	79.0	72.3	68.1	67.0	64.9	62.7	73.9	69.1	59.4	58.9	58.2	67.3	81.1	87.5	88.5	92.2	92.9	78.0	93.9	58.2	
10	94.6	95.1	95.3	94.8	95.2	95.4	95.2	90.8	72.9	54.7	43.9	36.1	34.2	31.8	30.8	28.1	28.5	30.7	48.2	61.6	70.5	75.0	81.7	80.8	65.2	95.4	28.1	
11	84.4	84.6	89.5	90.9	92.1	93.0	90.6	78.6	64.3	41.8	36.2	34.1	32.6	31.8	31.8	32.3	31.9	36.5	45.4	55.2	57.3	63.1	66.3	69.2	59.7	93.0	31.8	
12	66.4	71.5	64.7	67.8	68.9	72.1	74.9	60.4	51.4	48.3	44.5	41.3	38.1	39.9	36.4	36.5	36.4	37.6	44.0	48.6	43.4	50.5	51.7	54.2	52.1	74.9	36.4	
13	61.7	76.7	80.6	86.0	91.0	90.3	88.1	84.3	68.2	49.6	44.5	39.2	37.6	36.1	36.6	38.5	39.6	39.8	48.5	59.4	67.5	73.1	78.9	81.9	62.4	91.0	36.1	
14	83.4	83.2	85.7	86.3	85.5	83.1	81.1	75.3	73.1	62.1	52.4	50.4	51.8	52.6	51.7	52.5	54.3	58.5	63.6	66.1	68.4	72.9	76.2	78.4	68.7	86.3	50.4	
15	75.3	74.3	75.5	78.3	78.3	82.2	81.4	67.6	60.1	58.3	60.8	61.4	59.3	56.6	56.4	58.4	61.7	64.1	68.9	72.3	71.6	73.7	74.3	78.6	68.7	82.2	56.4	
16	82.6	87.5	89.2	91.8	94.2	95.3	95.5	89.1	65.2	52.4	45.7	39.5	35.9	36.2	38.7	52.1	44.1	38.6	44.9	57.8	64.9	75.7	79.1	81.4	65.7	95.5	35.9	
17	82.8	88.7	91.4	92.3	92.7	94.3	94.4	92.0	87.8	81.8	79.1	75.2	75.2	81.5	70.8	83.7	88.3	86.5	91.7	88.7	85.4	91.2	92.2	88.8	86.5	94.4	70.8	
18	90.4	94.3	94.1	94.8	95.7	95.8	95.6	93.4	88.9	85.3	80.1	77.0	71.8	64.1	59.8	56.8	56.2	63.4	79.9	82.3	82.1	84.4	87.4	87.9	81.7	95.8	56.2	
19	89.1	90.6	91.3	89.8	89.4	89.1	89.6	86.9	83.9	77.9	68.9	61.5	53.8	51.5	47.8	45.9	44.1	42.9	67.0	80.5	85.3	88.3	91.7	92.3	75.0	92.3	42.9	
20	93.1	93.4	92.2	93.0	92.9	93.0	91.2	86.7	69.2	45.1	38.2	34.8	30.7	25.0	22.1	21.4	20.1	24.4	43.6	61.4	72.5	78.3	80.4	83.4	61.9	93.4	20.1	
21	85.9	87.3	81.7	82.5	80.2	77.4	73.8	72.3	52.7	38.1	26.1	26.1	25.1	24.7	22.7	22.4	25.0	34.2	35.7	41.2	48.6	57.9	63.8	67.5	52.2	87.3	22.4	
22	72.3	74.5	78.7	82.7	75.3	80.4	77.2	73.3	63.5	47.6	37.8	37.3	35.8	34.9	36.1	42.6	52.0	70.7	83.4	89.3	90.0	92.9	80.8	82.4	66.3	92.9	34.9	
23	86.2	88.1	90.8	91.2	91.0	86.8	74.8	67.3	64.9	57.4	57.7	47.9	45.3	46.0	43.3	41.5	39.4	39.3	42.0	50.2	49.1	53.8	58.7	68.7	61.7	91.2	39.3	
24	71.3	73.5	80.2	84.4	84.0	87.6	89.5	77.9	73.9	65.6	Au	Au	Au	Au	88.7	89.8	86.6	91.1	91.0	90.4	92.1	91.5	92.6	92.5	84.7	92.6	65.6	
25	93.2	94.2	94.3	94.3	95.1	94.6	95.1	95.8	96.0	91.2	77.3	76.4	80.0	77.3	71.3	71.4	78.4	80.4	82.0	82.8	85.3	87.3	88.6	88.2	86.3	96.0	71.3	
26	91.9	94.6	88.8	83.2	83.5	81.5	82.8	83.6	74.7	75.0	70.4	66.8	67.8	65.5	63.9	66.9	70.6	71.5	75.0	83.8	85.5	88.5	89.9	90.3	79.0	94.6	63.9	
27	90.8	91.2	90.8	91.5	90.1	90.5	89.8	86.3	77.2	70.2	67.1	64.2	60.9	59.3	58.0	60.0	61.0	59.4	59.7	61.5	63.7	74.2	75.5	77.1	73.8	91.5	58.0	
28	74.7	72.8	75.1	72.1	73.9	76.9	77.8	69.0	65.0	64.6	62.9	59.0	57.5	56.2	55.8	55.2	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	66.8	77.8	55.2	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw
Avg	80.1	83.0	84.3	85.8	86.5	87.1	86.4	79.7	69.0	58.0	51.6	47.6	45.1	44.5	45.1	46.4	46.7	50.8	58.6	65.2	68.1	73.4	76.2	78.9	66.7	90.0	41.4	
Max	94.6	95.2	95.7	96.0	96.2	96.5	96.4	95.8	96.0	91.2	80.1	77.0	80.0	81.5	88.7	89.8	88.3	91.1	91.7	90.4	92.1	92.9	92.6	91.2	86.5	96.5	71.3	
Min	53.2	53.0	51.8	59.8	68.9	72.1	73.8	59.4	39.4	25.0	19.8	19.0	19.8	19.2	17.4	14.3	16.0	16.4	22.1	34.1	35.6	42.1	49.1	51.2	42.3	74.9	14.3	

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Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
July 2013

Day	<< Hour >>																								Tot	Max	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tot																											
Max																											

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
August 2013

Day	<< Hour >>																								Tot	Max	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
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12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
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14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
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19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
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21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tot																											
Max																											

Tintina Resources, Inc.
Black Butte Copper Project Met Tower Air Monitoring Summary
Precipitation (Inches)
September 2013

Day	<< Hour >>																								Tot	Max	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
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3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Ma	Au	Au	Au	0.020	0.100	0.030	0.060	0.010	0.000	0.000	0.000	0.000	0.000	0.220	0.100
18	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.130	0.070	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.310	0.130	
19	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.010	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.010	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.030	0.060	0.020	0.040	0.020	0.010	0.050	0.120	0.000	0.000	0.000	0.000	0.370	0.120	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.010	0.000	0.010	0.010	0.010	0.010	0.030	0.100	0.030	0.100	0.030
26	0.010	0.010	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.010	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	0.000	0.000	
29	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
30	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw	Pw		
Tot	0.020	0.020	0.000	0.010	0.000	0.000	0.100	0.140	0.070	0.010	0.000	0.030	0.050	0.060	0.020	0.060	0.130	0.040	0.130	0.150	0.000	0.010	0.010	0.030	1.090	0.000	
Max	0.010	0.010	0.000	0.010	0.000	0.000	0.100	0.130	0.070	0.010	0.000	0.020	0.030	0.060	0.020	0.040	0.100	0.030	0.060	0.120	0.000	0.010	0.010	0.030	0.370	0.130	

A-30

APPENDIX B: PERFORMANCE AUDIT REPORTS
THIRD QUARTER 2013



Bison Engineering

Preliminary Meteorological Parameters Audit Form

Audit Dates: 9/17/2013 Audit Start Time : 12:30 MST Audit End Time : 15:30 MST
 9/24/2013 Audit Start Time : 10:20 MST Audit End Time : 14:30 MST
 Client: Tintina Resources
 Site: Black Butte
 AUDITOR: Steve Heck STATION OPERATOR: Jeff Bell

Temperature (Performed 9/17/2013)

Audit Device
 Control Company - digital thermometer Model 4000
 Serial Number : 91255639
 Last certified: 11/20/2012 No adjustments made but replaced both aspirator fans (were working)

Temperature bath results

Audit Value	9m		2m		9m - 2m
	DAS Value	DAS Diff.	DAS Value	DAS Diff.	DAS Diff.
0.1	0.27	0.17	0.27	0.17	0.00
16.1	16.00	-0.10	16.00	-0.10	0.00
34.9	35.00	0.10	35.02	0.12	-0.02

Wind Direction (Alignment checked 9/17/2013)
 (Linearity checked 9/24/2013)

Sensor height: 9 Meter	Sensor (Make/model number): Climatronics/ WMIII	Serial Number : 1872	Crossarm orientation (from Garmin GPS): 1.5 / 181.5	GPS location at sensor: N 46 deg 46.374 min, W 110 deg 52.886 min	GPS location at sighting point: N 46 deg 46.347 min, W 110 deg 52.887 min	Sensor response aligned with crossarm (as found): 178.0	Sensor response aligned with crossarm (as left): 181.5	Linearity Audit Device: Climatronics 101966, SN 70	<u>Linearity Check from DAS (as found)</u>				
									Setpoint	Clockwise	Counter-CW	Diff CW	Diff CCW
									0	0.2	0.2	0.2	0.2
									30	28.5	28.0	-1.5	-2.0
									60	57.9	57.5	-2.1	-2.5
									90	87.3	86.8	-2.7	-3.2
									120	117.1	116.6	-2.9	-3.4
									150	146.9	146.4	-3.1	-3.6
									180	177.0	176.7	-3.0	-3.3
									210	207.2	206.8	-2.8	-3.2
									240	237.2	236.8	-2.8	-3.2
									270	267.5	267.2	-2.5	-2.8
									300	298.2	297.8	-1.8	-2.2
									330	328.5	328.2	-1.5	-1.8
											Max Diff	-3.1	-3.6

Threshold Torque: 0.05 oz.-in.
 (Waters Model 366-1 torque watch)

Setpoint	Clockwise	<u>Linearity Check from DAS (as left)</u>		
		Counter-CW	Diff CW	Diff CCW
0	0.9	1.1	0.9	1.1
30	31.5	31.0	1.5	1.0
60	60.8	60.5	0.8	0.5
90	90.3	89.8	0.3	-0.2
120	120.2	119.8	0.2	-0.2
150	150.0	149.5	0.0	-0.5
180	180.1	179.7	0.1	-0.3
210	210.4	209.9	0.4	-0.1
240	240.3	239.8	0.3	-0.2
270	270.6	270.1	0.6	0.1
300	301.2	300.8	1.2	0.8
330	331.5	331.2	1.5	1.2
		Max Diff	1.5	1.2

Wind Speed (Performed 9/24/2013)

Sensor height: 9 Meter
Sensor (Make/model number): Climatronics/ WMIII
Serial Number : 1872
Calibration device: Weathertronics 300 rpm synchronous motor
Weathertronics 600 rpm synchronous motor

Synchronous motor checks

Threshold Torque: <0.003 oz.-in.
(Waters Model 366-3 torque watch)

Known Value	Known Value	DAS Value	DAS Diff.
RPM	m/s	m/s	m/s
0	0.22	0.22	0.00
300	6.66	6.71	0.05
600	13.09	13.35	0.26

Relative Humidity (Performed 9/17/2013)

Audit Device: Assmann Psychrometer, thermometer calibrations checked 9/15/2013

Audit Dry-Bulb: 13.0 deg C BP = 24.25 in. Hg
Audit Wet-Bulb: 10.3 deg C
Audit RH: 74.0 %RH
Station RH: 73.7 %RH
Diff: -0.3 %RH

Barometric Pressure (Performed 9/17/2013)

Audit Device: Wallace & Tiernan Model FA185260, S/N LL03297.
Checked against Bison Mercury barometer (Butte) on 09/15/2013

Audit Value: 24.25 in Hg
Station Value: 24.31 in Hg
Diff: 0.06 in Hg

Solar Radiation (Performed 9/17/2013)

Audit Device: Eppley Pyranometer, SN 16166F3 (certified by Eppley August 2013)

Audit Value: 853 watts/m²
Station Value: 824 watts/m²
Diff.: -3.4%

Precipitation (Performed 9/17/2013)

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

Tipping bucket had fallen out of its holder so gauge was not functional.
Repaired gauge and conducted audit as shown below.

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

Unit registered 66 tips
% difference from expected = -1.7%

Signature Site Operator :

Signature Auditor : 