

Appendix I

Air Quality and Meteorology Studies

Air Quality and Meteorology Baseline Report

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**REPORT ON THE
AIR QUALITY AND METEOROLOGY
OF THE PROPOSED
KENNECOTT MINERALS COMPANY
EAGLE PROJECT**

Submitted to:

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
DAS	data acquisition system
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ft	foot
Golder	Golder Associates Inc.
KMC	Kennecott Minerals Company
MDEQ	Michigan Department of Environmental Quality
mg/m ³	milligrams per cubic meter
m/s	meters per second
mm	millimeter
µg	microgram
µg/m ³	micrograms per cubic meter
NAAQS	National Ambient Air Quality Standards
NOAA	National Oceanographic and Atmospheric Administration
NWS	National Weather Service
O&M	Operation and Maintenance
PM ₁₀	particulate matter with aerodynamic particle size of 10 µm or less
PSD	Prevention of Significant Deterioration
QA	quality assurance
SOP	Standard Operating Procedure

1.0 INTRODUCTION

In December 2003, Kennecott Minerals Company ("KMC"), retained Golder Associates Inc. ("Golder") to conduct an Environmental Baseline Study (EBS) of a proposed nickel-copper mining site (Eagle Project) within the Yellow Dog Plain, Michigamme Township, located in northwestern Marquette County, Michigan. Figure 1 shows the general location of the KMC Eagle Project. In conjunction with the EBS, Golder initiated the installation and operations of a solar-powered air quality and meteorological monitoring station to measure and archive baseline ambient air quality and meteorological data. This report presents methods and results for data collected from June 2004 through May 2005. Figure 2 identifies the location of the air/met monitoring station relative to the proposed mining facility and ore body.

1.1 Background

The overall scope of the 2004-2005 air/met program was to document the temporal occurrences of particulate matter (PM) with aerodynamic size of 10 micrometers (μm) or less (PM_{10}) as well as selected meteorological parameters. The meteorological parameters include wind speed, wind direction, temperature, relative humidity, solar radiation, and precipitation (rainfall and snowfall) in the project area (Appendices A through L). The overall Scope of Work (SOW) was provided by Golder in the work plan (Golder, 2003)

The purpose of the EBS is to collect data for use in:

- Support of future feasibility studies by KMC;
- Characterize environmental elements relevant to baseline/environmental impact statement (EIS) programs; and
- Permitting under programs such as the Title V Air Quality program.

The EBS was prepared in advance of a defined project concept and regulatory/public input. Consequently, other data outside the scope of these studies may be required in the future to address project specific issues.

1.2 Objectives

Two of the principal objectives of the EBS are to collect data for use in support of future mine feasibility studies by KMC, and to characterize environmental elements relevant to baseline

environmental conditions in support of permitting activities. The specific objectives of the air/met monitoring includes the following:

- To develop a regional baseline air quality and meteorological database to identify the quality of the existing physical environment in the vicinity of future mining activities; and
- For use in an Environmental Impact Study (EIS), if needed, to support future State and federal permits for future project activities.

2.0 SCOPE AND METHODS OF INVESTIGATION

Golder initiated a comprehensive field effort to establish the ambient air quality and meteorological conditions in the vicinity of the Eagle project in support of the project's environmental baseline study and permitting activities. Golder has utilized accepted U.S. Environmental Protection Agency (EPA) sampling and analysis methodologies and techniques to collect the baseline data.

Regional meteorological data are available from National Oceanographic and Atmospheric Administration's (NOAA) National Weather Service (NWS) edited data collected at the Marquette County Airport (MQT). Both monthly and annual summaries are available to the public through the NWS' National Climatic Data Center (NCDC) website <http://www.ncdc.noaa.gov/oa/ncdc.html>.

Additionally, a comprehensive Quality Assurance (QA) program has been developed specifically for the project which includes an independent performance audit program and an Operations and Maintenance Manual.

2.1 Literature Review

There are several regulatory and non-regulatory requirements for collecting baseline air quality and meteorological data, as discussed in the initial 2003 work plan (Golder, 2003). These regulations have been enacted to control discharges of regulated pollutants into the atmosphere to meet air quality standards for specified designated sources. Included in both federal and state air quality regulations are well defined sources and categories that require review and permitting. These include:

- Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) which includes rules and regulations regarding ambient air quality standards, air permit requirements, and air emission limitations. The Michigan Air Pollution Control Rules have been adopted pursuant to Public Act 451 (http://www.michigan.gov/deq/0,1607,7-135-3310_4108-10430--,00.html).
- Michigan Department of Environmental Quality (MDEQ) Title V Air Permits. This information provides data on air emissions for facilities that are required to have an operating permit under the Title V air regulations (<http://www.deq.state.mi.us/aps>).
- Air monitoring data are compiled by the EPA on their website (<http://www.epa.gov/air/data>) for pollutants for which ambient air quality standards have been developed [i.e., PM, PM₁₀, sulfur dioxide (SO₂), carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), and lead (Pb)]. These data supplement those data supplied by MDEQ. In some instances, although data are

available through 2002, they are not complete and do not report data from all available monitoring stations.

- Air emissions data are also compiled by the EPA on their website for pollutants emitted by facilities that are generally reported to state agencies. Emission data are available through 1999 for PM₁₀, SO₂, CO, nitrogen oxides (NO_x), volatile organic compounds (VOCs) as a precursor to O₃, and Pb.

The current National Ambient Air Quality Standards are summarized by pollutant on Table 1.

Only the respirable particulates less than 10 micrometers (µm) in diameter (i.e., PM₁₀) are being monitored for this baseline study. The selection of PM₁₀ is based on the expectation that the project will not emit any significant quantities of the other criteria pollutants. MQT station pressure was used to calculate the standard temperature and pressure corrections for the collected PM₁₀ concentrations.

2.2 Quality Control

The previously submitted Operation and Maintenance (O&M) Manual was submitted to KMC in August 2004 (Golder, 2004) to reflect the newly installed air/met monitoring equipment. The O&M Manual provided site-specific maintenance, calibration, sampling, and data downloading procedures.

As part of the work plan for environmental baseline study data collection, Golder performed biannual audits on the equipment at the air quality and meteorological monitoring station. Performing an audit is vital to assure that the QA criteria for air and meteorological monitoring stations are being met. The audits are performed by Golder staff not responsible for the day-to-day operations and maintenance of the monitoring equipment or network. The audit is used to assess the precision and accuracy of the data measured and recorded by the total measurement system (sample collection, sample analysis, and data processing). The total measurement system was validated and qualified by the performance audits. The audits were performed in November 2004 and May 2005. The results of the audits are provided in Appendices M and N. The air quality equipment that was included in this audit was the Met One Inc. Model BAM 1020 Continuous PM₁₀ Particulate Monitor. The R.M. Young Inc. meteorological parameters included in the audit were wind direction, wind speed, temperature, precipitation, and solar radiation. The results of the audit indicate that the air quality and meteorological data collected by the project's monitoring station are valid.

Table 1. NAAQS for Criteria Pollutants

Pollutant	Primary (Health Related)^a		Secondary (Welfare Related)^a	
	Type of Average	Standard Level Concentration	Type of Average	Standard Level Concentration
CO	8-hour ^b	9 ppm (10 mg/m ³)	No secondary standard	
	1-hour ^b	35 ppm (40 mg/m ³)	No secondary standard	
Pb	Maximum Quarterly Average	1.5 µg/m ³	Same as Primary Standard	
NO ₂	Annual Arithmetic Mean	0.053 ppm (100 µg/m ³)	Same as Primary Standard	
O ₂	Maximum Daily 1-hour Average ^c	0.12 ppm (235 µg/m ³)	Same as Primary Standard	
	4 th Highest 8-hour Daily Maximum ^d	0.08 ppm (157 µg/m ³)	Same as Primary Standard	
PM ₁₀	Annual Arithmetic Mean ^e	50 µg/m ³	Same as Primary Standard	
	24-hour ^e	150 µg/m ³	Same as Primary Standard	
PM _{2.5}	Annual Arithmetic Mean ^f	15 µg/m ³	Same as Primary Standard	
	98 th Percentile 24-hour ^f	65 µg/m ³	Same as Primary Standard	
SO ₂	Annual Arithmetic Mean	80 µg/m ³ (0.03 ppm)	3-hour ^b	1,300 µg/m ³ (0.50 ppm)
	24-hour ^b	365 µg/m ³ (0.14 ppm)		

Note: mg/m³ = milligrams per cubic meter.
 ppm = parts per million.
 µg/m³ = micrograms per cubic meter.

^a Parenthetical value is an approximate equivalent concentration.

^b Not to be exceeded more than once per year.

^c The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is equal to or less than one, as determined according to Appendix H of the Ozone NAAQS.

^d The 8-hour standard is met when the three-year average of the annual fourth highest daily maximum. 8-hour O₂ concentration is less than or equal to 0.08 ppm.

^e The annual PM₁₀ standard is attained when the expected annual arithmetic mean concentration is less than or equal to 50 (3-year average); the 24-hour standard is attained when the expected number of days above 150 µg/m³ is equal or less than one per year.

^f The annual PM_{2.5} standard is met when annual average of the quarterly mean PM_{2.5} concentrations is less than or equal to 15 µg/m³, when averaged over three years. If spatial averaging is used, the annual averages from all monitors within the area may be averaged in the calculation of the three-year mean. The 24-hour standard is met when the 98th percentile value, averaged over three years, is less than or equal to 65 µg/m³.

Source: Michigan DEQ 2001 Annual Report.

Ongoing training has been provided to KMC staff by Golder since the initial installation and operation of the monitoring station in March 2004. Training included operations and maintenance of the monitoring equipment and data downloading, collection, validation, and processing.

3.0 RESULTS

3.1 Introduction

The PM₁₀ monitor that has been installed at the project's air/met station is a truly continuous-reporting beta attenuation monitor (BAM) that analyzes and records hourly PM₁₀ concentrations. This sampling method provides a continuous output of particle concentration. The meteorological sensors on the 33-foot (10-meter) tower are used to gather horizontal wind speed/direction, relative humidity, ambient temperature, solar radiation, and relative humidity data. Precipitation and snowfall is measured gravimetrically with a universal precipitation gauge. All of the equipment is powered by a 16-panel solar array and deep-cycle storage battery system that enable continuous 24-hour operations.

3.2 Air Quality Data

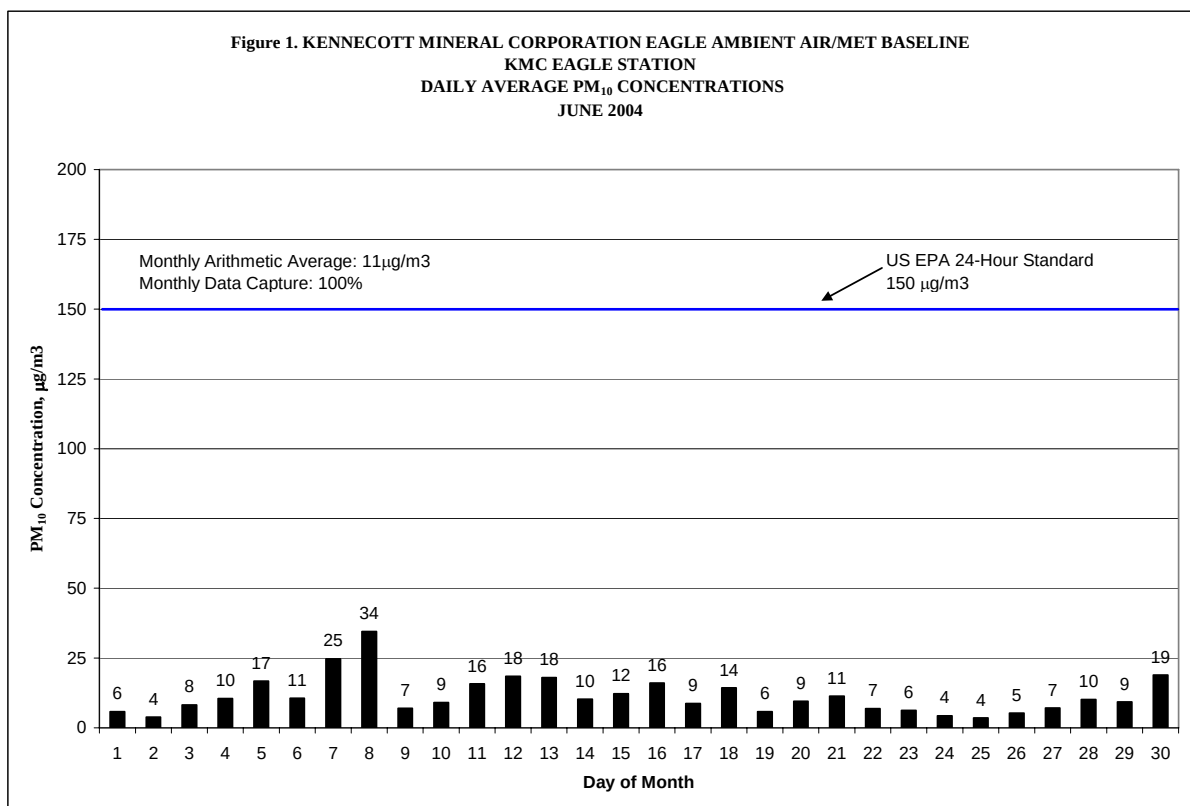
The PM₁₀ monitoring data has been collected at the Eagle Project site on a continuous hourly basis since March 2004. For this report, the June 2004 through May 2005 data are provided. None of the PM₁₀ data exceeded the EPA or MDEQ 24-hour standards. These data show the seasonal nature of the PM collected such as precipitation, local recreational, and silvi-cultural activities as well as biological contaminants (pollen, etc.). As expected, the daily PM₁₀ values are generally lower during the winter months when snowfall reduces the airborne and fugitive particulate material in remote, uninhabited rural areas.

Summaries of the PM₁₀ data collected at the Eagle Project monitoring station for the months of June 2004 through May 2005 are included in Appendices A through L, respectively. Subsections 3.2.1 through 3.2.12 (Figure 1 from the monthly summary reports found in the Appendices), provide charts of the average daily PM₁₀ concentration formulated from the hourly concentrations, monthly average, and the percent data capture for that month. Note that none of the values exceed, nor come close to, the daily (24-hour) EPA ambient air quality PM₁₀ standard of 150µg/m³. The MDEQ daily standard is the same as EPA.

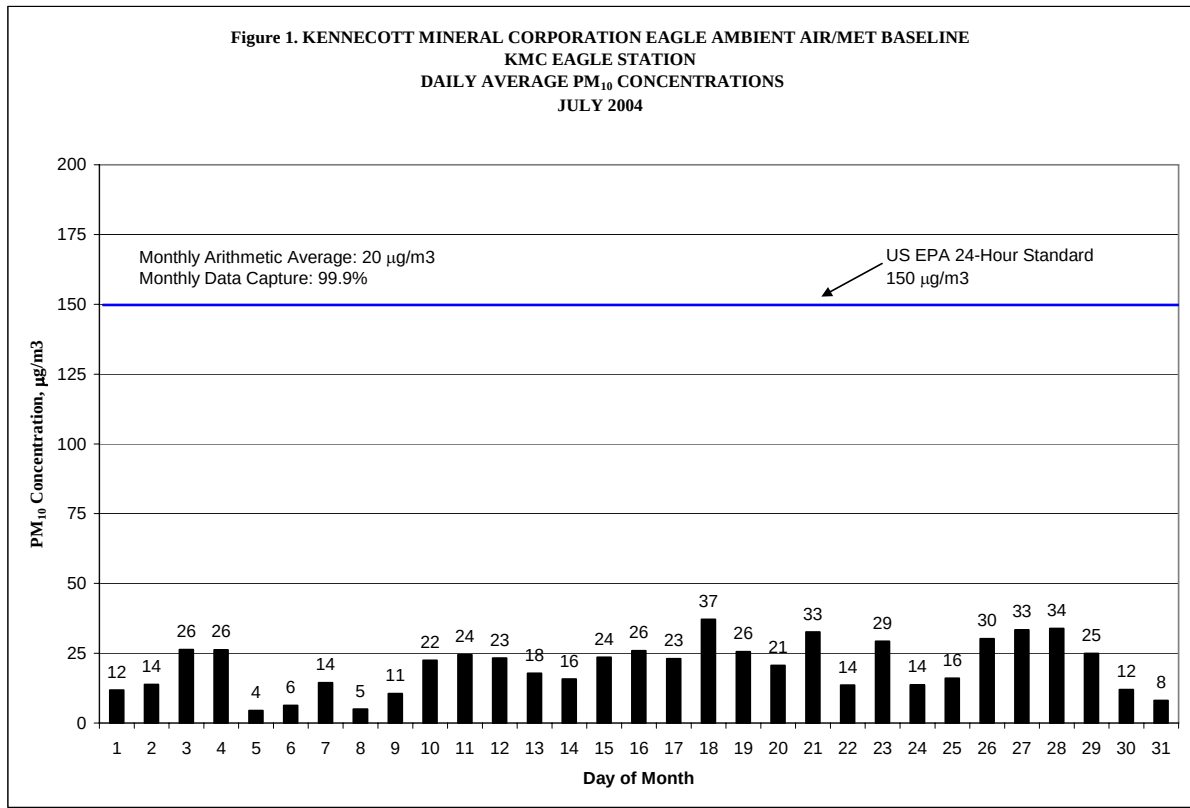
The maximum daily (24-hour) PM₁₀ concentration for the period of record was 57 µg/m³ on September 5, 2004, with the second highest daily (24-hour) concentration of 51 µg/m³ on September 4, 2004.

One key component of QA data assessment is the amount of valid data collected during the sampling period, which is defined as data capture. Data capture above 75 percent (or 45 minutes of valid data per hour, 18 hours of data per day, etc.) is acceptable. The data capture exceeded 90 percent for all months except November 2004 (when the glass fiber filter tape broke and no data was collected from November 13 through 18) and April 2005 (when the sample pump of the BAM1020 malfunctioned from April 1 through 14). The data capture for November is still above the QA criteria of 75 percent. However, the monthly data capture for April 2005 was 55 percent. Once the faulty sample pump was replaced, the unit operated properly.

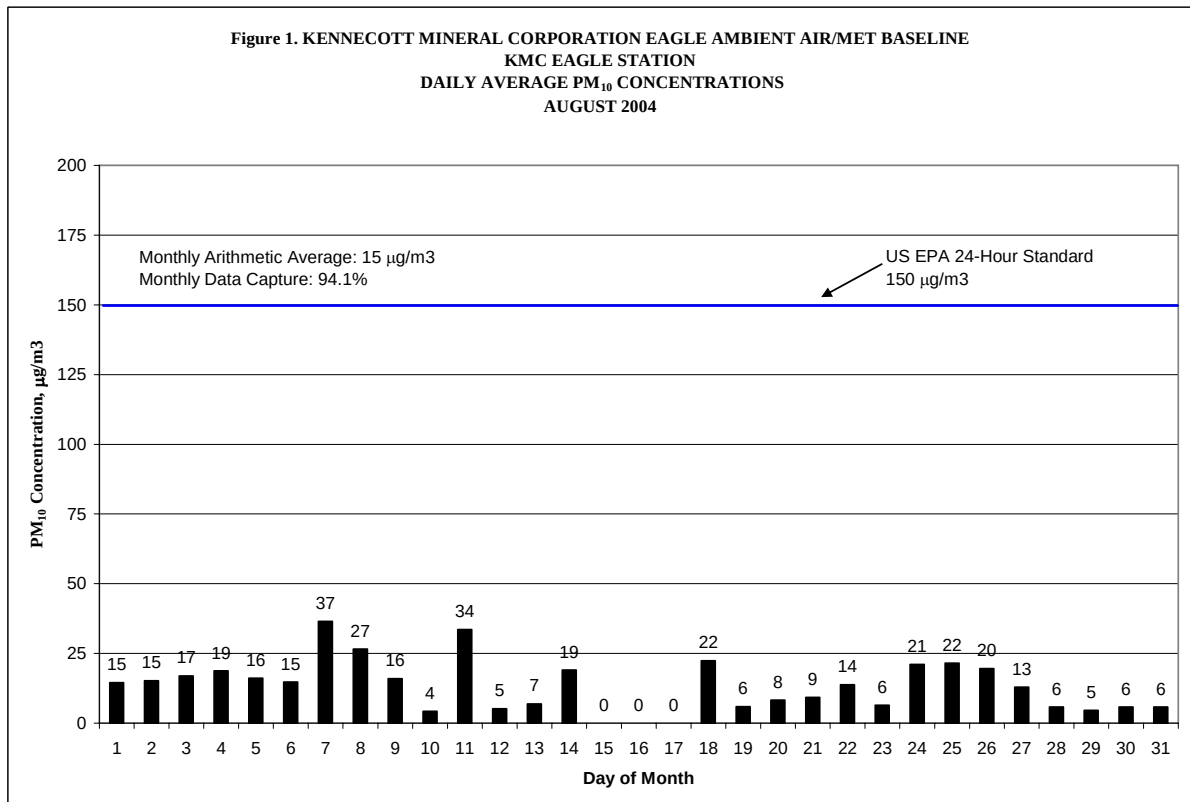
3.2.1 June 2004 PM₁₀ Summary



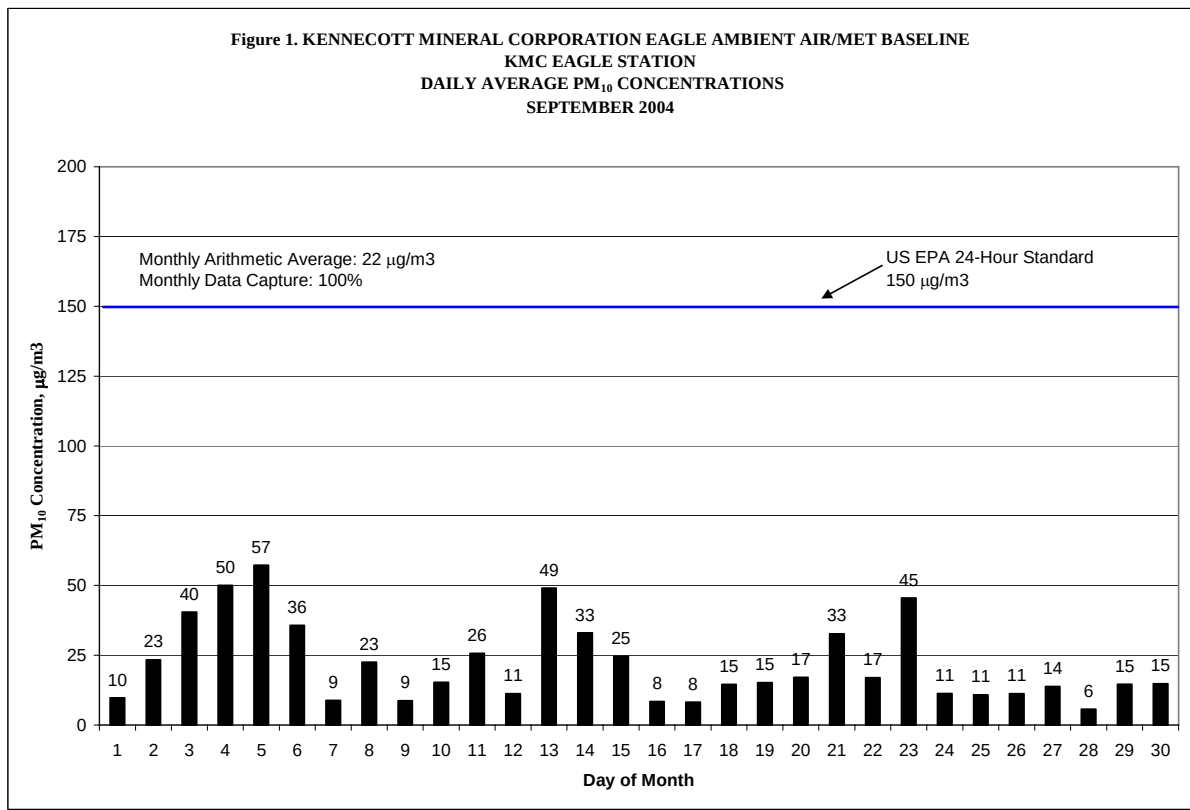
3.2.2 July 2004 PM₁₀ Summary



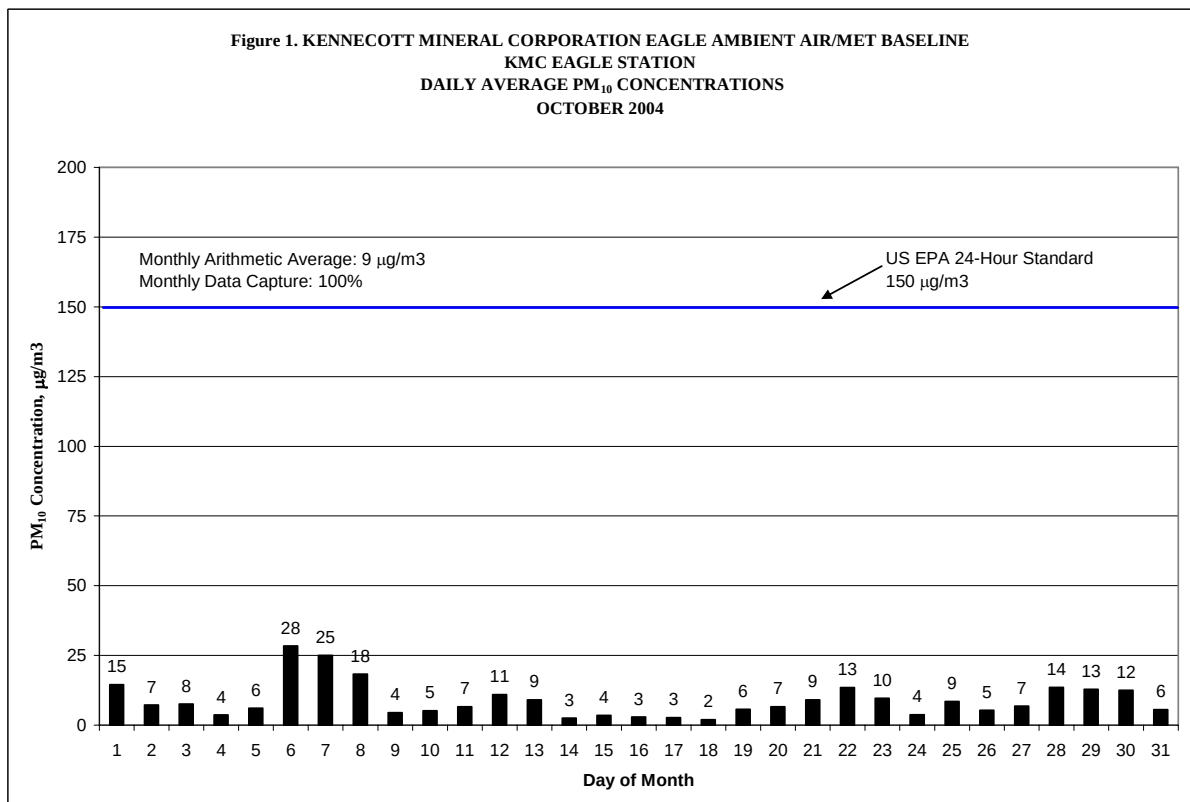
3.2.3 August 2004 PM₁₀ Summary



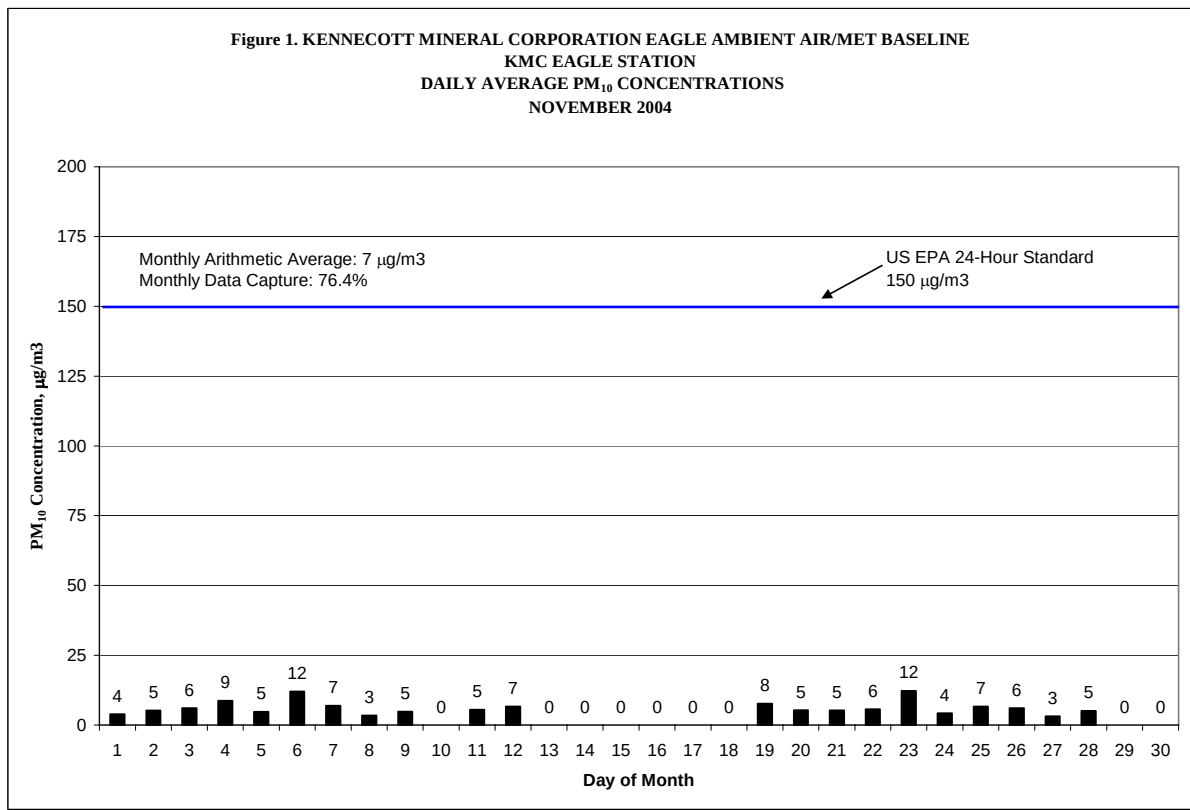
3.2.4 September 2004 PM₁₀ Summary



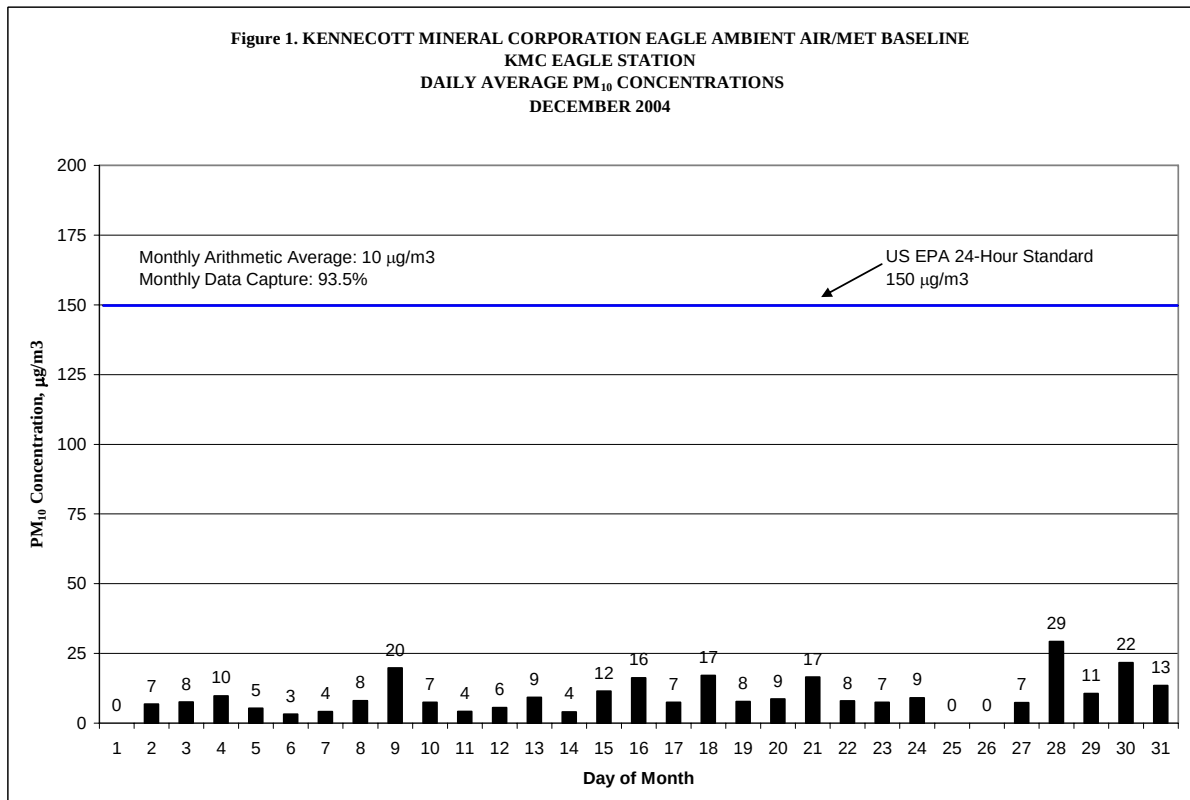
3.2.5 October 2004 PM₁₀ Summary



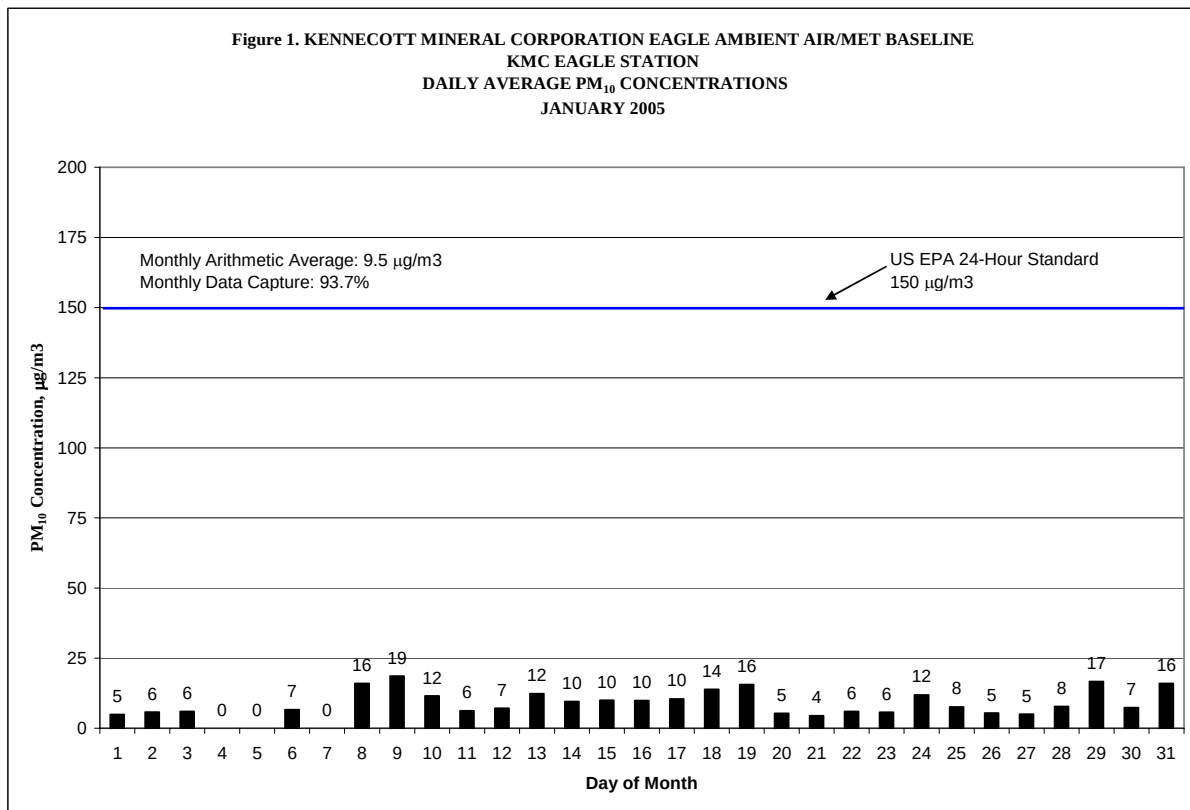
3.2.6 November 2004 PM₁₀ Summary



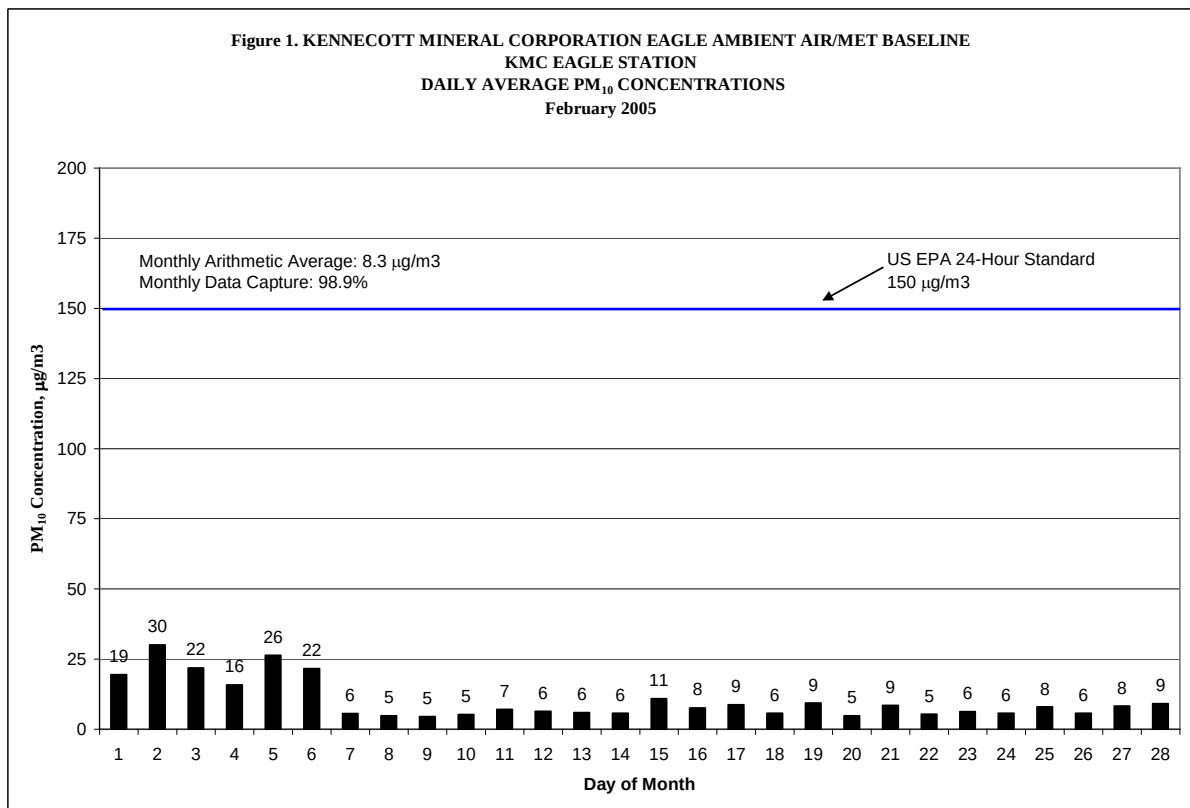
3.2.7 December 2004 PM₁₀ Summary



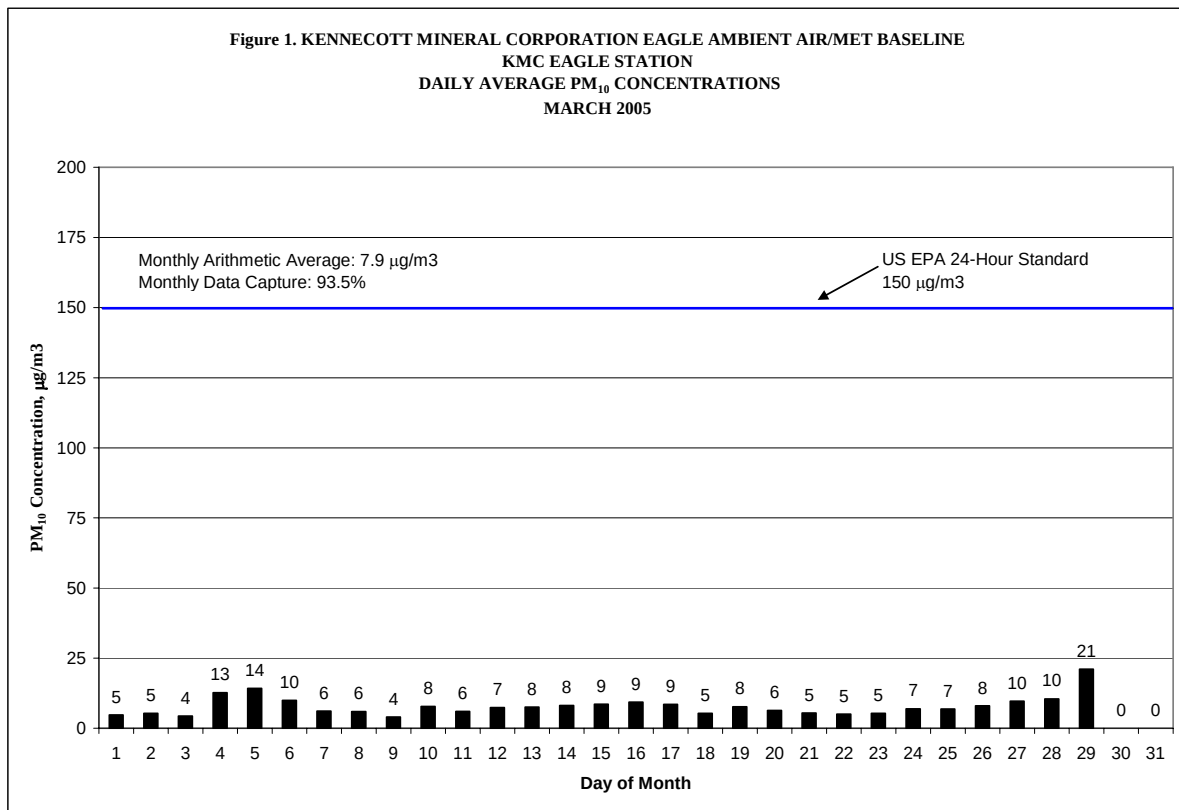
3.2.8 January 2005 PM₁₀ Summary



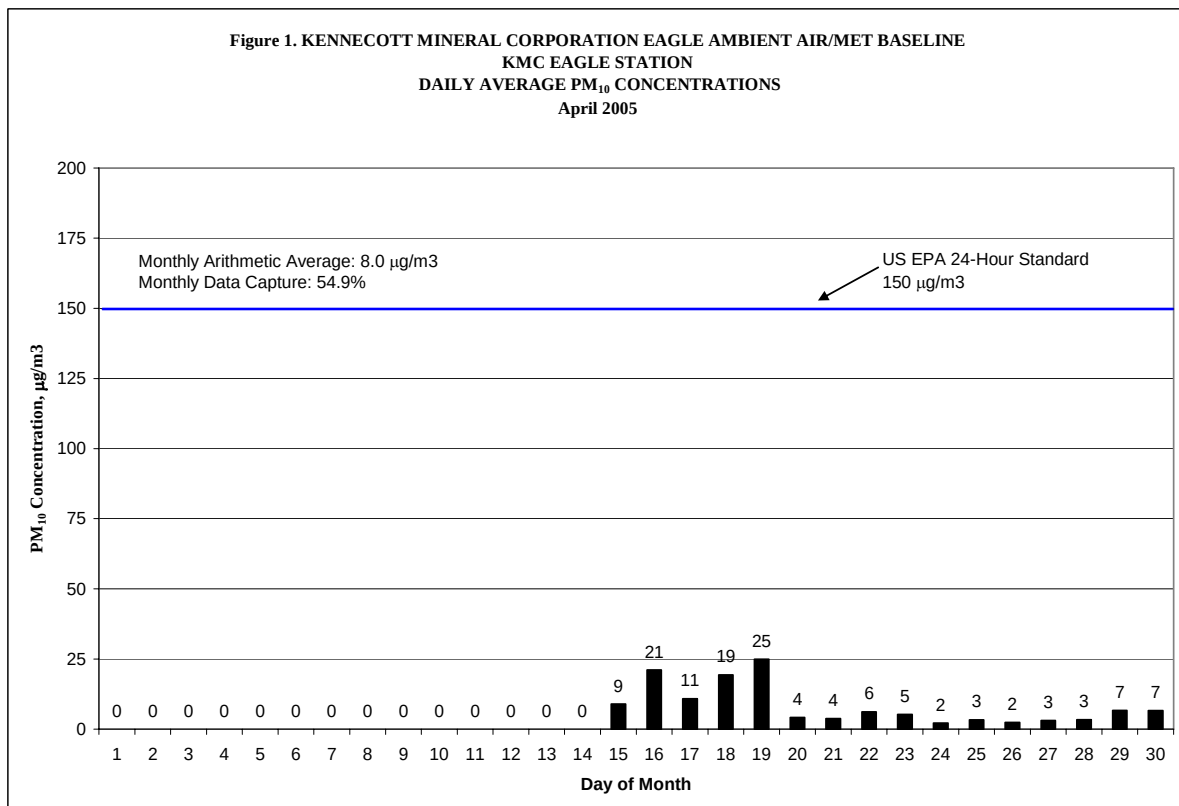
3.2.9 February 2005 PM₁₀ Summary



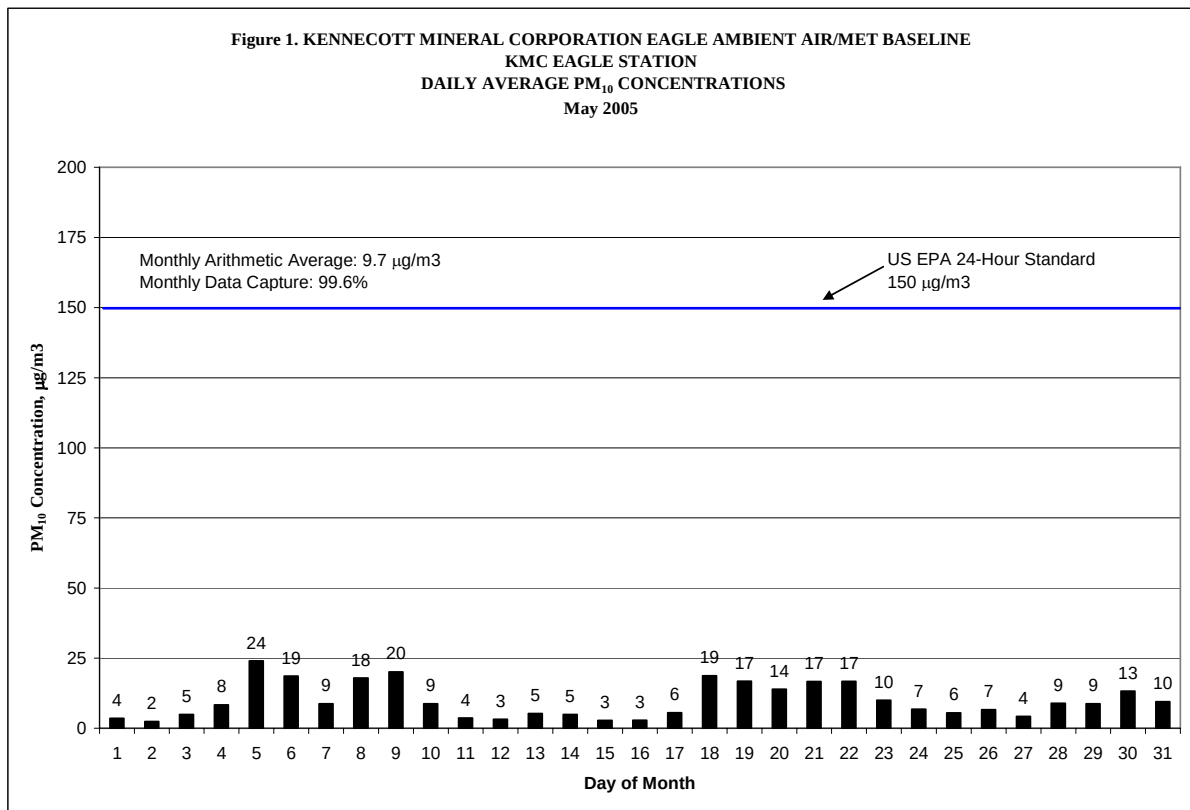
3.2.10 March 2005 PM₁₀ Summary



3.2.11 April 2005 PM₁₀ Summary



3.2.12 May 2005 PM₁₀ Summary



3.3 Meteorological Data

Summaries of the meteorological data collected at the Eagle Project monitoring station from June 2004 through May 2005 are presented in Appendices A through L. Maximum, minimum (when appropriate), and average hourly values for each meteorological parameter are broken down on an hourly basis and can be found in these appendices. Wind direction roses for each month can be found in each monthly Appendix. It should be noted that wind direction is based on true north.

3.3.1 June 2004

The meteorological data summary for June 2004 indicated that the wind direction was primarily out of the west. The average horizontal deviation of the wind direction for June was 23 degrees. The horizontal wind speed averaged 7.2 miles per hour [(mph) 3.2 meters per second (m/s)], and the average monthly temperature was 58.1 degrees Fahrenheit (°F) [or 14.5 degrees Celsius (°C)]. The average monthly relative humidity was 67 percent. The average solar radiation for June was 273 watts per square meter. The total precipitation for June was 1.5 inches [38 millimeters (mm)].

3.3.2 July 2004

The meteorological data summary for July 2004 indicated that the wind direction was primarily out of the south-southwest. The average horizontal deviation of the wind direction for July was 22 degrees. The horizontal wind speed averaged 5.7 mph (or 2.4 m/s), and the average monthly temperature was 62.4°F (16.9°C). The average relative humidity was 75 percent. The average solar radiation for June was 225 watts per square meter. The total precipitation for July was 1.8 inches (45 mm).

3.3.3 August 2004

The meteorological data summary for August 2004 indicated that the wind direction was primarily out of the southwest. The average monthly horizontal deviation of the wind direction was 21 degrees. The horizontal wind speed averaged 6.0 mph (or 2.7 m/s), and the average monthly temperature was 58.8°F (14.9°C). The average relative humidity was 75 percent. The average solar radiation for August was 213 watts per square meter. The total precipitation for August was 5.4 inches (137 mm).

3.3.4 September 2004

The meteorological data summary for September 2004 indicated that the wind direction was primarily out of the south-southwest. The average monthly horizontal deviation of the wind direction was 19 degrees. The horizontal wind speed averaged 8.3 mph (or 3.7 m/s), and the average monthly temperature was 62.1°F (16.7°C). The average relative humidity was 72 percent. The average solar radiation for September was 174 watts per square meter. The total precipitation for September was 1.3 inches (33 mm).

3.3.5 October 2004

The meteorological data summary for October 2004 indicated that the wind direction was primarily out of the south-southwest. The average horizontal deviation of the wind direction for October was 19 degrees. The horizontal wind speed averaged 7.6 mph (or 3.4 m/s), and the average monthly temperature was 46.2°F (7.9°C). The average relative humidity was 79 percent. The average solar radiation for October was 89 watts per square meter. The total precipitation for October was 3.6 inches (92 mm).

3.3.6 November 2004

The meteorological data summary for November 2004 indicated that the wind direction was primarily out of the southwest. The average horizontal deviation of the wind direction for November was 20 degrees. The horizontal wind speed averaged 6.9 mph (or 3.1 m/s), and the average monthly temperature was 36.7°F (2.6°C). The average relative humidity was 76 percent. The average solar radiation for November was 43 watts per square meter. The total precipitation for November was 2.0 inches (50 mm).

3.3.7 December 2004

The meteorological data summary for December 2004 indicated that the wind direction was primarily out of the south-southwest. The average horizontal deviation of the wind direction for December was 19 degrees. The horizontal wind speed averaged 8.0 mph (3.6 m/s), and the average monthly temperature was 19.8°F (-6.8°C). The average relative humidity was 87 percent. The average solar radiation for December was 26 watts per square meter. The total precipitation for December was 1.0 inches (26 mm).

3.3.8 January 2005

The meteorological data summary for January 2005 indicated that the wind direction was primarily out of the west. The average monthly horizontal deviation of the wind direction was 19 degrees. The horizontal wind speed averaged 7.2 mph (or 3.2 m/s), and the average monthly temperature was 13.6°F (-10.2°C). The average relative humidity was 75 percent. The average solar radiation for January was 39 watts per square meter. The total precipitation measured for January was 0.2 inches (5.2 mm).

3.3.9 February 2005

The meteorological data summary for February 2005 indicated that the wind direction was primarily out of the west-northwest. The average monthly horizontal deviation of the wind direction was 20 degrees. The horizontal wind speed averaged 6.5 mph (2.9 m/s), and the average monthly temperature was 22.1°F (-5.5°C). The average relative humidity was 81 percent. The average solar radiation for February was 72 watts per square meter. The total precipitation measured for February was 2.0 inches (51.7 mm).

3.3.10 March 2005

The meteorological data summary for March 2005 indicated that the wind direction was primarily out of the west. The average horizontal deviation of the wind direction for March was 22 degrees. The horizontal wind speed averaged 6.3 mph (2.8 m/s), and the average monthly temperature was 24.8°F (-4.0°C). The average relative humidity was 72 percent. The average solar radiation for March was 144 watts per square meter. The total precipitation for March was 1.9 inches (47.8 mm).

3.3.11 April 2005

The meteorological data summary for April 2005 indicated that the wind direction was primarily out of the north northeast. The average horizontal deviation of the wind direction for April was 24 degrees. The horizontal wind speed averaged 6.5 mph (2.9 m/s) and the average monthly temperature was 42.6°F (5.9°C). The average relative humidity was 60 percent. The average solar radiation for April was 215 watts per square meter. The total precipitation measured for April was 1.5 inches (37.5 mm).

3.3.12 May 2005

The meteorological data summary for May 2005 indicated that the wind direction was primarily out of the south-southwest. The average horizontal deviation of the wind direction for May was 24 degrees. The horizontal wind speed averaged 6.5 mph (2.9 m/s), and the average monthly temperature was 49.8°F (9.9°C). The average relative humidity was 67 percent. The average solar radiation for May was 224 watts per square meter. The total precipitation measured for May was 1.7 inches (43.4 mm).

4.0 SUMMARY

The results of the baseline meteorological monitoring including temperature, wind direction and speed, humidity, solar radiation, and precipitation have been presented for June 2004 through May 2005.

The air quality monitoring data indicate that the PM_{10} concentrations in the vicinity of the Eagle project are well below the daily (24-hour) EPA and MDEQ ambient standard of $150 \mu\text{g}/\text{m}^3$. Additionally, the average PM_{10} concentration for the monitoring period of $12 \mu\text{g}/\text{m}^3$ is well below the annual EPA and MDEQ ambient standard of $50 \mu\text{g}/\text{m}^3$.

5.0 REFERENCES

Golder Associates Inc. (Golder). 2003. Workplans for Resource Baseline Data Collection, Kennecott Exploration Company, Eagle Project.

Golder Associates Inc. (Golder). 2004. Operations and Maintenance (O&M) Manual for Air Quality and Meteorological Monitoring Station #1, Kennecott Minerals Company Project, Marquette, Michigan. August 2004.

I:\2003\033-2156\mapping\MXD\PM-10_Weather_Station.mxd



LEGEND

- ★ PM-10 AND METEOROLOGICAL MONITORING STATION
- MINOR ROAD
- ORE BODY

500 0 500
SCALE: 1:30,000 METERS

REFERENCE

Imagery provided by Digital Globe. Monitoring location provided by Golder Associates.
Datum: NAD 83 Projection: UTM Zone 16

PROJECT



**Kennecott
Minerals**

**EAGLE PROJECT
BASELINE ENVIRONMENTAL STUDY
KENNECOTT MINERALS COMPANY**

TITLE

**LOCATION OF PM-10 AND
METEOROLOGICAL STATIONS**



**Golder
Associates**

PROJECT No. 033-2156c				SCALE AS SHOWN	REV. 0
DESIGN	KG	20 Aug. 2004			
GIS	TN	7 Oct. 2005			
CHECK					
REVIEW					

FIGURE: 2

Appendix A

June 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
June 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	34	µg/m ³	8-Jun-04
Second Maximum 24-Hour (Daily) Concentration ² :	25	µg/m ³	7-Jun-04
Monthly Data Collection Efficiency:	100.0	%	
Monthly Arithmetic Average:	11	µg/m ³	
Reporting Period Arithmetic Average: (June 2004)	11	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	W	
Average Wind Direction Horizontal Deviation:	23	degrees
Average Wind Speed:	3.2	m/s
Average Temperature:	14.5	°C
Average Relative Humidity:	67	%
Average Solar Radiation:	273	W/m ²
Total Rain Fall:	38.0	mm
Monthly Data Collection Efficiency:	99.0	%

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	23.0 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	22.8 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PM₁₀ (µg/m³)
(One Hour Averages)

June 2004																											
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
1	5	4	4	7	5	4	9	9	5	4	5	5	4	3	1	4	8	5	0	3	9	12	12	9	6	12	24
2	9	11	9	3	2	5	5	5	4	0	0	0	0	0	4	5	0	0	0	0	0	2	8	18	4	18	24
3	14	12	12	14	12	12	12	8	1	0	0	0	0	2	1	1	0	0	0	3	6	18	39	29	8	39	24
4	18	16	12	11	5	4	5	3	0	0	0	0	0	0	3	3	5	7	10	13	13	70	34	18	10	70	24
5	19	18	15	14	16	9	19	16	16	14	13	13	16	10	20	21	22	31	19	20	24	17	10	10	17	31	24
6	17	18	13	11	11	17	12	9	7	3	0	1	0	1	6	10	13	13	13	12	12	19	17	18	11	19	24
7	9	11	10	9	17	19	25	25	25	13	23	0	16	25	24	32	36	35	38	35	41	38	42	44	25	44	24
8	38	41	36	42	33	37	40	28	28	40	33	28	35	30	30	54	64	26	28	31	38	28	27	15	34	64	24
9	9	16	13	13	13	27	10	6	3	4	1	0	2	2	2	1	4	10	7	1	2	5	6	10	7	27	24
10	9	5	4	6	6	6	3	4	37	21	0	1	6	7	3	1	7	31	5	3	8	15	15	12	9	37	24
11	6	8	11	11	11	7	7	13	19	11	42	14	35	23	17	18	9	16	19	12	18	19	11	19	16	42	24
12	15	27	16	18	27	30	21	8	10	56	10	7	8	9	8	9	8	7	10	41	16	19	33	29	18	56	24
13	30	33	28	25	23	29	25	24	27	17	10	26	13	16	11	10	6	3	1	17	12	12	13	19	18	33	24
14	10	10	11	11	10	9	7	4	7	7	6	9	5	5	16	7	9	11	10	10	13	12	22	19	10	22	24
15	14	16	10	10	10	10	7	5	3	0	0	0	0	5	5	4	9	60	63	6	9	13	21	12	12	63	24
16	12	13	11	11	12	11	10	10	16	7	8	11	10	17	6	17	19	13	11	9	99	16	18	14	16	99	24
17	12	10	11	12	12	11	8	9	10	7	4	2	2	3	4	6	7	6	6	7	9	8	21	21	9	21	24
18	18	18	13	9	5	9	12	10	7	4	5	9	7	22	23	29	34	20	26	24	13	12	7	7	14	34	24
19	6	9	10	5	9	10	4	2	0	0	0	1	2	4	4	3	0	2	9	11	8	8	12	19	6	19	24
20	14	13	8	8	11	7	6	5	2	0	1	5	7	10	10	8	3	7	12	15	12	23	22	16	9	23	24
21	20	17	13	12	11	11	20	13	11	6	5	5	5	10	14	23	24	4	3	1	6	12	18	8	11	24	24
22	8	10	8	4	8	7	5	7	5	1	3	2	5	6	5	7	6	5	17	9	6	6	10	9	7	17	24
23	6	7	9	9	7	6	6	7	5	0	0	1	4	4	5	3	0	2	7	11	13	14	13	9	6	14	24
24	3	2	0	1	7	10	6	3	0	0	1	5	7	5	2	4	0	0	4	5	4	7	12	12	4	12	24
25	3	0	1	0	0	2	5	3	2	1	3	7	8	6	6	6	4	0	0	0	2	3	7	13	4	13	24
26	12	6	3	1	1	1	1	3	0	0	0	0	0	3	0	0	3	9	18	19	11	10	12	12	5	19	24
27	11	11	7	5	5	7	11	8	1	0	0	1	2	3	5	4	1	3	4	6	7	8	37	20	7	37	24
28	16	12	7	9	21	9	5	0	0	0	0	3	1	6	20	13	12	10	15	17	11	22	10	23	10	23	24
29	19	13	14	10	10	9	7	10	9	7	7	5	0	4	6	2	2	1	0	5	10	29	20	21	9	29	24
30	26	22	18	14	11	12	15	12	11	17	11	22	19	24	26	20	22	43	25	20	22	21	16	4	19	43	24
Hour Avg.:	14	14	11	11	11	12	11	9	9	8	6	6	7	9	10	11	11	13	13	12	15	17	18	16			
Hour Max.:	38	41	36	42	33	37	40	28	37	56	42	28	35	30	30	54	64	60	63	41	99	70	42	44			
Readings	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30			

Monthly Avg.: 11.4 µg/m³ Standard Deviation: 10.7 Data Capture: 100.0 % Total Valid Hours = 720

System Codes:	NA - Not Available =	0	AUD - Audit =	0	ACAL - Auto Cal =	0
	RNG - Range =	0	M&R - Maintenance & Repair =	0	INOP - InOperative =	0
	Cal - Calibration =	0	MCAL - Manual Calibration =	0	LF - Power Fail =	0
	MISS - Data Not Collected =	0	PF - Low Flow =	0		

**Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)**

June 2004																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	181	168	184	40	76	103	58	55	69	56	60	53	12	26	1	6	2	343	289	337	283	260	270	260	24
2	328	344	352	348	285	258	258	271	11	9	4	8	18	26	20	15	PF	PF	9	354	342	318	264	263	22
3	276	282	293	266	262	296	234	276	255	31	40	NA	NA	NA	19	34	33	24	17	20	28	91	101	175	21
4	191	221	229	228	224	218	205	209	209	248	262	40	34	26	38	37	92	52	48	110	137	176	180	24	
5	200	201	198	189	195	195	204	207	213	220	210	210	200	199	204	202	205	196	193	204	203	206	211	212	24
6	219	227	227	247	273	267	268	278	281	281	280	291	291	297	47	66	54	56	58	74	121	124	136	140	24
7	149	154	145	156	179	173	160	184	194	204	207	201	197	197	201	194	190	199	198	203	224	212	197	199	24
8	201	209	210	214	223	231	234	236	230	263	283	264	246	230	306	304	290	286	297	318	313	315	295	307	24
9	306	126	19	27	20	338	31	46	50	17	17	35	39	43	25	37	27	4	17	21	28	34	38	32	24
10	100	60	324	210	201	139	121	118	113	104	106	98	86	83	72	72	77	81	91	81	105	117	119	134	24
11	124	125	120	122	120	125	124	127	128	128	135	133	142	146	150	145	123	151	170	163	154	149	145	148	24
12	146	162	185	170	167	184	188	188	192	192	196	201	197	205	228	239	239	328	15	44	73	104	185	201	24
13	205	209	205	206	231	203	202	203	198	197	197	242	241	216	195	214	216	220	244	244	238	244	240	260	24
14	227	248	249	252	266	262	226	262	274	277	289	PF	280	282	295	279	291	309	322	338	336	330	296	268	23
15	278	262	296	192	230	264	341	38	45	31	40	52	51	65	70	71	88	104	95	90	101	115	155	142	24
16	180	188	191	200	200	203	213	213	211	221	230	261	337	300	302	333	356	356	33	55	71	167	136	307	24
17	204	49	46	41	104	150	193	300	359	13	31	30	39	55	50	26	41	30	31	18	36	129	183	216	24
18	219	251	259	262	265	240	249	253	249	269	273	286	280	288	285	278	284	287	288	292	292	301	302	306	24
19	310	327	330	325	306	264	193	259	270	278	281	297	302	301	299	311	286	294	286	274	259	238	226	222	24
20	235	237	240	237	232	238	237	241	241	239	251	255	248	254	247	238	250	243	250	245	237	234	218	211	24
21	221	232	227	232	234	236	235	235	233	232	234	238	228	285	318	355	276	306	317	342	323	284	237	264	24
22	253	246	265	282	279	280	283	284	291	296	300	294	267	273	247	254	259	265	255	237	233	220	221	210	24
23	216	223	258	260	227	256	273	275	274	281	284	286	285	283	285	287	280	73	93	93	135	218	126	135	24
24	186	245	248	271	278	271	274	273	267	268	275	280	280	285	281	312	330	309	306	290	267	229	210	215	24
25	214	212	208	211	214	218	227	228	234	247	254	259	264	274	274	267	299	280	281	300	310	289	258	260	24
26	258	258	267	270	269	268	270	275	281	286	294	303	280	287	290	292	285	283	283	274	280	268	254	253	24
27	260	275	279	286	280	278	274	278	278	282	289	301	300	283	287	311	298	316	311	331	321	297	205	241	24
28	246	252	244	240	244	250	256	269	272	281	280	289	297	292	283	280	272	277	278	269	241	252	50	152	24
29	177	259	245	249	272	283	311	290	322	356	28	22	36	34	30	43	45	52	85	107	144	167	182	192	24
30	201	207	214	217	233	242	253	251	246	246	258	269	PF	268	268	259	260	271	305	275	320	19	29	16	23
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30	

Data Capture: 99.0 %

Total Valid Hours = 713

		Hours			Hours			Hours	
System Codes:	NA	- Not Available =	3	AUD	- Audit =	0	ACAL	- Auto Cal =	0
	RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
	Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	4
	MISS	- Data Not Collected =	0						

WIND DIRECTION HORIZONTAL DEVIATION (One Hour Averages)

June 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Total Readings	
DAY																											
1	15	28	15	43	32	36	21	48	54	22	21	22	15	18	20	18	17	24	31	28	41	24	28	31	27	24	
2	24	12	14	39	26	1	0	35	14	14	17	21	18	16	19	17	PF	PF	16	18	15	16	15	14	17	22	
3	17	14	23	34	18	20	6	13	38	59	31	NA	NA	NA	26	27	23	25	23	26	23	13	8	12	23	21	
4	18	24	22	32	13	12	11	13	15	18	50	79	59	57	36	55	38	45	52	33	22	10	11	10	31	24	
5	11	14	13	13	12	11	12	13	16	18	16	20	19	18	19	16	16	13	12	14	13	13	16	18	15	24	
6	14	15	14	20	16	16	17	18	17	21	22	32	35	42	22	22	19	20	23	25	21	9	6	6	20	24	
7	11	10	14	15	15	13	13	18	12	14	15	16	18	18	19	17	16	16	16	16	17	19	12	13	15	24	
8	14	14	14	14	16	17	17	16	19	23	23	22	19	53	30	22	23	22	25	26	24	26	26	22	22	24	
9	35	97	14	14	16	41	13	26	37	14	25	20	18	28	18	19	22	19	18	19	14	11	10	75	26	24	
10	84	57	99	8	1	57	13	19	21	22	26	26	31	27	25	27	30	26	26	24	19	20	14	14	30	24	
11	14	15	14	14	13	13	14	14	14	16	15	17	21	20	18	18	23	22	18	15	13	14	14	13	16	24	
12	15	25	18	15	13	14	13	14	14	16	17	15	20	23	21	25	64	18	24	32	38	13	13	21	24	24	
13	13	13	13	13	24	14	17	14	19	13	16	26	27	17	21	34	14	19	23	16	11	15	14	19	18	24	
14	36	20	13	11	20	21	28	29	18	20	21	PF	23	30	26	21	22	28	26	19	17	17	40	12	23	23	
15	22	23	72	47	51	65	68	76	24	24	37	34	36	29	31	31	32	26	23	21	17	18	10	22	35	24	
16	13	12	14	15	13	14	14	14	17	15	18	26	22	26	32	30	15	16	27	22	32	28	81	71	24	24	
17	37	99	18	71	24	21	29	25	77	19	36	21	28	35	33	19	22	22	23	22	18	35	23	0	32	24	
18	8	11	13	16	23	14	11	15	16	22	23	22	21	22	21	22	21	22	21	23	22	24	25	24	19	24	
19	22	22	21	22	36	38	19	16	19	21	22	27	29	27	26	28	26	26	25	20	16	14	9	9	23	24	
20	11	13	14	15	14	14	15	16	18	17	19	20	21	23	23	23	24	20	21	19	16	15	12	10	17	24	
21	14	15	16	16	16	15	16	16	16	18	20	20	21	42	46	36	47	29	25	18	23	19	17	18	22	24	
22	14	14	15	18	16	16	17	18	21	26	28	28	23	25	28	24	30	36	21	16	17	21	17	13	21	24	
23	13	22	15	18	18	13	16	16	18	22	23	23	26	27	26	33	78	26	24	24	68	92	63	15	30	24	
24	24	37	29	18	18	16	16	17	17	18	17	19	20	21	20	30	25	30	30	24	24	14	8	9	21	24	
25	11	12	11	12	13	14	17	16	17	20	18	22	18	28	21	20	28	22	19	28	27	20	26	14	19	24	
26	9	9	10	12	14	15	13	17	18	22	26	28	22	23	28	24	25	23	21	20	21	17	11	12	18	24	
27	14	15	14	18	15	17	17	17	18	26	24	30	28	22	25	27	28	28	27	24	25	31	35	18	23	24	
28	15	12	10	9	9	10	15	16	18	19	20	23	28	27	23	28	24	20	22	18	17	65	55	77	24	24	
29	23	33	35	18	33	20	21	20	27	16	21	39	43	40	33	29	25	27	33	23	20	13	12	13	26	24	
30	12	15	14	15	17	16	20	17	16	17	20	18	PF	24	23	24	21	26	33	20	28	28	17	14	20	23	
Hour Avg.:	19.4	24.1	20.7	20.8	18.8	20.1	17.3	20.7	22.2	20.3	22.9	25.7	25.3	26.6	26.1	25.7	26.1	25.6	24.0	21.5	22.5	23.2	21.6	20.5			
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30			
Monthly Avg.:	23 °		Standard Deviation:				12.9		Data Capture:				9.6 %				Total Valid Hours =										713
			Hours										Hours				Hours										
System Codes:	NA	- Not Available =						3	AUD	- Audit =						0	ACAL	- Auto Cal =						0			
	RNG	- Range =						0	M&R	- Maintenance & Repair =						0	INOP	- InOperative =						0			
	Cal	- Calibration =						0	MCAL	- Manual Calibration =						0	PF	- Power Fail =						4			
	MISS	- Data Not Collected =						0																			

Table 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED - m/s
(One Hour Averages)

June 2004																																				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings									
1	2.1	2.0	1.5	1.3	1.2	0.8	0.5	1.7	1.7	1.9	2.0	2.1	3.0	2.1	1.7	2.2	1.9	1.0	0.6	1.3	0.9	1.0	0.6	0.6	1.5	3.0	24									
2	1.1	2.1	2.2	1.4	0.3	0.2	0.2	0.4	2.9	3.5	3.7	3.5	4.3	5.3	5.3	5.3	PF	PF	4.5	3.6	2.6	1.3	0.8	1.1	2.5	5.3	22									
3	1.0	0.5	1.1	0.5	0.6	0.4	0.2	0.7	1.0	1.3	2.6	NA	NA	NA	3.6	3.7	3.9	3.2	3.1	2.4	1.6	0.4	0.3	1.0	1.6	3.9	21									
4	1.2	0.9	1.0	0.9	1.7	2.0	2.0	3.1	4.0	3.3	1.8	1.6	2.0	2.8	3.4	2.7	2.9	2.0	2.1	2.2	1.8	1.3	1.9	1.9	2.1	4.0	24									
5	2.1	2.2	3.4	2.7	2.9	2.6	2.3	3.0	3.1	3.2	5.2	4.7	5.9	5.8	5.0	4.9	4.8	3.8	6.7	5.9	6.1	5.4	3.7	4.1	4.1	6.7	24									
6	4.1	3.5	3.0	2.5	3.1	3.0	2.5	3.1	3.9	3.1	3.1	2.4	3.0	3.4	3.8	3.1	3.4	2.9	2.7	1.9	1.8	1.0	1.2	1.7	2.8	4.1	24									
7	1.7	2.1	2.1	1.9	2.0	2.1	2.3	2.8	4.8	5.2	5.7	6.3	6.7	7.4	7.4	8.4	8.7	9.4	9.3	8.2	6.1	6.3	6.9	8.0	5.5	9.4	24									
8	8.6	8.5	7.7	7.5	6.9	6.7	6.3	5.0	4.2	5.0	4.0	4.4	5.2	5.4	4.9	5.6	5.4	3.5	2.7	2.2	2.1	1.9	2.1	1.7	4.9	8.6	24									
9	0.9	1.5	2.0	1.9	2.8	3.1	3.4	4.4	2.5	3.0	1.9	1.6	2.3	2.5	3.3	3.5	3.6	3.0	2.6	2.1	2.1	1.7	1.4	1.0	2.4	4.4	24									
10	0.4	0.1	0.2	0.1	0.1	0.2	1.5	1.8	3.1	3.8	3.9	3.7	3.8	4.0	4.0	4.1	3.8	3.8	3.2	2.7	2.6	1.6	2.2	2.2	2.4	4.1	24									
11	1.9	1.5	1.7	1.9	2.2	2.2	2.6	4.6	6.5	5.8	7.8	6.8	6.5	6.6	6.8	7.3	5.0	5.8	5.4	5.5	4.9	3.8	4.8	5.7	4.7	7.8	24									
12	4.9	5.8	4.8	6.5	7.8	8.6	8.7	8.3	8.1	7.5	7.4	6.9	6.3	5.5	4.5	4.8	4.7	4.0	3.0	2.0	1.3	0.9	3.1	4.2	5.4	8.7	24									
13	3.9	3.7	4.6	4.5	3.4	2.7	2.4	2.7	3.7	4.8	4.0	5.3	4.3	5.4	4.7	3.4	4.2	4.2	3.5	2.3	1.9	2.7	2.8	3.5	3.7	5.4	24									
14	2.1	1.9	1.9	1.6	1.3	1.4	0.8	1.6	3.2	3.2	2.9	PF	3.1	3.4	3.5	3.9	3.9	3.4	3.8	3.7	2.5	1.4	1.2	1.2	2.5	3.9	23									
15	0.8	1.1	0.8	0.4	0.3	0.4	0.5	1.4	2.0	2.3	2.2	2.2	2.5	3.5	3.0	3.4	3.0	2.9	3.0	2.9	2.8	2.3	3.9	2.5	2.1	3.9	24									
16	5.3	5.8	5.8	6.4	7.4	6.8	5.6	5.0	5.2	4.3	3.7	3.8	3.7	3.3	3.2	2.7	2.7	3.3	2.7	2.3	1.6	0.9	0.4	0.3	3.8	7.4	24									
17	0.3	0.5	1.3	1.3	0.6	0.4	0.7	0.3	1.0	1.6	1.9	2.4	2.4	2.3	2.7	3.4	2.9	3.0	2.6	2.4	1.4	0.2	0.3	0.2	1.5	3.4	24									
18	0.2	0.7	0.8	1.0	0.2	1.6	1.3	1.7	2.6	3.0	4.2	4.2	4.9	5.5	6.1	6.6	7.2	7.1	7.0	5.7	4.9	3.9	2.9	3.3	3.6	7.2	24									
19	3.0	3.8	3.2	2.6	1.6	1.1	0.9	1.4	3.5	4.5	4.2	4.3	4.4	5.5	5.5	4.4	5.1	4.7	4.4	4.4	3.4	2.0	1.8	1.8	3.4	5.5	24									
20	2.7	3.3	2.9	2.7	2.4	2.6	3.4	4.0	4.1	5.2	6.6	6.7	6.8	5.9	5.8	6.2	6.3	5.9	5.3	5.4	4.7	3.7	2.8	3.2	4.5	6.8	24									
21	4.0	4.2	4.5	4.1	4.1	3.8	3.6	4.2	4.5	4.4	4.7	4.9	4.1	3.0	2.2	1.7	1.6	2.6	2.5	2.6	1.8	1.4	1.2	2.1	3.2	4.9	24									
22	2.2	2.1	2.6	3.2	2.8	2.6	2.5	3.2	3.2	3.3	3.5	3.8	4.5	4.1	3.6	4.6	3.6	2.6	3.1	3.1	3.4	3.0	2.4	2.8	3.2	4.6	24									
23	2.1	2.8	3.1	3.2	2.7	2.2	2.5	2.9	3.1	3.2	3.9	4.1	4.1	4.2	4.2	3.5	2.8	3.2	2.4	2.1	1.3	0.5	1.1	2.0	2.8	4.2	24									
24	1.1	1.4	3.6	3.7	3.8	4.3	4.8	5.1	5.5	6.3	6.6	5.4	5.6	5.0	4.7	3.9	3.8	3.6	3.4	3.1	2.4	1.6	2.0	2.6	3.9	6.6	24									
25	2.9	3.3	3.5	4.1	3.8	3.9	3.7	3.5	4.3	4.5	4.7	4.2	4.5	3.6	4.5	4.5	3.3	3.9	3.5	2.3	2.4	1.3	0.8	1.4	3.4	4.7	24									
26	1.4	1.3	1.6	1.9	2.2	1.8	2.0	2.6	3.3	3.7	3.4	3.8	4.5	4.5	4.5	4.8	4.8	4.9	4.6	4.6	3.7	2.6	2.2	2.2	3.2	4.9	24									
27	2.1	3.0	3.0	3.5	3.0	2.8	2.9	2.8	2.9	3.2	3.7	3.9	4.0	4.1	4.2	3.7	3.6	3.4	3.3	3.0	2.2	0.9	1.0	1.4	3.0	4.2	24									
28	1.4	1.7	1.6	1.5	1.5	2.1	1.8	2.3	3.0	3.6	3.2	4.2	4.1	4.8	5.3	4.7	5.1	4.8	4.1	3.8	2.4	3.3	3.3	1.9	3.1	5.3	24									
29	1.4	1.5	1.6	1.6	1.1	1.0	1.1	0.9	1.6	2.2	1.9	1.7	2.1	2.1	2.4	2.7	2.7	2.1	1.9	1.7	2.0	2.5	2.7	2.9	1.9	2.9	24									
30	3.7	3.5	4.1	3.9	3.0	3.5	3.1	3.3	3.4	3.5	4.6	5.5	PF	5.1	4.3	4.4	5.9	5.1	3.4	2.1	2.5	4.0	2.5	1.9	3.8	5.9	23									
Hour Avg.:	2.4	2.5	2.7	2.7	2.6	2.6	2.5	2.9	3.5	3.8	4.0	4.1	4.2	4.3	4.3	4.3	4.2	3.9	3.7	3.3	2.7	2.2	2.1	2.3												
Hour Max.:	8.6	8.5	7.7	7.5	7.8	8.6	8.7	8.3	8.1	7.5	7.8	6.9	6.8	7.4	7.4	8.4	8.7	9.4	9.3	8.2	6.1	6.3	6.9	8.0												
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30												
Monthly Avg.:	3.2 m/s		Standard Deviation:				1.8		Data Capture:				99.0 %		Total Valid Hours =										713											
System Codes:											Hours												Hours												Hours	
	NA - Not Available =										3		AUD - Audit =										0		ACAL - Auto Cal =										0	
	RNG - Range =										0		M&R - Maintenance & Repair =										0		INOP - InOperative =										0	
	Cal - Calibration =										0		MCAL - Manual Calibration =										0		PF - Power Fail =										4	
MISS - Data Not Collected =										0																										

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

June 2004																								Daily Avg.	Daily Max.	Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	9.0	9.3	9.3	9.0	8.4	8.5	8.5	7.8	8.6	9.2	9.5	9.9	7.8	7.3	6.9	7.4	7.6	7.9	8.6	9.4	9.5	9.2	7.5	6.5	8.4	9.9	24
2	7.1	7.9	6.9	5.9	4.3	2.7	2.9	5.4	8.2	9.2	10.0	11.0	10.6	9.9	10.7	11.7	PF	PF	13.8	13.9	13.3	11.9	10.0	8.6	8.9	13.9	22
3	7.6	6.0	5.2	3.4	3.1	2.4	2.2	5.3	9.8	12.8	13.6	NA	NA	NA	15.0	15.1	15.3	15.5	15.1	14.8	14.4	12.2	8.6	6.6	9.7	15.5	21
4	7.9	8.6	8.8	8.2	8.2	8.7	9.1	10.7	12.3	14.3	16.7	18.8	20.3	20.8	21.3	21.6	22.0	21.8	22.0	21.7	20.5	18.3	16.0	15.3	15.6	22.0	24
5	14.9	14.5	14.9	14.1	13.0	12.4	12.2	13.2	15.8	19.0	21.1	21.6	21.8	21.8	21.4	20.9	19.3	17.1	15.2	14.8	14.4	14.1	13.8	13.9	16.5	21.8	24
6	14.2	14.2	14.2	14.4	14.4	13.9	13.4	14.0	14.8	16.6	18.1	19.8	21.1	21.6	19.4	19.3	18.9	18.2	17.7	17.2	15.6	14.7	13.4	12.8	16.3	21.6	24
7	12.9	12.9	13.6	13.8	14.1	13.9	14.6	16.3	18.2	19.3	22.2	24.1	26.2	27.7	28.4	28.8	29.3	29.6	29.7	29.4	28.8	27.7	26.7	26.3	22.3	29.7	24
8	25.8	25.4	25.0	25.0	25.2	25.1	25.0	25.1	25.0	25.3	24.9	26.6	27.8	29.2	28.5	26.0	25.7	25.2	24.4	23.1	21.6	20.1	18.6	17.3	24.6	29.2	24
9	16.8	15.8	14.7	13.8	12.7	11.3	9.3	7.9	8.1	7.9	7.0	7.8	7.7	8.4	8.0	9.0	9.6	9.2	9.3	9.2	9.5	8.0	6.9	6.1	9.8	16.8	24
10	4.3	3.5	2.7	2.0	1.7	2.5	5.3	7.6	10.1	11.3	12.3	12.9	13.4	13.4	13.6	13.4	13.2	13.1	13.3	12.6	11.2	9.3	7.9	7.2	9.1	13.6	24
11	7.1	7.0	8.0	9.0	9.6	10.0	10.1	12.2	13.9	15.2	16.3	17.2	18.5	19.5	19.8	20.0	19.5	19.3	18.5	18.0	17.1	16.3	15.8	15.2	14.7	20.0	24
12	14.5	14.5	14.3	14.0	13.7	13.0	12.6	13.0	13.5	14.0	14.5	15.5	18.4	21.5	23.8	25.7	27.0	26.4	24.3	23.5	22.9	21.3	21.1	20.6	18.5	27.0	24
13	19.7	19.2	19.5	19.6	19.7	19.1	18.7	19.4	20.0	21.4	22.5	21.8	17.2	16.6	16.3	16.5	18.1	20.7	22.1	21.7	20.2	19.5	17.4	17.0	19.3	22.5	24
14	14.8	14.3	14.2	13.6	13.3	13.4	13.2	14.4	15.0	15.2	15.5	PF	16.5	17.2	17.6	18.2	18.2	17.8	16.9	16.0	15.5	13.9	12.3	10.5	15.1	18.2	23
15	9.7	8.6	8.4	6.6	6.1	6.6	7.5	8.9	10.4	11.3	12.2	13.4	14.6	14.8	15.4	15.4	15.6	16.3	16.3	15.1	13.4	11.5	11.1	11.2	11.7	16.3	24
16	13.4	14.6	15.3	15.7	16.0	16.7	16.7	16.0	16.6	17.5	18.6	21.0	19.0	18.4	19.7	21.2	19.9	19.7	19.4	17.6	16.4	15.4	14.9	13.8	17.2	21.2	24
17	13.7	14.5	14.2	13.1	12.5	12.3	12.1	12.4	13.0	13.6	15.8	16.9	17.6	18.8	20.1	20.6	19.7	19.7	20.0	19.8	19.1	17.4	14.2	12.2	16.0	20.6	24
18	11.1	10.9	12.1	12.1	11.9	12.3	12.9	14.3	17.2	19.2	20.5	20.4	20.0	18.3	16.0	16.1	14.2	13.0	12.5	12.4	11.8	10.9	9.9	9.2	14.1	20.5	24
19	8.2	7.5	6.6	6.0	5.5	4.3	4.1	6.8	9.9	11.9	12.7	13.9	15.5	16.3	16.8	17.4	17.5	17.8	17.7	17.5	17.1	15.6	13.6	12.8	12.2	17.8	24
20	12.8	12.3	11.6	11.5	11.1	10.4	10.9	12.0	13.9	16.1	18.0	18.7	19.4	20.4	21.2	21.9	22.3	22.5	22.5	21.6	21.0	19.4	17.7	16.3	16.9	22.5	24
21	16.0	15.3	14.6	13.7	13.3	12.8	12.9	14.1	15.8	17.9	19.8	21.1	21.1	17.6	18.3	15.7	16.2	18.3	18.2	18.3	17.1	15.2	13.3	12.7	16.2	21.1	24
22	12.0	10.7	10.2	10.2	9.7	9.3	8.9	9.5	11.1	12.5	13.7	14.8	15.8	16.1	16.2	17.4	17.3	17.5	13.8	15.1	15.1	13.0	12.1	11.3	13.1	17.5	24
23	11.5	11.6	11.5	10.0	9.0	8.3	7.9	8.9	10.1	11.4	12.3	13.2	13.8	14.4	15.1	15.8	16.0	13.8	12.5	10.3	7.9	7.2	7.2	6.9	11.1	16.0	24
24	7.1	7.3	7.8	6.6	5.7	5.5	5.5	6.2	7.4	8.4	8.2	7.0	7.7	7.4	8.0	9.4	10.0	10.9	11.3	11.5	11.4	10.1	8.1	7.7	8.2	11.5	24
25	8.0	7.8	8.0	8.1	8.3	8.8	9.0	9.3	10.2	11.1	11.3	11.4	11.5	12.1	12.2	12.8	12.7	13.2	12.9	13.1	13.0	11.5	9.4	8.0	10.6	13.2	24
26	7.3	7.0	6.9	7.1	7.5	7.2	7.0	8.4	10.1	11.0	12.2	12.7	13.3	13.7	14.4	14.8	15.3	15.3	15.1	15.4	15.1	13.5	11.8	10.9	11.4	15.4	24
27	10.7	12.1	12.3	12.5	11.3	10.4	10.3	11.4	13.2	14.6	15.8	16.7	16.9	17.3	17.8	17.9	18.2	18.9	18.5	17.9	17.2	15.4	12.5	11.0	14.6	18.9	24
28	10.9	11.1	10.6	10.3	10.6	10.8	11.1	13.0	15.0	16.1	16.5	18.5	19.6	20.0	20.7	21.1	21.5	21.7	21.6	21.3	20.3	18.7	12.6	12.3	16.1	21.7	24
29	12.7	13.0	13.0	13.2	13.2	12.7	12.7	13.0	13.4	13.3	14.6	16.3	17.5	18.4	19.2	19.8	19.9	20.0	20.1	20.3	19.6	17.9	17.0	17.1	16.2	20.3	24
30	16.8	16.4	16.2	17.4	17.5	17.9	17.6	17.9	19.3	21.9	24.1	25.1	PF	26.6	26.8	27.4	28.0	24.7	19.3	18.7	18.0	15.3	13.2	12.9	20.0	28.0	23
Hour Avg.:	12.0	11.8	11.7	11.3	11.0	10.8	10.8	11.8	13.3	14.6	15.7	16.7	16.8	17.4	17.6	17.9	18.2	18.1	17.4	17.0	16.3	14.8	13.2	12.3			
Hour Max.:	25.8	25.4	25.0	25.0	25.2	25.1	25.0	25.1	25.0	25.3	24.9	26.6	27.8	29.2	28.5	28.8	29.3	29.6	29.7	29.4	28.8	27.7	26.7	26.3			
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30			
Monthly Avg.:	14.5 °C			Standard Deviation:			5.4			Data Capture:			99.0 %			Total Valid Hours =										713	
System Codes:	Hours												Hours												Hours		
	NA - Not Available =												AUD - Audit =												ACAL - Auto Cal =		
	RNG - Range =												M&R - Maintenance & Repair =												INOP - InOperative =		
	Cal - Calibration =												MCAL - Manual Calibration =												PF - Power Fail =		
	MISS - Data Not Collected =																										

**Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)**

June 2004																														
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
	1	98	98	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	96	97	98	98	99	99	24			
2	90	82	83	86	93	97	96	88	78	75	71	64	62	57	50	46	PF	PF	30	31	36	41	50	56	66	97	22			
3	63	72	76	86	88	92	91	79	60	47	41	NA	NA	NA	37	37	36	36	36	34	32	40	61	73	58	92	21			
4	63	59	58	60	60	57	57	54	46	42	38	33	30	32	30	30	28	28	29	30	32	39	48	52	43	63	24			
5	53	54	51	59	65	68	70	68	60	51	41	38	37	38	42	47	55	73	88	89	90	92	93	93	63	93	24			
6	92	94	96	95	94	94	93	92	87	75	64	53	40	35	65	66	67	69	70	72	78	83	88	86	77	96	24			
7	84	85	80	80	85	90	91	90	83	80	71	63	55	49	48	47	46	45	45	47	49	53	59	63	66	91	24			
8	65	68	70	70	69	68	69	68	69	65	60	54	53	49	48	41	31	32	35	46	53	55	57	59	56	70	24			
9	60	65	66	63	66	77	93	97	98	98	98	97	96	93	89	79	70	69	68	68	65	71	75	78	79	98	24			
10	90	93	94	96	97	92	80	75	67	62	58	55	53	52	52	51	50	48	50	53	59	64	65	67	97	24				
11	64	66	70	71	68	63	59	51	43	40	37	37	32	29	28	29	36	43	48	45	43	45	44	45	47	71	24			
12	47	50	55	63	69	75	78	76	76	77	79	78	69	59	49	43	38	40	51	55	58	67	73	80	63	80	24			
13	85	90	91	91	89	91	93	93	91	81	72	66	84	87	88	83	76	64	60	63	73	57	64	68	79	93	24			
14	88	90	90	90	87	87	87	85	82	81	79	PF	73	71	67	63	63	64	63	60	62	69	76	85	77	90	23			
15	88	93	92	97	98	97	95	85	70	65	62	59	57	57	55	55	54	53	53	56	61	69	71	73	71	98	24			
16	76	75	71	72	75	70	74	81	81	77	76	70	80	81	75	67	73	68	66	71	77	81	84	88	75	88	24			
17	90	81	76	86	91	92	93	94	89	85	77	73	68	60	52	48	52	51	50	51	54	61	77	89	73	94	24			
18	92	91	86	85	86	84	82	79	69	58	45	48	53	62	67	44	47	49	50	51	53	57	62	66	65	92	24			
19	71	71	70	70	71	79	82	69	54	49	51	48	39	35	32	31	28	28	26	29	31	38	46	48	50	82	24			
20	49	53	58	59	61	64	63	59	54	47	35	34	32	30	29	28	28	28	29	32	35	40	47	54	44	64	24			
21	58	65	71	77	80	83	84	79	72	63	55	45	44	64	72	91	85	69	57	52	55	62	71	72	68	91	24			
22	71	76	81	81	84	86	86	81	72	64	55	48	45	47	50	43	44	47	75	70	68	75	81	84	67	86	24			
23	84	84	84	90	92	92	89	85	77	65	56	52	50	44	39	35	36	53	59	68	86	95	97	96	71	97	24			
24	96	95	93	91	90	91	89	83	75	68	69	81	77	80	80	69	65	60	60	58	62	70	81	80	78	96	24			
25	78	78	76	76	76	74	73	72	68	68	69	71	69	66	62	57	58	53	56	56	57	64	75	83	68	83	24			
26	87	90	90	88	87	89	90	86	80	76	70	64	54	53	48	46	45	42	44	44	46	53	61	65	67	90	24			
27	66	61	62	62	69	75	77	74	68	64	59	55	54	52	49	47	45	38	41	45	46	56	70	76	59	77	24			
28	75	74	75	77	76	80	81	74	64	58	57	47	42	41	34	34	33	31	34	37	43	50	91	97	59	97	24			
29	97	95	95	94	94	94	94	94	95	94	86	77	71	68	64	61	58	56	53	54	59	66	72	80	78	97	24			
30	85	84	85	77	72	71	72	70	66	59	49	43	PF	37	37	34	31	45	72	79	83	80	77	68	64	85	23			
Hour Avg.:	76.8	77.7	78.1	79.7	81.0	82.4	82.7	79.3	73.1	67.8	62.6	59.0	57.8	56.1	54.6	51.7	51.0	51.1	53.2	54.7	57.9	62.8	70.4	74.0						
Hour Max.:	98.0	98.0	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	96.0	97.0	98.0	98.0						
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30						
Monthly Avg.:	67 %	Standard Deviation:					19.2	Data Capture:					99.0 %											Total Valid Hours =			713			
							Hours									Hours									Hours					
System Codes:	NA	- Not Available =					3	AUD					- Audit =					0	ACAL					- Auto Cal =					0	
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0	
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					4	
	MISS	- Data Not Collected =					0																							

KMC EAGLE STATION
Solar Radiation (W/m2)
(One Hour Averages)

June 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings					
DAY																																
1	0	0	0	0	0	0	5	9	99	125	97	124	107	105	106	182	127	84	59	97	86	9	0	0	59	182	24					
2	0	0	0	0	0	0	53	211	365	551	712	790	791	970	963	901	PF	PF	479	299	130	11	0	0	328	970	22					
3	0	0	0	0	0	0	50	201	379	561	727	NA	NA	NA	988	929	826	682	506	318	147	11	0	0	301	988	21					
4	0	0	0	0	0	0	43	195	298	547	713	840	925	964	971	915	822	500	383	317	134	10	0	0	357	971	24					
5	0	0	0	0	0	1	26	122	276	476	694	517	691	547	328	190	154	60	61	28	11	2	0	0	174	694	24					
6	0	0	0	0	0	0	51	121	337	549	715	848	959	982	822	635	682	628	490	294	90	16	0	0	342	982	24					
7	0	0	0	0	0	0	29	62	162	190	599	651	838	888	796	772	740	580	455	273	62	6	0	0	296	888	24					
8	0	0	0	0	0	0	40	116	178	379	555	737	770	783	530	541	555	372	216	114	111	14	0	0	250	783	24					
9	0	0	0	0	0	0	1	15	48	51	62	100	113	235	328	619	634	331	223	192	149	20	0	0	130	634	24					
10	0	0	0	0	0	0	48	201	360	540	703	837	927	968	933	908	743	660	456	282	130	17	0	0	363	968	24					
11	0	0	0	0	0	0	23	194	369	529	691	809	947	1002	947	745	439	306	267	303	108	5	0	0	320	1002	24					
12	0	0	0	0	0	0	38	108	158	302	511	719	912	953	949	883	756	664	488	309	144	17	0	0	330	953	24					
13	0	0	0	0	0	0	11	73	153	259	283	172	71	63	114	225	518	662	489	130	46	51	0	0	138	662	24					
14	0	0	0	0	0	0	68	147	153	302	281	PF	266	498	534	544	492	334	348	249	149	16	0	0	190	544	23					
15	0	0	0	0	0	0	23	141	371	548	704	825	921	959	966	910	803	665	500	319	120	12	0	0	366	966	24					
16	0	0	0	0	0	0	4	27	67	140	313	574	428	410	697	462	197	361	351	247	56	9	0	0	181	697	24					
17	0	0	0	0	0	0	7	24	69	187	581	528	611	816	926	760	443	632	493	316	150	20	0	0	273	926	24					
18	0	0	0	0	0	0	45	183	356	501	631	682	700	628	656	880	824	684	515	312	124	16	0	0	322	880	24					
19	0	0	0	0	0	0	22	193	372	550	712	847	938	955	979	919	821	678	511	330	160	20	0	0	375	979	24					
20	0	0	0	0	0	0	43	196	370	547	713	824	927	965	966	908	809	631	466	253	162	17	0	0	367	966	24					
21	0	0	0	0	0	0	26	169	357	528	676	645	451	202	585	58	350	615	323	346	125	11	0	0	228	676	24					
22	0	0	0	0	0	0	44	198	370	553	704	837	896	572	814	660	391	395	149	306	138	20	0	0	294	896	24					
23	0	0	0	0	0	0	51	202	361	547	696	854	865	943	992	880	646	499	236	50	6	0	0	0	326	992	24					
24	0	0	0	0	0	0	58	213	374	551	417	441	504	236	328	368	366	506	431	277	152	21	0	0	218	551	24					
25	0	0	0	0	0	0	23	55	130	288	231	364	252	282	375	544	303	448	224	202	169	20	0	0	163	544	24					
26	0	0	0	0	0	0	36	185	341	499	608	526	528	709	814	842	757	625	294	298	166	21	0	0	302	842	24					
27	0	0	0	0	0	0	37	190	364	512	711	791	628	677	661	622	611	669	444	324	172	21	0	0	310	791	24					
28	0	0	0	0	0	0	37	185	351	485	468	825	867	800	978	876	811	555	410	182	28	14	0	0	328	978	24					
29	0	0	0	0	0	1	24	114	113	199	501	719	861	864	880	838	762	577	462	278	113	13	0	0	305	880	24					
30	0	0	0	0	0	0	17	122	288	483	647	791	PF	903	637	672	712	145	93	190	45	8	0	0	250	903	23					
Hour Avg.:	0	0	0	0	0	0	33	139	266	416	555	651	668	685	719	673	589	502	361	248	113	15	0	0								
Hour Max.:	0	0	0	0	0	1	68	213	379	561	727	854	959	1002	992	929	826	684	515	346	172	51	0	0								
Readings	30	30	30	30	30	30	30	30	30	30	30	28	28	29	30	30	29	29	30	30	30	30	30	30								
Monthly Avg.:	273 W/m2		Standard Deviation:				315.1				Data Capture:				99.0 %												Total Valid Hours =				713	
System Codes:	NA - Not Available =		3				AUD - Audit =				0				ACAL - Auto Cal =				0													
	RNG - Range =		0				M&R - Maintenance & Repair =				0				INOP - InOperative =				0													
	Cal - Calibration =		0				MCAL - Manual Calibration =				0				PF - Power Fail =				4													
	MISS - Data Not Collected =		0																													

**Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**Rain Fall (mm)
(One Hour Averages)**

June 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.1	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	NA	NA	1.7	22
2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	9
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	24
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.5	24
6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.4	24
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	24
8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9	24
10	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	24
11	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	24
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	24
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	24
14	0.3	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	24
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	24
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
19	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	24
20	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	24
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.8	24
22	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	24
23	0.0	0.0	0.0	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	4.8	2.0	0.0	11.5	24
24	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	1.5	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	24
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	24
27	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24
28	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	24
29	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.9	24
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.5	0.0	0.0	0.0	0.0	0.0	2.5	24
Hour Avg.:	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.1		
Hour Max.:	0.3	1.0	0.0	2.1	0.7	0.5	0.5	0.3	0.2	0.3	0.2	0.3	0.6	0.2	0.4	7.0	0.6	1.8	0.5	0.2	1.8	4.8	2.0	1.3		
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	28	28		

Monthly Total: 38.0 mm

Data Capture: 94.3 %

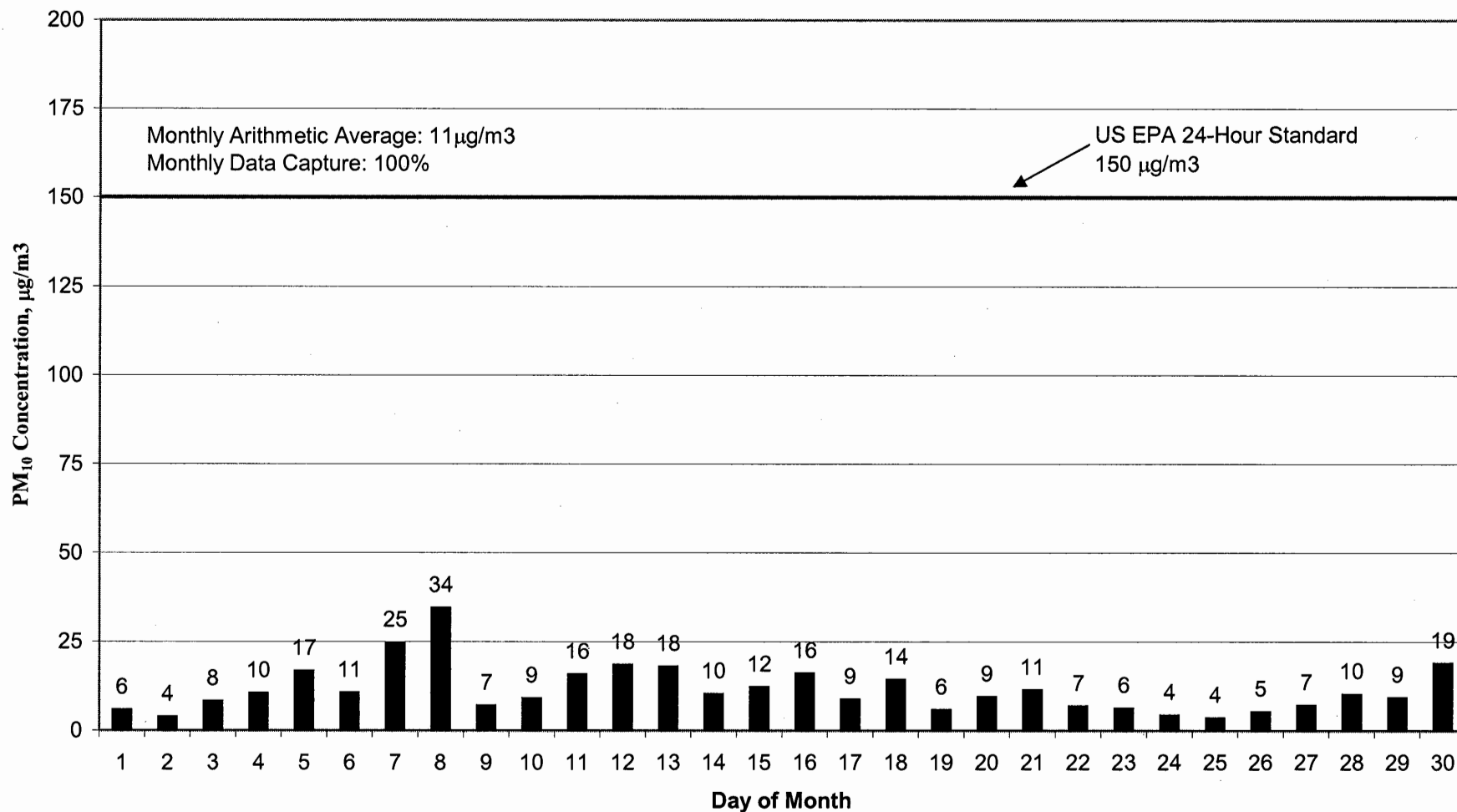
Total Valid Hours = 679

System Codes: NA - Not Available = 41
 RNG - Range = 0
 Cal - Calibration = 0
 MISS - Data Not Collected = 0

AUD - Audit = 0
 M&R - Maintenance & Repair = 0
 MCAL - Manual Calibration = 0

ACAL - Auto Cal = 0
 INOP - InOperative = 0
 PF - Power Fail = 0

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
JUNE 2004



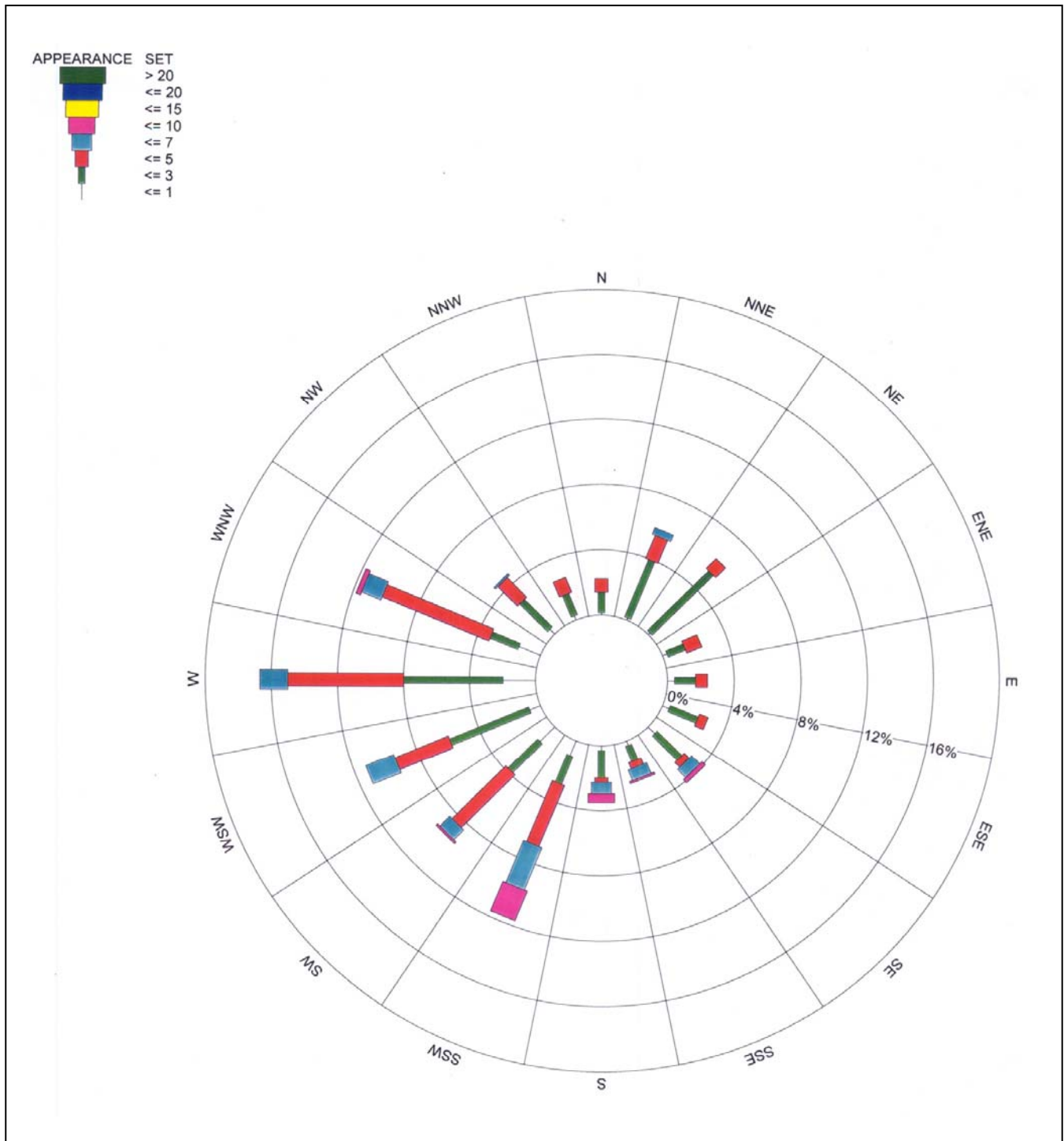


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 3.22847

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
JUNE 2004**

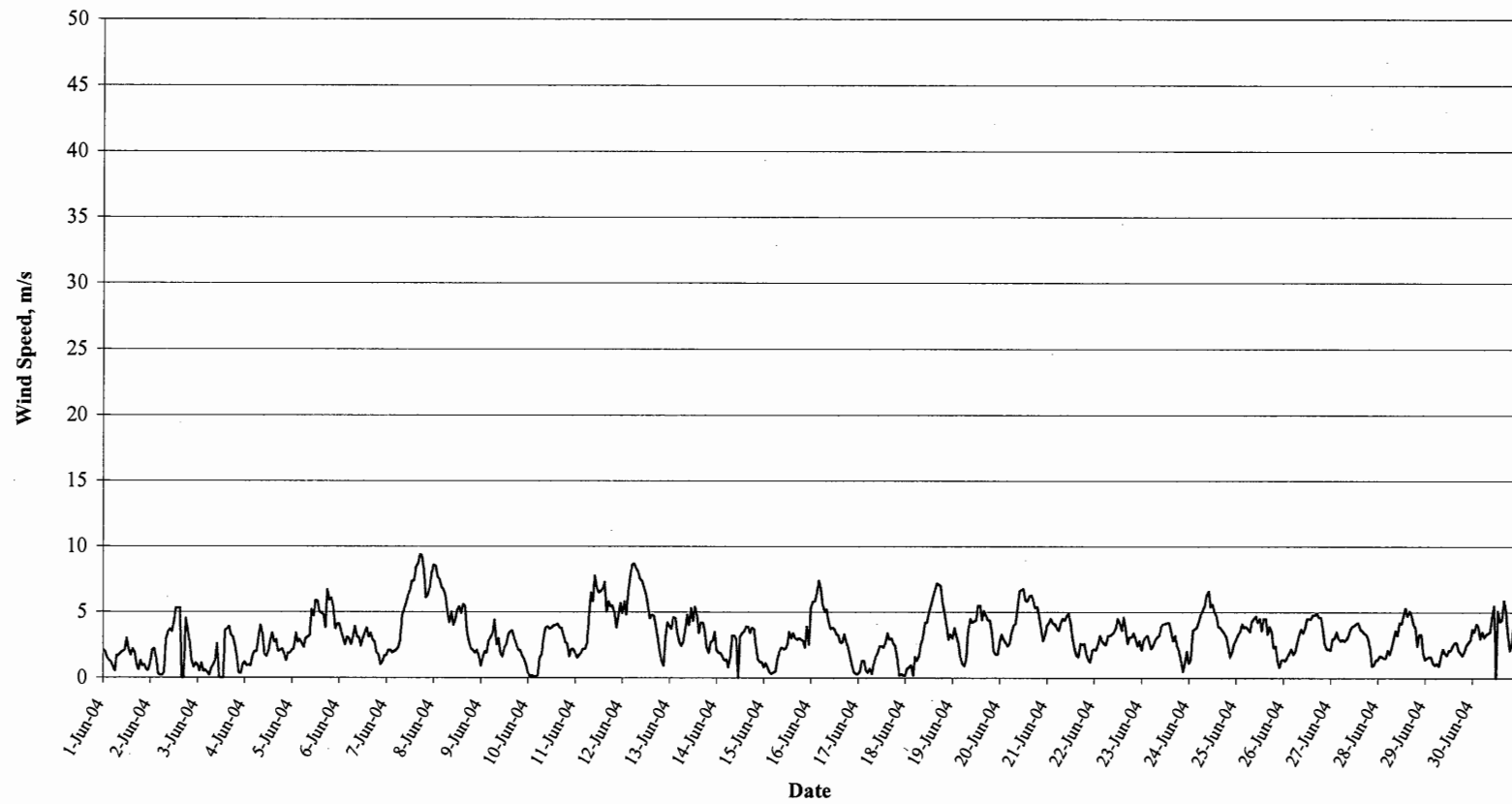


Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
JUNE 2004

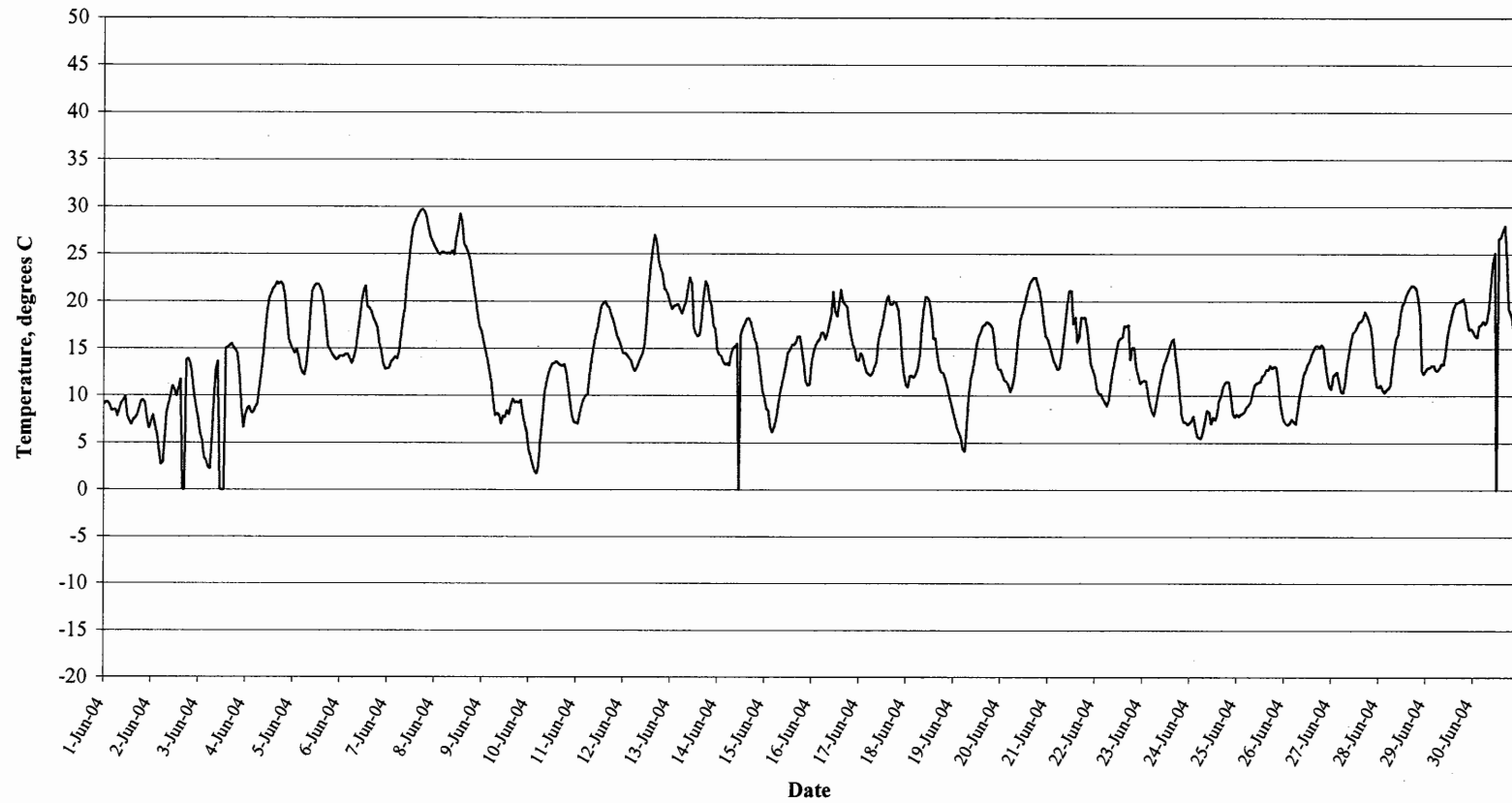


**Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
JUNE 2004**

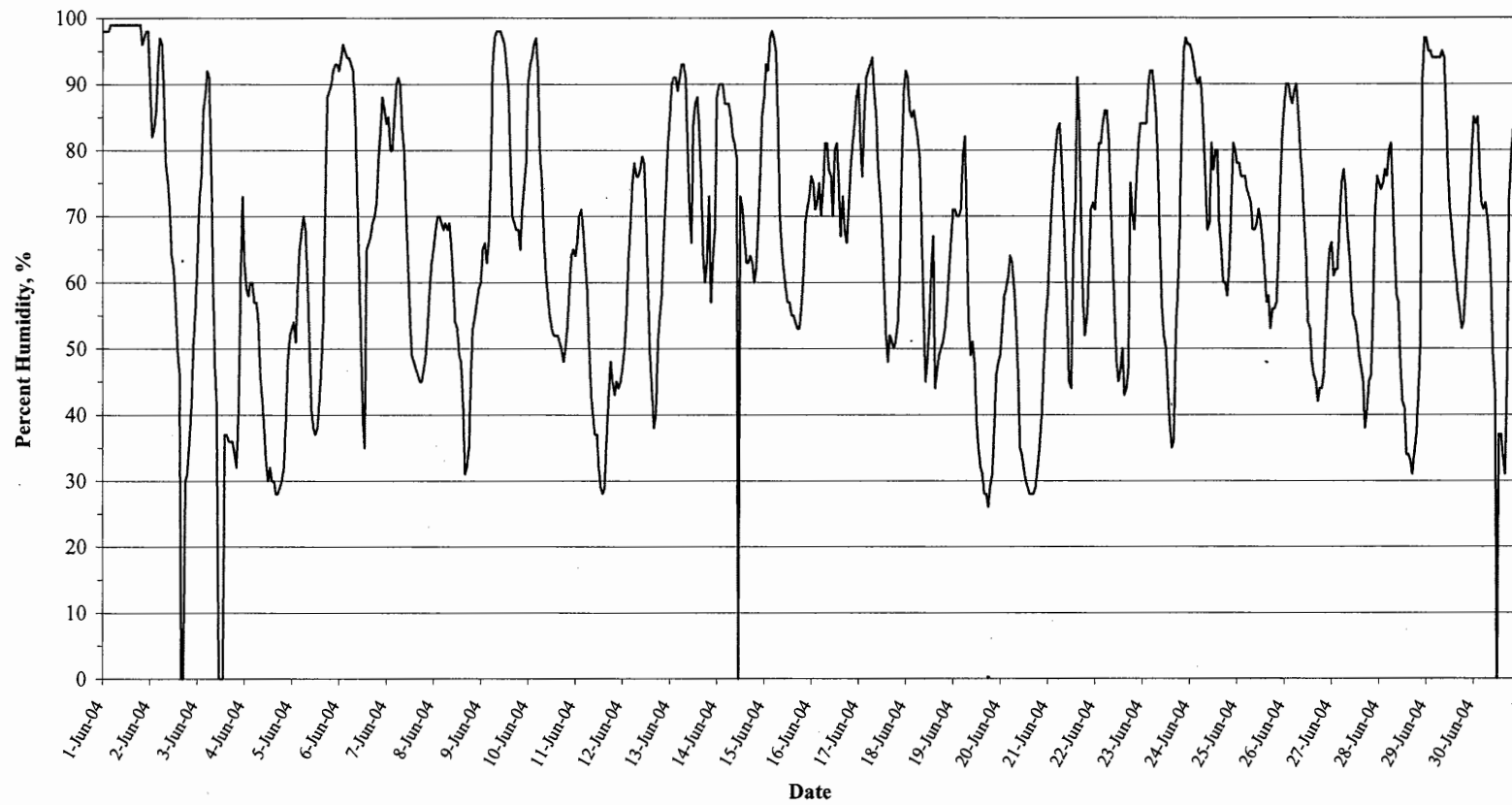


**Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
JUNE 2004**

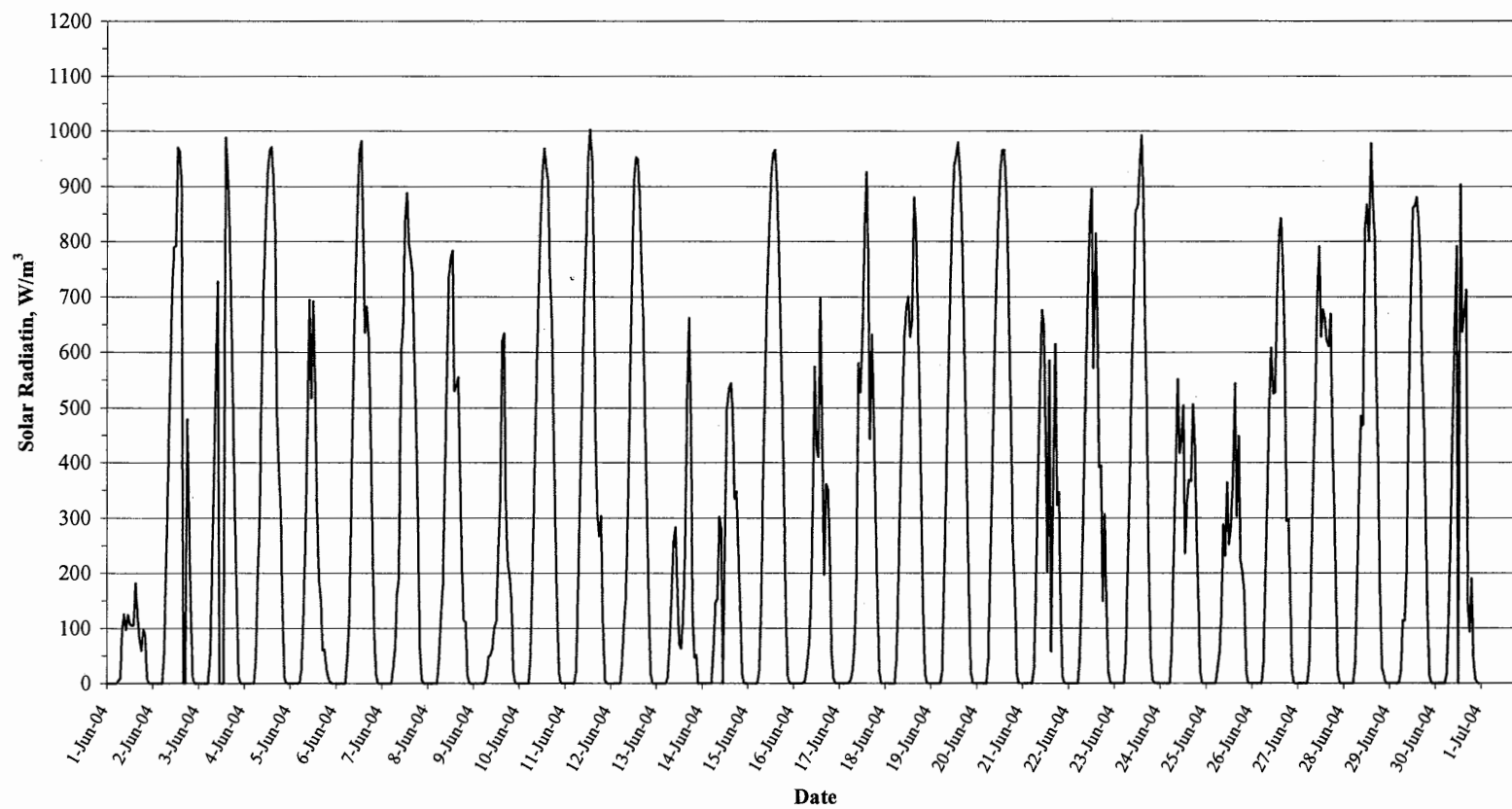
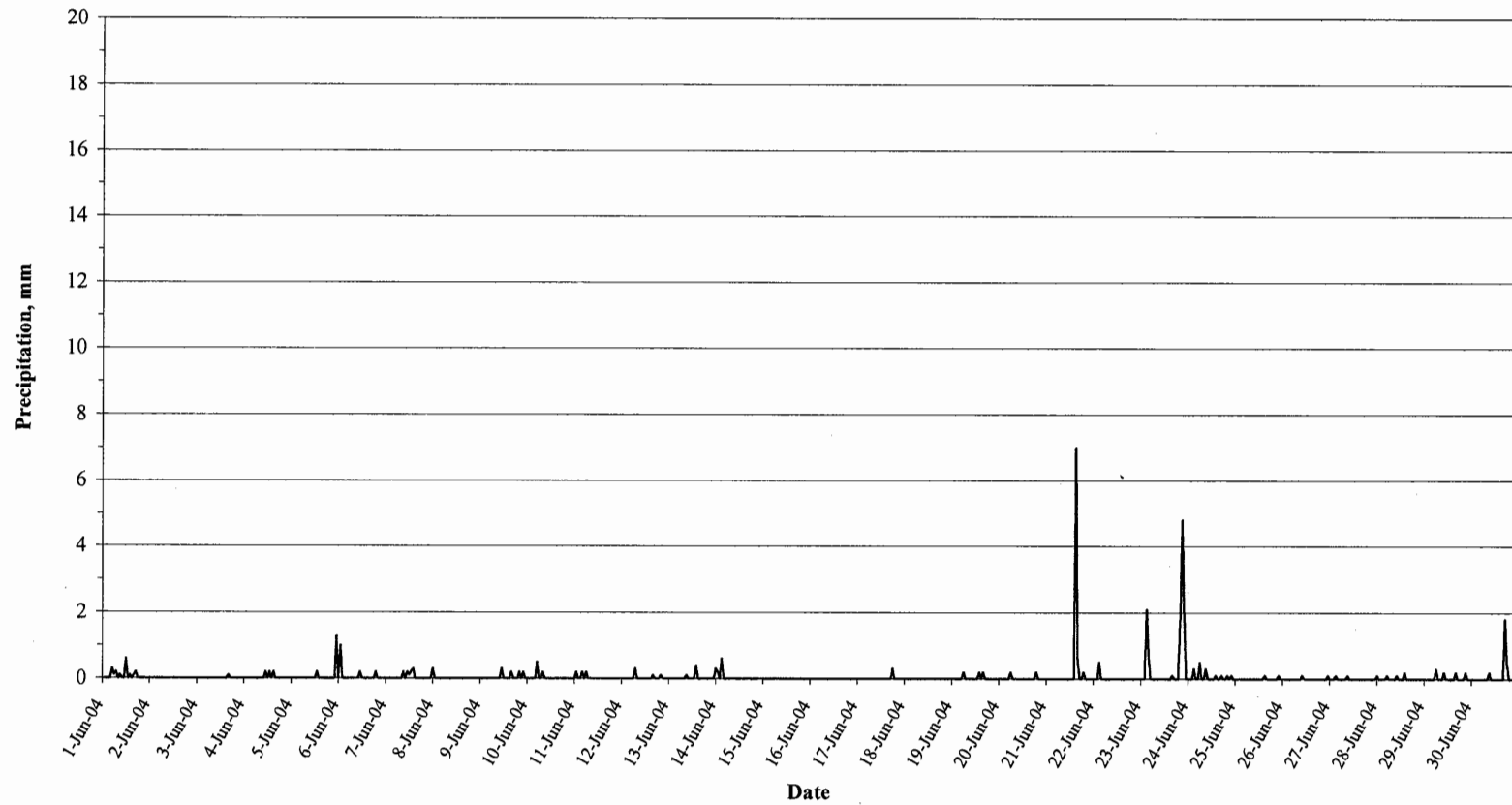


Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
JUNE 2004



Appendix B

July 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
July 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	37	µg/m ³	18-Jul-04
Second Maximum 24-Hour (Daily) Concentration ² :	34	µg/m ³	28-Jul-04
Monthly Data Collection Efficiency:	99.9	%	
Monthly Arithmetic Average:	20	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - July 2004)	16	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SSW
Average Wind Direction Horizontal Deviation:	22 degrees
Average Wind Speed:	2.4 m/s
Average Temperature:	16.9 °C
Average Relative Humidity:	75 %
Average Solar Radiation:	225 W/m ²
Total Rain Fall:	45.3 mm
Monthly Data Collection Efficiency:	99.3 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	24.8 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	31.6 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

**Monthly average was not calculated in annual average due to data capture being below 60%.

PM₁₀ (µg/m³)
(One Hour Averages)

July 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
	1	8	10	11	12	8	5	4	103	0	0	0	0	0	0	2	7	6	26	5	7	12	13	21	23	12	103	24
2	12	10	5	3	4	7	10	4	3	4	2	50	32	10	11	9	6	10	21	20	21	27	26	23	14	50	24	
3	17	14	12	39	14	11	9	8	4	6	9	11	14	15	14	13	51	84	24	56	57	58	50	42	26	84	24	
4	134	44	44	32	29	37	35	34	27	28	24	26	11	13	16	14	9	8	12	12	13	15	9	3	26	134	24	
5	3	3	2	7	10	7	0	1	3	1	1	0	0	0	0	0	2	2	2	10	13	11	13	13	4	13	24	
6	12	10	5	4	3	2	2	6	6	1	2	6	7	8	9	9	8	9	9	0	0	14	10	8	6	14	24	
7	10	2	6	7	2	3	3	0	0	5	23	LF	7	1	1	21	3	0	0	0	0	0	0	238	14	238	23	
8	0	0	0	0	0	1	2	0	0	2	0	2	8	6	9	12	6	5	4	6	11	10	12	22	5	22	24	
9	20	14	13	9	5	9	11	7	3	0	0	9	7	10	11	9	10	9	6	12	16	26	19	20	11	26	24	
10	19	31	21	16	16	21	12	20	14	19	24	20	14	21	21	19	16	13	20	36	35	30	38	41	22	41	24	
11	35	30	19	22	25	22	27	25	27	26	23	27	26	18	20	0	24	26	41	26	21	24	25	29	24	41	24	
12	26	25	37	27	14	23	22	22	22	23	23	23	23	23	28	19	12	14	17	15	15	31	42	31	23	42	24	
13	29	31	31	26	23	17	19	11	12	13	12	16	14	5	1	22	27	10	10	12	17	22	24	22	18	31	24	
14	17	14	13	12	13	13	13	11	7	5	5	9	9	12	14	11	24	18	20	24	29	27	33	28	16	33	24	
15	21	29	21	22	21	22	18	20	13	16	16	13	14	18	21	17	22	18	32	31	42	55	36	28	24	55	24	
16	34	40	32	47	227	29	18	19	20	14	11	7	7	11	10	4	2	6	10	10	13	17	19	17	26	227	24	
17	17	22	18	13	14	15	20	11	12	13	13	11	11	13	16	18	17	17	16	21	22	111	67	45	23	111	24	
18	65	19	34	21	27	13	11	29	25	200	25	23	19	22	41	30	40	24	27	33	52	39	39	33	37	200	24	
19	35	30	30	34	33	32	28	24	28	26	21	21	36	9	10	12	13	26	23	27	15	37	39	23	26	39	24	
20	31	25	11	36	41	23	18	19	18	20	17	13	6	2	5	11	14	10	45	18	22	22	40	30	21	45	24	
21	22	33	37	25	20	34	33	42	50	59	43	41	38	31	33	17	31	17	15	33	28	30	37	33	33	59	24	
22	30	25	19	53	11	10	7	9	10	6	8	12	5	1	0	1	8	7	8	13	12	11	35	23	14	53	24	
23	28	16	9	121	44	17	70	17	14	2	0	0	0	5	199	7	5	2	0	0	6	46	58	39	29	199	24	
24	14	10	7	6	9	9	5	2	2	0	0	0	6	5	0	1	1	2	6	6	12	65	131	27	14	131	24	
25	22	10	8	4	6	6	3	6	2	1	2	0	0	7	20	24	16	21	24	37	32	43	39	52	16	52	24	
26	27	19	20	31	20	14	26	20	30	50	16	16	21	24	26	23	15	18	20	26	29	37	148	48	30	148	24	
27	19	32	15	75	29	21	22	62	23	24	19	18	18	21	34	67	27	25	30	34	31	34	76	43	33	76	24	
28	37	26	31	74	28	25	38	30	42	38	32	20	40	19	29	33	11	34	38	39	44	37	32	35	34	74	24	
29	30	32	38	37	26	31	26	33	31	27	32	28	28	25	18	16	16	14	14	20	24	14	19	22	25	38	24	
30	20	24	16	15	15	15	14	10	8	6	2	5	5	5	12	14	12	11	11	16	15	12	12	12	12	24	24	
31	19	14	11	8	4	2	7	6	7	2	0	0	7	5	0	4	6	9	6	7	13	20	15	20	8	20	24	
Hour Avg.:	26	21	19	27	24	16	17	20	15	21	13	14	14	12	20	15	15	16	17	20	22	30	38	35				
Hour Max.:	134	44	44	121	227	37	70	103	50	200	43	50	40	31	199	67	51	84	45	56	57	111	148	238				
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31				
Monthly Avg.:	20.2 µg/m³		Standard Deviation:				22.2		Data Capture:		99.9 %														Total Valid Hours =		743	
System Codes:	NA - Not Available =		0				AUD - Audit =		0				ACAL - Auto Cal =		0													
	RNG - Range =		0				M&R - Maintenance & Repair =		0				INOP - InOperative =		0													
	Cal - Calibration =		0				MCAL - Manual Calibration =		0				LF - Power Fail =		1													
	MISS - Data Not Collected =		0				PF - Low Flow =		0																			

Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)

July 2004																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	26	6	290	268	275	281	271	254	316	344	349	350	336	2	27	17	17	16	22	23	31	48	113	131	24
2	134	181	152	195	120	179	208	166	145	142	146	155	124	95	99	119	162	168	178	172	171	175	181	187	24
3	185	187	173	201	195	200	197	196	197	201	201	193	190	199	198	204	148	110	116	188	195	184	181	175	24
4	156	132	127	124	157	155	153	346	13	37	69	72	50	37	23	30	6	14	7	356	353	343	352	355	24
5	358	2	4	2	2	358	2	356	2	353	355	9	15	10	8	29	24	22	35	55	96	80	355	141	24
6	120	153	165	113	106	139	133	156	53	33	45	57	68	62	30	36	47	60	64	62	54	50	36	34	24
7	31	13	354	358	357	346	347	353	354	NA	347	344	345	343	338	334	335	334	332	320	325	331	329	330	23
8	330	340	347	345	355	350	339	339	345	355	1	354	4	4	5	356	360	13	2	357	303	224	225	259	24
9	211	212	254	254	189	254	265	212	164	184	165	158	178	179	175	202	218	235	328	46	45	54	174	200	24
10	200	199	214	230	241	251	245	245	263	256	273	304	323	38	39	33	45	52	70	81	91	130	151	171	24
11	197	195	209	205	208	207	270	205	213	217	223	224	220	206	162	360	9	91	157	176	193	197	208	163	24
12	180	224	230	238	264	264	209	253	258	305	308	NA	355	NA	342	13	22	29	39	57	72	117	190	212	22
13	185	229	237	232	242	257	261	253	249	229	244	206	213	215	246	270	286	301	298	298	295	321	299	315	24
14	310	326	328	327	322	334	331	332	344	347	351	358	355	335	338	326	329	330	331	327	317	314	311	307	24
15	253	269	263	255	251	192	239	245	267	293	308	314	323	322	317	323	335	316	307	301	283	249	239	344	24
16	270	235	278	281	256	219	206	267	287	338	334	341	5	353	1	358	6	13	13	15	4	2	358	356	24
17	349	347	350	350	4	357	20	349	329	39	47	37	42	41	39	34	47	6	10	10	26	26	27	190	24
18	190	201	190	262	261	261	261	229	207	225	224	236	197	177	194	224	200	18	28	193	199	198	201	24	
19	214	213	227	230	242	245	249	232	228	233	237	NA	262	282	297	314	319	315	322	335	20	27	104	319	23
20	251	223	268	253	280	291	32	336	326	44	42	78	97	82	72	79	89	104	122	102	89	130	169	158	24
21	174	186	191	193	194	195	195	196	196	195	200	199	210	215	215	210	213	222	230	254	252	219	238	251	24
22	238	243	261	275	278	276	290	315	353	357	357	352	354	350	336	343	339	359	14	14	12	21	354	245	24
23	259	260	266	280	267	265	245	229	230	241	271	326	309	15	30	24	4	341	334	335	328	297	269	198	24
24	208	221	210	209	221	220	184	179	196	248	272	276	275	345	38	70	65	79	88	87	118	133	165	168	24
25	164	205	222	229	242	244	246	242	247	252	256	257	257	230	265	256	296	282	269	270	267	229	246	245	24
26	246	246	244	235	243	239	237	243	247	284	332	330	358	355	19	#####	26	24	25	35	73	150	253	256	23
27	256	256	243	233	196	186	205	172	141	172	160	61	38	42	53	38	52	26	49	99	124	149	171	177	24
28	199	210	231	248	249	239	242	236	232	232	231	219	221	206	215	205	213	203	201	199	198	190	194	197	24
29	203	204	206	209	208	212	208	205	197	198	205	218	214	215	198	223	313	30	1	4	10	4	259	222	24
30	220	239	201	248	258	255	244	231	239	223	233	243	286	304	26	60	69	56	93	81	73	97	122	129	24
31	186	283	20	26	17	7	348	345	328	326	317	307	285	287	300	291	287	297	303	298	269	253	205	259	24
Readings	31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31	

Data Capture: 99.3 %

Total Valid Hours = 739

System Codes:		Hours			Hours			Hours
NA	- Not Available =	4	AUD	- Audit =	0	ACAL	- Auto Cal =	0
RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	0
MISS	- Data Not Collected =	0						

July 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Total Readings			
DAY																													
1	14	45	37	10	11	1	12	13	51	19	25	27	36	36	25	18	17	18	15	26	15	18	26	16	22	24			
2	24	24	23	55	36	43	0	15	15	15	18	33	52	35	28	36	41	32	22	16	13	11	14	15	26	24			
3	16	17	15	17	16	13	11	12	14	16	18	19	22	32	27	41	24	27	23	13	13	13	12	43	20	24			
4	40	9	13	12	13	19	25	33	15	15	24	28	18	18	12	13	16	14	15	13	13	14	13	13	17	24			
5	15	14	14	14	14	14	14	13	16	15	17	19	19	32	30	24	30	44	26	23	35	26	1	68	22	24			
6	41	42	79	28	44	22	32	38	49	32	16	20	27	27	14	17	17	24	22	22	20	20	16	14	28	24			
7	14	12	15	14	14	15	18	16	16	NA	17	17	17	16	19	20	20	20	20	23	21	20	21	20	18	23			
8	21	16	14	15	13	14	16	18	15	15	14	16	14	17	16	20	21	18	18	16	12	45	33	21	18	24			
9	47	45	13	33	18	29	27	34	36	42	19	25	23	28	31	24	23	50	90	24	18	16	38	15	31	24			
10	11	13	13	16	14	14	14	14	22	19	30	50	73	66	21	20	29	30	20	22	24	15	12	13	24	24			
11	13	22	14	13	13	14	73	15	15	17	16	16	43	58	30	67	23	26	28	19	12	19	35	66	28	24			
12	16	31	13	17	14	13	48	33	14	24	33	NA	32	NA	31	19	24	21	25	26	26	33	47	16	25	22			
13	18	14	15	22	11	11	15	12	21	18	21	16	23	16	25	30	24	25	25	26	22	25	24	27	20	24			
14	24	23	21	22	22	21	19	19	19	17	18	16	18	22	20	26	24	23	22	21	25	24	25	25	22	24			
15	37	27	17	12	14	38	26	17	22	23	25	28	30	27	31	30	27	29	26	26	17	8	14	47	25	24			
16	56	44	30	23	52	49	54	71	50	16	20	17	14	14	15	15	15	14	15	12	14	12	11	27	24				
17	10	11	11	9	9	8	15	51	58	22	25	22	32	31	28	25	28	23	19	13	10	5	21	30	22	24			
18	47	39	28	0	0	0	1	0	40	24	24	25	29	46	28	26	36	31	25	35	14	9	9	12	22	24			
19	12	12	15	14	13	13	14	16	17	17	21	NA	28	31	32	31	30	26	26	22	31	34	59	73	26	23			
20	13	11	14	11	16	41	23	74	70	28	27	22	29	42	33	25	24	24	21	27	18	18	9	12	26	24			
21	14	15	13	13	13	13	13	13	13	15	14	14	17	21	18	17	16	17	18	21	15	14	18	13	15	24			
22	12	15	20	17	17	17	22	26	19	15	16	16	19	17	20	21	18	21	17	14	10	10	50	1	18	24			
23	7	1	8	3	3	2	1	26	24	24	34	32	42	33	20	22	25	21	23	20	20	26	15	34	19	24			
24	28	15	22	14	0	6	6	2	22	27	33	49	90	48	66	29	47	35	29	30	21	19	7	7	27	24			
25	15	15	14	15	15	13	12	12	16	20	20	25	34	54	48	36	41	39	24	20	23	13	6	6	22	24			
26	10	9	14	13	12	10	8	11	17	27	28	41	23	25	23	PF	20	21	15	15	24	44	8	0	18	23			
27	0	0	16	8	12	2	78	24	4	47	45	49	21	20	23	22	26	15	20	23	14	14	20	12	21	24			
28	13	9	14	11	11	12	12	14	17	16	18	19	23	18	22	22	20	15	16	15	14	11	14	13	15	24			
29	15	13	14	14	13	14	14	14	12	13	14	16	16	19	16	48	54	29	18	17	8	21	31	20	19	24			
30	15	23	28	15	10	28	37	44	18	24	25	31	31	55	17	36	30	22	22	24	24	20	18	19	26	24			
31	62	23	54	17	23	23	13	13	21	23	23	27	24	26	28	26	30	26	29	25	16	19	22	14	25	24			
Hour Avg.:	21.9	19.6	20.4	16.0	15.7	17.2	21.7	23.0	24.5	21.5	22.5	25.3	29.6	31.0	25.7	26.9	26.5	25.2	23.6	21.0	18.1	19.3	21.0	22.5					
Readings	31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31					
Monthly Avg.:	22 °	Standard Deviation:					13.0	Data Capture:					99.3 %	Hours					Total Valid Hours =					739					
System Codes:	NA	- Not Available =					4	AUD					- Audit =					0	ACAL					- Auto Cal =					0
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					1
	MISS	- Data Not Collected =					0																						

Table 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED - m/s
(One Hour Averages)

July 2004																																																																																				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings																																																									
DAY	1	1.8	0.3	0.3	0.7	0.6	0.5	0.6	0.5	1.9	3.3	3.6	3.4	2.8	3.2	3.5	3.8	3.7	3.9	4.0	3.2	2.5	1.0	1.2	0.5	2.1	4.0	24																																																								
	2	0.4	0.8	0.9	0.3	0.3	0.7	0.1	0.8	1.5	3.0	3.3	2.5	2.2	2.6	2.9	2.8	3.0	3.1	3.4	3.4	3.3	3.2	3.3	3.6	2.1	3.6	24																																																								
	3	3.0	2.7	2.1	3.3	3.4	3.2	4.0	4.2	4.0	4.4	4.3	4.2	4.0	2.8	2.7	2.2	2.5	2.3	1.9	4.3	3.2	3.1	2.5	1.7	3.2	4.4	24																																																								
	4	1.3	1.9	1.6	1.9	1.2	1.0	0.8	0.5	1.8	2.2	2.3	2.9	2.9	2.9	3.5	3.6	3.7	3.6	4.6	4.5	3.9	4.4	6.1	5.7	2.9	6.1	24																																																								
	5	4.9	5.0	4.7	4.8	4.0	3.6	4.0	3.5	3.1	3.1	3.5	3.8	3.9	2.8	2.9	3.0	2.4	1.9	2.5	2.2	1.2	1.0	0.1	0.8	3.0	5.0	24																																																								
	6	0.8	0.5	0.6	1.0	0.6	1.3	0.8	0.5	1.4	0.9	1.0	1.2	1.4	1.6	2.4	2.6	3.7	2.8	2.9	3.0	2.5	2.5	2.6	3.0	1.7	3.7	24																																																								
	7	3.5	3.4	3.2	2.6	3.6	3.7	3.8	4.8	5.5	NA	5.1	4.5	4.9	4.6	4.1	3.7	3.8	4.0	3.5	3.2	2.8	3.4	3.1	3.1	3.8	5.5	23																																																								
	8	3.0	4.1	4.1	3.2	3.1	2.5	2.6	2.0	2.9	3.5	3.7	3.5	3.5	3.6	3.5	3.3	3.8	3.6	2.7	1.9	0.8	0.2	0.8	1.0	2.8	4.1	24																																																								
	9	0.5	0.4	0.6	0.6	0.3	0.7	0.4	0.2	0.3	1.3	3.3	3.4	3.6	3.1	2.9	3.2	3.2	2.6	2.2	2.4	1.5	0.3	1.1	2.0	1.7	3.6	24																																																								
	10	2.5	2.7	3.2	2.8	2.5	2.2	2.0	2.1	2.7	3.1	2.5	1.9	1.2	1.9	3.5	3.0	2.4	1.9	2.0	2.1	1.8	2.1	2.2	2.6	2.4	3.5	24																																																								
	11	2.7	4.2	5.2	4.9	5.1	4.4	2.2	3.1	4.3	3.6	3.7	3.3	1.9	1.4	1.9	2.5	2.8	2.3	3.4	2.8	2.6	2.5	2.0	0.8	3.1	5.2	24																																																								
	12	1.9	1.5	1.7	1.2	0.2	0.8	0.6	1.1	0.8	1.9	1.8	NA	2.3	NA	2.7	3.2	2.8	2.5	2.0	1.8	0.9	0.6	0.7	1.1	1.6	3.2	22																																																								
	13	1.1	1.6	1.3	1.5	1.9	1.7	1.5	1.5	1.5	2.7	3.5	2.7	3.7	5.5	5.1	3.2	2.4	4.3	4.7	3.9	3.5	3.0	2.6	1.9	2.8	5.5	24																																																								
	14	2.1	2.6	2.7	3.0	3.2	3.0	2.5	2.3	2.7	3.7	4.4	4.7	5.2	4.5	5.0	3.9	4.3	4.4	3.9	3.0	2.2	1.9	1.5	1.2	3.2	5.2	24																																																								
	15	1.0	0.8	1.1	1.5	1.3	0.8	0.8	0.6	1.2	1.9	2.5	2.9	3.2	3.2	3.3	3.5	3.8	3.1	3.1	2.5	1.8	1.3	0.7	0.2	1.9	3.8	24																																																								
	16	0.6	0.8	0.8	2.1	1.1	1.1	0.9	1.0	0.6	2.1	1.8	2.5	3.2	3.3	4.5	4.0	3.7	3.3	3.4	3.3	2.7	2.0	2.1	1.9	2.2	4.5	24																																																								
	17	1.7	2.2	1.8	1.5	1.9	2.0	1.1	0.5	1.1	2.0	2.2	2.9	2.7	3.0	3.0	2.8	2.6	2.3	2.2	1.8	1.3	0.2	0.2	0.4	1.8	3.0	24																																																								
	18	0.4	0.4	0.2	0.0	0.0	0.1	0.1	0.0	0.2	0.7	2.1	2.5	1.8	1.8	2.3	2.5	2.5	2.1	2.3	1.1	1.7	2.3	2.4	2.9	1.4	2.9	24																																																								
	19	2.6	2.1	2.4	2.4	2.5	2.5	1.9	1.9	2.1	2.4	2.9	NA	3.1	2.8	2.5	2.4	2.6	1.8	3.0	2.4	1.6	1.2	0.7	0.5	2.2	3.1	23																																																								
	20	0.2	0.3	0.5	0.2	0.2	0.2	0.5	0.6	0.8	1.0	1.8	1.9	2.0	1.8	2.2	2.9	2.7	2.7	2.7	1.9	1.8	2.2	2.6	2.0	1.5	2.9	24																																																								
	21	2.8	3.8	4.5	4.5	4.1	4.3	5.0	5.1	5.8	5.6	5.7	7.2	6.0	3.9	5.1	4.7	4.7	5.0	3.7	3.8	3.2	1.9	2.1	2.3	4.4	7.2	24																																																								
	22	1.7	2.1	2.5	2.9	3.6	4.7	4.0	3.5	4.3	4.5	3.3	3.4	3.7	4.1	3.5	3.3	2.9	2.2	3.1	3.3	1.8	1.9	0.6	0.3	3.0	4.7	24																																																								
	23	0.6	0.4	0.8	1.1	0.9	0.3	0.3	0.3	0.7	1.9	2.3	3.0	2.5	3.1	2.7	3.0	4.2	4.0	3.4	2.8	1.5	0.8	1.2	0.8	1.8	4.2	24																																																								
	24	0.6	0.4	0.4	0.1	0.0	0.1	0.5	0.4	0.3	1.4	2.1	1.8	1.6	2.0	1.8	2.3	2.3	2.5	2.4	2.0	1.3	1.2	1.2	1.8	1.3	2.5	24																																																								
	25	1.1	1.6	2.2	1.8	2.3	3.0	2.6	2.1	1.7	2.7	3.1	3.3	3.2	2.6	2.4	2.8	2.3	2.6	2.8	2.3	1.5	0.4	0.6	0.9	2.2	3.3	24																																																								
	26	1.0	1.2	1.5	1.7	2.0	1.7	1.7	1.6	1.0	1.7	1.7	2.1	2.6	2.8	3.0	PF	3.1	2.5	2.1	1.7	0.7	0.3	0.2	0.0	1.6	3.1	23																																																								
	27	0.0	0.0	0.6	0.3	0.5	0.2	0.3	0.7	0.1	0.4	1.0	1.4	2.7	2.8	2.8	3.1	2.7	2.7	2.0	1.7	1.6	1.2	0.9	1.1	1.3	3.1	24																																																								
	28	1.9	1.7	0.9	1.6	2.1	2.1	2.0	2.4	2.5	3.3	4.2	5.1	4.9	5.1	4.7	5.2	4.7	4.3	5.3	4.6	3.5	3.0	3.4	5.3	3.5	5.3	24																																																								
	29	5.5	6.4	5.8	5.6	5.8	5.7	4.6	4.1	3.9	4.7	4.8	4.5	4.2	3.7	4.6	4.4	2.5	1.8	2.6	1.8	0.5	0.8	1.0	1.2	3.8	6.4	24																																																								
	30	1.5	1.4	0.9	1.0	0.9	0.9	0.7	0.9	1.4	1.8	2.2	2.6	2.3	2.3	3.5	2.3	2.4	3.1	2.2	2.0	1.6	1.3	1.6	1.6	1.8	3.5	24																																																								
	31	1.3	2.1	1.2	1.9	1.2	1.5	2.1	2.3	2.0	2.8	2.4	2.0	2.4	3.0	2.9	2.8	3.1	2.5	2.5	1.9	0.9	0.9	0.5	0.9	2.0	3.1	24																																																								
Hour Avg.:	1.7	1.9	1.9	2.0	1.9	2.0	1.8	1.8	2.1	2.6	3.0	3.1	3.1	3.1	3.3	3.2	3.1	3.0	3.0	2.7	2.0	1.7	1.7	1.7																																																												
Hour Max.:	5.5	6.4	5.8	5.6	5.8	5.7	5.0	5.1	5.8	5.6	5.7	7.2	6.0	5.5	5.1	5.2	4.7	5.0	5.3	4.6	3.9	4.4	6.1	5.7																																																												
Readings	31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31																																																												
Monthly Avg.:	2.4 m/s		Standard Deviation:				1.4		Data Capture:				99.3 %				Total Valid Hours =													739																																																						
System Codes:																											Hours																												Hours																												Hours	
	NA		- Not Available =																								4		AUD		- Audit =																								0		ACAL		- Auto Cal =																								0	
	RNG		- Range =																								0		M&R		- Maintenance & Repair =																								0		INOP		- InOperative =																								0	
	Cal		- Calibration =																								0		MCAL		- Manual Calibration =																								0		PF		- Power Fail =																								1	
	MISS		- Data Not Collected =																								0																																																									

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

July 2004																																	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Daily Avg.	Daily Max.	Total Readings							
DAY	1	12.4	11.4	9.5	8.1	7.3	6.5	6.6	8.5	13.1	14.4	15.1	15.7	16.7	17.2	17.3	17.1	16.9	16.8	16.2	15.6	14.7	13.0	11.0	9.6	12.9	17.3	24					
	2	8.2	7.4	8.1	8.0	6.6	5.5	6.2	8.0	13.3	15.8	17.5	19.1	20.4	20.9	21.5	22.2	23.7	23.8	23.9	23.8	23.1	20.8	18.9	18.0	16.0	23.9	24					
	3	17.3	16.6	15.7	15.2	14.9	14.9	15.3	16.2	17.7	19.7	21.9	23.2	24.1	24.9	25.6	26.3	26.7	25.6	25.3	24.8	23.8	22.8	21.1	20.1	20.8	26.7	24					
	4	19.7	19.8	19.5	19.6	18.8	17.9	16.6	16.5	16.7	16.5	16.4	16.9	15.5	14.4	13.7	13.1	12.6	12.0	11.7	9.8	9.1	8.6	8.2	7.6	14.6	19.8	24					
	5	7.4	7.1	6.9	6.5	6.5	6.5	6.3	6.2	6.2	6.3	7.1	7.8	9.0	10.1	11.3	12.0	12.8	13.7	14.0	13.3	12.4	10.8	8.7	7.7	9.0	14.0	24					
	6	7.5	7.7	7.5	8.9	8.7	7.9	8.1	8.1	10.0	9.9	10.3	10.4	11.3	11.5	10.8	10.5	10.1	9.7	9.5	9.4	9.2	8.9	8.7	8.5	9.3	11.5	24					
	7	7.9	7.6	7.5	7.9	8.0	8.1	8.1	8.5	8.7	NA	9.1	9.2	9.4	9.4	9.6	9.9	10.2	10.2	9.9	9.8	9.9	9.8	9.6	9.6	9.0	10.2	23					
	8	9.7	9.6	8.9	8.3	8.1	8.1	8.5	9.0	9.4	9.7	10.0	10.3	10.8	11.4	12.1	13.2	14.6	15.9	16.6	16.7	16.1	14.2	11.8	10.7	11.4	16.7	24					
	9	9.3	7.9	7.6	7.5	6.2	6.1	6.5	8.0	13.7	17.8	19.1	20.1	20.7	21.2	21.9	22.0	22.2	22.4	21.8	20.7	20.0	18.2	16.7	16.7	15.6	22.4	24					
	10	16.8	16.4	16.3	16.5	16.1	15.8	15.8	17.0	18.6	19.9	20.9	22.2	23.5	24.9	23.8	23.9	24.0	24.5	24.3	23.2	22.5	20.6	19.2	18.6	20.2	24.9	24					
	11	19.1	20.0	20.6	20.3	20.2	20.4	19.8	19.2	20.0	20.3	20.6	20.8	21.6	23.4	23.6	22.7	22.0	22.1	22.4	21.9	21.1	20.5	19.8	18.7	20.9	23.6	24					
	12	17.4	17.2	16.8	17.1	16.5	16.1	14.8	16.2	18.0	20.9	22.3	NA	24.5	NA	25.6	25.4	26.2	26.1	25.6	25.3	24.5	22.7	20.9	20.3	20.9	26.2	22					
	13	20.1	20.2	20.0	19.8	19.5	19.2	19.6	20.2	21.4	22.8	21.2	20.5	22.1	23.3	23.7	18.9	19.3	21.3	21.0	19.4	18.2	16.9	15.6	14.8	20.0	23.7	24					
	14	14.8	15.0	14.7	14.6	14.5	14.6	14.9	15.3	16.0	17.8	18.4	19.4	20.2	20.6	21.3	22.0	22.1	22.2	22.3	22.0	21.0	19.2	17.9	17.1	18.2	22.3	24					
	15	16.3	15.9	15.5	15.0	15.0	14.5	14.4	15.5	18.3	21.2	22.9	24.0	24.9	25.4	25.4	25.5	25.6	25.6	25.1	24.3	23.1	21.0	20.1	19.0	20.6	25.6	24					
	16	17.2	16.3	16.4	16.7	16.2	16.0	15.4	15.5	16.2	16.7	16.2	16.2	14.9	15.2	15.6	15.8	16.5	16.8	17.1	16.7	16.2	16.1	16.2	16.2	16.2	17.2	24					
	17	15.9	15.8	15.3	15.1	14.7	13.9	13.0	12.7	14.2	16.2	17.6	18.8	19.5	19.9	20.2	20.5	20.6	20.8	20.4	19.4	17.9	15.9	13.9	12.7	16.9	20.8	24					
	18	11.8	10.7	9.8	9.7	8.7	8.4	8.2	8.5	11.2	15.8	19.4	20.6	21.8	22.8	23.3	23.7	23.8	24.0	21.8	21.4	21.3	20.0	18.9	18.4	16.8	24.0	24					
	19	17.8	18.2	18.8	18.0	17.5	17.2	17.1	18.0	19.0	20.0	22.4	NA	25.1	25.9	25.7	26.2	26.3	25.5	25.3	23.6	22.8	21.0	19.1	18.0	21.2	26.3	23					
	20	17.1	16.3	15.9	14.8	14.2	13.4	14.8	15.2	15.6	16.2	15.6	16.1	16.8	19.0	20.7	20.5	20.4	21.5	22.4	22.3	20.5	18.6	18.4	18.4	17.7	22.4	24					
	21	18.7	19.5	19.9	20.0	19.7	19.8	20.0	20.3	21.3	22.4	23.7	25.9	26.4	26.5	28.3	27.5	27.1	27.8	28.5	28.6	27.9	26.2	24.9	24.0	24.0	28.6	24					
	22	23.3	22.9	23.1	22.8	21.4	19.6	18.9	18.0	15.8	14.1	13.9	14.0	13.9	14.3	14.6	14.7	14.5	14.6	15.5	15.1	14.0	12.1	10.3	8.4	16.2	23.3	24					
	23	7.6	6.7	6.0	6.1	6.0	4.8	4.2	5.5	10.2	14.7	16.4	16.7	17.2	15.1	13.2	15.0	15.8	16.0	16.1	15.7	15.1	13.3	10.5	7.8	11.5	17.2	24					
	24	7.2	6.4	6.1	5.5	4.9	3.7	3.5	5.1	10.0	14.9	16.6	17.2	17.9	18.4	18.5	18.4	19.0	19.0	18.7	17.9	17.2	14.9	12.3	11.7	12.7	19.0	24					
	25	12.4	12.1	12.3	12.4	12.3	12.3	11.9	12.7	15.4	18.2	20.1	21.0	21.7	22.6	23.4	23.9	24.2	24.5	24.4	24.3	23.4	20.9	18.7	17.1	18.4	24.5	24					
	26	16.8	16.6	16.8	16.9	16.4	16.0	16.3	16.6	18.8	21.8	23.2	24.1	24.7	25.0	25.5	PF	25.7	25.9	25.6	24.9	23.6	20.9	18.1	16.2	20.7	25.9	23					
	27	14.8	14.5	15.9	15.2	14.4	14.6	13.6	12.8	15.7	20.7	23.3	24.8	25.2	24.6	25.1	25.7	25.6	24.7	23.6	23.7	22.9	20.7	19.2	18.6	20.0	25.7	24					
	28	18.9	18.6	17.8	17.6	17.1	16.7	16.3	16.8	18.7	20.0	22.0	23.1	24.0	24.4	25.4	25.8	25.5	25.0	25.0	24.4	23.3	22.2	21.8	21.6	21.3	25.8	24					
	29	21.1	20.6	20.0	19.5	19.5	19.4	19.4	18.2	16.8	17.3	18.1	19.1	19.9	20.1	21.4	22.0	19.0	20.7	21.1	21.2	21.1	18.4	16.8	15.4	19.4	22.0	24					
	30	15.0	14.6	13.6	13.4	12.6	12.3	12.0	12.6	14.9	17.2	19.4	20.6	21.3	21.8	20.9	21.2	21.4	20.4	19.4	18.3	16.9	15.6	15.4	15.9	16.9	21.8	24					
	31	15.6	14.1	13.7	13.7	13.7	13.6	13.4	13.4	13.5	13.5	13.1	13.7	15.6	17.6	18.9	19.3	20.0	19.9	19.9	19.1	17.9	17.1	15.9	15.2	15.9	20.0	24					
Hour Avg.:	14.7	14.3	14.1	13.9	13.4	13.0	12.9	13.4	15.1	17.1	17.9	18.3	19.4	19.7	20.3	20.2	20.5	20.6	20.5	19.9	19.1	17.5	16.1	15.2									
Hour Max.:	23.3	22.9	23.1	22.8	21.4	20.4	20.0	20.3	21.4	22.8	23.7	25.9	26.4	26.5	28.3	27.5	27.1	27.8	28.5	28.6	27.9	26.2	24.9	24.0									
Readings	31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31									
Monthly Avg.:	16.9 °C	Standard Deviation:				5.5	Data Capture:				99.3 %	Total Valid Hours =																739					
System Codes:			NA	- Not Available =		Hours		4			AUD	- Audit =		Hours		0			ACAL	- Auto Cal =		Hours		0			INOP	- InOperative =		Hours		0	
			RNG	- Range =		Hours		0			M&R	- Maintenance & Repair =		Hours		0			INOP	- InOperative =		Hours		0			PF	- Power Fail =		Hours		1	
			Cal	- Calibration =		Hours		0			MCAL	- Manual Calibration =		Hours		0																	
			MISS	- Data Not Collected =		Hours		0																									

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

July 2004

		DAY																							Daily Avg.	Daily Max.	Total Readings	
	DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
	1	68	74	85	92	94	96	93	86	69	62	59	56	55	55	57	59	61	62	65	68	72	80	89	94	73	96	24
	2	97	98	97	97	97	98	98	94	82	68	60	57	57	59	55	54	49	49	48	50	54	62	65	65	71	98	24
	3	63	60	65	67	73	73	69	61	60	57	50	50	48	46	42	41	41	53	55	57	61	64	74	80	59	80	24
	4	81	74	74	70	73	80	92	96	96	97	97	91	94	96	98	98	99	99	99	99	99	99	99	99	92	99	24
	5	98	98	99	99	99	99	99	98	97	93	89	84	77	74	68	65	58	55	56	58	61	72	84	88	82	99	24
	6	83	75	72	62	63	68	70	79	73	78	80	89	89	91	93	96	97	97	98	98	98	98	98	99	85	99	24
	7	99	99	99	99	99	99	99	99	98	NA	98	98	98	98	98	98	98	98	99	99	99	99	99	99	99	99	23
	8	99	99	99	99	99	99	99	99	99	99	99	99	96	92	88	83	78	70	60	57	63	81	92	87	89	99	24
	9	92	96	97	95	96	97	95	90	77	65	58	53	51	52	51	51	52	53	60	66	69	76	86	85	73	97	24
	10	85	88	89	89	90	92	93	90	85	81	77	71	61	51	65	58	55	54	62	69	72	80	85	89	76	93	24
	11	86	81	77	78	77	74	73	75	72	68	69	74	75	67	67	75	79	80	76	75	76	78	82	86	76	86	24
	12	90	92	93	92	95	96	97	92	88	85	79	NA	67	NA	60	66	60	61	63	65	68	77	86	86	80	97	22
	13	86	80	81	83	87	89	88	87	82	76	83	82	69	59	60	83	84	63	58	65	74	80	87	94	78	94	24
	14	93	93	94	95	96	96	95	91	88	79	74	67	63	62	57	56	52	51	52	55	61	70	74	76	75	96	24
	15	77	77	78	79	78	78	77	71	64	52	48	44	38	33	36	35	36	38	41	43	50	61	62	67	57	79	24
	16	77	78	71	69	78	83	91	94	94	92	95	96	98	98	97	95	94	93	92	93	94	94	93	91	90	98	24
	17	92	93	95	95	94	96	97	96	92	85	78	69	64	63	61	58	59	57	60	64	75	86	94	98	80	98	24
	18	98	98	98	98	98	97	96	93	89	77	57	52	48	43	39	39	37	38	68	71	56	58	63	65	70	98	24
	19	71	74	74	78	81	83	83	80	77	74	68	NA	58	55	60	59	58	63	65	73	78	85	91	95	73	95	23
	20	97	98	98	98	98	98	99	99	99	98	98	97	92	82	75	76	76	71	67	70	78	86	84	85	88	99	24
	21	87	85	84	83	87	90	88	89	86	83	80	74	70	70	61	65	67	64	63	61	63	71	75	76	76	90	24
	22	75	72	67	58	60	70	78	83	83	82	79	78	78	74	72	71	72	75	71	68	74	79	85	95	75	95	24
	23	96	97	97	96	95	96	96	88	78	56	47	46	47	69	86	72	61	45	44	48	51	60	76	89	72	97	24
	24	91	92	91	91	93	93	94	89	76	57	42	40	38	37	42	47	44	45	44	46	48	59	72	68	64	94	24
	25	58	66	75	80	81	79	79	74	66	55	45	40	36	35	36	34	36	37	39	41	47	60	69	74	56	81	24
	26	73	73	73	72	74	75	74	73	68	56	49	47	44	45	43	PF	39	37	38	45	52	66	78	87	60	87	23
	27	92	91	81	86	89	87	90	90	82	65	54	51	49	56	54	49	48	54	60	55	55	67	74	77	69	92	24
	28	79	82	83	79	78	78	77	75	67	62	53	43	39	38	34	34	36	38	38	43	47	54	57	57	57	83	24
	29	59	61	64	66	68	70	71	80	92	91	89	85	83	83	76	72	89	83	75	70	73	87	81	86	77	92	24
	30	80	78	81	82	85	87	88	85	80	72	59	52	48	48	61	60	58	60	66	70	75	78	76	71	71	88	24
	31	77	95	97	98	98	99	99	99	99	97	98	96	86	75	67	66	62	62	62	65	73	75	81	78	84	99	24
Hour Avg.:		83.8	84.4	84.8	84.7	86.2	87.6	88.3	86.9	82.5	75.4	71.3	68.3	65.0	63.5	63.2	63.8	62.4	61.5	62.7	64.7	68.3	75.5	81.0	83.4			
Hour Max.:		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	98.0	98.0	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0			
Readings		31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31			
Monthly Avg.:		75 %	Standard Deviation:				17.8	Data Capture:				99.3 %					Total Valid Hours =				739							
									Hours																			
System Codes:		NA	- Not Available =				4	AUD				- Audit =				0	ACAL				- Auto Cal =				0			
		RNG	- Range =				0	M&R				- Maintenance & Repair =				0	INOP				- InOperative =				0			
		Cal	- Calibration =				0	MCAL				- Manual Calibration =				0	PF				- Power Fail =				1			
		MISS	- Data Not Collected =				0																					

Table 8. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
Solar Radiation (W/m2)
(One Hour Averages)

July 2004																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY	1	0	0	0	0	0	39	201	365	541	705	838	914	963	961	914	814	671	501	326	151	19	0	0	372	963	24
	2	0	0	0	0	0	44	167	346	414	686	812	795	641	683	703	708	538	420	317	138	14	0	0	309	812	24
	3	0	0	0	0	0	28	152	302	455	642	719	677	715	616	761	546	366	259	135	59	7	0	0	268	761	24
	4	0	0	0	0	0	2	18	74	45	95	305	107	103	70	71	70	30	12	3	5	1	0	0	42	305	24
	5	0	0	0	0	0	1	18	50	127	258	432	652	743	868	914	802	669	484	308	127	13	0	0	269	914	24
	6	0	0	0	0	0	9	57	120	77	113	171	193	187	146	121	113	82	46	25	9	1	0	0	61	193	24
	7	0	0	0	0	0	3	10	30	NA	82	81	128	112	125	132	109	86	57	24	13	2	0	0	43	132	23
	8	0	0	0	0	0	1	25	45	73	73	90	219	290	403	474	617	630	447	248	94	15	0	0	156	630	24
	9	0	0	0	0	0	19	150	317	497	620	769	771	699	597	431	431	500	318	267	138	11	0	0	272	771	24
	10	0	0	0	0	0	14	139	304	448	587	758	721	940	826	798	746	602	422	232	131	14	0	0	320	940	24
	11	0	0	0	0	0	21	93	142	153	201	211	416	426	409	271	170	200	158	81	39	12	0	0	125	426	24
	12	0	0	0	0	0	16	102	174	330	522	NA	713	NA	846	584	695	539	343	291	112	17	0	0	240	846	22
	13	0	0	0	0	0	22	52	259	200	58	239	503	522	559	24	273	541	455	218	69	6	0	0	167	559	24
	14	0	0	0	0	0	4	106	260	422	466	582	847	740	913	852	768	630	458	278	116	12	0	0	311	913	24
	15	0	0	0	0	0	17	125	276	453	628	772	842	885	834	839	747	588	447	275	95	4	0	0	326	885	24
	16	0	0	0	0	0	1	14	74	80	124	93	105	136	142	195	243	160	134	71	44	4	0	0	68	243	24
	17	0	0	0	0	0	11	78	222	408	597	743	825	885	877	813	716	568	376	204	76	8	0	0	309	885	24
	18	0	0	0	0	0	9	71	184	330	478	599	688	730	685	671	496	449	293	189	67	18	0	0	248	730	24
	19	0	0	0	0	0	15	58	120	257	495	NA	700	781	563	587	420	291	343	167	112	10	0	0	214	781	23
	20	0	0	0	0	0	4	33	95	175	170	245	359	758	896	772	738	598	435	268	107	8	0	0	236	896	24
	21	0	0	0	0	0	6	107	231	341	289	633	632	300	719	302	408	593	437	276	116	6	0	0	225	719	24
	22	0	0	0	0	0	3	36	27	90	136	219	239	303	254	205	178	198	338	257	98	6	0	0	108	338	24
	23	0	0	0	0	0	13	147	307	484	665	671	687	229	523	582	762	645	479	291	123	6	0	0	276	762	24
	24	0	0	0	0	0	14	120	268	455	596	627	637	711	586	621	694	596	421	256	114	7	0	0	280	711	24
	25	0	0	0	0	0	9	116	279	461	626	753	843	919	828	862	640	617	440	255	94	6	0	0	323	919	24
	26	0	0	0	0	0	7	83	238	411	573	710	795	846	831	PF	686	553	390	221	78	7	0	0	280	846	23
	27	0	0	0	0	0	6	78	201	370	547	694	746	485	589	740	664	357	282	206	86	5	0	0	252	746	24
	28	0	0	0	0	0	5	92	234	372	604	745	763	688	631	733	394	286	254	138	41	4	0	0	249	763	24
	29	0	0	0	0	0	1	7	35	84	133	265	273	312	610	603	446	446	410	268	101	5	0	0	167	610	24
	30	0	0	0	0	0	7	127	277	457	622	800	689	610	716	637	501	455	208	125	52	2	0	0	262	800	24
	31	0	0	0	0	0	0	7	45	91	57	146	496	625	603	530	703	414	385	147	34	3	0	0	179	703	24
Hour Avg.:	0	0	0	0	0	0	11	84	190	303	402	508	580	576	610	558	526	448	337	205	85	8	0	0			
Hour Max.:	0	0	0	0	0	0	44	201	365	541	705	838	914	963	961	914	814	671	501	326	151	19	0	0			
Readings	31	31	31	31	31	31	31	31	31	30	31	29	31	30	31	30	31	31	31	31	31	31	31	31			
Monthly Avg.:	225 W/m2		Standard Deviation:		278.1		Data Capture:		99.3 %												Total Valid Hours =		739				
System Codes:	NA - Not Available =		4		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		1																
	MISS - Data Not Collected =		0																								

**Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**Rain Fall (mm)
(One Hour Averages)**

July 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	24
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	24
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.4	0.5	0.0	0.3	0.8	1.2	0.5	2.3	0.8	2.0	0.4	9.9	24
5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.1	24
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	1.9	1.2	0.8	0.4	0.8	0.6	0.6	0.7	9.4	24
7	0.4	0.9	2.7	1.7	3.0	1.1	1.3	1.2	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.1	9
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.4	NA	0.0	0.2	0.0	2.0	5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.0	0.1	0.0	NA	NA	NA	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.1	0.2	1.8	21
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.1	0.5	0.0	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1	13
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
12	NA	NA	NA	NA	NA	NA	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	18
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24
16	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	24
18	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24
19	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	24
20	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	24
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	24
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA	NA	NA	0.0	10
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Hour Max.:	0.4	0.9	2.7	1.7	3.0	1.1	1.3	1.5	0.8	1.1	0.5	0.4	0.0	0.4	0.7	1.7	1.9	1.4	1.4	0.5	2.3	0.8	2.0	0.7		
Readings	20	20	20	20	20	20	21	21	20	19	19	18	18	17	18	18	18	18	20	20	18	19	19	19		

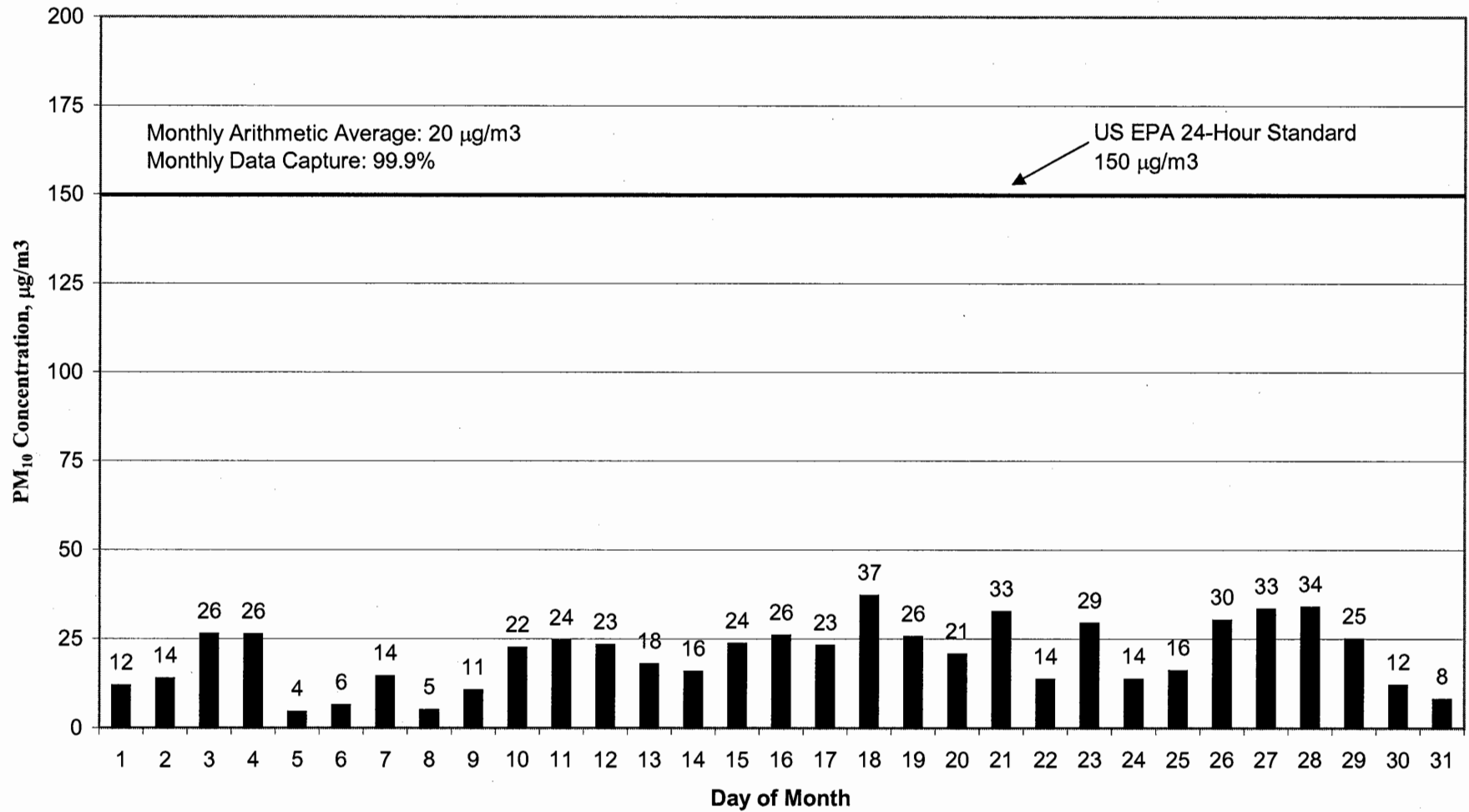
Monthly Total: 45.3 mm

Data Capture: 61.8 %

Total Valid Hours = 460

System Codes:	NA - Not Available =	284	AUD - Audit =	0	ACAL - Auto Cal =	0
	RNG - Range =	0	M&R - Maintenance & Repair =	0	INOP - InOperative =	0
	Cal - Calibration =	0	MCAL - Manual Calibration =	0	PF - Power Fail =	0
	MISS - Data Not Collected =	0				

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
JULY 2004



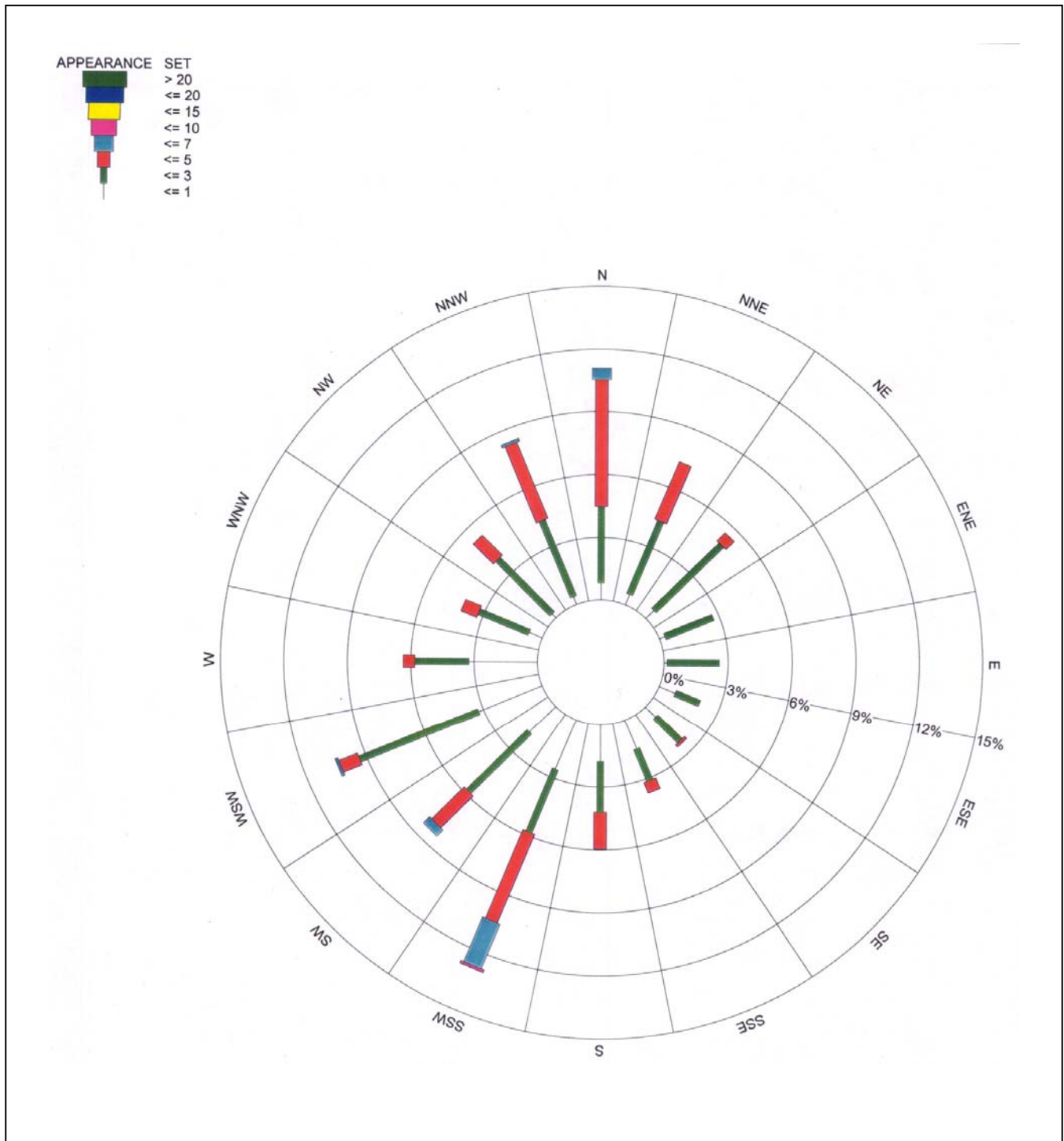


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Disclosing Invalid Data) Overall Average: 2.38051

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
JULY 2004**

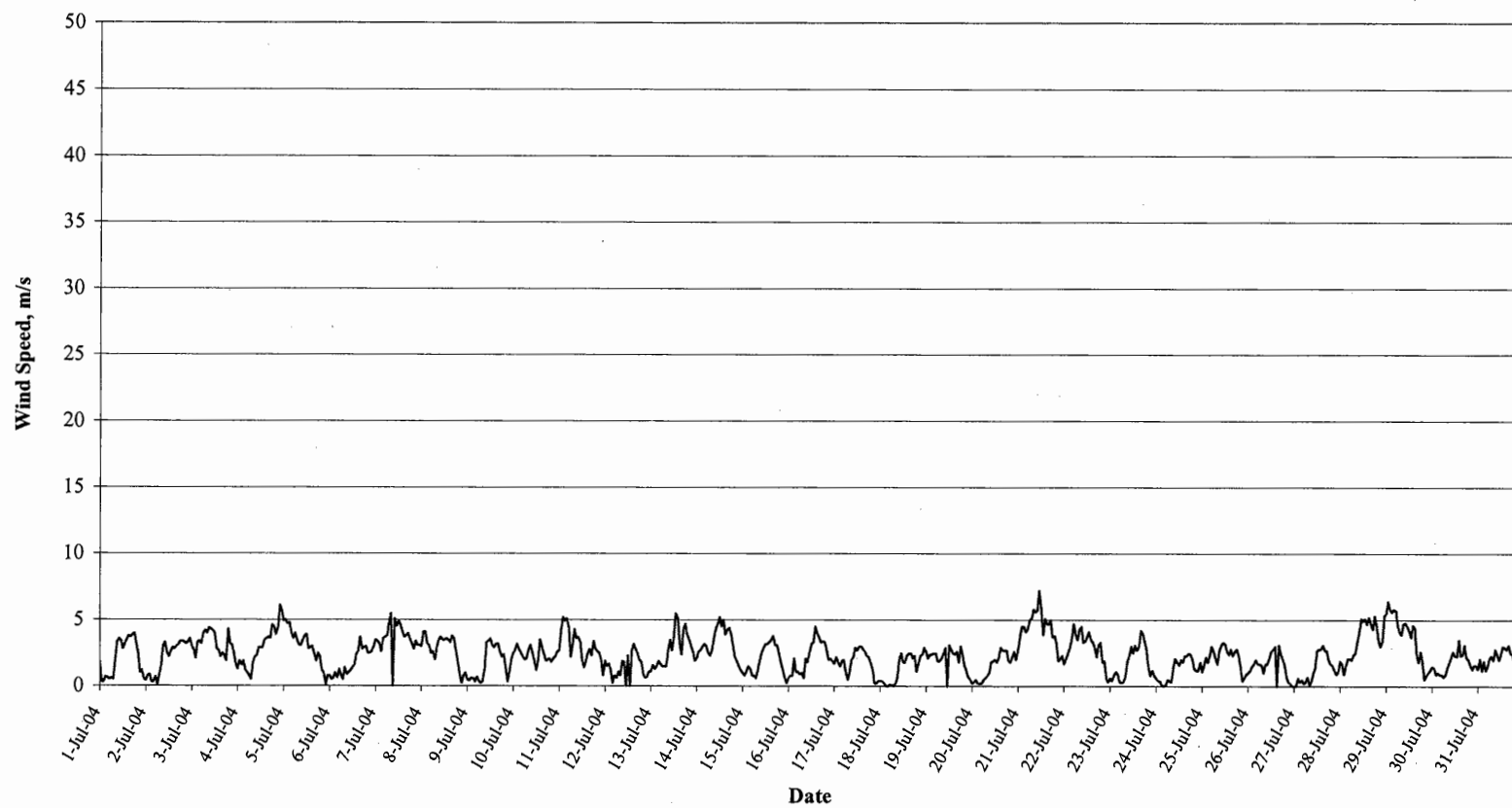


Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
JULY 2004

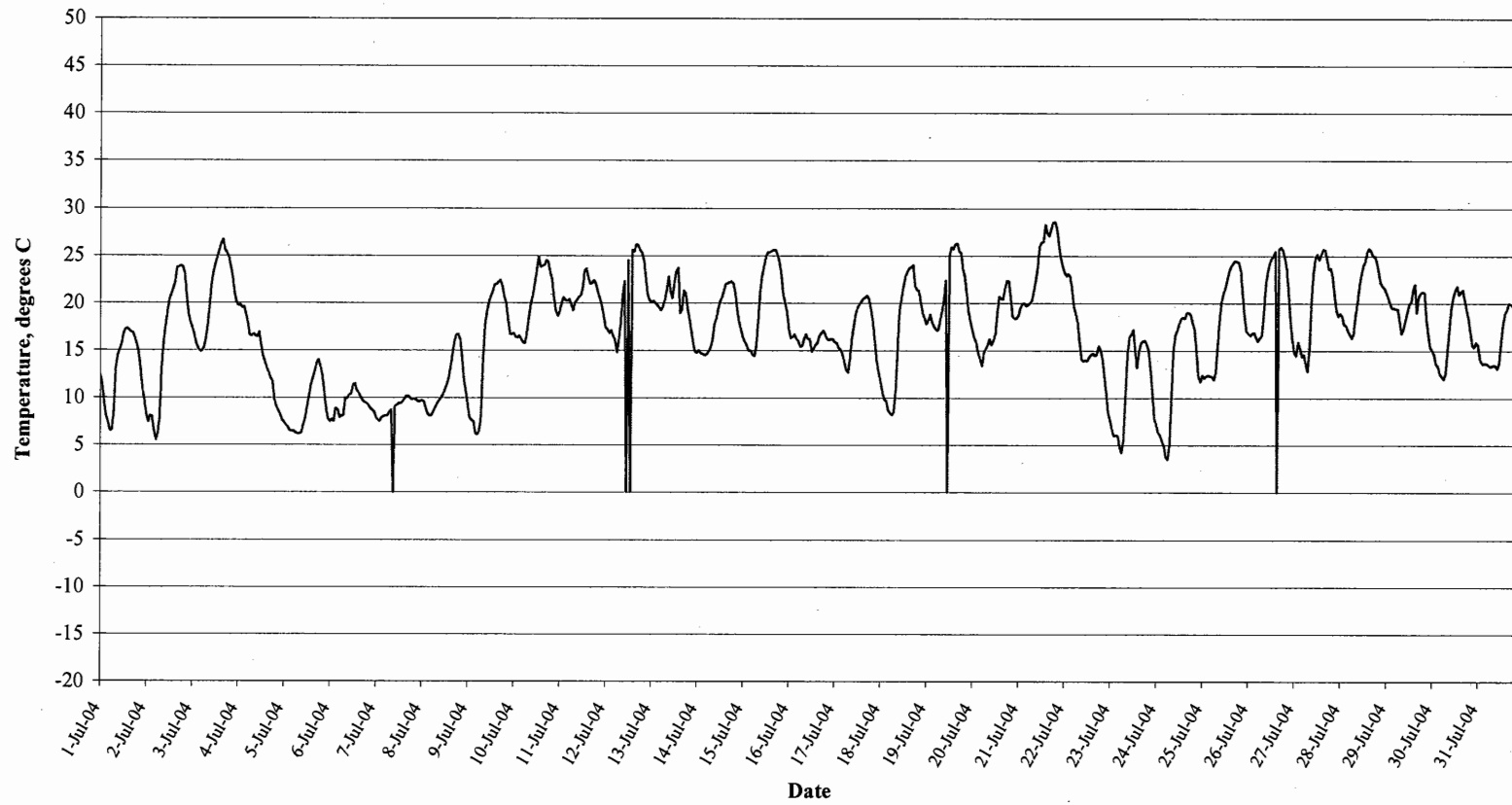


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
JULY 2004

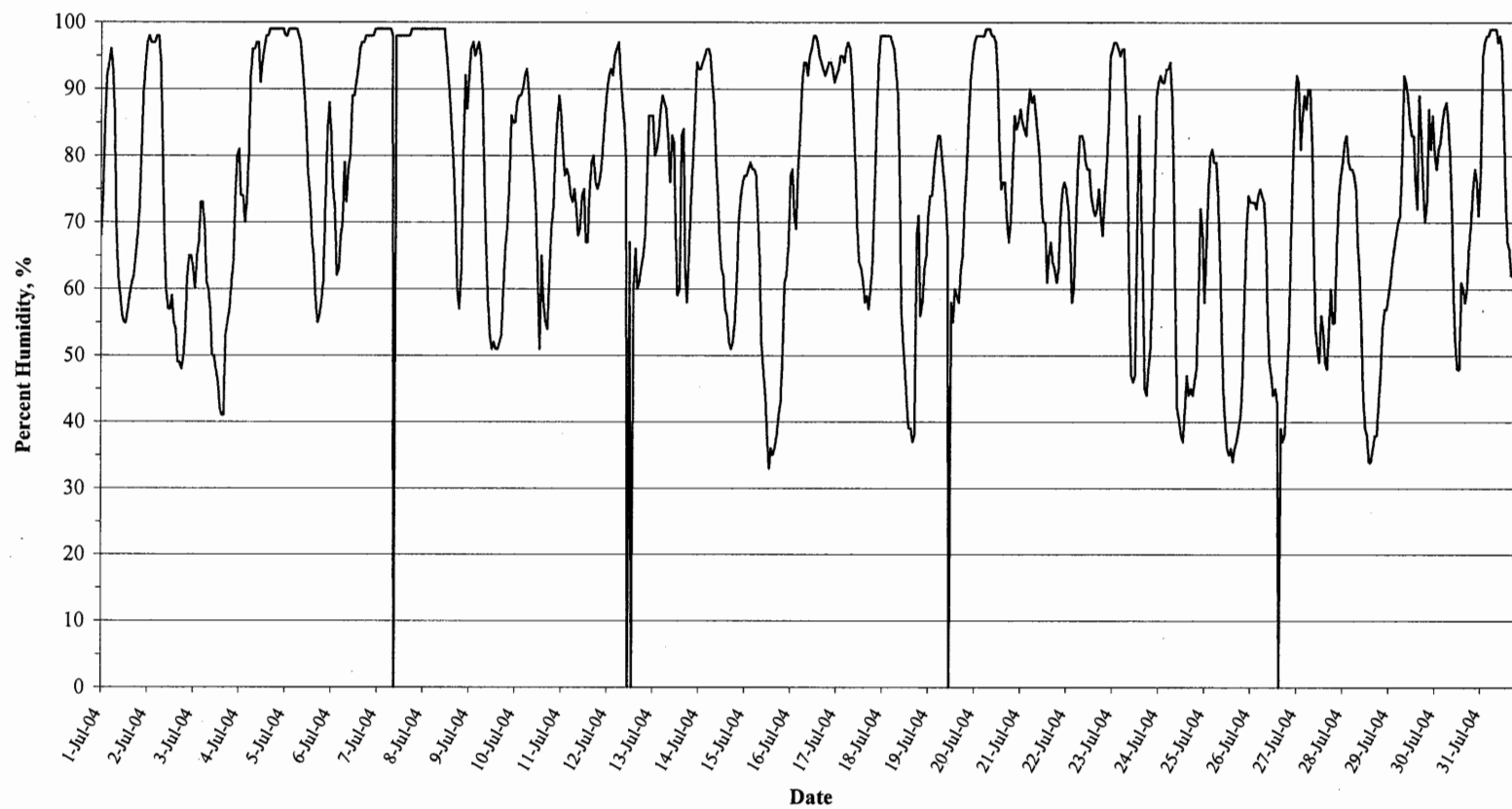


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
JULY 2004

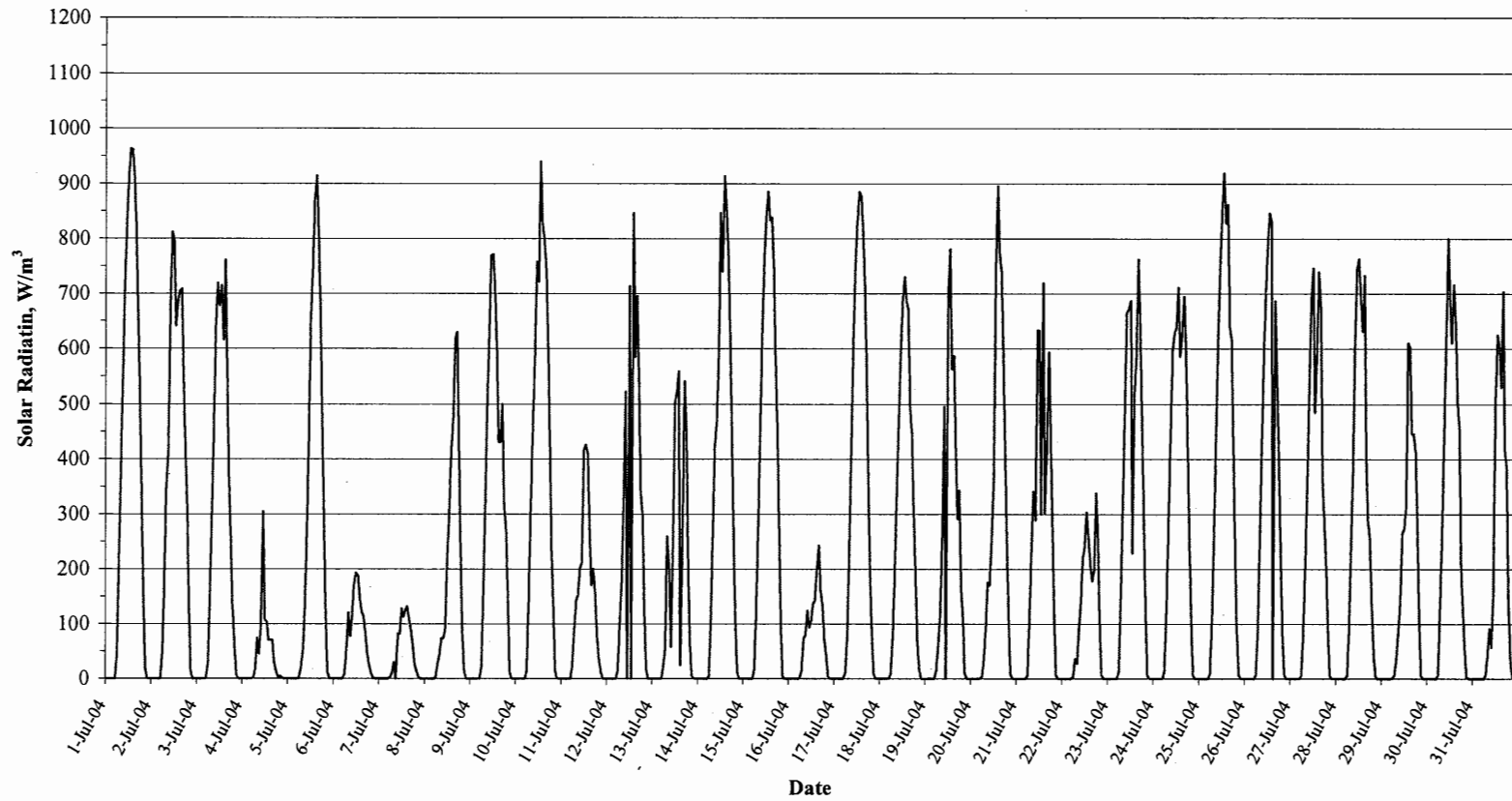
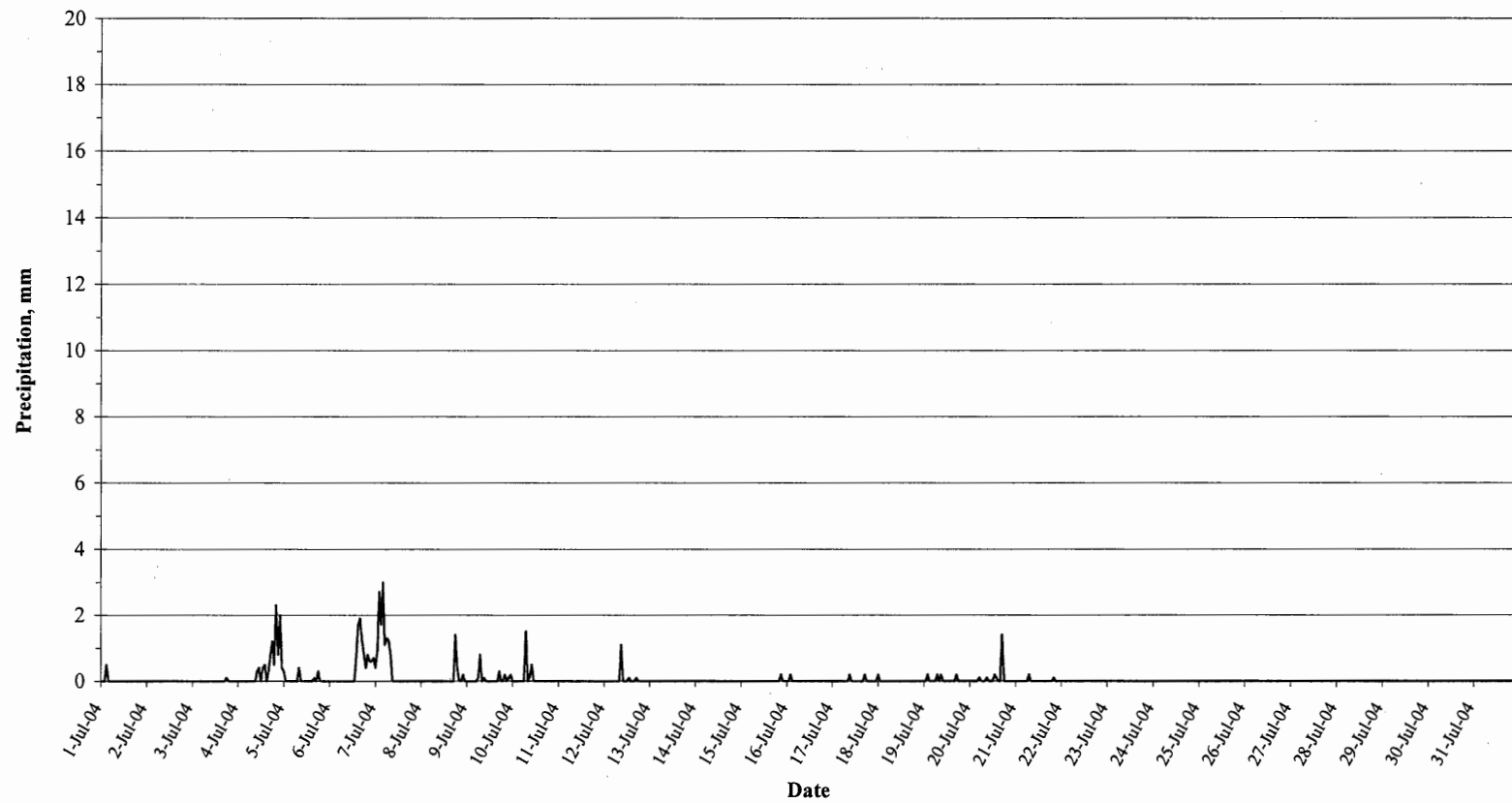


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
JULY 2004**



Appendix C

August 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
August 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	37	µg/m ³	7-Aug-04
Second Maximum 24-Hour (Daily) Concentration ² :	34	µg/m ³	11-Aug-04
Monthly Data Collection Efficiency:	94.1	%	
Monthly Arithmetic Average:	15	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - August 2004)	15	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SW
Average Wind Direction Horizontal Deviation:	21 degrees
Average Wind Speed:	2.7 m/s
Average Temperature:	14.9 °C
Average Relative Humidity:	75 %
Average Solar Radiation:	213 W/m ²
Total Rain Fall:	136.7 mm
Monthly Data Collection Efficiency:	98.8 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	24.4 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	30.8 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

**Monthly average was not calculated in annual average due to data capture being below 60%.

PM₁₀ (µg/m³)
(One Hour Averages)

August 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
1	19	19	11	18	8	10	9	6	2	1	5	8	9	10	10	10	8	6	25	25	17	48	40	25	15	48	24
2	21	23	19	22	18	17	21	18	12	14	11	4	3	10	11	10	8	8	12	9	18	35	17	24	15	35	24
3	20	15	15	14	55	14	37	32	7	6	0	0	1	6	14	11	28	6	5	7	44	20	23	28	17	55	24
4	18	11	93	25	25	36	26	70	0	0	0	0	2	2	0	7	7	0	4	12	14	37	38	21	19	93	24
5	80	32	11	39	15	17	11	20	19	0	0	0	0	2	2	1	0	0	0	7	37	35	37	19	16	80	24
6	21	7	4	31	10	9	7	21	2	1	1	1	0	0	2	6	6	6	0	2	7	46	86	76	15	86	24
7	30	17	12	17	88	20	116	80	28	0	0	38	32	9	4	1	4	5	2	6	23	57	191	96	37	191	24
8	57	27	26	17	17	16	12	10	71	11	27	16	54	14	29	37	22	22	18	20	29	34	27	28	27	71	24
9	33	35	23	30	28	25	23	22	22	18	19	3	4	11	12	12	12	10	6	4	6	7	10	10	16	35	24
10	11	11	12	13	12	19	5	4	0	0	0	3	0	0	0	2	2	2	0	1	2	0	2	1	4	19	24
11	0	2	5	5	2	1	2	0	6	748	0	0	2	2	0	0	0	1	0	3	9	8	3	6	34	748	24
12	5	5	3	2	6	9	9	9	6	1	0	0	0	6	6	4	2	0	1	5	8	7	22	12	5	22	24
13	12	19	8	11	8	6	5	5	7	0	0	0	0	0	0	0	0	0	0	0	8	24	29	23	7	29	24
14	13	11	8	6	8	8	5	5	2	0	0	0	0	0	4	1	0	5	6	5	118	84	79	89	19	118	24
15	16	6	11	13	13	12	9	10	6	0	2	8	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	14
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
17	NA	NA	NA	NA	NA	NA	NA	NA	10	10	20	11	18	LF	LF	14	14	10	37	40	29	36	36	36	NA	40	14
18	22	22	14	27	25	22	23	25	24	24	26	28	28	27	35	16	22	25	32	16	22	16	13	5	22	35	24
19	3	6	8	9	8	7	5	4	1	0	0	0	0	0	0	0	0	2	10	16	13	12	23	17	6	23	24
20	14	13	12	12	9	5	3	8	6	0	0	2	5	0	4	2	1	2	6	13	13	38	16	16	8	38	24
21	12	10	9	6	4	8	8	4	2	2	0	0	1	5	5	0	0	0	2	13	14	55	41	19	9	55	24
22	14	12	7	5	7	12	10	6	7	12	19	10	5	6	11	14	15	25	25	39	28	21	12	10	14	39	24
23	10	11	9	5	2	6	7	8	9	7	7	9	6	3	6	4	0	0	3	7	9	10	8	10	6	11	24
24	11	9	7	7	1	0	7	13	23	26	23	18	29	11	26	21	25	38	26	49	43	36	25	32	21	49	24
25	32	37	24	17	0	18	15	28	25	22	11	11	11	10	22	21	27	19	29	28	39	25	26	21	22	39	24
26	17	13	18	21	18	26	23	18	15	17	20	18	15	10	23	23	9	27	16	26	27	24	20	24	20	27	24
27	12	27	13	12	11	18	13	13	13	7	1	7	11	11	11	11	12	12	29	17	16	14	8	7	13	29	24
28	11	14	9	6	8	8	6	5	8	6	1	0	1	2	4	10	11	6	3	3	4	4	3	6	6	14	24
29	4	6	7	6	6	1	2	4	5	5	1	2	2	0	0	2	0	0	5	8	9	12	12	11	5	12	24
30	9	7	3	3	6	1	0	2	3	3	2	1	2	1	4	5	0	0	1	19	22	16	15	13	6	22	24
31	14	14	7	7	12	9	7	8	6	0	0	0	0	0	0	4	7	9	8	10	11	4	0	3	6	14	24
Hour Avg.:	19	15	14	14	15	12	15	16	12	31	7	7	8	6	9	9	8	9	11	14	22	26	30	24			
Hour Max.:	80	37	93	39	88	36	116	80	71	748	27	38	54	27	35	37	28	38	37	49	118	84	191	96			
Readings	29	29	29	29	29	29	29	29	30	30	30	30	30	29	28	29	29	29	29	29	29	29	29	29			

Monthly Avg.: 14.6 $\mu\text{g}/\text{m}^3$ Standard Deviation: 32.4

Data Capture: 94.1 %

Total Valid Hours = 700

System Codes:	NA - Not Available =	42
	RNG - Range =	0
	Cal - Calibration =	0
	MISS - Data Not Collected =	0

AUD	- Audit =	0
M&R	- Maintenance & Repair =	0
MCAL	- Manual Calibration =	0
PF	- Low Flow =	0

ACAL	- Auto Cal =	0
INOP	- InOperative =	0
LF	- Power Fail =	2

Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)

August 2004																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	258	216	154	171	169	163	144	174	188	201	208	221	232	243	280	267	360	335	286	272	345	172	187	175	24
2	158	215	240	240	261	240	237	241	237	272	306	331	339	331	341	339	345	33	35	35	49	192	213	221	24
3	220	220	215	176	218	215	233	250	232	NA	NA	18	359	39	48	48	52	72	74	101	130	167	214	214	22
4	210	233	223	192	235	307	309	2	15	45	40	22	38	37	37	30	13	14	10	360	353	326	338	321	24
5	302	272	233	275	276	278	221	252	284	332	342	8	358	14	11	5	354	341	338	303	272	259	259	253	24
6	249	252	253	264	269	277	278	282	308	338	359	21	13	19	23	30	18	31	14	355	8	6	199	239	24
7	220	209	219	193	190	192	206	216	195	202	190	165	188	189	187	201	246	347	46	55	50	169	236	216	24
8	252	244	228	152	183	174	170	177	184	186	183	191	180	185	179	179	176	193	182	166	180	180	181	187	24
9	188	195	194	195	194	188	193	199	209	232	221	216	219	210	228	300	254	248	278	259	242	235	243	259	24
10	267	258	262	259	258	289	317	310	317	325	321	323	316	324	327	315	323	316	320	316	328	324	318	331	24
11	327	319	315	303	293	299	306	318	325	342	347	350	354	349	355	1	360	357	11	14	12	22	351	326	24
12	279	245	276	278	289	290	287	297	317	343	347	6	18	8	18	13	15	19	13	19	1	326	236	260	24
13	267	260	269	270	260	241	269	270	263	313	350	21	21	14	31	44	32	33	47	56	45	85	259	233	24
14	194	221	192	190	236	200	211	246	237	244	249	264	255	308	358	55	74	92	80	81	119	184	191	231	24
15	172	170	183	243	243	257	256	246	239	239	235	238	242	247	245	223	222	226	215	214	207	201	207	209	24
16	212	209	210	212	213	213	216	216	213	216	223	227	212	224	215	214	208	212	203	178	149	176	212	216	24
17	218	211	241	239	238	244	240	230	237	NA	NA	NA	NA	NA	269	284	288	294	286	276	261	215	257	268	19
18	264	190	156	154	192	204	210	210	211	209	206	207	214	203	212	238	256	280	282	287	298	317	314	321	24
19	241	288	268	253	248	233	243	238	243	253	255	247	253	257	238	240	235	232	230	223	215	213	221	228	24
20	247	307	285	285	288	307	300	294	288	294	289	292	283	282	281	283	292	283	279	281	274	250	250	246	24
21	247	254	253	245	253	255	248	247	255	278	270	272	279	279	284	248	242	247	280	59	79	138	205	213	24
22	208	210	211	214	210	203	208	208	211	215	218	220	233	252	263	289	277	306	296	308	336	357	354	345	24
23	352	355	5	5	12	26	39	48	59	64	63	NA	83	91	94	86	95	102	88	104	110	116	125	144	23
24	158	150	157	166	162	173	180	181	177	184	182	177	167	153	161	165	167	175	168	169	154	161	166	165	24
25	174	177	182	181	211	220	226	236	252	257	267	260	239	232	237	104	71	62	63	167	164	172	190	212	24
26	283	225	177	198	213	215	209	207	202	202	NA	213	209	199	199	203	205	212	208	201	199	189	206	234	23
27	184	195	208	241	245	233	221	241	247	242	270	272	266	265	275	276	280	284	284	292	294	318	330	338	24
28	8	32	10	11	360	5	17	1	4	5	5	7	11	5	355	359	3	14	2	350	351	347	306	298	24
29	317	311	326	335	333	335	332	327	339	357	354	347	16	27	51	38	43	44	91	124	109	142	172	174	24
30	163	181	193	202	205	207	200	205	204	206	210	223	233	240	262	318	320	303	284	283	268	233	244	248	24
31	271	271	274	277	277	255	264	269	247	320	351	345	319	342	354	36	43	55	65	99	61	83	125	86	24
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31	

Data Capture: 98.8 %

Total Valid Hours = 735

		Hours			Hours			Hours
System Codes:	NA - Not Available =	9	AUD - Audit =		0	ACAL - Auto Cal =		0
	RNG - Range =	0	M&R - Maintenance & Repair =		0	INOP - InOperative =		0
	Cal - Calibration =	0	MCAL - Manual Calibration =		0	PF - Power Fail =		0
	MISS - Data Not Collected =	0						

Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)

August 2004																									Daily	Total		
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg.	Readings		
1	16	42	0	57	9	11	9	19	16	15	18	25	26	33	38	38	68	72	24	19	26	71	9	11	28	24		
2	23	12	11	14	21	16	14	17	18	25	29	26	22	23	22	23	32	22	19	16	28	32	6	0	20	24		
3	0	0	4	18	67	25	71	12	56	NA	NA	61	65	32	38	26	24	30	31	22	10	27	2	3	28	22		
4	5	54	60	99	64	65	57	8	14	24	20	24	24	23	21	20	20	20	17	16	13	17	14	17	30	24		
5	27	16	22	8	10	12	35	39	24	26	28	18	22	22	19	26	30	24	22	29	16	8	8	11	21	24		
6	10	9	9	14	15	18	17	17	31	25	21	24	21	22	24	25	24	16	18	16	6	25	41	27	20	24		
7	34	35	3	4	4	9	0	13	11	14	18	34	30	30	30	37	29	59	22	21	18	29	23	8	21	24		
8	35	4	36	4	38	20	21	21	18	17	19	17	18	17	15	16	16	16	18	22	15	14	13	13	18	24		
9	15	13	13	13	15	13	13	15	19	22	21	23	25	28	25	33	47	18	26	19	39	19	20	14	21	24		
10	14	17	14	15	15	37	25	24	23	23	23	23	25	24	22	27	26	26	25	23	21	22	23	21	22	24		
11	21	23	23	24	21	24	24	22	21	17	17	15	18	16	18	15	15	16	15	14	15	22	19	22	19	24		
12	20	13	18	16	19	18	17	17	22	18	21	23	22	20	23	18	25	18	15	16	12	32	1	16	18	24		
13	8	8	11	11	27	30	14	16	23	36	26	29	17	21	20	26	26	22	24	21	19	81	48	44	25	24		
14	30	27	7	13	43	43	37	18	15	16	23	36	63	61	81	46	38	22	22	26	12	44	0	51	32	24		
15	11	14	22	13	18	10	11	12	14	15	17	21	22	21	25	21	19	19	20	16	11	7	8	8	16	24		
16	10	10	11	11	13	12	12	13	14	15	16	19	19	18	18	18	17	17	21	24	56	20	12	16	17	24		
17	13	15	13	13	12	15	16	15	16	NA	NA	NA	NA	NA	25	26	21	23	22	20	17	27	12	6	17	19		
18	6	25	3	10	18	11	12	13	14	14	15	15	17	16	20	22	27	19	19	20	24	25	26	25	17	24		
19	41	20	17	14	13	15	14	17	16	18	20	22	25	20	20	23	21	21	20	17	15	14	15	17	19	24		
20	22	29	20	19	23	26	24	21	22	23	24	26	25	24	26	26	25	22	23	20	15	10	11	14	22	24		
21	12	9	11	10	8	10	9	11	17	19	25	25	26	32	34	31	31	27	67	20	35	11	13	10	21	24		
22	11	13	14	15	15	14	14	14	15	15	16	18	19	17	19	23	37	27	23	24	25	14	14	19	18	24		
23	14	14	14	15	15	17	16	15	20	25	23	NA	27	27	35	27	26	25	22	21	15	16	13	18	20	23		
24	12	12	12	12	19	15	14	15	16	15	13	14	16	15	17	17	18	18	17	14	15	14	13	13	15	24		
25	14	14	20	13	15	21	14	16	16	16	17	26	29	30	29	73	23	23	39	15	15	16	14	23	22	24		
26	38	55	13	13	14	12	10	14	15	17	NA	18	18	20	18	19	16	15	15	13	12	13	16	20	18	23		
27	17	19	14	20	20	19	14	18	17	18	23	21	20	21	21	22	19	21	20	22	22	24	18	18	20	24		
28	53	13	12	15	12	14	13	15	16	17	16	15	18	19	18	17	17	16	17	15	14	31	18	19	18	24		
29	21	23	19	18	18	18	17	20	16	20	17	19	19	19	62	30	21	36	32	19	18	16	10	9	22	24		
30	14	15	13	14	14	14	18	16	16	14	16	18	20	20	29	34	32	26	22	20	17	17	15	18	19	24		
31	17	15	15	15	16	22	16	17	27	31	23	35	38	36	23	15	20	17	28	27	21	30	32	27	23	24		
Hour Avg.:	18.8	19.0	15.3	17.7	20.4	19.5	19.3	16.8	19.3	19.7	20.2	23.8	25.2	24.2	26.9	26.5	26.1	24.3	23.4	19.6	19.3	24.1	15.7	17.4				
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31				
Monthly Avg.:	21 °		Standard Deviation:				11.5		Data Capture:				98.8 %				Total Valid Hours =										735	
							Hours										Hours								Hours			
System Codes:	NA - Not Available =						9		AUD - Audit =				0				ACAL - Auto Cal =				0							
	RNG - Range =						0		M&R - Maintenance & Repair =				0				INOP - InOperative =				0							
	Cal - Calibration =						0		MCAL - Manual Calibration =				0				PF - Power Fail =				0							
	MISS - Data Not Collected =						0																					

Table 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED - m/s
(One Hour Averages)

August 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings					
DAY																																
1	0.7	0.4	0.2	0.3	0.4	0.7	0.8	1.3	1.4	3.8	4.1	2.7	2.8	3.2	2.8	2.8	2.6	2.2	2.6	2.4	1.7	0.6	0.8	0.4	1.7	4.1	24					
2	0.6	1.4	1.3	1.4	1.3	1.5	1.6	1.8	2.0	1.9	2.3	2.3	2.3	2.2	2.6	2.8	2.6	3.5	2.6	2.2	1.4	0.4	0.2	0.3	1.8	3.5	24					
3	0.1	0.2	0.3	0.2	0.5	0.4	0.5	0.2	0.5	NA	NA	1.5	1.4	3.0	2.6	3.1	2.9	2.3	2.0	1.6	2.0	0.4	0.1	0.2	1.2	3.1	22					
4	0.3	0.4	0.7	0.5	0.4	0.2	0.9	2.7	2.8	2.4	3.5	3.6	3.9	4.3	4.2	4.4	4.9	4.7	4.7	3.4	1.7	0.9	1.2	0.9	2.4	4.9	24					
5	1.0	1.0	1.4	2.0	1.9	1.3	0.7	0.8	1.2	2.3	3.0	4.8	4.4	4.8	3.8	3.4	3.7	3.5	3.1	1.8	1.4	1.2	1.6	1.8	2.3	4.8	24					
6	1.9	1.5	1.8	2.2	2.5	3.0	2.8	2.4	2.4	2.9	2.8	3.2	3.4	3.6	3.5	3.4	3.3	3.7	3.4	2.3	0.7	0.1	0.3	0.6	2.4	3.7	24					
7	0.4	0.4	0.3	0.4	0.4	0.5	0.2	0.4	0.7	2.0	2.6	2.2	3.2	3.0	3.2	2.4	2.1	2.6	2.9	2.4	1.1	0.3	1.3	0.4	1.5	3.2	24					
8	0.4	0.3	0.4	0.5	0.4	0.3	0.9	0.8	1.5	2.5	3.6	4.1	3.9	5.1	5.0	5.5	5.0	4.8	3.2	2.1	3.3	4.5	4.8	4.8	2.8	5.5	24					
9	3.8	4.0	3.1	3.7	3.3	4.7	3.7	2.9	3.3	3.7	3.8	3.7	3.6	2.7	2.9	3.0	0.7	1.9	1.8	2.4	0.8	1.1	1.4	1.0	2.8	4.7	24					
10	1.3	1.8	1.5	1.7	1.9	2.8	2.9	2.8	3.2	3.3	3.4	3.7	3.5	3.6	3.6	3.2	3.8	3.3	3.2	2.8	2.9	2.5	2.4	2.4	2.8	3.8	24					
11	2.5	2.3	2.4	2.1	2.4	2.0	2.1	2.3	2.7	3.0	3.2	3.1	3.5	3.8	3.9	3.8	4.1	4.0	3.9	5.1	3.8	2.5	1.2	1.2	3.0	5.1	24					
12	0.8	0.9	1.0	1.3	1.4	1.5	1.6	1.7	1.7	2.6	3.0	3.9	4.2	4.4	3.9	3.8	3.9	4.2	4.0	3.3	1.4	0.2	0.3	0.7	2.3	4.4	24					
13	0.6	0.5	1.1	1.2	1.4	0.8	0.8	0.5	1.1	1.3	2.1	2.6	4.0	3.7	3.5	3.3	3.2	2.8	2.3	1.8	0.9	0.4	0.3	0.4	1.7	4.0	24					
14	0.5	0.3	0.4	0.2	0.4	0.5	0.8	0.7	1.2	2.4	2.3	1.7	1.6	1.6	1.7	2.2	2.4	2.1	2.0	1.7	1.0	0.3	0.1	0.4	1.2	2.4	24					
15	0.7	0.8	1.0	0.9	1.1	1.7	1.4	1.7	2.7	3.6	4.1	4.2	4.0	3.6	3.2	3.9	3.6	3.0	3.4	2.5	2.2	2.2	2.3	2.5	2.5	4.2	24					
16	2.9	2.5	2.5	2.8	2.9	2.8	2.8	3.2	3.8	3.9	4.5	4.9	6.0	5.1	5.2	4.7	4.4	3.1	2.6	1.7	1.5	2.8	2.9	2.3	3.4	6.0	24					
17	1.8	1.4	1.7	1.6	1.9	1.5	1.0	1.5	2.1	NA	NA	NA	NA	NA	3.5	3.4	3.7	4.2	4.1	3.1	1.9	1.2	1.5	1.6	2.2	4.2	19					
18	1.4	0.5	0.5	1.5	1.8	3.1	3.4	4.0	4.6	5.8	7.5	8.6	8.3	7.2	8.2	4.9	5.4	7.3	7.8	7.9	6.5	4.5	3.8	2.8	4.9	8.6	24					
19	1.7	2.6	1.7	1.5	1.7	1.5	2.2	2.2	2.9	4.0	4.9	5.3	5.2	5.4	5.6	5.5	5.0	5.4	5.4	4.7	4.5	5.4	5.7	5.2	4.0	5.7	24					
20	4.4	2.8	3.3	3.2	3.4	3.0	2.0	1.6	2.9	3.5	3.9	4.2	4.4	5.0	4.5	4.7	4.7	4.8	4.1	3.9	2.0	1.2	1.7	1.5	3.4	5.0	24					
21	1.7	1.4	1.5	1.7	1.5	1.3	1.8	1.7	2.1	3.1	3.2	4.3	3.3	3.1	3.0	3.1	3.1	3.1	2.3	1.9	0.9	0.9	1.2	2.4	2.2	4.3	24					
22	3.5	4.0	4.8	6.0	5.1	5.4	5.7	5.3	5.3	4.9	5.1	5.3	4.5	3.9	4.0	2.4	3.7	3.4	2.6	4.5	4.9	4.5	2.8	4.5	6.0	24						
23	3.0	2.7	2.8	2.3	2.5	2.9	2.7	2.3	2.3	2.4	2.9	NA	3.1	3.2	3.3	3.3	3.2	3.0	2.4	2.2	1.8	1.8	1.9	1.3	2.6	3.3	23					
24	2.1	3.3	4.6	4.8	3.9	4.9	4.7	4.5	4.8	6.0	7.3	7.4	5.4	4.6	5.7	4.9	5.6	5.4	4.8	4.2	3.2	4.0	4.8	3.9	4.8	7.4	24					
25	3.3	3.0	2.3	2.7	1.9	1.4	1.6	1.4	2.3	2.4	2.9	2.6	3.1	2.7	2.8	2.3	2.8	2.4	1.1	3.0	3.4	3.0	4.3	3.4	2.6	4.3	24					
26	1.1	1.5	2.5	3.1	2.7	2.9	2.6	2.2	2.4	4.0	NA	4.8	5.0	4.5	3.9	5.2	5.3	5.0	4.5	3.8	2.9	3.0	3.1	1.8	3.4	5.3	23					
27	2.6	2.5	3.3	3.1	2.5	2.4	2.5	2.3	2.5	3.0	4.1	4.9	5.3	5.1	5.6	5.3	4.6	4.9	4.5	3.6	2.7	2.3	1.7	0.8	3.4	5.6	24					
28	0.5	3.0	3.0	3.6	3.1	2.6	2.7	2.6	2.8	2.7	3.0	3.9	3.4	3.0	3.2	2.4	2.4	3.0	3.0	2.7	1.8	0.6	1.0	1.0	2.5	3.9	24					
29	1.0	1.0	1.5	1.8	1.8	1.9	1.9	2.1	2.5	2.7	2.6	2.5	2.6	2.0	1.1	1.3	1.7	1.1	1.2	1.8	1.0	1.0	1.3	0.9	1.7	2.7	24					
30	1.1	1.8	2.7	2.9	3.5	3.5	2.4	3.4	3.2	3.2	4.1	4.6	4.0	3.0	2.9	2.9	2.8	3.1	3.7	2.3	1.8	1.6	1.5	1.4	2.8	4.6	24					
31	2.4	2.0	2.1	2.1	2.0	1.1	1.2	1.2	0.9	2.0	2.6	2.4	2.2	2.3	2.7	2.4	2.1	1.6	1.7	0.9	1.3	0.7	1.0	0.8	1.7	2.7	24					
Hour Avg.:	1.6	1.7	1.9	2.0	2.0	2.1	2.0	2.1	2.4	3.2	3.7	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.3	2.8	2.2	1.8	1.9	1.7								
Hour Max.:	4.4	4.0	4.8	6.0	5.1	5.4	5.7	5.3	5.3	6.0	7.5	8.6	8.3	7.2	8.2	5.5	5.6	7.3	7.8	7.9	6.5	5.4	5.7	5.2								
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31								
Monthly Avg.:	2.7 m/s		Standard Deviation:				1.5		Data Capture:				98.8 %		Total Valid Hours =										735							
System Codes:											Hours					Hours					Hours											
	NA - Not Available =										9					AUD - Audit =					0					ACAL - Auto Cal =					0	
	RNG - Range =										0					M&R - Maintenance & Repair =					0					INOP - InOperative =					0	
	Cal - Calibration =										0					MCAL - Manual Calibration =					0					PF - Power Fail =					0	
	MISS - Data Not Collected =										0																					

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

August 2004																								Daily Avg.	Daily Max.	Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	13.9	12.8	11.0	11.5	11.5	11.6	11.5	13.4	16.7	19.3	21.0	22.7	24.2	25.3	26.4	27.3	27.1	27.5	28.1	27.7	25.9	23.1	20.5	19.3	20.0	28.1	24
2	19.3	20.2	20.1	19.7	19.5	19.0	18.7	19.5	21.3	23.1	24.4	24.9	25.2	24.2	23.7	24.0	24.7	23.2	21.7	21.1	19.8	17.8	15.7	14.9	21.1	25.2	24
3	13.8	12.6	12.0	11.9	12.0	11.8	11.1	12.0	15.7	NA	NA	21.9	22.8	22.4	22.9	23.1	22.7	22.3	22.1	21.3	20.3	17.8	15.0	12.9	17.3	23.1	22
4	11.3	10.5	10.0	8.8	8.2	8.0	8.5	13.6	14.9	16.1	17.2	17.5	17.3	17.6	17.4	17.1	16.9	17.0	16.9	16.5	15.5	13.7	13.0	12.3	14.0	17.6	24
5	11.6	10.5	9.1	9.9	9.6	9.4	7.1	8.1	11.8	14.6	15.8	16.9	16.9	17.3	17.8	18.1	18.6	18.9	18.8	18.8	18.0	15.6	13.6	12.9	14.2	18.9	24
6	12.8	12.4	12.7	13.6	14.5	15.2	14.9	14.8	16.1	17.3	18.8	20.0	20.5	20.7	20.9	21.1	21.3	21.1	20.5	19.8	19.0	15.0	12.0	10.7	16.9	21.3	24
7	9.6	8.9	8.0	7.0	6.9	6.0	7.3	8.6	13.9	17.9	19.8	21.3	21.8	22.3	22.4	22.7	22.8	22.6	22.1	21.4	19.3	17.6	15.7	13.8	15.8	22.8	24
8	12.4	12.0	11.3	10.9	13.2	13.6	13.9	14.2	16.1	18.0	19.8	20.1	20.3	20.9	20.1	20.3	19.9	19.3	18.1	17.6	18.2	17.6	17.2	17.1	16.8	20.9	24
9	16.9	16.9	16.9	17.1	17.0	17.1	17.2	17.1	17.8	18.3	19.9	21.9	23.5	23.7	20.0	16.2	15.7	16.6	16.9	18.2	17.6	16.6	16.3	16.1	18.0	23.7	24
10	15.7	15.5	15.2	15.4	15.4	15.1	13.8	12.9	12.2	11.6	11.0	10.5	10.3	10.0	9.4	9.1	8.9	8.7	8.5	8.5	7.9	7.8	7.7	7.6	11.2	15.7	24
11	7.6	7.5	7.6	7.6	7.6	7.9	8.2	8.5	8.6	8.7	8.9	9.0	9.1	9.2	9.1	8.9	8.7	8.6	8.5	8.5	8.8	9.1	9.2	9.4	8.5	9.4	24
12	9.5	9.2	9.3	9.3	8.9	8.5	8.0	8.7	10.5	11.8	12.5	13.8	14.1	14.2	14.7	15.0	14.9	14.4	14.0	13.7	12.5	9.6	7.2	6.2	11.3	15.0	24
13	5.6	5.1	5.5	6.2	6.6	6.1	5.6	5.2	8.0	13.3	15.1	16.3	17.0	17.0	17.0	17.1	17.0	17.0	16.7	16.2	14.9	11.5	9.1	7.6	11.5	17.1	24
14	6.3	5.4	5.0	4.6	4.6	5.2	5.9	7.3	10.3	14.3	16.8	18.3	19.6	19.9	20.6	20.0	19.8	19.3	19.4	19.3	18.0	14.7	12.2	11.2	13.3	20.6	24
15	10.3	10.0	10.2	11.0	11.1	11.4	11.6	12.2	14.8	17.0	18.8	20.3	20.9	21.0	21.2	21.7	21.8	22.0	22.3	21.5	19.6	17.9	16.8	16.0	16.7	22.3	24
16	15.6	15.0	14.6	14.3	14.9	14.9	14.9	14.9	16.1	17.0	18.7	20.0	20.6	20.5	20.1	18.7	16.9	15.7	16.0	16.2	15.4	14.9	14.9	14.2	16.5	20.6	24
17	14.1	13.5	14.0	13.9	14.0	13.9	13.5	14.1	15.3	NA	NA	NA	NA	NA	20.7	21.5	21.5	21.6	21.3	20.6	18.9	16.9	16.2	15.6	16.9	21.6	19
18	14.7	12.9	10.5	10.9	12.9	13.9	14.2	14.3	15.3	17.5	19.3	20.9	22.1	22.3	22.3	18.1	17.2	16.5	15.8	14.3	12.6	10.5	9.5	8.7	15.3	22.3	24
19	7.8	7.8	6.6	5.9	5.7	5.4	5.0	5.5	7.5	9.4	10.8	12.1	12.8	13.7	14.8	15.8	16.8	17.4	17.7	17.2	16.1	15.1	14.9	14.9	11.5	17.7	24
20	14.8	13.1	12.6	12.2	11.7	10.5	8.7	7.5	8.3	9.2	10.3	11.0	11.9	12.8	13.6	14.1	14.4	14.0	13.7	13.1	11.9	9.6	8.6	9.0	11.5	14.8	24
21	8.9	8.5	8.0	7.9	7.3	6.8	6.6	7.0	9.3	11.8	13.2	13.8	14.9	15.8	16.9	17.9	18.7	19.2	18.9	15.4	13.5	11.5	10.6	12.1	12.3	19.2	24
22	12.5	12.8	13.5	13.1	11.0	10.9	11.2	11.3	11.6	12.5	13.9	16.0	19.5	21.1	22.0	22.2	21.0	20.7	18.9	18.4	16.4	14.0	12.3	11.5	15.3	22.2	24
23	11.2	10.9	10.7	10.7	10.7	10.4	10.0	9.6	9.7	10.1	11.0	NA	12.7	13.5	14.0	14.2	14.1	13.4	12.2	11.9	10.4	8.8	8.2	7.8	11.1	14.2	23
24	8.6	10.3	11.0	11.4	12.2	12.6	13.3	13.7	14.1	15.0	16.0	16.4	17.1	18.4	20.6	22.2	23.3	23.1	22.0	20.6	18.8	18.1	18.2	18.2	16.5	23.3	24
25	18.2	18.3	18.2	18.1	17.9	17.9	17.8	17.7	19.2	20.1	21.7	22.7	23.5	24.3	25.3	24.7	23.2	23.3	22.9	23.6	22.4	21.2	20.7	20.5	21.0	25.3	24
26	20.1	18.6	18.8	19.1	19.1	19.0	19.0	19.1	19.9	21.0	NA	22.8	23.4	24.7	24.6	26.1	26.6	26.8	26.1	25.3	23.9	23.3	22.7	22.1	22.3	26.8	23
27	20.1	19.0	19.1	18.9	18.2	18.0	17.1	16.8	18.3	20.0	20.8	20.8	20.9	21.4	21.1	20.2	19.4	19.4	18.7	18.7	17.4	16.2	14.8	13.4	18.7	21.4	24
28	12.1	12.0	11.6	11.2	10.6	9.9	9.9	9.8	9.9	10.0	9.9	9.9	9.7	9.7	9.1	9.4	9.8	10.1	10.0	9.8	9.0	9.0	9.0	9.0	10.0	12.1	24
29	9.1	9.0	9.1	9.2	9.1	9.1	9.1	9.3	9.6	9.8	10.2	10.5	11.0	11.4	11.5	11.8	11.7	11.9	11.8	12.1	10.8	9.3	8.9	8.9	10.2	12.1	24
30	9.0	9.1	9.3	9.5	9.6	9.6	9.9	10.7	10.7	11.1	12.4	14.0	15.6	16.6	18.2	19.0	19.3	19.0	18.6	17.3	15.7	14.0	13.0	13.1	13.5	19.3	24
31	14.1	14.0	13.2	12.5	11.8	11.1	10.5	10.3	11.9	14.0	14.9	15.9	16.7	17.0	16.8	15.8	14.1	12.9	11.9	11.6	11.2	10.8	10.8	10.6	13.1	17.0	24
Hour Avg.:	12.5	12.1	11.8	11.7	11.7	11.6	11.4	11.9	13.4	14.8	15.8	17.3	17.9	18.3	18.6	18.5	18.3	18.2	17.8	17.3	16.1	14.5	13.4	12.8			
Hour Max.:	20.1	20.2	20.1	19.7	19.5	19.0	19.0	19.5	21.3	23.1	24.4	24.9	25.2	25.3	26.4	27.3	27.1	27.5	28.1	27.7	25.9	23.3	22.7	22.1			
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31			
Monthly Avg.:	14.9 °C	Standard Deviation:		5.1	Data Capture:		98.8 %	Total Valid Hours =																735			
System Codes:	NA - Not Available =		9		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																
	MISS - Data Not Collected =		0																								

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

August 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
1	81	86	92	91	90	89	88	82	74	68	68	64	60	57	52	45	50	50	42	44	57	76	85	90	70	92	24			
2	86	83	86	88	89	92	94	92	85	77	63	51	47	55	63	53	50	62	63	60	68	76	88	90	73	94	24			
3	94	97	96	95	94	94	96	90	80	NA	NA	56	50	57	52	47	44	43	42	46	49	59	73	83	70	97	22			
4	91	91	91	92	94	95	97	91	85	77	67	69	67	62	58	54	53	49	48	49	56	64	68	72	73	97	24			
5	78	86	94	95	95	95	97	95	86	76	63	45	46	40	37	39	39	38	41	41	47	60	66	67	65	97	24			
6	65	65	62	58	55	55	63	70	70	67	57	45	46	35	32	30	28	30	32	34	38	57	74	79	52	79	24			
7	80	83	85	89	88	89	86	79	63	49	42	39	38	37	35	31	28	36	46	45	56	62	75	84	60	89	24			
8	88	88	91	93	89	90	90	88	79	73	66	64	63	61	62	60	66	69	81	91	89	89	91	90	80	93	24			
9	92	92	92	92	93	94	93	93	91	90	80	70	57	54	77	93	96	94	92	85	89	94	94	94	94	87	96	24		
10	95	95	96	96	96	97	98	98	97	96	96	95	93	92	94	95	93	93	92	93	95	96	97	97	97	95	98	24		
11	97	97	97	97	97	97	97	97	97	97	97	97	96	95	95	95	96	96	97	98	97	94	96	96	96	96	98	24		
12	96	97	97	95	95	95	96	93	88	84	79	69	67	58	55	50	49	52	47	51	64	79	93	94	77	97	24			
13	95	96	95	95	95	94	96	95	86	73	63	58	47	44	46	44	42	44	46	50	59	75	89	94	72	96	24			
14	96	96	96	95	92	88	82	77	72	60	47	39	35	35	38	50	51	54	55	51	55	72	85	87	67	96	24			
15	88	84	80	83	80	77	76	73	65	58	54	50	47	47	46	42	42	43	42	47	55	61	65	68	61	88	24			
16	69	71	72	73	71	71	71	71	67	65	58	52	48	49	52	61	69	82	78	75	83	90	88	90	70	90	24			
17	91	93	92	93	93	93	94	92	87	NA	NA	NA	NA	NA	65	60	61	56	52	59	68	75	74	74	77	94	19			
18	77	83	91	92	91	91	90	90	86	77	69	61	56	61	65	91	86	70	59	63	67	73	75	69	76	92	24			
19	74	75	77	80	80	82	86	86	79	71	63	53	50	47	45	43	41	41	42	45	51	56	58	59	62	86	24			
20	59	73	73	71	73	76	76	79	71	61	57	53	46	39	33	30	29	37	43	48	55	66	70	68	58	79	24			
21	68	72	76	80	85	87	88	88	81	68	60	54	51	49	45	40	37	34	39	65	71	80	82	67	65	88	24			
22	63	59	57	63	83	87	91	89	90	94	92	88	76	72	69	68	79	75	79	80	86	91	96	94	80	96	24			
23	94	94	95	95	97	97	96	94	91	87	78	NA	65	60	58	57	55	61	70	68	79	91	86	82	80	97	23			
24	87	86	84	84	88	90	90	89	87	83	83	83	82	80	74	70	66	67	71	77	87	93	95	95	83	95	24			
25	95	95	95	95	96	96	96	97	93	90	82	75	71	68	63	71	80	79	82	78	84	88	89	89	85	97	24			
26	89	89	94	92	91	91	92	91	89	83	NA	74	72	66	69	65	63	63	64	77	82	79	76	79	79	94	23			
27	82	88	85	83	83	84	87	87	81	75	69	67	63	60	60	62	66	65	69	68	74	77	81	85	75	88	24			
28	91	89	88	86	88	90	90	89	87	84	86	85	84	84	90	88	84	82	82	82	86	87	88	88	87	91	24			
29	91	94	97	97	97	97	98	98	97	96	94	92	88	83	82	81	82	82	86	84	91	96	95	95	91	98	24			
30	93	92	93	91	89	88	85	84	91	94	93	88	83	80	75	74	73	71	65	72	79	81	84	83	83	94	24			
31	78	78	83	87	91	93	95	94	87	79	69	64	62	62	64	74	85	92	96	97	97	98	98	98	84	98	24			
Hour Avg.:	84.6	86.0	87.2	87.6	88.3	88.8	89.5	88.1	83.3	77.7	71.3	65.5	61.9	59.6	59.7	60.1	60.7	61.6	62.6	64.8	71.3	78.6	83.1	83.8						
Hour Max.:	97.0	97.0	97.0	97.0	97.0	97.0	98.0	98.0	97.0	97.0	97.0	97.0	96.0	95.0	95.0	95.0	96.0	96.0	97.0	98.0	97.0	98.0	98.0	98.0						
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31						
Monthly Avg.:	75 %		Standard Deviation:				18.2		Data Capture:				98.8 %				Total Valid Hours =										735			
							Hours										Hours								Hours					
System Codes:	NA		- Not Available =				9		AUD				- Audit =				0				ACAL				- Auto Cal =				0	
	RNG		- Range =				0		M&R				- Maintenance & Repair =				0				INOP				- InOperative =				0	
	Cal		- Calibration =				0		MCAL				- Manual Calibration =				0				PF				- Power Fail =				0	
	MISS		- Data Not Collected =				0																							

KMC EAGLE STATION
Solar Radiation (W/m2)
(One Hour Averages)

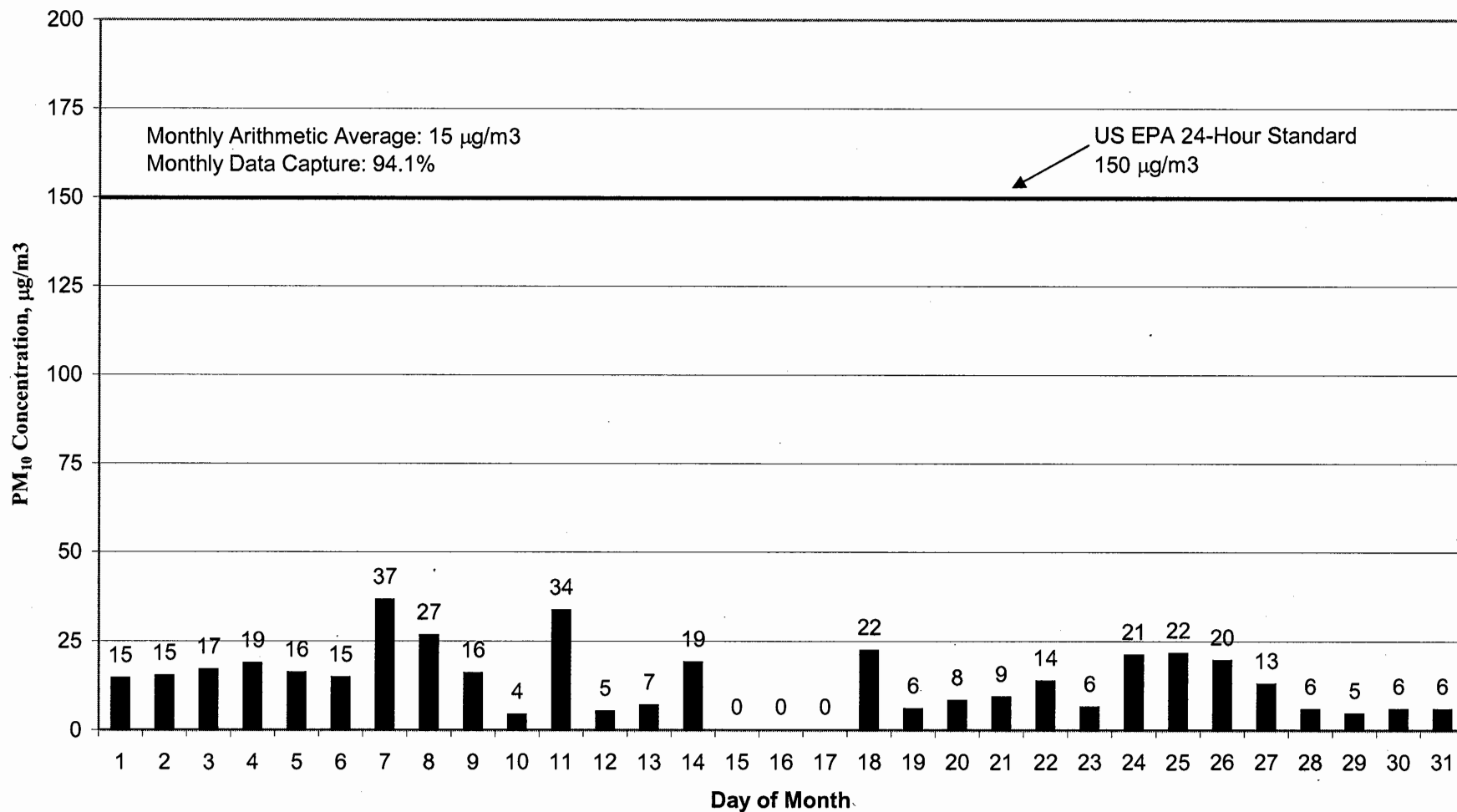
August 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	0	0	0	0	0	0	5	104	267	442	605	741	727	744	830	813	674	627	447	253	90	5	0	0	307	830	24
2	0	0	0	0	0	0	4	97	253	405	588	554	515	319	494	635	689	583	421	246	88	3	0	0	246	689	24
3	0	0	0	0	0	0	5	112	276	NA	NA	760	687	658	828	761	639	479	420	201	101	6	0	0	270	828	22
4	0	0	0	0	0	0	2	106	276	450	625	761	871	882	876	821	768	619	451	258	90	2	0	0	327	882	24
5	0	0	0	0	0	0	3	106	283	456	590	798	833	909	904	860	758	615	445	256	86	2	0	0	329	909	24
6	0	0	0	0	0	0	3	90	271	458	630	770	865	921	919	874	771	619	444	264	81	1	0	0	333	921	24
7	0	0	0	0	0	0	5	90	272	304	568	582	682	715	666	579	500	609	478	292	46	2	0	0	266	715	24
8	0	0	0	0	0	0	6	68	139	360	342	309	323	305	215	464	246	114	30	59	22	2	0	0	125	464	24
9	0	0	0	0	0	0	0	15	90	122	483	735	750	312	153	64	92	89	107	282	25	0	0	0	138	750	24
10	0	0	0	0	0	0	0	11	59	164	155	216	269	272	224	223	216	174	104	71	19	0	0	0	91	272	24
11	0	0	0	0	0	0	0	9	27	66	98	132	181	270	222	164	144	103	33	27	21	1	0	0	62	270	24
12	0	0	0	0	0	0	3	105	269	393	464	769	875	903	871	862	763	592	427	239	66	1	0	0	317	903	24
13	0	0	0	0	0	0	1	42	260	439	623	764	866	800	781	841	731	587	410	223	58	1	0	0	309	866	24
14	0	0	0	0	0	0	1	72	246	410	587	729	834	630	737	717	464	273	330	235	54	0	0	0	263	834	24
15	0	0	0	0	0	0	0	74	243	415	580	669	586	581	466	539	388	328	316	156	21	0	0	0	223	669	24
16	0	0	0	0	0	0	0	20	161	297	475	681	593	454	321	189	168	117	57	22	6	0	0	0	148	681	24
17	0	0	0	0	0	0	0	34	140	NA	NA	NA	NA	NA	754	625	488	399	337	182	35	0	0	0	158	754	19
18	0	0	0	0	0	0	0	43	143	294	462	665	727	480	495	138	391	555	291	78	13	0	0	0	199	727	24
19	0	0	0	0	0	0	0	64	253	356	510	745	750	844	862	816	710	560	379	164	37	0	0	0	294	862	24
20	0	0	0	0	0	0	0	58	242	430	601	737	844	899	891	839	726	571	389	203	38	0	0	0	311	899	24
21	0	0	0	0	0	0	0	61	239	416	586	712	825	855	866	813	705	555	371	123	38	0	0	0	299	866	24
22	0	0	0	0	0	0	0	4	7	17	134	409	754	374	475	333	221	245	91	77	1	0	0	0	131	754	24
23	0	0	0	0	0	0	0	10	78	138	323	NA	586	835	859	807	683	381	230	170	27	0	0	0	223	859	23
24	0	0	0	0	0	0	0	18	111	294	420	463	326	408	626	570	689	429	159	19	2	0	0	0	189	689	24
25	0	0	0	0	0	0	0	18	116	186	360	567	443	609	594	449	334	354	121	49	4	0	0	0	175	609	24
26	0	0	0	0	0	0	0	19	97	241	NA	493	552	644	307	596	550	327	154	63	3	0	0	0	176	644	23
27	0	0	0	0	0	0	0	30	199	376	481	605	736	823	798	607	314	282	149	152	10	0	0	0	232	823	24
28	0	0	0	0	0	0	0	8	64	69	117	164	183	163	107	120	151	171	121	109	10	0	0	0	65	183	24
29	0	0	0	0	0	0	0	6	42	96	153	176	227	196	213	178	124	135	101	153	13	0	0	0	76	227	24
30	0	0	0	0	0	0	0	21	10	51	156	472	488	271	534	550	551	389	318	88	7	0	0	0	163	551	24
31	0	0	0	0	0	0	0	31	202	367	537	671	638	583	432	194	110	114	53	21	2	0	0	0	165	671	24
Hour Avg.:	0	0	0	0	0	0	1	50	172	294	438	581	618	589	591	550	476	387	264	153	36	1	0	0			
Hour Max.:	0	0	0	0	0	0	6	112	283	458	630	798	875	921	919	874	771	627	478	292	101	6	0	0			
Readings	31	31	31	31	31	31	31	31	31	29	28	29	30	30	31	31	31	31	31	31	31	31	31	31			
Monthly Avg.:	213 W/m2		Standard Deviation:		276.7		Data Capture:		98.8 %														Total Valid Hours =		735		
System Codes:	NA	- Not Available =		9		AUD		- Audit =		0				ACAL		- Auto Cal =		0									
	RNG	- Range =		0		M&R		- Maintenance & Repair =		0				INOP		- InOperative =		0									
	Cal	- Calibration =		0		MCAL		- Manual Calibration =		0				PF		- Power Fail =		0									
	MISS	- Data Not Collected =		0																							

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
Rain Fall (mm)
(One Hour Averages)

August 2004																										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
DAY																										
1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.7	0	0	0	0	0.7	1
9	0	0	0	0	0	0	0	1.4	0	0.2	0	0.0	0	0	3.0	7.3	0.9	0	0	0	7.4	0	0.5	1.7	22.4	9
10	0	0.3	0.4	0	1.4	11.4	0	2.1	1.8	0	0.5	0	0.2	0.0	0	0	1.9	3.8	0	0	0.3	8.2	5.9	2.1	40.3	15
11	6.6	0	1.4	0	0	0	0.9	0	0.0	0	2.0	2.5	3.1	0	0.7	1.1	1.7	1.9	0.7	0.3	0.0	0	0.0	0.2	23.1	16
12	0	1.4	0	0.6	2.2	0	1.4	0	0	0	0	0	0.4	0	0	0.5	15.4	6.5	NA	NA	NA	NA	NA	NA	28.4	8
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.1	1.1	8.3	1.1	0.5	0.3	0.0	0.4	0.0	0	0.1	11.9	22
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.0	0.2	22
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0	0.1	0.0	0.2	22
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
22	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.6	0.0	0.3	0	0.1	0	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	3.5	19
23	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	22
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.4	23
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.2	22
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0	0.1	0	0.1	0.0	0.0	0.0	0.0	0	0.1	0	0.4	20
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.2	22
28	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3	0.5	0.0	0.0	0	0.0	0.2	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	2.1	22
30	0.0	0.0	0.0	0.5	0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	1.4	22
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Hour Max.:	6.6	1.4	1.4	0.6	2.2	11.4	1.4	2.1	1.8	2.3	2.0	2.5	3.1	0.1	3.0	8.3	15.4	6.5	0.7	0.7	7.4	8.2	5.9	2.1		
Readings	15	15	15	15	15	15	15	16	16	14	14	15	16	10	16	15	17	18	16	17	12	13	16	17		
Monthly Total:	136.7 mm										Data Capture: 48.8 %										Total Valid Hours =				363	
System Codes:	NA - Not Available = 306										AUD - Audit = 0										ACAL - Auto Cal = 0					
	RNG - Range = 0										M&R - Maintenance & Repair = 0										INOP - InOperative = 0					
	Cal - Calibration = 0										MCAL - Manual Calibration = 0										PF - Power Fail = 0					
	MISS - Data Not Collected = 0																									

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
AUGUST 2004



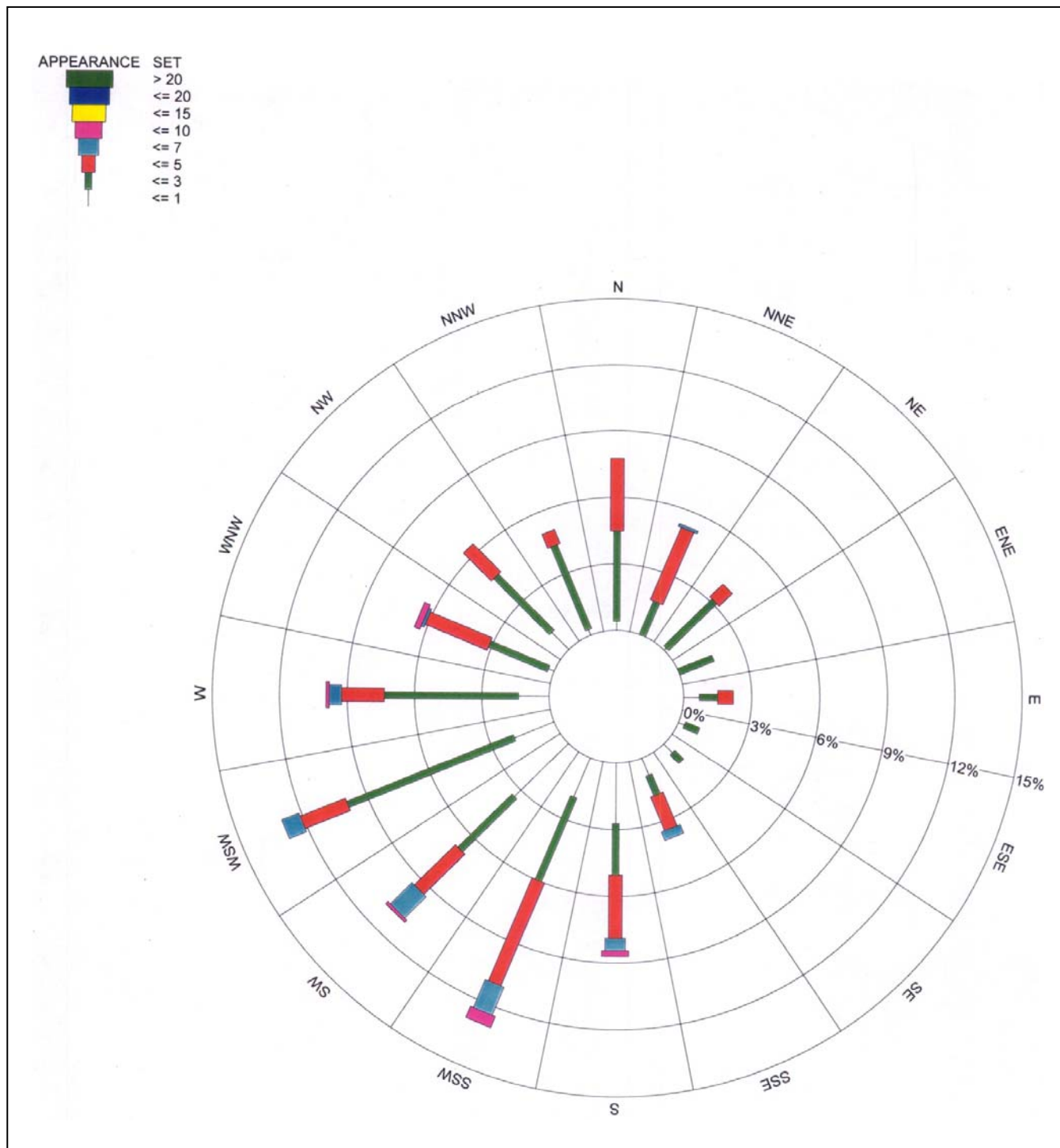


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 2.66626

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
AUGUST 2004**

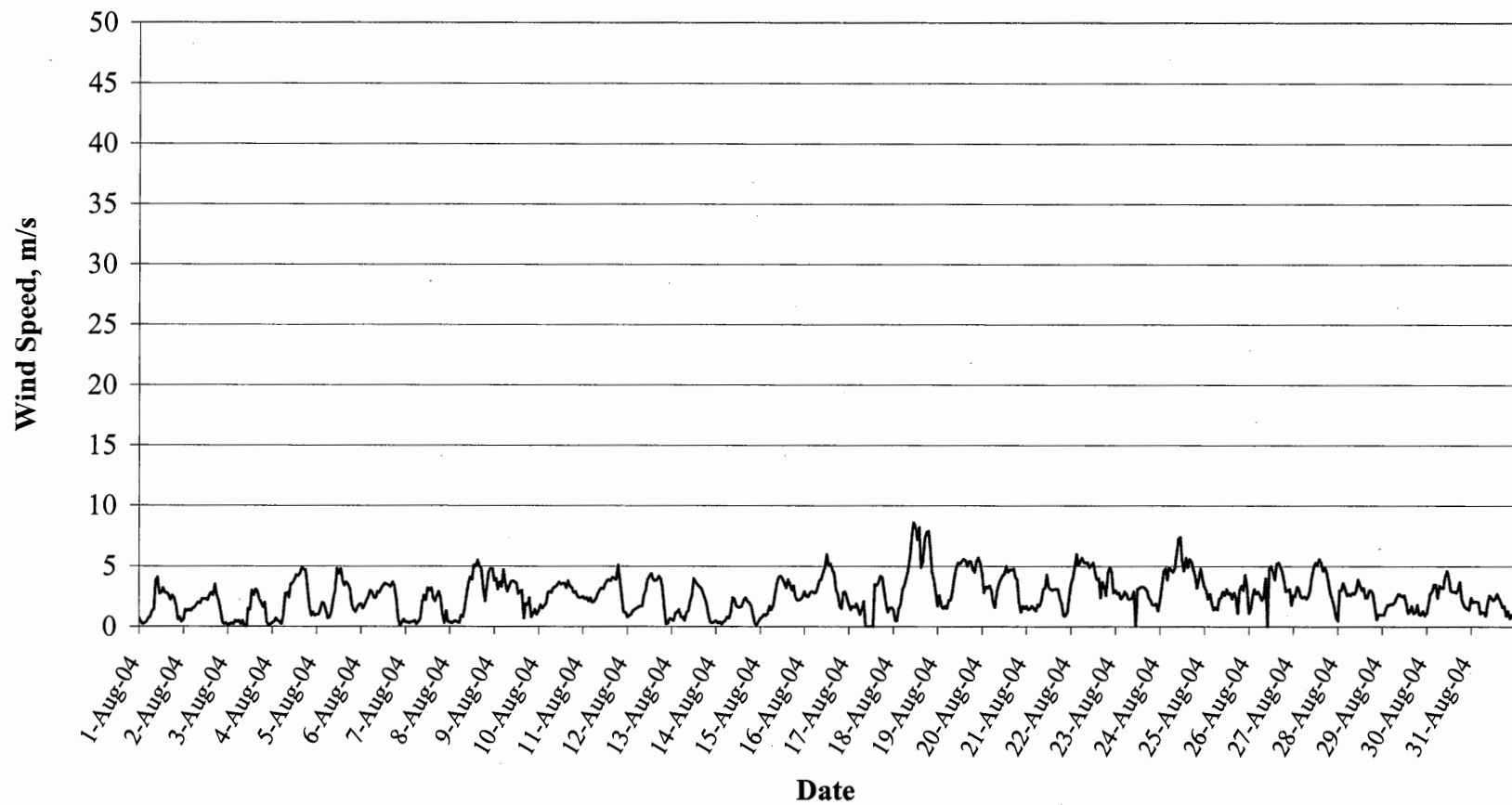


**Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
AUGUST 2004**

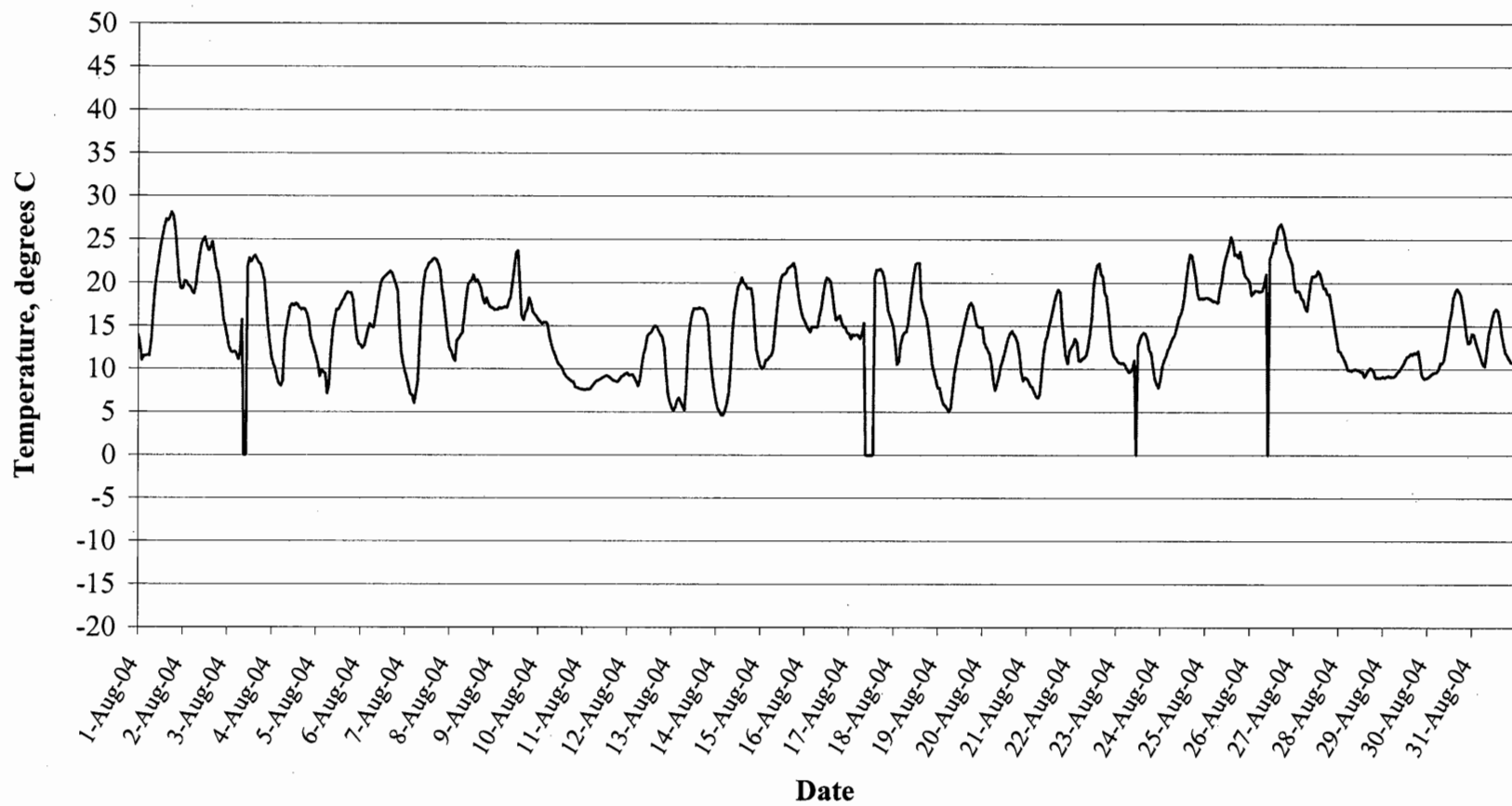


**Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
AUGUST 2004**

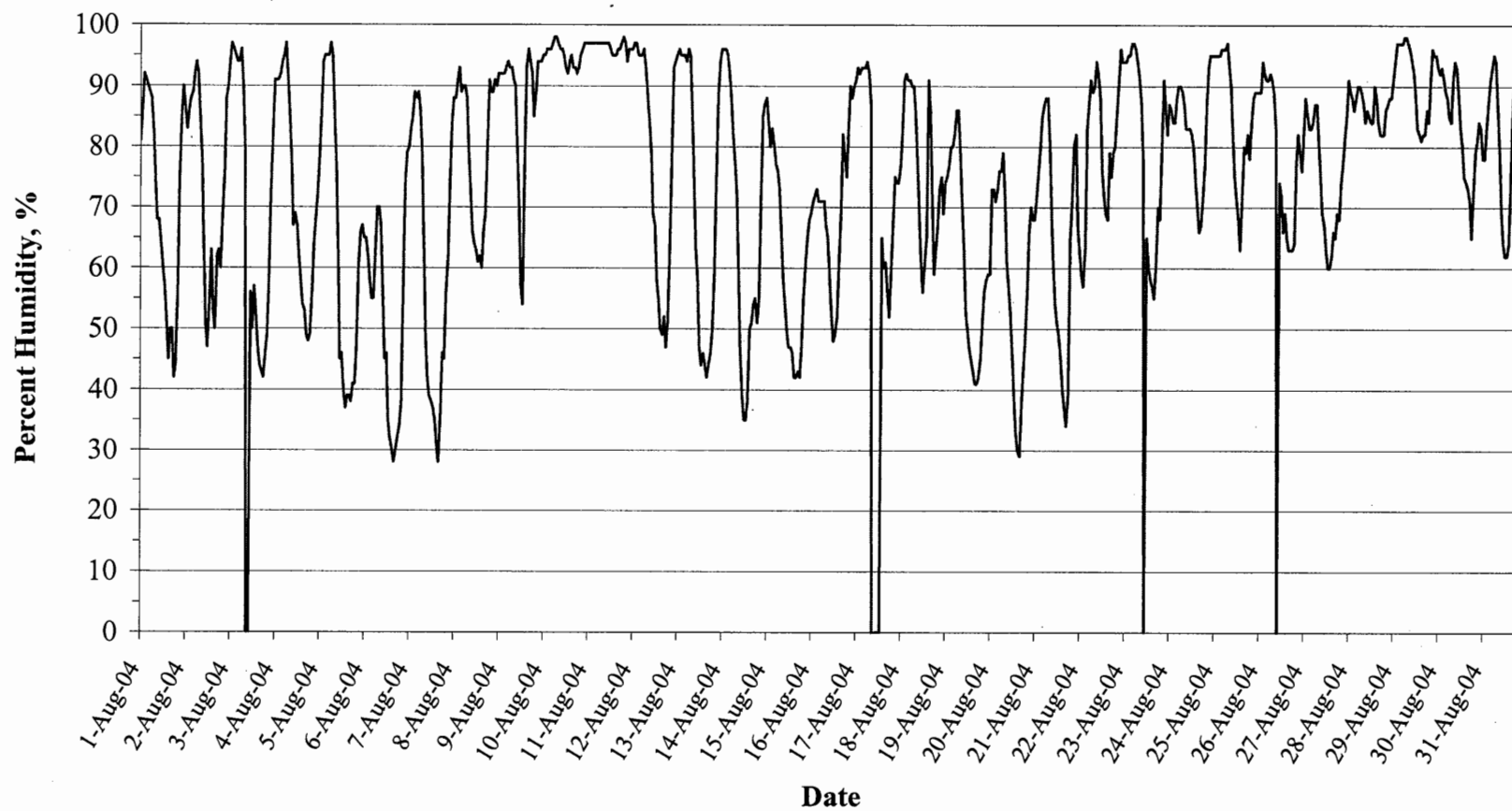


**Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
AUGUST 2004**

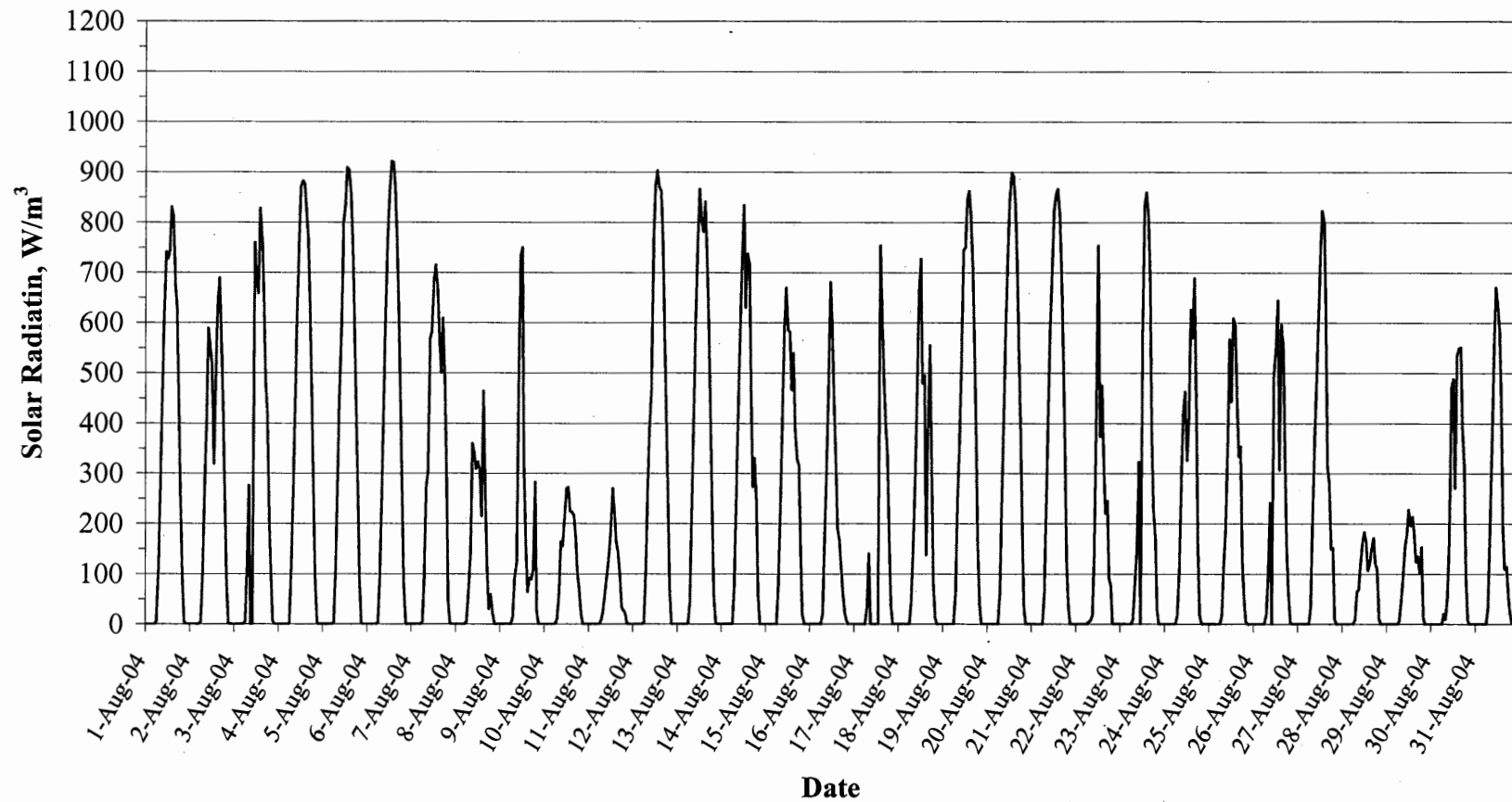
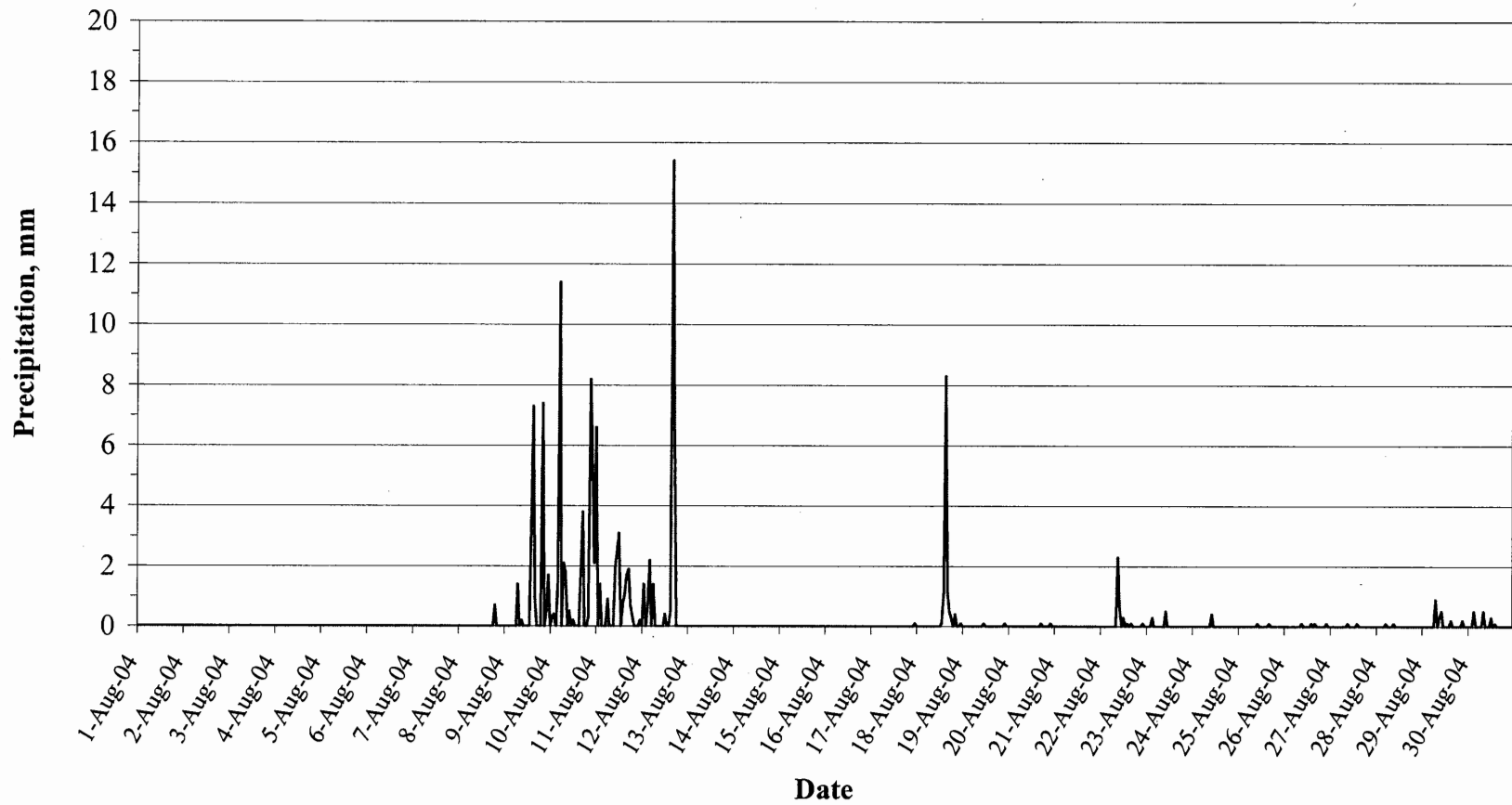


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
AUGUST 2004**



Appendix D

September 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
September 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	57	µg/m ³	5-Sep-04
Second Maximum 24-Hour (Daily) Concentration ² :	50	µg/m ³	4-Sep-04
Monthly Data Collection Efficiency:	100.0	%	
Monthly Arithmetic Average:	22	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - September 2004)	17	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SSW
Average Wind Direction Horizontal Deviation:	19 degrees
Average Wind Speed:	3.7 m/s
Average Temperature:	16.7 °C
Average Relative Humidity:	72 %
Average Solar Radiation:	174 W/m ²
Total Rain Fall:	33.1 mm
Monthly Data Collection Efficiency:	99.3 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	38.2 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	34.1 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PM₁₀ (µg/m³)
(One Hour Averages)

September 2004

September 2024																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	6	6	7	3	4	6	6	7	7	3	8	7	2	6	8	10	18	20	17	25	19	11	14	13	10	25	24
2	12	13	20	16	15	14	13	14	20	19	10	12	25	25	23	25	35	31	31	36	48	41	35	31	23	48	24
3	34	31	33	32	30	37	27	34	24	28	36	38	27	26	31	14	38	34	40	67	132	64	69	45	40	132	24
4	46	53	38	44	38	40	39	48	38	29	32	43	30	41	46	54	50	62	56	82	85	71	67	68	50	85	24
5	70	76	85	77	76	66	65	68	52	56	56	53	50	44	52	49	41	47	29	46	47	51	61	56	57	85	24
6	67	76	71	78	63	71	69	58	63	38	33	27	15	11	9	11	9	5	7	10	12	22	12	21	36	78	24
7	15	20	11	12	17	19	16	13	5	1	6	6	4	2	5	9	6	4	5	5	6	8	9	10	9	20	24
8	11	6	10	14	10	7	6	6	339	0	0	0	0	0	4	5	37	0	1	9	19	25	20	12	23	339	24
9	22	13	11	7	7	7	5	6	5	0	0	0	0	1	4	0	2	4	4	38	23	16	19	17	9	38	24
10	14	13	10	5	6	12	13	12	8	12	11	6	7	9	11	19	11	15	30	30	30	34	26	25	15	34	24
11	25	31	23	35	30	27	30	30	27	34	26	49	31	21	12	22	14	14	9	6	52	20	23	27	26	52	24
12	4	9	11	10	9	3	2	5	3	3	1	0	0	1	4	23	15	12	11	29	26	30	26	31	11	31	24
13	31	33	44	39	38	38	39	45	32	34	42	36	46	41	55	84	52	50	83	68	59	66	63	61	49	84	24
14	64	55	53	46	50	46	42	47	39	39	36	34	14	39	27	26	33	27	13	10	10	13	13	13	33	64	24
15	14	13	27	17	18	21	19	21	24	31	36	32	22	25	38	42	36	36	38	18	21	11	12	20	25	42	24
16	13	11	8	9	11	14	12	8	8	1	1	8	5	2	2	6	6	1	4	7	23	12	18	12	8	23	24
17	9	6	12	14	12	6	2	4	4	0	0	0	0	0	0	4	7	11	15	26	20	17	16	12	8	26	24
18	5	8	13	13	13	10	9	19	11	19	9	10	11	13	15	12	12	12	12	18	36	31	24	15	15	36	24
19	19	11	8	18	17	13	8	8	7	6	11	11	10	11	11	11	21	21	21	23	28	28	29	14	15	29	24
20	15	17	15	14	13	13	12	13	19	17	17	17	12	11	8	20	11	14	24	29	23	35	17	25	17	35	24
21	28	28	19	17	19	19	21	16	21	15	25	15	18	24	16	14	30	16	44	102	105	105	44	22	33	105	24
22	22	15	23	8	7	8	12	13	13	13	12	4	0	2	12	24	53	11	12	31	32	23	26	32	17	53	24
23	36	34	26	27	27	31	32	33	40	30	31	29	27	51	162	85	46	42	44	46	48	51	53	61	45	162	24
24	56	41	10	9	12	9	3	9	0	0	0	11	13	9	8	8	4	5	9	12	15	13	8	7	11	56	24
25	7	5	7	10	9	9	6	6	9	8	1	0	0	0	1	5	10	13	23	33	42	18	20	18	11	42	24
26	13	9	8	10	9	11	17	3	6	7	5	4	4	5	22	12	10	10	11	19	31	22	10	11	11	31	24
27	14	17	13	13	14	15	18	19	23	16	22	21	19	11	9	8	9	9	3	5	10	20	11	10	14	23	24
28	7	4	6	8	7	1	3	7	5	5	3	2	0	0	0	0	0	0	0	4	26	25	14	9	6	26	24
29	5	6	6	5	2	5	9	8	5	0	0	0	0	0	0	0	2	11	32	42	84	59	17	51	15	84	24
30	20	10	10	11	6	5	11	10	9	12	13	12	13	15	30	17	22	26	28	24	28	21	0	0	15	30	24
Hour Avg.:	24	22	21	21	20	19	19	20	29	16	16	16	13	15	21	21	21	19	22	30	38	32	26	25			
Hour Max.:	70	76	85	78	76	71	69	68	339	56	56	53	50	51	162	85	53	62	83	102	132	105	69	68			
Readings	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30			

Monthly Avg.: 21.9 µg/m³ Standard Deviation: 23.2 Data Capture: 100.0 % Total Valid Hours = 720

System Codes:	NA - Not Available =	0	AUD - Audit =	0	ACAL - Auto Cal =	0
	RNG - Range =	0	M&R - Maintenance & Repair =	0	INOP - InOperative =	0
	Cal - Calibration =	0	MCAL - Manual Calibration =	0	LF - Power Fail =	0
	MISS - Data Not Collected =	0	PF - Low Flow =	0		

Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)

September 2004																									Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	97	123	125	130	84	106	120	105	123	107	115	113	103	105	92	92	99	101	118	125	129	142	159	160	24
2	168	178	181	179	185	192	197	195	197	201	208	205	210	202	202	202	202	205	203	197	191	197	204	211	24
3	216	220	222	215	210	213	224	223	233	NA	NA	245	249	242	244	214	214	209	207	196	198	201	204	196	22
4	209	202	211	211	214	211	205	233	244	235	235	220	219	223	201	204	199	191	199	187	183	186	186	184	24
5	188	190	196	199	202	197	202	198	196	187	194	190	193	194	194	192	187	191	193	203	193	182	182	183	24
6	185	182	186	183	183	181	180	182	182	187	197	204	203	213	235	261	266	275	269	266	254	226	237	257	24
7	267	266	263	264	266	257	265	270	271	278	280	280	287	291	282	282	286	289	302	310	321	305	314	278	24
8	258	250	220	282	357	204	205	198	176	162	128	73	81	34	46	58	52	62	59	73	86	109	140	158	24
9	216	185	245	245	219	269	269	265	216	213	182	77	NA	30	20	28	41	61	83	118	146	152	153	155	23
10	169	172	183	210	223	209	208	186	191	202	196	202	199	200	194	192	189	194	192	195	194	198	205	200	24
11	196	205	206	211	216	214	215	225	232	253	263	270	260	276	242	288	268	269	273	270	254	260	251	152	24
12	165	165	259	266	231	288	190	48	49	77	122	85	121	152	151	145	153	143	90	109	140	176	181	186	24
13	196	206	213	215	222	203	195	197	199	197	195	194	194	193	188	178	180	187	187	189	185	188	188	185	24
14	187	191	194	197	202	198	202	202	201	206	207	221	218	203	214	221	231	241	219	207	205	221	201	308	24
15	180	175	164	221	153	125	191	143	150	178	177	170	167	173	178	176	179	180	173	194	196	201	205	212	24
16	221	231	242	247	245	253	257	260	257	269	270	279	278	281	281	285	283	283	282	277	264	227	256	308	24
17	322	273	241	285	248	224	163	171	159	160	NA	170	170	150	199	206	216	217	193	160	139	168	187	198	23
18	201	204	200	205	216	200	202	202	209	229	231	216	229	360	59	55	92	94	112	135	158	160	160	160	24
19	159	188	207	205	198	192	192	195	194	193	193	191	187	191	191	191	189	192	197	197	194	199	201	200	24
20	202	201	207	217	217	208	212	211	210	209	NA	204	204	200	197	201	192	188	188	184	191	188	193	194	23
21	200	207	212	210	214	215	206	208	210	227	219	228	228	227	232	235	234	19	48	216	307	244	335	293	24
22	247	205	203	202	233	261	262	327	358	23	72	54	73	52	37	44	68	61	83	121	150	171	171	168	24
23	190	207	213	208	205	203	203	206	180	200	200	202	183	179	181	185	182	180	179	176	180	185	193	188	24
24	200	226	195	201	202	194	183	175	179	207	214	227	242	237	249	249	247	244	239	240	234	234	247	258	24
25	274	284	314	325	324	321	320	298	269	292	285	276	287	283	271	259	265	267	256	234	228	235	248	248	24
26	257	263	236	228	250	247	247	251	236	246	262	270	259	244	233	228	232	231	218	213	206	216	215	226	24
27	231	241	244	244	243	250	246	238	240	238	250	285	319	358	6	360	1	344	339	328	338	355	354	5	24
28	13	10	14	14	15	17	18	11	4	10	5	13	5	5	358	331	334	342	304	265	241	253	236	244	24
29	234	238	234	236	217	227	250	236	257	231	268	261	269	275	228	288	45	57	88	120	147	200	199	202	24
30	213	254	252	251	246	248	257	248	228	229	228	228	219	201	199	203	202	202	199	196	196	200	207	214	24
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30	

Data Capture: 99.3 %

Total Valid Hours = 715

Hours			Hours			Hours			
System Codes:	NA	- Not Available =	5	AUD	- Audit =	0	ACAL	- Auto Cal =	0
	RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
	Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	0
	MISS	- Data Not Collected =	0						

Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)

September 2004																									Daily Avg.	Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	38	23	19	21	36	26	33	22	20	21	18	22	21	25	25	24	21	20	16	11	15	16	13	16	22	24
2	14	10	12	11	12	14	13	12	13	14	15	18	18	16	19	17	16	16	14	13	11	12	14	13	14	24
3	13	15	16	13	12	11	14	14	16	NA	NA	18	22	22	31	23	22	18	19	15	11	7	18	24	17	22
4	14	11	12	10	11	12	7	22	11	13	16	18	23	23	23	22	21	18	18	14	10	9	9	11	15	24
5	11	12	12	13	12	12	11	12	12	13	13	14	15	14	16	15	14	14	15	14	15	16	13	12	13	24
6	11	12	12	12	12	13	14	13	13	14	15	15	16	18	23	20	19	19	20	18	16	16	21	16	16	24
7	18	18	17	18	18	16	17	17	20	18	20	19	21	23	21	20	22	22	28	25	23	25	24	22	21	24
8	22	36	16	84	16	68	36	45	86	16	34	35	51	32	27	32	28	21	27	27	23	22	28	21	35	24
9	58	35	4	50	50	1	0	13	0	8	24	47	NA	48	37	32	22	30	25	16	19	10	8	14	24	23
10	11	12	18	19	20	14	15	14	13	16	14	16	17	16	17	16	16	15	15	14	13	13	20	14	15	24
11	18	14	14	14	15	14	14	16	17	17	18	19	23	25	20	31	21	17	20	18	15	11	57	50	21	24
12	48	8	30	61	82	35	57	51	23	30	27	26	18	25	20	19	21	31	18	17	21	13	12	14	29	24
13	14	17	20	25	21	17	13	12	13	14	14	15	16	16	16	15	15	14	15	13	13	12	12	12	15	24
14	12	12	13	13	14	13	14	14	14	14	16	17	17	14	16	16	22	22	20	13	13	24	25	77	19	24
15	36	49	19	18	33	16	78	24	21	14	14	15	21	15	13	13	13	13	14	20	14	14	14	17	22	24
16	17	19	18	19	18	17	17	17	18	20	20	19	20	21	21	20	21	22	18	16	22	25	12	44	20	24
17	40	0	36	23	14	31	0	9	14	18	NA	39	45	33	36	32	20	19	12	14	14	15	15	14	21	23
18	14	13	13	15	19	14	12	11	14	18	23	29	26	35	65	25	20	25	22	15	14	9	11	13	20	24
19	19	15	18	15	14	13	12	13	14	13	14	13	13	14	13	13	13	13	14	13	13	15	15	15	14	24
20	15	14	15	17	17	16	14	15	14	15	NA	15	17	17	16	16	15	16	14	12	13	14	13	13	15	23
21	15	16	15	14	14	15	12	14	14	19	17	20	29	29	29	25	33	25	37	84	27	51	12	28	25	24
22	15	22	9	8	18	11	21	37	22	23	32	19	29	26	22	23	24	24	22	19	12	12	14	16	20	24
23	9	12	10	8	8	7	8	11	15	12	15	28	16	15	16	13	13	14	13	12	12	13	12	12	13	24
24	15	20	14	13	14	16	12	13	17	18	17	22	18	18	20	19	21	17	18	15	14	16	18	18	17	24
25	18	19	28	24	23	22	20	22	20	25	31	25	29	31	24	21	24	18	17	14	12	15	13	14	21	24
26	15	16	16	17	14	11	21	16	15	16	17	19	22	24	23	21	22	18	15	12	12	14	13	16	17	24
27	16	16	15	16	15	17	15	14	15	15	19	30	28	19	19	15	18	18	16	15	18	11	15	12	17	24
28	12	13	12	12	11	13	12	16	10	14	19	26	23	20	21	29	25	17	32	17	13	16	19	17	17	24
29	13	10	13	22	24	23	14	30	26	20	23	20	23	27	52	45	30	19	22	16	5	38	35	23	24	24
30	24	7	12	12	12	14	13	16	15	14	17	21	20	17	17	18	16	15	15	13	13	13	15	14	15	24
Hour Avg.:	19.8	16.5	15.9	20.6	20.0	17.4	18.0	18.5	17.8	16.6	19.3	22.0	22.7	22.6	23.9	21.7	20.3	19.0	19.0	17.8	14.9	16.6	17.3	20.1		
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30		
Monthly Avg.:	19 °	Standard Deviation:					10.3	Data Capture:					99.3 %	Total Valid Hours =										715		
System Codes:	NA	- Not Available =					Hours	5	AUD	- Audit =					Hours	0	ACAL	- Auto Cal =					Hours	0		
	RNG	- Range =					0		M&R	- Maintenance & Repair =					0		INOP	- InOperative =					0			
	Cal	- Calibration =					0		MCAL	- Manual Calibration =					0		PF	- Power Fail =					0			
	MISS	- Data Not Collected =					0																			

Table 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

WIND SPEED - m/s

(One Hour Averages)

September 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	0.7	1.2	1.3	1.1	1.2	1.4	1.5	1.2	1.3	1.5	2.0	2.1	1.7	1.8	2.0	2.2	2.0	1.6	2.1	1.8	1.9	1.5	2.4	2.4	1.7	2.4	24
2	2.7	3.3	2.7	2.5	3.0	3.0	3.4	3.4	4.0	3.7	4.0	4.5	5.3	5.8	5.5	5.3	6.2	5.9	4.8	3.8	3.9	4.5	4.6	4.6	4.2	6.2	24
3	3.7	3.3	3.8	4.9	4.2	3.1	2.4	3.2	3.5	NA	NA	4.2	3.8	3.6	3.1	3.8	4.0	4.2	4.1	3.2	2.1	1.3	0.9	1.8	3.3	4.9	22
4	2.2	2.1	2.2	2.2	2.2	1.5	1.7	1.4	1.7	1.3	1.9	2.4	2.9	3.6	4.2	4.4	4.0	4.2	3.7	3.5	3.1	3.0	2.9	3.6	2.7	4.4	24
5	3.8	3.5	3.3	3.5	3.4	3.4	3.2	3.1	3.7	4.1	5.3	6.2	6.4	6.0	6.1	6.0	7.4	6.8	5.9	4.3	4.8	4.7	5.4	6.0	4.8	7.4	24
6	7.2	6.1	7.7	8.1	8.2	8.1	7.8	8.1	7.3	7.0	6.0	5.7	6.3	6.9	6.9	7.8	7.3	6.7	6.3	4.6	4.0	2.2	3.1	4.0	6.4	8.2	24
7	4.2	3.8	4.8	4.8	4.5	4.6	4.8	4.8	3.9	4.5	5.1	5.3	4.4	4.9	4.9	5.0	3.6	3.3	3.1	2.9	2.1	1.0	0.7	0.9	3.8	5.3	24
8	0.7	0.5	0.1	0.2	0.6	0.2	0.2	0.3	0.2	0.6	1.5	1.6	1.9	2.3	3.0	3.0	3.0	3.0	2.5	2.2	1.4	1.2	0.7	1.0	1.3	3.0	24
9	0.4	0.5	0.3	0.3	0.2	0.1	0.2	0.3	0.0	0.2	0.4	1.1	NA	1.9	2.1	2.9	2.8	2.8	2.1	1.7	1.3	1.6	2.1	1.7	1.2	2.9	23
10	2.9	3.3	2.7	3.3	2.6	2.8	2.3	2.9	2.9	4.1	5.8	6.0	5.7	6.1	6.4	6.5	7.2	6.6	6.3	7.3	8.6	8.3	4.8	4.6	5.0	8.6	24
11	3.5	5.0	4.7	5.5	5.1	4.8	4.0	3.5	4.1	3.8	4.4	4.4	3.8	3.7	3.2	2.5	3.2	3.1	2.8	2.1	1.1	0.9	0.6	0.7	3.4	5.5	24
12	0.7	0.3	0.3	0.5	0.5	0.2	0.3	1.0	1.6	1.5	1.9	1.7	2.3	2.6	3.4	3.7	4.3	3.9	3.0	2.4	2.7	4.6	4.8	3.9	2.2	4.8	24
13	4.7	3.3	2.1	1.6	1.5	2.4	4.9	5.7	5.0	5.2	5.6	5.7	7.2	7.4	7.3	7.9	7.6	8.2	8.0	8.6	8.0	9.0	9.2	9.5	6.1	9.5	24
14	9.6	9.4	9.2	9.5	9.7	8.4	8.7	7.7	7.1	6.8	6.1	5.1	4.3	3.4	3.7	2.4	2.4	2.3	2.2	2.2	2.2	1.5	1.1	1.1	5.3	9.7	24
15	0.8	0.7	1.9	1.3	1.5	2.1	0.8	1.4	2.2	3.8	3.9	3.8	2.9	5.3	7.7	8.5	8.5	7.2	6.3	8.3	6.6	7.1	8.5	9.3	4.6	9.3	24
16	8.4	7.7	6.8	7.4	6.6	7.6	7.6	7.1	7.5	7.3	6.6	7.4	7.6	7.1	7.0	6.8	7.2	5.5	4.9	3.3	1.7	1.2	1.3	1.5	6.0	8.4	24
17	0.8	0.0	0.2	0.0	0.1	0.1	0.1	0.2	0.4	2.5	NA	1.9	1.8	2.3	3.0	3.0	3.5	2.5	2.5	1.3	1.2	2.9	2.9	3.9	1.6	3.9	23
18	4.1	4.0	4.2	3.5	2.7	2.3	2.0	2.2	2.2	2.4	2.1	1.6	3.0	2.8	3.1	2.5	3.0	2.5	2.1	1.9	1.8	2.5	2.4	2.4	2.6	4.2	24
19	2.2	2.4	2.6	4.5	6.0	5.8	6.8	6.6	7.1	7.4	7.7	9.0	9.2	9.5	10.0	9.5	9.3	8.3	8.1	7.7	7.4	6.1	5.8	6.7	6.9	10.0	24
20	7.3	7.6	7.6	5.2	5.4	5.9	7.5	7.8	8.6	7.3	NA	7.1	6.0	6.3	6.7	5.4	5.0	5.7	5.6	4.1	4.7	5.2	5.5	7.4	6.3	8.6	23
21	6.8	6.9	6.4	6.8	5.7	4.7	4.9	4.0	4.3	3.7	4.1	3.6	3.0	3.1	3.1	3.9	4.2	2.7	1.5	0.4	1.6	0.4	0.7	1.0	3.6	6.9	24
22	0.8	0.8	1.0	1.0	0.9	0.8	0.4	0.7	1.6	1.3	1.1	1.9	2.1	2.2	3.1	3.4	2.5	2.1	1.8	1.8	1.5	2.0	2.0	2.4	1.6	3.4	24
23	3.2	2.9	3.6	2.5	2.2	2.3	2.3	2.1	1.9	2.5	1.6	1.4	3.2	4.9	6.4	6.2	4.7	6.1	6.3	6.3	7.4	7.6	6.9	5.9	4.2	7.6	24
24	5.4	4.4	4.1	4.3	3.9	3.3	2.4	3.1	4.0	5.4	5.1	5.2	5.1	5.0	6.0	5.7	4.6	4.5	3.9	3.6	3.0	2.7	3.0	3.9	4.2	6.0	24
25	3.8	3.7	2.8	2.8	2.9	2.6	1.8	1.3	1.1	2.0	2.1	2.6	2.9	3.0	3.6	3.7	3.5	3.9	3.2	2.0	2.0	2.3	3.2	2.7	2.7	3.9	24
26	2.7	2.8	2.2	1.5	1.9	1.6	1.7	2.0	1.9	2.7	3.7	4.1	3.6	3.7	3.9	4.3	4.3	4.1	3.6	3.1	3.5	4.6	4.8	4.7	3.2	4.8	24
27	4.4	4.4	3.5	3.5	3.5	3.1	3.3	2.4	2.6	2.6	3.3	3.9	4.5	3.8	3.2	3.1	3.0	2.3	2.4	1.4	1.6	1.5	2.0	2.9	3.0	4.5	24
28	4.6	4.1	4.5	4.5	3.7	3.3	3.3	2.4	2.2	3.0	3.9	3.5	3.3	3.6	3.5	2.9	3.2	2.9	1.9	1.1	1.3	1.2	1.3	1.6	3.0	4.6	24
29	1.2	0.7	1.5	0.6	1.2	0.8	1.1	1.1	2.0	1.4	2.7	3.7	3.7	2.5	1.8	1.7	2.4	2.4	1.2	0.9	1.4	0.2	0.2	0.2	1.5	3.7	24
30	0.5	0.7	1.5	1.7	1.4	1.8	1.6	1.4	2.0	3.1	3.1	3.9	4.8	5.2	5.3	5.7	5.8	5.5	4.3	4.3	6.2	5.8	5.7	5.4	3.6	6.2	24
Hour Avg.:	3.5	3.3	3.3	3.3	3.2	3.1	3.1	3.1	3.3	3.5	3.7	4.0	4.2	4.3	4.6	4.7	4.7	4.4	3.9	3.4	3.3	3.3	3.3	3.6			
Hour Max.:	9.6	9.4	9.2	9.5	9.7	8.4	8.7	8.1	8.6	7.4	7.7	9.0	9.2	9.5	10.0	9.5	9.3	8.3	8.1	8.6	8.6	9.0	9.2	9.5			
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30			
Monthly Avg.:	3.7 m/s		Standard Deviation:				2.3		Data Capture:		99.3 %												Total Valid Hours =				715
System Codes:	NA - Not Available =		Hours				5		AUD - Audit =		Hours												Hours				0
	RNG - Range =		0				0		M&R - Maintenance & Repair =		0												INOP - InOperative =				0
	Cal - Calibration =		0				0		MCAL - Manual Calibration =		0												PF - Power Fail =				0
	MISS - Data Not Collected =		0				0																				

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

September 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY																												
1	10.5	10.6	10.7	10.9	10.7	10.2	10.2	10.4	10.7	10.7	10.7	11.5	12.3	13.2	13.4	13.4	13.3	13.4	13.3	13.1	13.2	13.2	13.4	13.5	11.9	13.5	24	
2	13.6	14.1	14.7	14.8	14.4	14.4	14.5	15.1	15.4	16.5	18.4	21.1	22.6	23.1	23.5	25.2	26.1	26.7	27.2	26.5	24.7	24.1	23.7	23.0	20.1	27.2	24	
3	22.3	21.8	21.4	21.3	20.3	19.6	19.6	19.6	20.8	NA	NA	23.8	25.0	25.9	26.8	27.4	27.8	27.9	27.7	27.2	26.0	23.5	21.1	20.5	23.5	27.9	22	
4	20.6	20.0	19.7	19.3	19.1	19.0	18.4	18.0	18.0	19.2	21.8	23.4	24.5	24.9	26.1	26.4	26.7	27.0	27.1	26.4	25.0	23.0	21.7	21.2	22.4	27.1	24	
5	20.5	20.0	19.6	19.5	19.2	19.0	18.6	18.1	18.2	18.7	20.6	22.1	23.7	23.8	25.0	25.6	26.4	25.6	25.5	23.0	23.2	22.7	22.4	22.0	21.8	26.4	24	
6	21.6	21.3	21.5	21.7	21.8	22.0	22.2	22.0	21.3	21.0	21.3	21.3	22.2	22.8	21.4	17.9	17.5	18.4	18.9	18.8	18.4	16.5	16.3	16.8	20.2	22.8	24	
7	15.6	14.5	13.8	13.3	12.9	12.6	12.2	11.7	12.0	12.7	13.3	13.9	14.2	15.2	15.7	15.9	16.0	16.1	16.3	16.0	15.3	13.7	13.6	12.8	14.1	16.3	24	
8	11.4	10.2	8.5	8.3	8.5	6.8	6.8	6.8	6.2	7.4	11.8	13.9	15.0	15.7	15.7	15.5	15.1	14.9	14.5	13.4	11.3	9.4	8.1	11.3	15.7	24		
9	7.3	5.9	5.0	4.2	3.4	3.0	2.6	3.0	2.1	4.6	11.1	15.7	NA	17.7	18.3	18.4	18.2	17.7	16.9	15.7	13.5	12.0	11.8	12.1	10.4	18.4	23	
10	13.1	13.8	13.8	14.7	14.4	14.0	14.8	14.6	14.8	16.1	18.0	20.0	22.0	22.9	23.9	24.4	24.7	24.5	23.5	22.4	21.7	21.4	20.5	19.7	18.9	24.7	24	
11	19.1	19.1	19.1	19.3	19.5	19.8	19.8	19.3	19.0	19.7	20.7	21.2	20.6	20.7	21.3	20.8	21.2	21.4	21.5	20.1	17.4	15.6	14.3	12.2	19.3	21.5	24	
12	11.0	9.9	10.1	9.2	8.1	9.0	9.9	11.3	11.7	11.8	12.1	12.7	13.8	17.3	19.6	21.1	22.1	22.3	18.6	17.2	17.6	18.4	17.9	17.6	14.6	22.3	24	
13	17.0	16.9	16.8	16.8	16.7	16.6	16.9	17.0	17.8	19.5	21.4	23.5	25.1	26.0	26.7	26.9	26.8	26.4	25.4	24.4	22.8	21.9	21.5	21.0	21.3	26.9	24	
14	20.6	20.6	21.0	21.5	21.8	21.2	21.2	20.4	20.1	20.1	21.4	23.2	23.5	22.7	22.0	21.7	20.4	19.1	18.5	18.6	18.2	18.1	18.3	18.2	20.5	23.5	24	
15	17.9	18.0	18.1	18.4	18.5	18.3	18.2	18.3	18.3	18.7	19.2	19.3	19.8	21.1	21.5	22.4	23.3	21.9	21.9	20.2	19.5	19.9	18.9	18.3	19.6	23.3	24	
16	16.9	15.4	13.3	11.6	10.9	10.3	9.9	9.7	10.1	10.5	11.0	11.8	12.5	13.3	13.9	14.1	14.3	14.4	14.3	13.4	11.4	10.7	10.2	10.0	12.2	16.9	24	
17	8.6	6.4	5.1	4.2	3.3	2.6	1.7	1.2	3.6	8.2	NA	13.8	16.0	17.6	18.8	19.2	18.8	17.7	17.3	16.4	15.5	14.8	14.5	14.4	11.3	19.2	23	
18	14.2	13.9	14.2	13.7	13.2	12.8	12.8	12.3	12.9	14.6	17.0	19.6	21.0	21.6	21.3	21.2	21.1	20.6	19.3	17.7	15.4	15.7	15.8	15.6	16.6	21.6	24	
19	15.3	15.1	14.7	14.7	14.7	14.5	14.5	14.8	15.1	16.5	18.1	20.0	21.7	23.0	23.7	24.1	24.4	24.2	23.5	22.4	21.1	19.9	19.1	18.5	18.9	24.4	24	
20	18.4	18.8	18.4	18.2	18.1	17.9	17.6	17.2	17.4	18.6	NA	21.1	22.3	23.6	24.5	23.3	23.2	23.8	22.6	20.9	19.9	18.9	17.7	17.0	20.0	24.5	23	
21	16.6	16.6	16.8	16.6	16.7	16.7	15.5	14.7	15.3	16.8	18.1	20.2	22.0	23.2	24.3	25.8	26.2	22.6	21.1	20.5	18.3	16.8	16.0	15.4	18.9	26.2	24	
22	14.8	15.3	16.2	16.7	17.1	17.1	17.0	16.8	16.0	15.1	15.6	16.0	17.1	19.7	21.8	20.8	20.5	20.5	19.2	17.9	17.2	17.8	17.8	17.6	17.6	21.8	24	
23	17.3	16.5	16.3	15.6	15.2	15.5	15.0	14.8	15.3	18.0	18.5	20.6	23.3	23.5	24.8	24.4	23.5	24.2	23.6	22.5	21.2	20.2	19.6	19.2	19.5	24.8	24	
24	19.5	18.0	16.4	15.4	14.5	13.3	12.6	13.0	14.0	15.4	16.1	15.2	14.2	14.2	15.1	15.9	15.5	15.1	14.8	13.8	13.3	13.1	13.3	13.3	14.8	19.5	24	
25	13.4	13.1	12.3	11.7	11.4	10.9	10.0	9.2	9.2	11.2	12.9	14.4	15.7	16.6	17.6	18.5	19.3	19.4	19.1	17.3	15.7	15.1	14.9	14.7	14.3	19.4	24	
26	15.5	15.6	14.7	13.9	14.0	13.4	13.3	13.6	13.8	16.5	18.8	20.0	21.1	22.1	22.8	23.4	23.5	23.4	22.5	20.3	18.5	18.7	18.1	17.7	18.1	23.5	24	
27	17.3	16.5	15.9	15.9	16.0	16.2	15.4	14.8	15.0	15.3	17.6	19.7	17.6	14.1	12.4	12.5	12.9	13.6	14.0	12.8	11.7	10.5	10.1	10.2	14.5	19.7	24	
28	10.0	9.1	8.7	8.4	7.8	7.8	7.8	7.3	7.1	8.4	9.1	10.0	10.9	11.4	12.2	13.0	13.1	13.1	12.9	11.0	8.0	6.5	5.4	6.1	9.4	13.1	24	
29	6.4	6.2	7.4	5.5	4.4	5.9	6.6	6.4	8.5	10.8	13.0	14.6	15.6	16.9	18.6	19.9	18.8	17.0	15.2	13.8	11.0	9.0	7.6	6.8	11.1	19.9	24	
30	7.3	7.4	8.6	8.5	8.2	7.6	7.4	7.5	8.4	10.3	12.7	15.7	17.6	18.3	18.9	20.3	20.8	20.4	19.3	17.7	17.2	16.4	16.0	15.7	13.7	20.8	24	
Hour Avg.:	15.1	14.7	14.4	14.1	13.8	13.6	13.4	13.3	13.6	14.6	16.3	18.0	19.1	19.7	20.4	20.7	20.7	20.5	19.9	18.8	17.5	16.6	16.0	15.6				
Hour Max.:	22.3	21.8	21.5	21.7	21.8	22.0	22.2	22.0	21.3	21.0	21.8	23.8	25.1	26.0	26.8	27.4	27.8	27.9	27.7	27.2	26.0	24.1	23.7	23.0				
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30				
Monthly Avg.:	16.7 °C		Standard Deviation:				5.2	Data Capture:				99.3 %		Total Valid Hours =										715				
							Hours						Hours										Hours					
System Codes:	NA		- Not Available =				5		AUD		- Audit =		0		ACAL		- Auto Cal =		0									
	RNG		- Range =				0		M&R		- Maintenance & Repair =		0		INOP		- InOperative =		0									
	Cal		- Calibration =				0		MCAL		- Manual Calibration =		0		PF		- Power Fail =		0									
	MISS		- Data Not Collected =				0																					

Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

September 2004																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	98	98	98	95	95	97	98	97	95	94	96	96	95	94	94	94	95	95	95	96	97	98	99	98	96	99	24
2	98	98	97	96	96	97	97	96	97	95	90	83	80	80	77	70	67	67	67	69	78	80	77	77	85	98	24
3	79	80	80	81	85	87	86	85	79	NA	NA	66	61	53	49	46	43	43	45	48	53	65	75	76	67	87	22
4	78	81	83	85	85	84	86	87	85	80	72	67	60	56	49	47	45	43	44	49	57	66	73	76	68	87	24
5	82	86	89	90	90	89	89	90	89	86	78	73	69	72	68	64	62	65	67	75	79	79	84	87	79	90	24
6	87	87	82	81	80	79	78	79	86	90	87	85	78	71	69	69	67	62	59	61	61	68	69	66	75	90	24
7	68	69	72	74	77	78	80	83	80	76	75	74	74	71	69	68	69	70	69	71	75	83	84	87	75	87	24
8	92	94	97	98	98	98	98	98	98	96	84	72	62	59	59	59	61	64	64	66	74	83	90	92	82	98	24
9	94	96	97	97	98	98	98	97	97	89	73	49	NA	50	51	53	55	54	55	56	67	72	71	66	75	98	23
10	65	66	73	75	78	81	77	77	73	73	69	62	54	50	49	48	46	48	53	58	61	63	68	72	64	81	24
11	75	75	74	73	71	70	71	73	76	76	73	71	72	70	60	62	61	58	55	63	75	83	88	94	72	94	24
12	97	97	98	98	98	99	99	99	99	99	99	99	98	84	71	67	65	67	79	85	86	84	85	88	89	99	24
13	92	93	93	93	92	92	90	88	82	74	67	58	50	45	40	38	38	39	46	52	63	70	74	77	69	93	24
14	80	80	74	71	68	70	68	72	74	76	72	65	64	69	73	77	86	94	95	94	94	95	95	96	79	96	24
15	97	97	97	96	96	97	96	96	96	96	96	97	96	91	89	85	80	87	87	87	87	80	69	66	90	97	24
16	65	67	69	68	70	71	71	73	71	71	72	69	67	62	60	58	54	56	58	63	73	76	79	81	68	81	24
17	89	95	97	98	98	98	99	99	96	89	NA	67	62	57	48	45	48	56	60	65	70	76	81	81	77	99	23
18	81	82	77	78	82	85	85	86	83	76	68	59	53	50	59	61	61	61	65	72	82	83	81	80	73	86	24
19	69	57	65	72	71	73	73	67	71	68	62	53	47	43	40	40	41	42	43	46	55	64	66	66	58	73	24
20	64	60	60	60	60	59	60	61	61	55	NA	48	46	44	38	41	46	41	44	52	55	57	68	72	54	72	23
21	73	69	65	63	60	58	63	67	65	62	61	58	58	55	52	45	41	60	66	70	81	88	91	94	65	94	24
22	96	95	92	91	90	90	90	91	95	98	98	97	91	80	74	76	77	78	82	87	90	86	86	82	88	98	24
23	77	76	70	72	74	72	73	74	73	65	66	60	49	48	42	41	48	46	48	53	57	59	63	66	61	77	24
24	66	73	81	84	85	89	93	93	88	79	73	76	73	68	61	59	62	65	67	73	77	79	80	83	76	93	24
25	85	89	95	95	95	95	95	96	96	90	78	63	54	48	40	42	43	45	48	58	64	65	66	67	71	96	24
26	65	66	69	72	71	74	74	72	72	62	51	45	40	34	30	28	27	27	30	37	46	47	49	52	52	74	24
27	55	59	62	62	62	62	66	69	69	71	64	59	67	84	94	95	92	87	81	87	95	95	87	78	75	95	24
28	75	75	74	77	80	81	80	82	85	80	75	66	62	59	56	53	51	52	51	61	77	82	85	74	71	85	24
29	68	59	48	64	73	70	69	73	66	61	53	45	38	33	28	25	41	52	58	63	74	86	90	85	59	90	24
30	74	71	68	68	69	73	74	73	71	63	54	45	35	30	31	28	26	28	31	36	39	42	44	47	51	74	24
Hour Avg.:	79.5	79.7	79.9	80.9	81.6	82.2	82.5	83.1	82.3	79.0	74.3	67.6	64.0	60.3	57.3	56.1	56.6	58.4	60.4	65.1	71.4	75.1	77.2	77.5			
Hour Max.:	98.0	98.0	98.0	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	98.0	94.0	94.0	95.0	95.0	95.0	95.0	96.0	97.0	98.0	99.0	98.0			
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30			
Monthly Avg.:	72 %	Standard Deviation:					17.3	Data Capture:					99.3 %	Total Valid Hours =										715			
							Hours									Hours								Hours			
System Codes:	NA	- Not Available =					5	AUD	- Audit =					0	ACAL	- Auto Cal =					0						
	RNG	- Range =					0	M&R	- Maintenance & Repair =					0	INOP	- InOperative =					0						
	Cal	- Calibration =					0	MCAL	- Manual Calibration =					0	PF	- Power Fail =					0						
	MISS	- Data Not Collected =					0																				

Table 8. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

Solar Radiation (W/m2)

(One Hour Averages)

September 2004

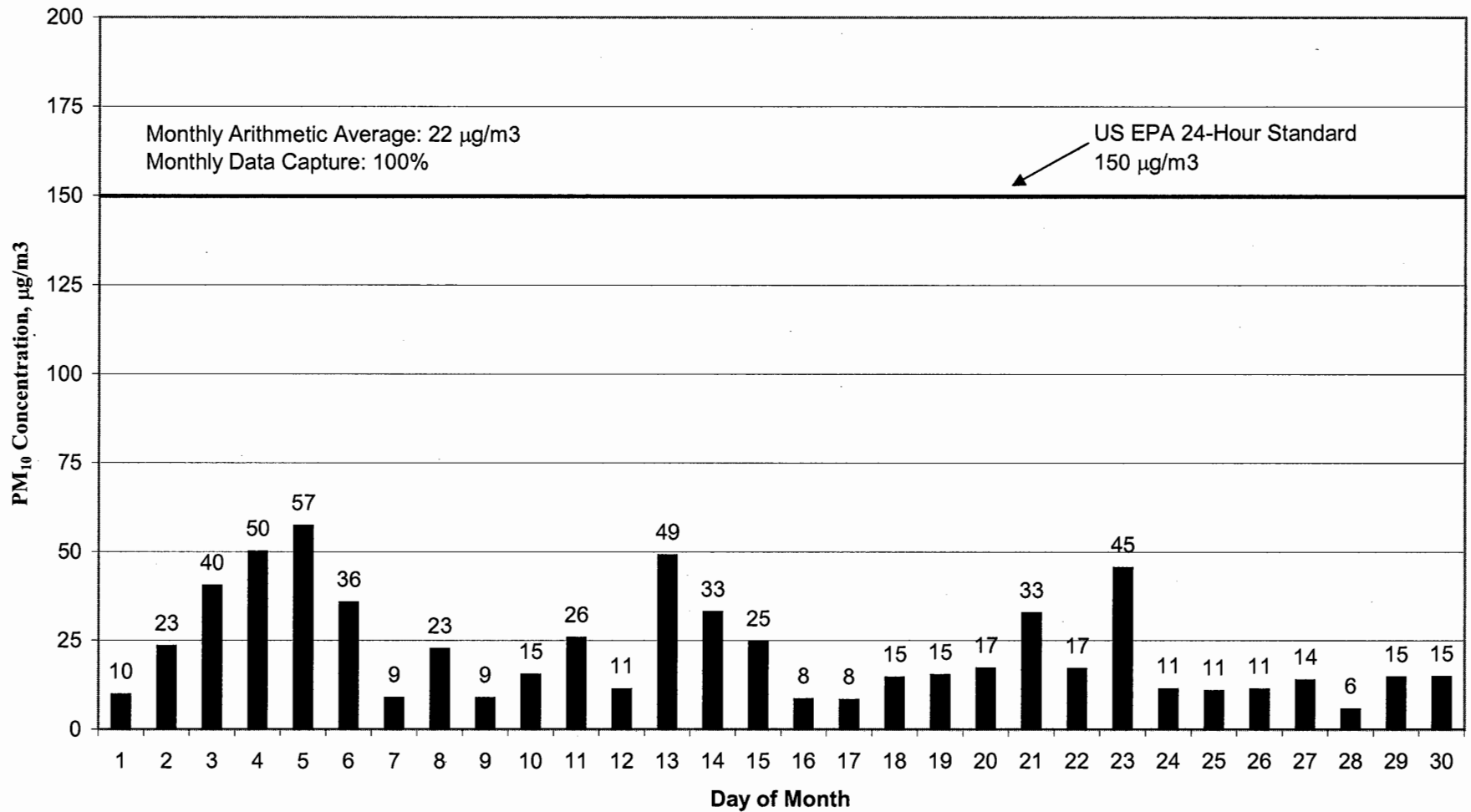
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	0	0	0	0	0	0	0	3	24	49	96	167	199	203	233	171	99	69	58	28	4	0	0	0	58	233	24
2	0	0	0	0	0	0	0	6	59	202	406	638	711	717	755	716	593	449	277	114	8	0	0	0	235	755	24
3	0	0	0	0	0	0	0	21	169	NA	NA	507	645	740	805	741	720	596	453	276	108	6	0	0	263	805	22
4	0	0	0	0	0	0	0	0	18	150	325	486	604	546	791	737	693	587	417	253	89	4	0	0	238	791	24
5	0	0	0	0	0	0	0	0	23	88	299	338	510	448	475	346	474	230	190	76	44	2	0	0	148	510	24
6	0	0	0	0	0	0	0	0	0	18	81	234	522	349	350	386	530	499	445	234	110	3	0	0	157	530	24
7	0	0	0	0	0	0	0	0	20	134	226	344	334	556	555	641	379	281	317	194	98	2	0	0	170	641	24
8	0	0	0	0	0	0	0	0	12	173	348	516	663	619	633	782	688	533	461	278	100	2	0	0	242	782	24
9	0	0	0	0	0	0	0	0	12	174	344	509	NA	773	771	704	589	438	263	91	2	0	0	0	203	773	23
10	0	0	0	0	0	0	0	12	104	288	483	624	777	571	749	686	562	346	178	53	1	0	0	0	226	777	24
11	0	0	0	0	0	0	0	6	62	108	328	384	233	349	260	275	407	318	258	81	1	0	0	0	128	407	24
12	0	0	0	0	0	0	0	2	19	55	109	170	296	725	735	662	530	334	192	34	1	0	0	0	161	735	24
13	0	0	0	0	0	0	0	7	121	306	475	607	697	703	783	679	556	388	200	47	0	0	0	0	232	783	24
14	0	0	0	0	0	0	0	9	83	111	401	463	303	76	146	92	47	40	23	46	0	0	0	0	77	463	24
15	0	0	0	0	0	0	0	1	19	67	43	26	47	273	158	396	298	100	107	39	1	0	0	0	66	396	24
16	0	0	0	0	0	0	0	2	77	103	177	307	525	598	638	622	575	386	229	58	0	0	0	0	179	638	24
17	0	0	0	0	0	0	0	4	101	310	NA	604	683	713	696	596	357	155	103	28	0	0	0	0	189	713	23
18	0	0	0	0	0	0	0	2	94	286	449	587	686	605	652	655	536	383	210	48	0	0	0	0	216	686	24
19	0	0	0	0	0	0	0	2	83	282	436	555	677	700	674	476	515	338	166	34	0	0	0	0	206	700	24
20	0	0	0	0	0	0	0	1	66	311	NA	541	619	672	683	283	307	384	167	36	0	0	0	0	177	683	23
21	0	0	0	0	0	0	0	2	79	291	453	587	678	715	680	641	442	320	93	12	0	0	0	0	208	715	24
22	0	0	0	0	0	0	0	2	32	68	117	243	482	673	656	600	451	329	149	31	0	0	0	0	160	673	24
23	0	0	0	0	0	0	0	2	74	256	149	356	267	339	419	184	159	338	140	45	0	0	0	0	114	419	24
24	0	0	0	0	0	0	0	2	66	183	171	41	81	285	389	501	177	162	84	12	0	0	0	0	90	501	24
25	0	0	0	0	0	0	0	2	60	276	437	571	673	709	700	623	503	344	173	24	0	0	0	0	212	709	24
26	0	0	0	0	0	0	0	1	68	272	439	575	665	704	694	623	504	345	172	20	0	0	0	0	212	704	24
27	0	0	0	0	0	0	0	2	41	101	387	555	298	70	69	103	168	242	183	16	0	0	0	0	93	555	24
28	0	0	0	0	0	0	0	1	29	88	303	526	646	707	696	624	508	345	164	15	0	0	0	0	194	707	24
29	0	0	0	0	0	0	0	1	78	283	451	589	677	714	702	628	516	282	83	20	0	0	0	0	209	714	24
30	0	0	0	0	0	0	0	1	43	139	359	578	592	482	494	608	464	255	82	4	0	0	0	0	171	608	24
Hour Avg.:	0	0	0	0	0	0	0	3	58	178	307	441	510	544	568	526	445	327	201	75	19	1	0	0			
Hour Max.:	0	0	0	0	0	0	0	21	169	311	483	638	777	773	805	782	720	596	461	278	110	6	0	0			
Readings	30	30	30	30	30	30	30	30	30	29	27	30	29	30	30	30	30	30	30	30	30	30	30	30			
Monthly Avg.:	174 W/m2		Standard Deviation:		241.1		Data Capture:		99.3 %																Total Valid Hours =		715
System Codes:	NA	- Not Available =		5		AUD		- Audit =		0								ACAL		- Auto Cal =		0					
	RNG	- Range =		0		M&R		- Maintenance & Repair =		0								INOP		- InOperative =		0					
	Cal	- Calibration =		0		MCAL		- Manual Calibration =		0								PF		- Power Fail =		0					
	MISS	- Data Not Collected =		0																							

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
Rain Fall (mm)
(One Hour Averages)

September 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
1	0.4	0.0	0.0	0.2	0.6	0.0	0.8	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	24
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	23
3	0.0	0.0	0.0	0.1	0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.1	22
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.2	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	20
6	0	0.1	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.9	20
7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	23
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	22
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.1	23
10	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0.0	0.2	18
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	22
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	23
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.0	0	0.5	0.0	0	0.3	0	0.2	0.0	0	0	0.6	0.0	1.7	18
14	0	0.0	0.0	0.5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0	1.3	5.4	0.0	0.0	0.0	0.0	0.0	7.4	21
15	0.0	0.0	0.0	0.4	2.0	0.0	0.0	0.8	0.0	0.3	0.0	1.7	3.9	0	1.1	1.7	0	0.3	0.0	0.0	0.0	0.0	0.0	0	12.2	21
16	0.4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	23
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.2	22
18	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.3	21
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0	0	0.1	0	0.0	0.5	0	0	0.3	0.0	0.0	0.0	0.0	0.0	0.9	17
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.2	21
21	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	20
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
23	0.0	0	0.2	0	0.2	0	0.0	0.2	0	0.2	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0	1.0	16
24	0.2	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.2	0	0.2	0.0	0.0	0.0	0	0	0.2	0.0	0.0	0.0	1.0	19
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.6	21
26	0	0.0	0.0	0.0	0.0	0.2	0.0	0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	21
27	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.5	0.0	0.9	21
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0	0.0	0.1	22
30	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	22
Hour Avg.:	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	NA	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0		
Hour Max.:	0.4	0.2	0.2	0.5	2.0	0.2	0.8	0.8	0.1	0.3	0.2	1.7	3.9	0.5	1.1	1.7	0.4	1.3	5.4	0.2	0.2	0.2	0.6	0.0		
Readings	26	26	29	28	26	28	30	27	26	25	26	28	26	22	27	26	24	27	28	26	23	26	29	27		
Monthly Total:	33.1 mm																							Data Capture: 88.3 %		Total Valid Hours = 636
System Codes:	NA - Not Available = 0																							AUD - Audit = 0		ACAL - Auto Cal = 0
	RNG - Range = 0																							M&R - Maintenance & Repair = 0		INOP - InOperative = 0
	Cal - Calibration = 0																							MCAL - Manual Calibration = 0		PF - Power Fail = 0
	MISS - Data Not Collected = 0																									

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
SEPTEMBER 2004



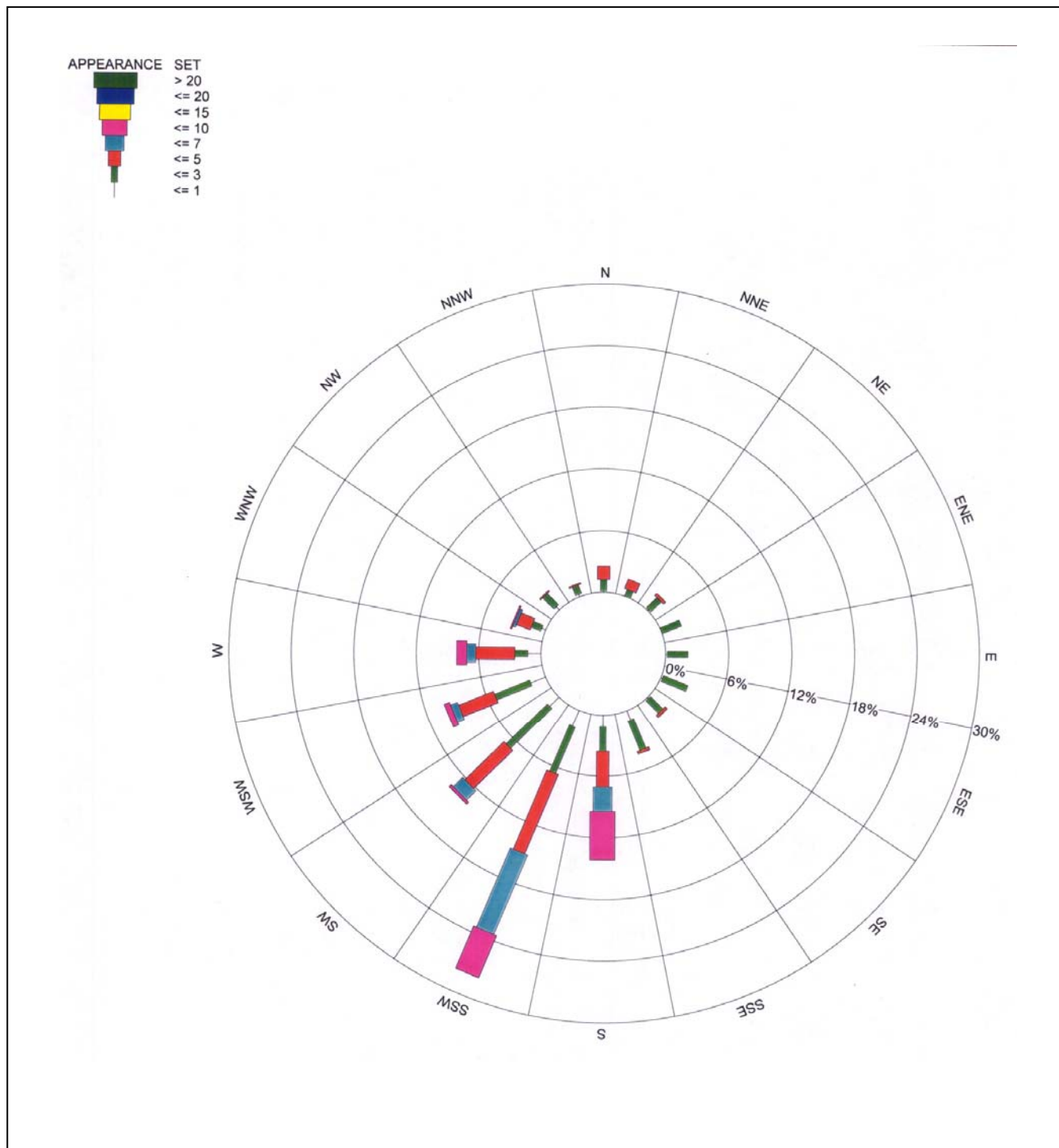


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 3.67161

Source: Golder, 2005.



**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
SEPTEMBER 2004**

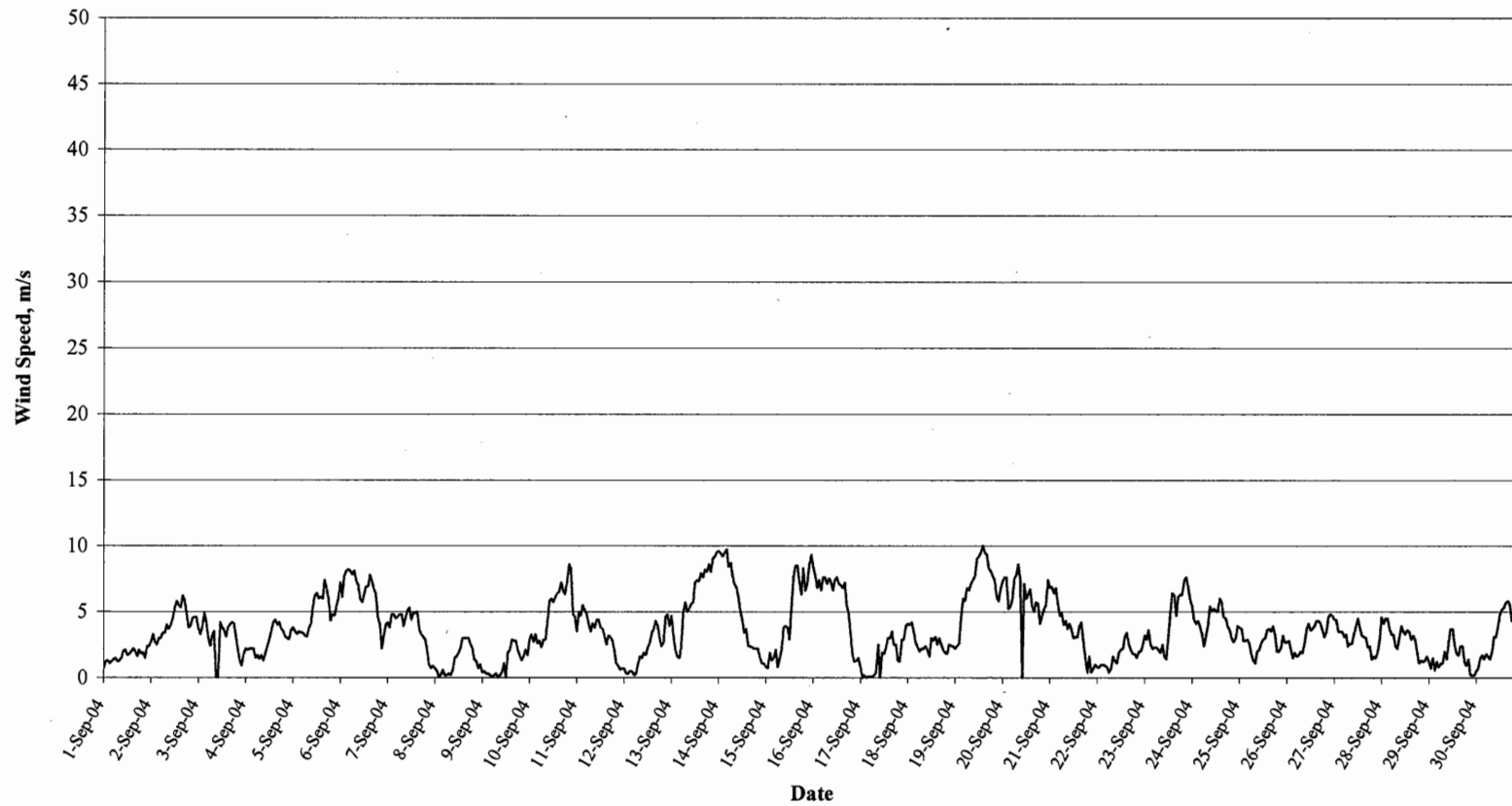


Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
SEPTEMBER 2004

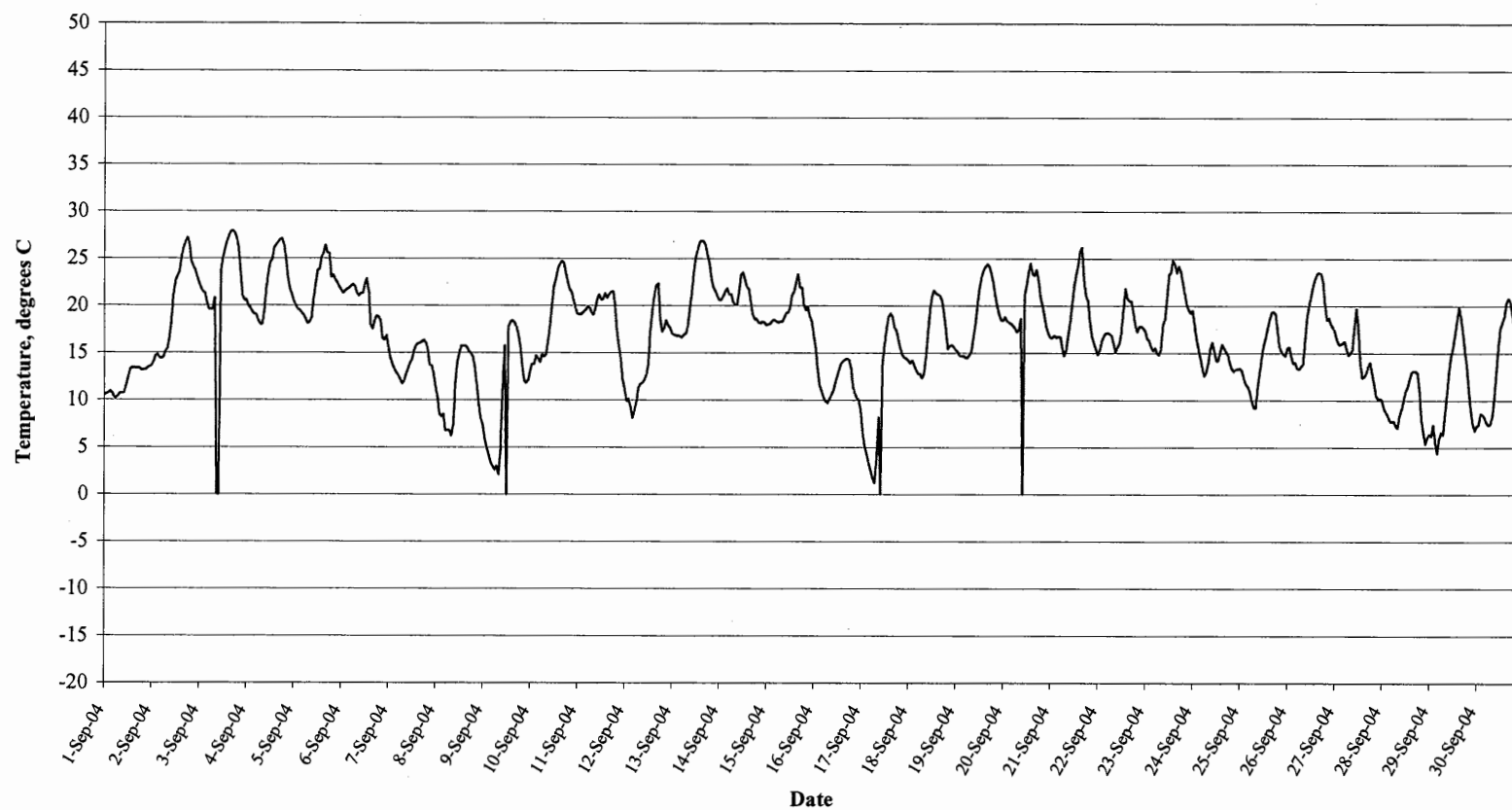


**Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
SEPTEMBER 2004**

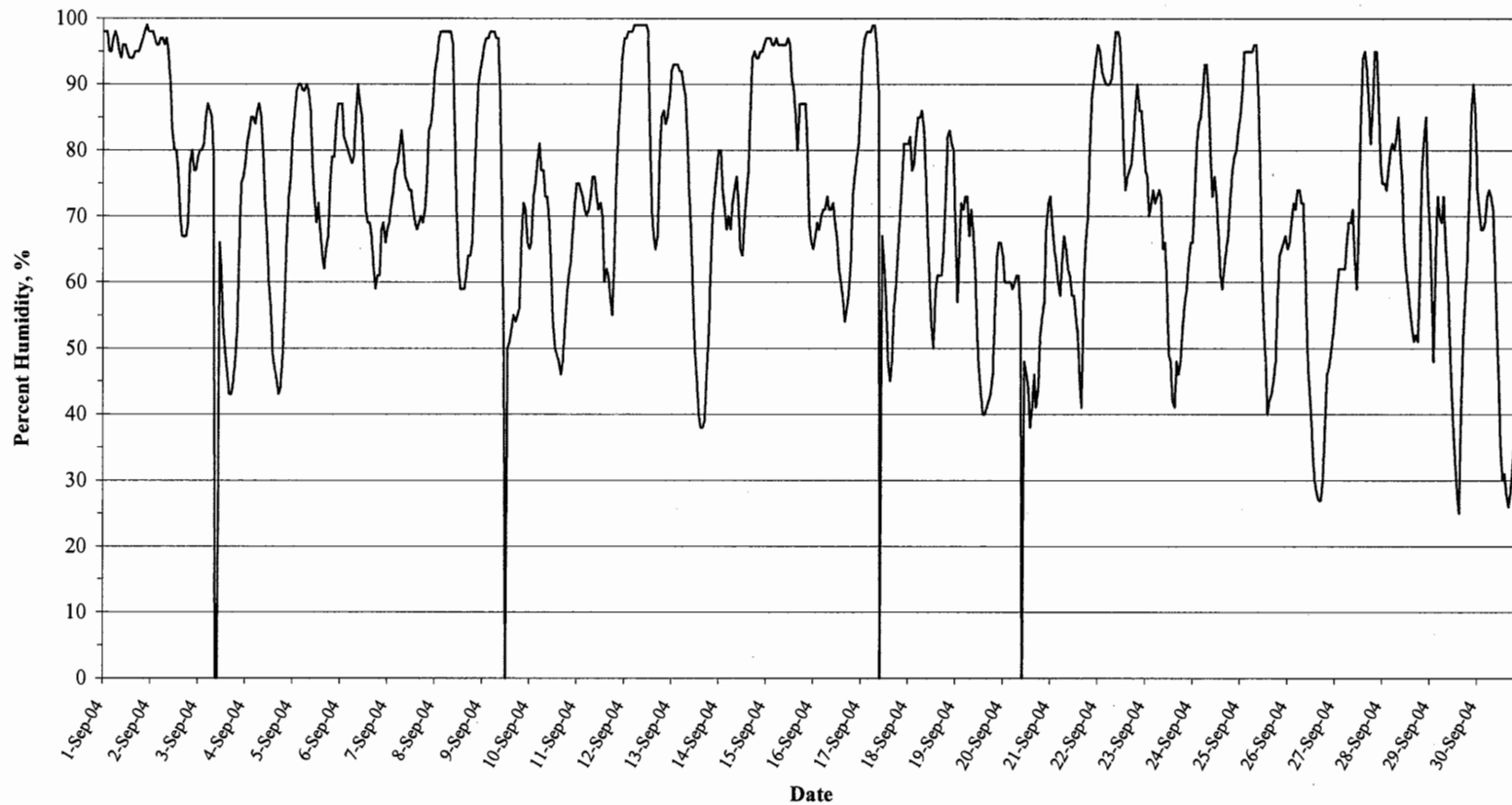


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
SEPTEMBER 2004

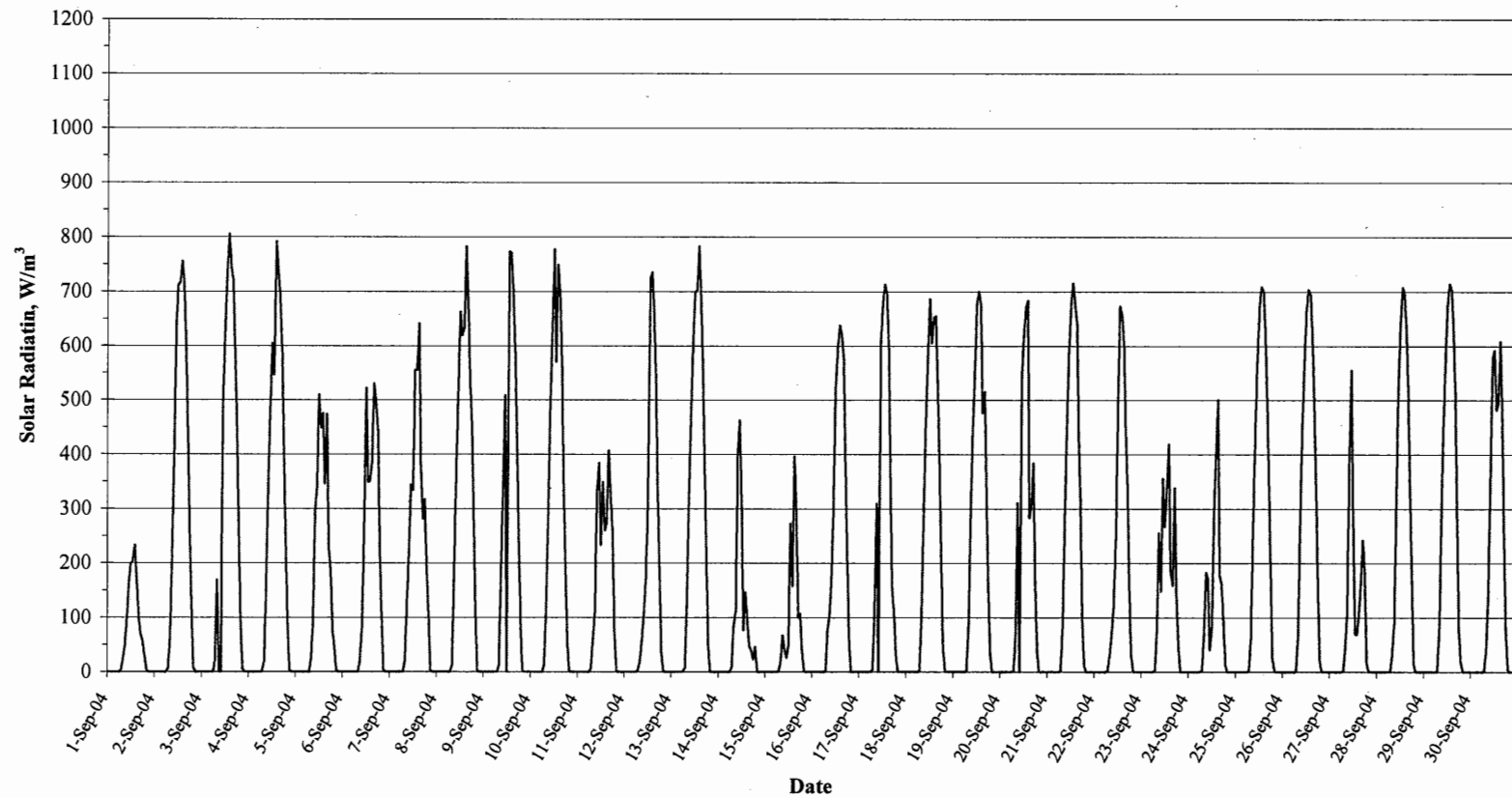
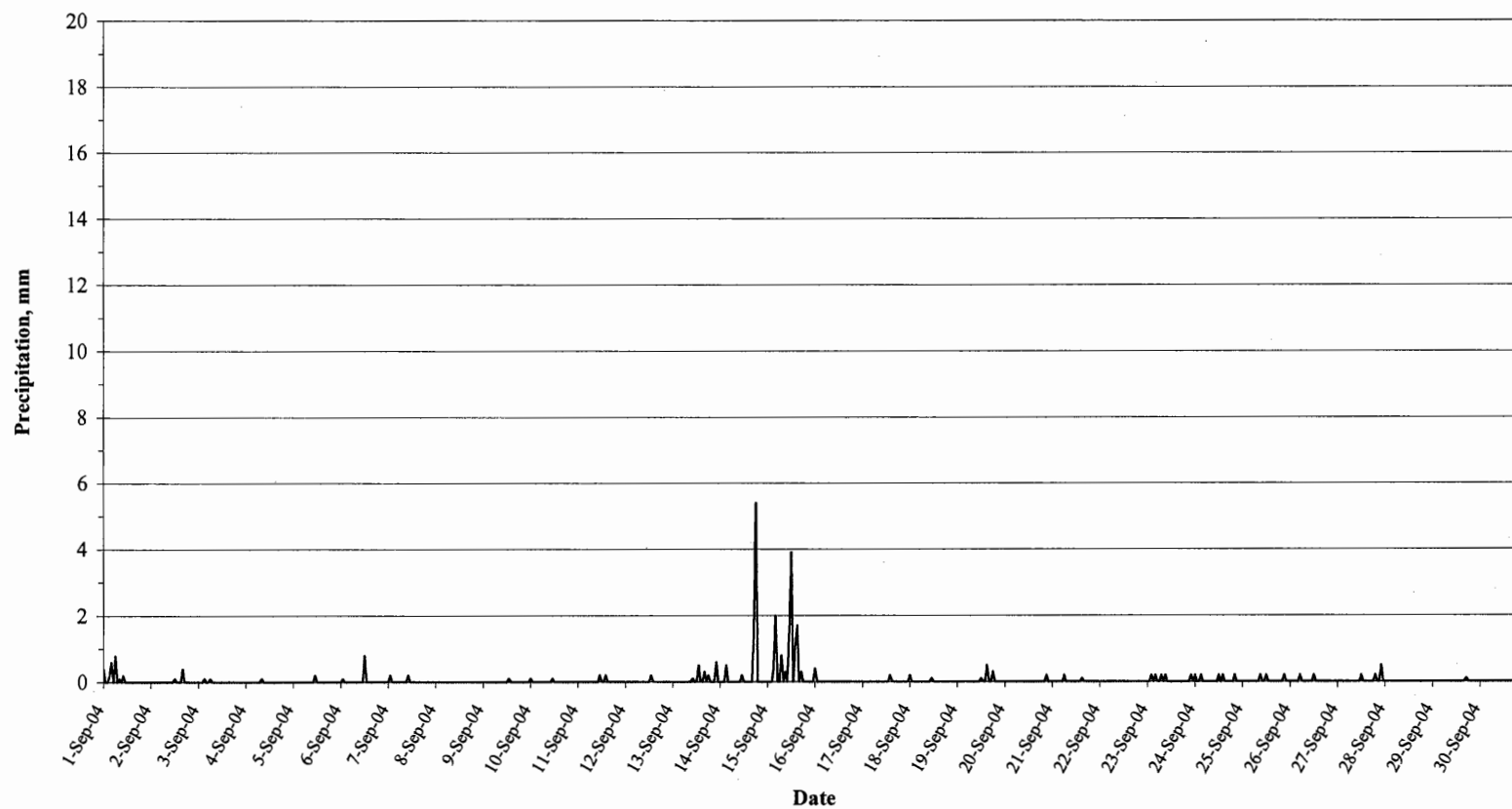


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
SEPTEMBER 2004**



Appendix E

October 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
October 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	28	µg/m ³	6-Oct-04
Second Maximum 24-Hour (Daily) Concentration ² :	25	µg/m ³	7-Oct-04
Monthly Data Collection Efficiency:	100.0	%	
Monthly Arithmetic Average:	9	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - October 2004)	15	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SSW	
Average Wind Direction Horizontal Deviation:	19	degrees
Average Wind Speed:	3.4	m/s
Average Temperature:	7.9	°C
Average Relative Humidity:	79	%
Average Solar Radiation:	89	W/m ²
Total Rain Fall:	91.6	mm
Monthly Data Collection Efficiency:	99.7	%

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 µg/m ³ :	18.9 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 µg/m ³ :	30.8 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

KMC EAGLE STATION

PM₁₀ (µg/m³)
(One Hour Averages)

October 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY																												
1	11	15	19	14	17	17	11	23	20	15	17	15	14	12	17	20	18	12	12	10	9	11	12	9	15	23	24	
2	4	4	5	9	8	9	11	20	18	8	9	10	9	5	5	4	0	0	1	3	6	9	10	8	7	20	24	
3	8	10	11	12	9	1	2	6	6	10	11	4	4	4	4	9	8	5	7	9	12	8	10	13	8	13	24	
4	6	2	3	3	5	8	3	3	4	3	4	2	3	4	0	0	0	0	4	8	9	4	7	4	7	4	9	24
5	9	7	6	3	1	3	3	0	3	5	1	2	1	0	0	0	1	8	11	11	16	19	19	16	6	19	24	
6	19	22	27	33	25	26	28	26	28	30	25	23	31	20	31	28	8	21	19	103	29	30	22	26	28	103	24	
7	21	25	29	31	31	35	32	21	30	12	16	19	13	18	29	23	17	22	30	28	25	31	34	29	25	35	24	
8	25	29	23	32	28	35	30	33	35	26	20	25	9	10	0	0	17	12	16	11	12	7	2	1	18	35	24	
9	0	1	3	2	5	12	13	5	4	3	0	0	4	2	2	2	0	0	0	4	6	5	12	21	4	21	24	
10	10	12	12	10	6	3	6	7	4	1	0	0	0	0	1	0	0	0	3	8	12	13	10	8	5	13	24	
11	8	7	7	6	4	6	4	6	9	4	0	0	0	0	0	1	0	3	5	26	24	15	14	11	7	26	24	
12	16	11	10	8	7	6	8	8	7	6	2	0	0	0	3	8	6	7	18	35	53	21	14	12	11	53	24	
13	9	5	6	9	10	9	9	11	10	9	10	7	6	5	9	25	17	20	7	5	6	9	3	2	9	25	24	
14	2	2	2	3	4	3	2	3	4	4	2	1	2	4	1	1	4	3	1	1	1	1	3	3	3	4	24	
15	5	8	6	4	4	3	2	1	3	2	0	0	2	5	8	4	0	0	4	9	9	4	0	0	4	9	24	
16	3	3	3	3	3	3	6	4	1	1	1	4	4	3	2	1	2	4	2	0	1	4	4	3	3	3	6	24
17	2	4	3	2	6	0	0	2	4	8	4	0	0	0	2	3	4	1	1	3	5	5	2	0	3	8	24	
18	1	0	0	0	1	4	5	3	3	2	0	0	0	0	0	0	1	4	8	7	5	1	0	0	2	8	24	
19	0	0	3	7	3	0	3	5	8	4	3	25	0	0	0	6	12	9	8	12	5	2	10	12	6	25	24	
20	12	11	10	8	3	5	3	0	4	8	3	1	4	5	5	7	7	0	3	13	14	12	9	10	7	14	24	
21	9	5	11	10	10	12	12	13	12	8	5	7	6	1	2	4	7	18	12	10	16	10	10	10	9	18	24	
22	9	9	9	9	7	6	12	14	14	15	12	8	7	21	10	16	11	10	24	22	22	23	13	21	13	24	24	
23	16	22	27	21	22	21	7	6	8	7	1	0	3	2	4	5	4	6	8	10	9	7	6	5	10	27	24	
24	3	5	5	4	1	1	3	3	6	5	3	3	1	0	0	1	6	5	6	6	4	5	4	5	4	6	24	
25	7	9	6	6	9	10	11	21	15	13	10	10	5	2	4	2	0	2	9	11	12	10	11	10	9	21	24	
26	7	7	7	8	10	11	4	7	13	12	7	0	0	0	0	0	2	0	1	7	6	4	7	6	5	13	24	
27	3	4	5	6	7	6	2	0	2	5	6	6	4	5	19	16	13	4	2	6	11	11	10	7	7	19	24	
28	10	12	9	10	12	11	12	13	15	14	12	11	10	12	17	20	16	15	17	18	15	15	18	18	14	20	24	
29	18	25	14	12	8	6	2	2	6	9	9	8	7	8	11	18	17	13	11	19	17	13	24	29	13	29	24	
30	29	32	37	18	13	12	12	18	9	6	5	5	4	1	3	6	12	9	11	14	17	13	9	5	12	37	24	
31	8	7	3	2	5	9	11	10	9	8	3	4	4	1	2	2	2	5	4	3	9	10	5	5	6	11	24	
Hour Avg.:	9	10	10	10	9	9	9	10	10	9	7	7	5	5	6	8	7	7	8	14	13	11	10	10				
Hour Max.:	29	32	37	33	31	35	32	33	35	30	25	25	31	21	31	28	18	22	30	103	53	31	34	29				
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31				
Monthly Avg.:	8.9 µg/m³		Standard Deviation:		8.7		Data Capture: 100.0 %										Total Valid Hours =					744						
System Codes:	NA - Not Available =		0		AUD - Audit =		0		ACAL - Auto Cal =		0																	
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																	
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		LF - Power Fail =		0																	
	MISS - Data Not Collected =		0		PF - Low Flow =		0																					

Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)

October 2004																									Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	220	217	213	206	225	193	196	196	195	191	194	199	200	202	206	205	208	281	314	329	328	300	290	306	24
2	296	281	275	265	256	241	244	260	266	268	269	268	263	262	265	266	266	254	249	231	221	217	230	228	24
3	225	229	229	224	229	229	225	222	218	216	210	212	216	219	236	229	261	281	287	319	287	291	312	299	24
4	305	299	290	289	293	312	317	305	307	320	316	310	NA	296	280	276	282	275	277	255	242	229	224	225	23
5	213	230	232	233	235	227	230	226	233	230	221	225	221	219	210	212	215	221	213	210	218	230	233	235	24
6	237	242	246	242	249	252	243	244	234	240	237	267	278	266	251	243	281	28	92	206	221	231	233	233	24
7	231	229	231	235	235	241	236	229	224	220	215	206	200	201	197	200	195	191	193	193	192	193	197	201	24
8	199	204	210	220	214	203	214	205	210	209	209	229	226	226	241	232	228	214	264	271	262	256	255	266	24
9	273	286	300	301	303	304	294	290	290	297	302	305	313	313	323	326	327	322	303	263	265	254	256	254	24
10	260	254	159	140	142	253	248	248	248	236	205	289	4	360	21	49	66	62	89	123	154	160	153	163	24
11	185	198	212	200	251	253	258	248	228	206	244	289	318	305	354	37	58	36	73	156	173	169	153	162	24
12	169	207	229	188	184	169	172	185	179	176	207	302	15	33	41	46	55	49	18	108	158	165	191	214	24
13	211	208	209	218	240	232	265	240	253	255	260	346	342	25	19	4	349	359	3	12	8	8	12	15	24
14	13	17	15	11	12	16	19	17	16	20	26	32	33	39	35	36	42	34	36	34	34	28	13	326	24
15	345	337	349	351	9	17	18	17	20	10	2	339	349	352	336	337	331	325	318	320	323	321	307	311	24
16	315	314	306	302	298	304	307	302	299	300	297	300	299	297	303	298	299	298	300	298	298	300	307	307	24
17	306	315	319	319	318	319	321	320	322	328	329	322	319	322	300	303	298	304	289	298	265	274	339	255	24
18	267	281	264	267	245	264	166	179	179	172	123	137	132	76	54	76	79	88	92	66	43	54	95	123	24
19	86	131	130	128	126	138	119	125	120	120	122	NA	135	129	138	147	152	118	125	129	131	143	131	157	23
20	163	177	182	192	185	195	198	197	217	218	231	214	226	237	234	217	195	200	179	169	218	241	213	209	24
21	210	213	206	195	180	195	211	162	167	189	211	196	178	188	176	178	177	171	170	163	158	158	172	165	24
22	162	176	185	190	193	187	185	188	184	188	185	182	177	177	173	171	167	171	179	182	184	182	185	187	24
23	183	178	174	168	166	166	163	164	164	171	167	172	169	167	172	176	173	160	169	163	185	223	231	228	24
24	228	246	258	268	271	273	275	279	280	280	278	274	280	282	284	268	279	239	201	216	186	187	186	202	24
25	192	193	187	200	199	196	195	209	221	259	291	300	301	294	291	295	316	311	323	326	303	264	218	245	24
26	206	211	203	200	276	193	197	256	177	180	159	94	88	106	83	49	40	55	52	101	91	141	87	72	24
27	131	90	21	43	87	101	160	128	165	140	139	128	104	117	126	121	107	98	95	111	125	134	147	147	24
28	149	148	161	176	183	194	193	192	192	191	190	187	187	190	177	182	168	173	164	145	155	167	166	159	24
29	161	167	180	191	192	188	184	195	181	181	188	185	189	193	185	179	178	178	170	183	189	186	191	192	24
30	184	173	175	214	168	168	203	203	199	222	213	218	274	297	282	262	266	267	267	265	274	353	352	351	24
31	349	349	349	346	345	342	343	347	347	335	345	346	339	330	328	308	313	297	328	320	301	263	271	229	24
Readings	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	

Data Capture: 99.7 %

Total Valid Hours = 742

System Codes:	Hours	Hours	Hours
NA - Not Available =	2	AUD - Audit =	0
RNG - Range =	0	M&R - Maintenance & Repair =	0
Cal - Calibration =	0	MCAL - Manual Calibration =	0
MISS - Data Not Collected =	0		

Hours
ACAL - Auto Cal = 0
INOP - InOperative = 0
PF - Power Fail = 0

**Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)**

October 2004

DAY	2023-07-01																							Daily Avg.	Total Readings	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			23
1	15	14	14	14	25	19	13	13	12	13	13	15	16	16	16	15	15	29	26	22	24	25	21	27	18	24
2	24	19	19	18	16	18	18	17	18	19	19	21	20	19	19	20	18	22	19	18	12	13	15	15	18	24
3	16	16	18	17	18	18	17	17	15	15	14	15	15	17	18	18	22	20	27	25	24	23	25	25	19	24
4	30	29	21	20	20	23	22	24	25	24	26	25	NA	24	20	20	20	22	21	16	15	15	16	16	21	23
5	14	15	14	14	13	14	16	16	15	17	15	17	17	19	16	16	15	16	14	14	16	17	17	16	16	24
6	16	15	15	14	15	15	14	14	18	17	17	27	25	26	23	24	36	39	37	25	12	14	15	15	20	24
7	16	16	17	16	16	16	16	16	16	15	15	14	18	14	16	17	16	15	13	13	12	13	13	13	15	24
8	13	15	15	17	15	14	14	13	14	14	15	17	18	18	18	19	18	16	36	17	17	16	16	18	17	24
9	18	20	25	25	27	24	24	20	21	25	25	25	25	27	27	26	24	25	28	17	13	21	14	13	22	24
10	17	17	45	1	24	14	1	1	1	26	32	68	37	41	49	31	22	21	20	18	7	9	15	11	22	24
11	9	8	12	15	16	13	10	9	15	13	23	26	36	60	31	48	30	16	39	13	58	11	3	30	23	24
12	19	38	27	10	15	1	4	6	4	4	44	70	24	21	20	25	26	20	11	78	7	11	12	23	22	24
13	11	10	16	36	13	13	15	32	17	35	61	16	24	23	21	18	15	14	15	15	14	14	14	13	20	24
14	13	14	13	14	13	14	14	12	13	13	14	14	15	18	18	17	18	18	18	15	16	15	25	13	15	24
15	16	22	15	17	13	13	13	13	14	13	15	20	16	15	19	19	21	23	23	24	22	25	25	25	18	24
16	25	25	24	24	23	25	25	24	25	24	23	25	24	23	25	23	24	25	24	22	23	24	26	25	24	24
17	25	25	23	23	24	24	22	24	23	21	20	23	24	23	25	24	26	22	23	23	14	20	35	21	23	24
18	18	24	18	22	28	31	50	1	0	35	46	27	15	41	26	29	26	25	21	38	13	25	26	46	26	24
19	27	14	12	14	15	16	16	13	16	15	17	NA	16	15	21	17	16	18	17	16	12	18	17	16	16	23
20	13	13	18	15	10	14	14	13	14	14	17	23	30	23	39	28	45	35	7	13	28	14	12	12	19	24
21	13	12	12	10	10	5	30	8	19	21	13	17	15	21	16	20	18	14	14	13	13	15	14	21	15	24
22	23	20	22	21	14	14	16	19	19	17	17	17	17	16	16	16	17	17	13	12	12	12	13	12	16	24
23	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	12	15	16	22	17	17	20	15	15	14	24
24	17	15	16	17	16	18	18	17	17	17	17	19	17	19	23	29	36	26	21	18	17	15	12	15	19	24
25	12	11	14	14	13	13	13	14	15	25	21	25	25	24	22	26	26	28	25	18	18	26	42	24	21	24
26	48	12	12	19	15	27	13	21	22	19	70	23	27	28	42	20	19	19	21	41	69	29	37	43	29	24
27	28	37	19	17	43	21	27	18	18	13	16	18	24	22	15	18	27	21	20	18	14	12	12	13	20	24
28	12	13	16	12	14	12	13	14	12	14	16	15	15	14	19	20	22	23	15	24	16	17	17	16	16	24
29	15	15	15	13	13	16	15	20	17	13	15	13	14	17	17	16	11	15	17	23	16	12	13	14	15	24
30	13	14	12	20	43	20	14	13	13	22	24	16	42	29	21	18	17	20	19	17	26	21	16	15	20	24
31	15	15	16	15	18	16	16	16	16	18	16	17	19	23	26	29	24	24	23	17	24	25	51	29	21	24
Hour Avg.:	18.2	17.6	17.7	16.7	18.4	16.6	17.0	15.2	15.4	18.2	22.9	22.7	21.4	22.9	22.5	21.9	22.1	21.4	20.9	21.3	19.4	17.6	19.5	19.7		

Readings	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31					
Monthly Avg.:	19 °	Standard Deviation:		8.8	Data Capture:		99.7 %																Total Valid Hours =	742				
			Hours																	Hours								
System Codes:	NA	- Not Available =		2	AUD		- Audit =		0																ACAL	- Auto Cal =		0
	RNG	- Range =		0	M&R		- Maintenance & Repair =		0																INOP	- InOperative =		0
	Cal	- Calibration =		0	MCAL		- Manual Calibration =		0																PF	- Power Fail =		0
	MISS	- Data Not Collected =		0																								

October 2004

System Codes:		Hours	System Codes:		Hours	System Codes:		Hours
NA	- Not Available =	2	AUD	- Audit =	0	ACAL	- Auto Cal =	0
RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	0
MISS	- Data Not Collected =	0						

October 2004

October 2004																																																
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings																					
	1	15.3	14.8	14.6	13.9	13.5	12.9	12.7	12.8	12.6	13.0	14.4	16.0	18.1	19.9	18.9	15.5	14.2	11.1	9.0	6.9	5.5	4.1	2.7	2.8	12.3	19.9	24																				
2	3.1	2.8	2.8	1.7	1.1	0.4	0.5	1.5	2.0	2.8	3.8	5.1	6.5	8.2	9.3	10.3	10.9	11.0	10.7	9.0	7.5	6.9	7.1	7.4	5.5	11.0	24																					
3	7.2	6.5	6.4	6.8	7.1	7.5	7.6	7.7	8.0	8.7	9.3	10.6	12.2	12.6	13.1	13.5	14.9	13.0	11.6	7.9	6.4	6.3	5.6	4.9	9.0	14.9	24																					
4	2.6	2.3	2.5	2.0	1.7	1.4	1.2	0.8	0.4	0.7	1.1	1.7	NA	2.9	2.7	3.3	3.2	3.5	2.9	1.6	0.3	-0.1	-0.1	0.0	1.7	3.5	23																					
5	0.0	0.0	0.3	0.2	-0.1	0.1	0.2	0.5	1.5	3.0	5.1	7.1	9.5	11.5	13.1	14.2	15.1	14.7	14.1	12.8	12.3	12.2	11.9	11.8	7.1	15.1	24																					
6	11.7	11.6	12.2	12.1	13.0	13.6	12.7	12.1	11.7	12.7	15.4	18.1	19.5	21.3	22.5	23.4	24.1	22.7	21.4	20.8	19.9	19.4	19.1	18.4	17.1	24.1	24																					
7	17.8	17.2	16.9	16.5	15.5	15.3	15.2	15.3	16.3	17.1	18.0	18.6	21.0	21.0	21.6	22.7	22.1	20.9	19.9	19.2	18.6	18.1	17.4	16.9	18.3	22.7	24																					
8	16.3	15.9	15.0	14.6	14.5	14.3	13.9	13.7	13.2	13.8	14.3	14.9	16.3	17.4	18.1	18.6	17.2	17.0	14.4	11.2	10.4	9.9	9.5	9.1	14.3	18.6	24																					
9	8.8	8.7	8.2	7.8	7.9	8.2	8.0	7.5	7.2	8.1	9.0	9.8	10.6	11.4	11.7	12.3	12.3	12.4	12.0	9.9	8.0	7.2	7.0	6.6	9.2	12.4	24																					
10	6.5	6.1	4.1	2.4	1.0	1.2	0.3	-0.3	-0.1	3.2	9.9	13.6	14.4	15.0	15.7	15.2	14.7	14.0	12.8	10.3	7.8	6.7	8.2	8.0	7.9	15.7	24																					
11	8.1	8.1	7.9	7.1	7.3	7.2	7.7	7.8	7.3	9.4	14.3	16.5	17.3	18.2	18.6	19.3	18.6	17.0	15.0	12.7	10.1	8.1	7.7	6.5	11.6	19.3	24																					
12	7.2	9.0	7.6	4.8	4.2	3.1	2.5	2.7	2.3	6.7	13.3	17.2	17.4	17.5	17.4	17.8	18.2	17.4	15.7	12.7	10.4	11.3	11.5	10.7	10.8	18.2	24																					
13	10.3	10.0	9.9	9.3	8.9	7.5	6.7	6.5	7.0	7.6	9.8	11.7	12.6	13.9	13.9	12.2	10.0	8.6	7.2	6.1	5.3	4.5	4.1	3.8	8.6	13.9	24																					
14	3.6	3.5	3.3	3.3	3.2	3.1	3.1	3.0	3.0	3.1	3.3	3.3	3.7	3.8	3.9	4.1	4.0	3.9	3.8	3.8	4.2	4.4	4.5	4.5	3.6	4.5	24																					
15	4.5	4.6	4.8	4.9	4.9	5.0	5.1	5.1	4.9	4.8	4.8	4.9	5.0	4.7	4.5	4.3	3.8	3.4	2.7	2.2	2.1	2.1	2.1	2.3	4.1	5.1	24																					
16	2.2	1.7	1.5	1.3	1.2	1.0	0.7	0.6	0.6	0.4	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.6	2.2	24																					
17	-0.1	-0.1	-0.2	-0.3	-0.4	-0.4	-0.6	-0.8	-0.8	-0.8	-0.5	-0.2	-0.1	0.0	0.2	0.5	0.9	0.9	0.5	0.3	0.3	0.3	0.2	0.1	0.0	0.9	24																					
18	0.2	0.3	0.2	0.3	-0.1	-0.3	-0.7	-1.4	-1.7	-1.1	1.2	2.1	2.6	3.0	3.5	3.1	2.5	2.2	1.2	0.8	0.8	0.9	1.4	1.6	0.9	3.5	24																					
19	2.3	2.3	1.3	0.7	0.8	1.1	1.4	1.7	1.8	2.1	3.2	NA	5.3	5.7	6.2	5.8	5.5	5.0	4.3	4.3	4.4	4.4	4.3	4.2	3.4	6.2	23																					
20	4.6	4.9	5.1	5.1	5.0	5.1	5.2	5.3	5.4	5.7	7.0	8.2	8.4	8.7	9.7	10.2	11.7	12.4	11.6	8.8	8.2	8.0	7.6	7.6	7.5	12.4	24																					
21	7.6	7.4	6.9	6.2	5.5	4.2	4.2	4.0	3.8	5.7	7.7	10.3	11.9	12.6	13.3	14.2	14.2	13.4	12.0	10.8	9.7	8.5	7.9	7.3	8.7	14.2	24																					
22	7.0	7.1	7.5	7.7	8.1	8.0	8.0	8.0	7.7	8.1	8.7	9.7	10.4	10.9	11.0	11.2	11.0	10.5	10.2	10.2	10.2	10.2	9.9	9.8	9.2	11.2	24																					
23	9.9	10.2	10.5	10.6	10.4	10.3	10.4	10.4	10.6	11.0	11.2	11.6	11.7	12.1	12.5	12.7	12.7	12.8	12.9	12.9	13.2	12.8	11.5	10.8	11.5	13.2	24																					
24	10.6	10.7	10.9	10.6	9.8	9.0	8.4	8.0	7.7	7.5	7.4	7.6	8.3	8.8	9.2	9.2	9.3	9.3	9.3	9.1	9.0	8.9	8.5	9.0	9.0	10.9	24																					
25	9.0	8.9	8.7	8.8	8.9	9.1	9.4	8.9	8.9	9.4	8.6	8.4	8.2	8.5	8.8	9.5	9.2	8.2	6.7	5.3	4.0	2.6	1.4	1.6	7.5	9.5	24																					
26	0.7	-0.8	-0.7	-1.6	-1.4	-1.5	-2.6	-2.4	-2.5	-1.3	1.7	6.3	7.4	7.7	8.5	8.1	6.9	6.3	5.7	5.3	5.1	4.8	5.0	5.0	2.9	8.5	24																					
27	5.2	5.2	4.9	5.0	5.2	5.3	5.1	4.4	3.9	4.3	5.2	6.3	7.2	7.3	7.4	7.4	7.4	6.9	6.4	5.9	5.7	5.8	5.9	6.0	5.8	7.4	24																					
28	5.9	5.9	6.0	6.3	6.8	7.0	7.0	7.0	6.9	7.1	7.3	8.2	9.1	9.6	9.9	9.7	9.7	9.6	9.3	9.3	9.3	9.5	8.8	8.7	8.1	9.9	24																					
29	8.9	9.3	9.9	10.2	10.3	10.5	10.7	11.0	11.0	11.2	11.6	12.1	12.6	13.3	14.0	14.3	14.6	14.7	14.8	14.9	15.5	16.2	16.7	17.1	12.7	17.1	24																					
30	17.7	18.2	18.4	16.5	14.6	13.7	13.8	13.7	13.7	13.4	12.6	12.3	12.3	12.5	12.9	12.1	12.0	12.1	11.1	9.7	8.9	6.6	5.3	4.1	12.4	18.4	24																					
31	3.3	2.7	2.2	1.9	1.4	1.1	1.0	0.7	0.6	0.8	1.0	2.0	2.2	2.4	3.0	3.6	3.4	3.3	3.1	3.0	2.6	2.5	2.3	2.0	2.2	3.6	24																					
Hour Avg.:	7.0	6.9	6.8	6.3	6.1	5.9	5.8	5.7	5.6	6.4	7.7	9.1	10.1	10.4	10.8	10.9	10.8	10.3	9.4	8.3	7.6	7.2	6.9	6.7																								
Hour Max.:	17.8	18.2	18.4	16.5	15.5	15.3	15.2	15.3	16.3	17.1	18.0	18.6	21.0	21.3	22.5	23.4	24.1	22.7	21.4	20.8	19.9	19.4	19.1	18.4																								
Readings	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31																								
Monthly Avg.:	7.9 °C	Standard Deviation:			5.5	Data Capture:			99.7 %															Total Valid Hours =	742																							
System Codes:																																																
	Hours														Hours														Hours																			
	NA	- Not Available =														2	AUD	- Audit =														0	ACAL	- Auto Cal =														0
	RNG	- Range =														0	M&R	- Maintenance & Repair =														0	INOP	- InOperative =														0
Cal	- Calibration =														0	MCAL	- Manual Calibration =														0	PF	- Power Fail =														0	
MISS	- Data Not Collected =														0																																	

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

October 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	50	52	55	60	66	71	71	70	70	70	66	62	57	51	54	78	90	94	95	96	95	95	96	96	73	96	24
2	94	92	85	82	80	78	77	66	67	67	66	61	56	50	43	38	35	36	37	47	56	54	49	48	61	94	24
3	50	53	52	49	48	47	48	50	52	51	52	50	47	46	47	50	44	55	61	84	87	86	80	78	57	87	24
4	90	95	93	95	94	87	85	81	78	67	64	63	NA	57	61	56	55	54	57	67	75	78	76	75	74	95	23
5	74	73	69	69	71	69	69	67	62	58	51	46	38	32	29	28	28	31	33	36	38	41	44	46	50	74	24
6	47	50	51	54	55	55	59	61	62	59	54	50	47	44	41	38	36	47	53	53	54	57	61	64	52	64	24
7	64	63	60	58	60	57	53	50	44	42	40	37	28	25	22	20	23	28	31	33	35	38	44	54	42	64	24
8	60	67	78	81	79	80	80	84	92	93	92	90	84	79	74	71	80	88	88	91	87	84	85	91	82	93	24
9	94	96	94	94	92	85	85	87	86	79	70	63	58	54	52	47	47	50	54	64	71	74	72	72	73	96	24
10	72	73	81	90	94	93	95	96	95	83	66	45	41	38	38	49	49	49	55	66	75	77	69	65	69	96	24
11	65	73	73	74	69	67	64	63	65	60	48	38	36	33	33	33	41	44	50	61	73	79	77	80	58	80	24
12	75	66	72	84	88	91	92	94	91	78	60	41	45	45	49	43	40	44	49	63	77	65	57	60	65	94	24
13	63	64	64	66	68	74	78	79	77	76	71	59	57	53	53	65	82	91	98	98	98	98	98	98	76	98	24
14	97	97	98	98	98	98	98	98	98	98	98	97	95	96	94	92	93	94	95	97	98	97	96	97	97	98	24
15	97	98	98	98	98	99	99	99	99	99	99	98	96	94	95	96	97	96	97	97	98	98	99	99	98	99	24
16	97	98	98	98	98	98	98	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	24
17	100	100	100	100	100	100	100	100	100	100	100	100	100	99	99	99	98	98	98	98	96	95	94	95	99	100	24
18	95	96	98	98	98	99	98	99	99	99	92	89	79	75	76	79	81	81	91	94	92	92	92	93	91	99	24
19	93	89	88	90	90	90	90	89	90	86	82	NA	76	76	76	79	81	85	89	90	89	90	91	94	87	94	23
20	93	93	94	95	96	96	96	95	95	94	88	80	80	79	73	72	66	63	67	82	81	82	84	85	85	96	24
21	86	87	88	90	93	96	95	95	96	91	86	77	71	67	60	56	57	59	64	74	82	88	90	88	81	96	24
22	88	89	88	88	88	87	87	86	87	87	84	79	76	75	72	70	72	76	79	80	81	81	85	92	82	92	24
23	91	90	90	90	92	93	93	94	94	94	93	92	93	93	92	93	95	97	97	97	96	94	94	95	93	97	24
24	96	97	97	96	96	96	96	97	97	97	97	96	92	89	87	86	87	88	88	89	89	89	90	90	93	97	24
25	89	90	91	89	88	86	83	84	84	81	86	82	76	72	65	58	57	61	67	75	81	87	92	91	80	92	24
26	93	97	98	98	99	99	100	99	99	99	99	88	69	61	51	53	74	78	82	86	89	91	91	92	87	100	24
27	92	91	93	95	95	94	92	91	91	86	83	80	74	70	66	66	70	78	82	88	90	90	90	90	85	95	24
28	90	85	84	88	90	90	91	93	95	94	93	92	88	85	84	86	87	89	92	92	91	89	90	94	90	95	24
29	95	97	94	93	93	95	95	95	96	97	96	95	95	93	92	92	92	93	94	95	97	96	96	95	95	97	24
30	93	92	92	89	92	94	89	91	90	83	74	76	77	75	71	74	76	79	84	93	94	97	97	98	86	98	24
31	98	98	98	98	98	98	98	99	99	100	99	95	93	94	90	86	87	85	85	86	91	95	96	97	94	100	24
Hour Avg.:	83.3	83.9	84.3	85.4	86.0	85.9	85.6	85.5	85.5	82.8	79.0	74.0	70.8	67.7	65.8	66.2	68.4	71.3	74.6	79.7	82.5	83.1	83.1	84.3			
Hour Max.:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Readings	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31			
Monthly Avg.:	79 %		Standard Deviation:				19.2		Data Capture:				99.7 %								Total Valid Hours =				742		
							Hours										Hours				Hours						
System Codes:	NA - Not Available =		2				AUD - Audit =				0				ACAL - Auto Cal =				0								
	RNG - Range =		0				M&R - Maintenance & Repair =				0				INOP - InOperative =				0								
	Cal - Calibration =		0				MCAL - Manual Calibration =				0				PF - Power Fail =				0								
	MISS - Data Not Collected =		0																								

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	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY																												
1	0	0	0	0	0	0	0	0	33	175	238	371	501	672	223	106	77	14	3	0	0	0	0	0	101	672	24	
2	0	0	0	0	0	0	0	1	65	257	426	564	651	687	676	604	464	308	130	7	0	0	0	0	202	687	24	
3	0	0	0	0	0	0	0	0	16	66	140	269	230	292	253	352	389	53	8	1	0	0	0	0	86	389	24	
4	0	0	0	0	0	0	0	0	53	112	137	193	NA	243	178	347	356	301	62	5	0	0	0	0	86	356	23	
5	0	0	0	0	0	0	0	1	50	233	375	532	583	582	619	479	361	181	64	4	0	0	0	0	169	619	24	
6	0	0	0	0	0	0	0	0	54	211	370	513	601	635	620	545	424	267	68	4	0	0	0	0	180	635	24	
7	0	0	0	0	0	0	0	1	60	155	163	181	288	215	580	619	350	87	17	2	0	0	0	0	113	619	24	
8	0	0	0	0	0	0	0	0	4	30	76	114	238	226	305	231	55	269	13	0	0	0	0	0	65	305	24	
9	0	0	0	0	0	0	0	0	25	212	382	525	611	644	632	562	439	276	35	2	0	0	0	0	181	644	24	
10	0	0	0	0	0	0	0	0	24	217	394	526	612	645	629	551	427	265	24	2	0	0	0	0	180	645	24	
11	0	0	0	0	0	0	0	0	21	178	373	493	508	578	505	556	367	173	39	2	0	0	0	0	158	578	24	
12	0	0	0	0	0	0	0	0	28	155	312	529	487	449	509	473	398	186	29	1	0	0	0	0	148	529	24	
13	0	0	0	0	0	0	0	0	20	97	203	369	478	603	568	392	150	15	2	0	0	0	0	0	121	603	24	
14	0	0	0	0	0	0	0	0	1	15	33	53	98	80	77	63	43	26	4	0	0	0	0	0	21	98	24	
15	0	0	0	0	0	0	0	0	1	19	44	85	132	115	142	57	33	28	9	0	0	0	0	0	28	142	24	
16	0	0	0	0	0	0	0	0	3	21	48	74	86	132	112	111	85	36	16	0	0	0	0	0	30	132	24	
17	0	0	0	0	0	0	0	0	4	33	105	120	129	111	86	100	72	34	17	0	0	0	0	0	34	129	24	
18	0	0	0	0	0	0	0	0	10	50	164	208	277	250	357	280	143	82	27	0	0	0	0	0	77	357	24	
19	0	0	0	0	0	0	0	0	7	66	231	NA	324	277	236	96	48	19	6	0	0	0	0	0	57	324	23	
20	0	0	0	0	0	0	0	0	3	55	182	214	193	204	383	240	332	97	16	0	0	0	0	0	80	383	24	
21	0	0	0	0	0	0	0	0	17	90	152	427	401	406	364	434	293	123	22	1	0	0	0	0	114	434	24	
22	0	0	0	0	0	0	0	0	9	61	163	378	433	524	342	279	210	68	14	0	0	0	0	0	103	524	24	
23	0	0	0	0	0	0	0	0	1	5	36	108	97	224	178	132	77	23	1	0	0	0	0	0	37	224	24	
24	0	0	0	0	0	0	0	0	2	19	46	110	278	296	227	178	81	34	9	0	0	0	0	0	53	296	24	
25	0	0	0	0	0	0	0	0	4	48	43	82	131	232	430	467	319	33	18	0	0	0	0	0	75	467	24	
26	0	0	0	0	0	0	0	0	7	71	139	206	261	238	353	121	68	57	9	0	0	0	0	0	64	353	24	
27	0	0	0	0	0	0	0	0	2	26	82	177	223	163	126	104	99	44	7	0	0	0	0	0	44	223	24	
28	0	0	0	0	0	0	0	0	2	26	69	122	155	136	138	84	38	15	1	0	0	0	0	0	33	155	24	
29	0	0	0	0	0	0	0	0	1	14	37	76	80	134	114	163	103	45	5	0	0	0	0	0	32	163	24	
30	0	0	0	0	0	0	0	0	3	65	97	132	173	228	167	186	136	74	1	0	0	0	0	0	53	228	24	
31	0	0	0	0	0	0	0	0	1	20	75	121	129	166	224	178	77	33	3	0	0	0	0	0	43	224	24	
Hour Avg.:	0	0	0	0	0	0	0	0	17	90	172	262	313	335	334	293	210	105	22	1	0	0	0	0				
Hour Max.:	0	0	0	0	0	0	0	1	65	257	426	564	651	687	676	619	464	308	130	7	0	0	0	0				
Readings	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31				
Monthly Avg.:	89 W/m2		Standard Deviation: 158.5				Data Capture: 99.7 %																Total Valid Hours =		742			
System Codes:	NA	- Not Available =							2	AUD				- Audit =				0	ACAL				- Auto Cal =				0	
	RNG	- Range =							0	M&R				- Maintenance & Repair =				0	INOP				- InOperative =				0	
	Cal	- Calibration =							0	MCAL				- Manual Calibration =				0	PF				- Power Fail =				0	
	MISS	- Data Not Collected =							0																			

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

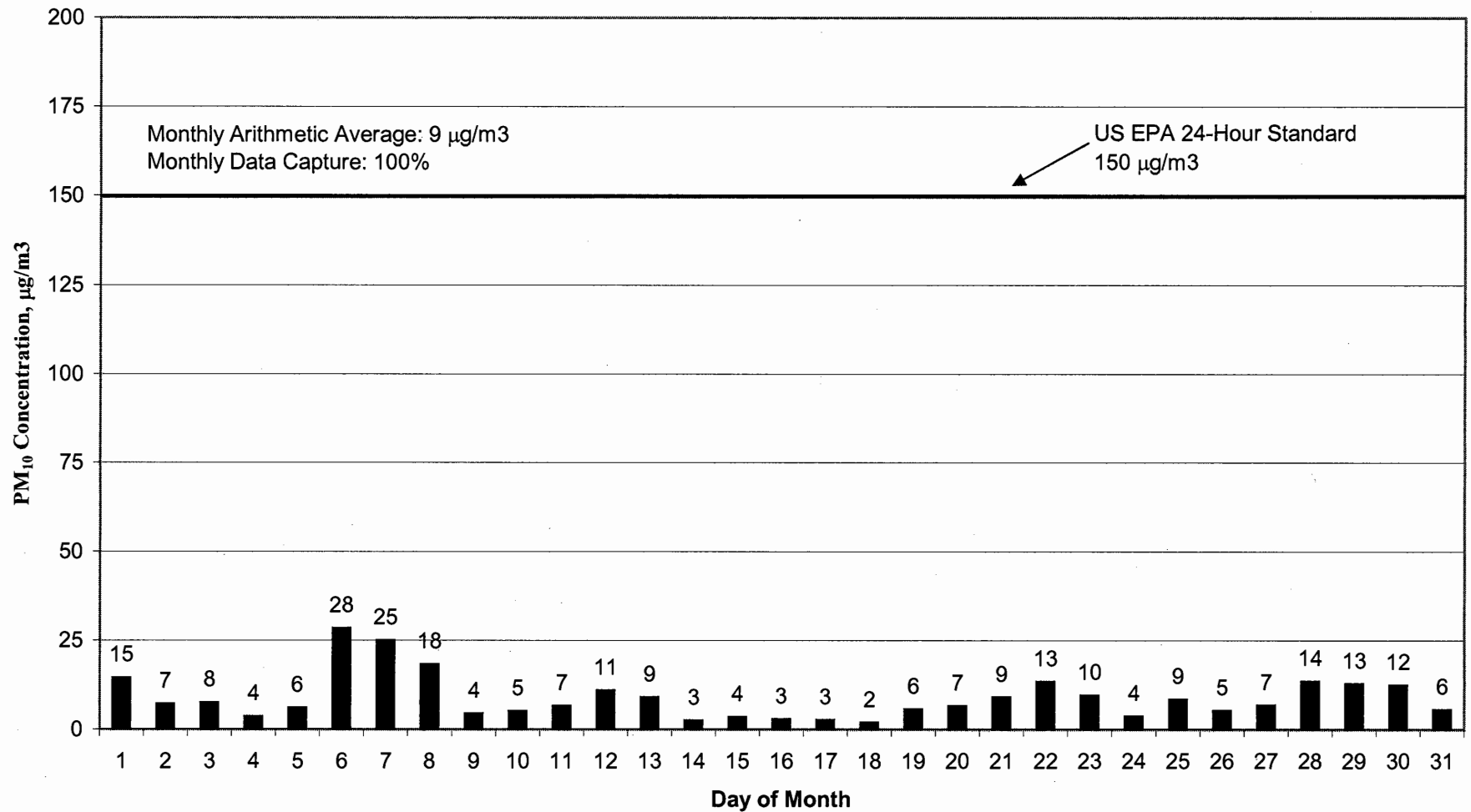
Rain Fall (mm)

(One Hour Accumulations)

October 2004

		CLASS 100																							Daily	Total
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Readings
1	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	2.7	4.0	3.9	2.3	1.2	2.8	0.3	17.2	21
2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0	0.1	0.0	0.0	0	1.0	22
3	0.1	0.0	0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0	0.3	21
4	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.1	0.0	0.0	0	0.9	23
6	0.1	0.0	0.0	0.0	0	0.1	0	0.1	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.4	20
7	0.1	0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	21
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.2	0.0	1.2	24
9	0.0	0.8	0.7	0.8	0.5	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.2	0	0.2	0.0	0.0	0.0	3.4	21
10	0.0	0.0	0	0.2	0.0	0	0.0	0.0	0.0	0.2	0.0	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.8	20
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.0	0.2	0.0	0.0	0.0	0.4	22
12	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.7	1.9	23
14	0.0	0.5	0.0	0.5	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	24
15	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	1.9	1.5	1.2	1.6	1.1	0.4	0.5	0.3	0.9	0.8	0.3	0.5	0.0	0.3	0.0	0.4	12.6	24
16	0.3	0.5	0.8	0.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	0.7	0.8	0.5	0.3	0.0	0.4	0.0	0.0	0.0	0.0	7.1	24
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.1	0.4	0.5	0.0	0.3	0.0	0.0	0.0	3.9	24
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	1.5	0.5	0.0	6.3	0.3	0.0	0.2	0.3	0.0	0.0	0.0	11.1	24
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	23
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.5	23
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0	0.3	0.0	0	0.3	0.0	2.1	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	1.2	0.0	0.8	0.0	0.3	7.4	24
24	0.0	0.2	0.0	0	0.2	0.0	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	23
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
26	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	22
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
29	0.0	0.0	0.3	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	23
30	0.0	0.0	0.0	0.5	0.3	0.5	0.4	0.0	0.0	0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.1	0.5	0.3	3.8	22
31	0.4	0.5	1.1	0.1	1.1	0.8	0.0	0.0	0.0	0.5	1.0	1.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	24
Hour Avg.:	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.4	0.3	0.1	0.1	0.1	0.1		
Hour Max.:	1.2	0.8	1.1	0.8	1.1	0.8	0.4	0.8	1.9	1.5	1.2	1.6	1.5	1.5	0.8	0.8	6.3	2.7	4.8	3.9	2.3	1.2	2.8	0.7		
Readings	31	29	29	30	30	29	29	31	31	28	29	28	29	29	29	30	30	30	29	28	31	29	31	28		
Monthly Total:	91.6 mm																							Data Capture: 98.2 %		Total Valid Hours = 707
System Codes:	NA - Not Available = 2																							AUD - Audit = 0		ACAL - Auto Cal = 0
	RNG - Range = 0																							M&R - Maintenance & Repair = 0		INOP - InOperative = 0
	Cal - Calibration = 0																							MCAL - Manual Calibration = 0		PF - Power Fail = 0
	MISS - Data Not Collected = 0																									

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
OCTOBER 2004



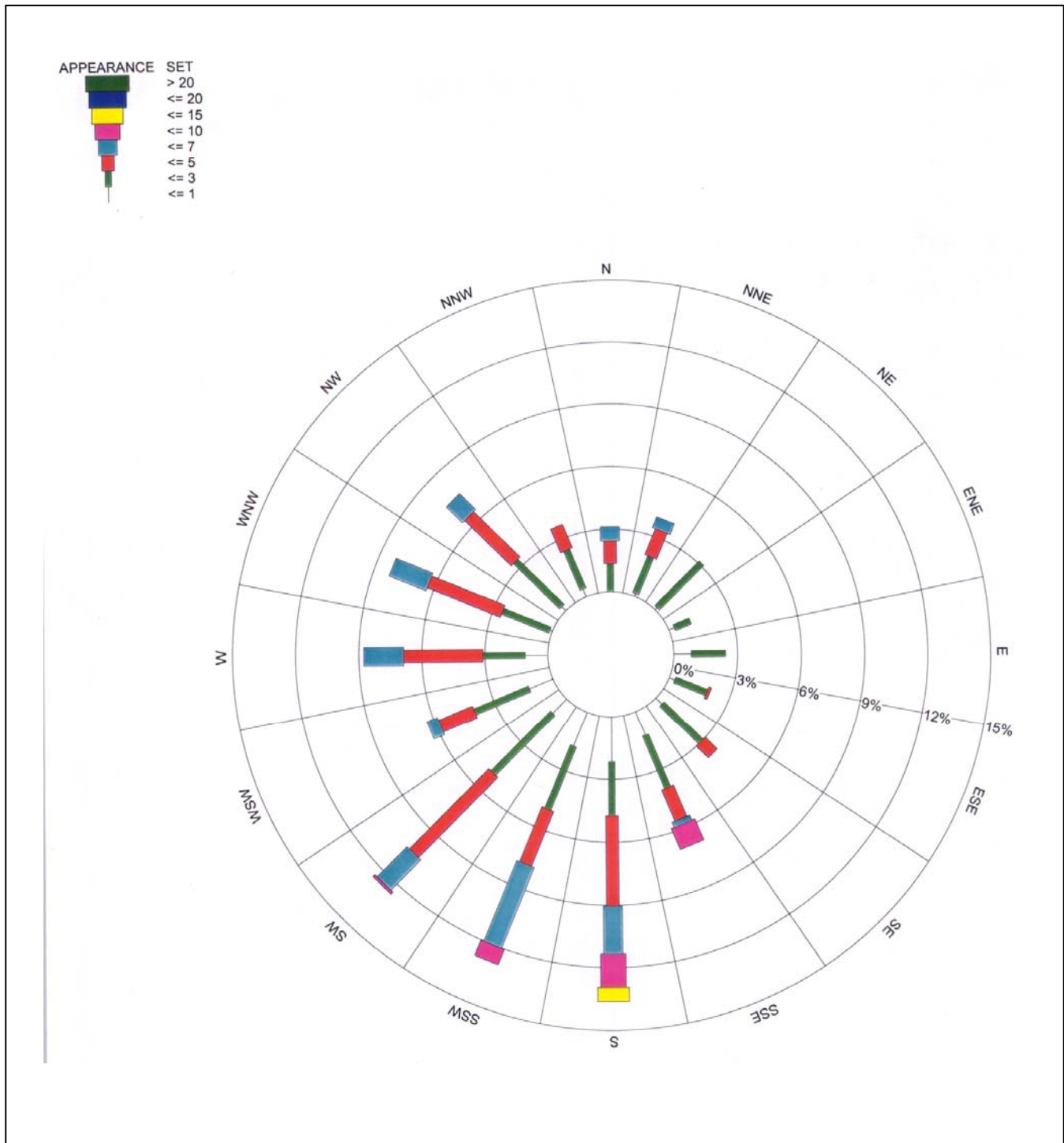


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 3.37062

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
OCTOBER 2004**



Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
OCTOBER 2004

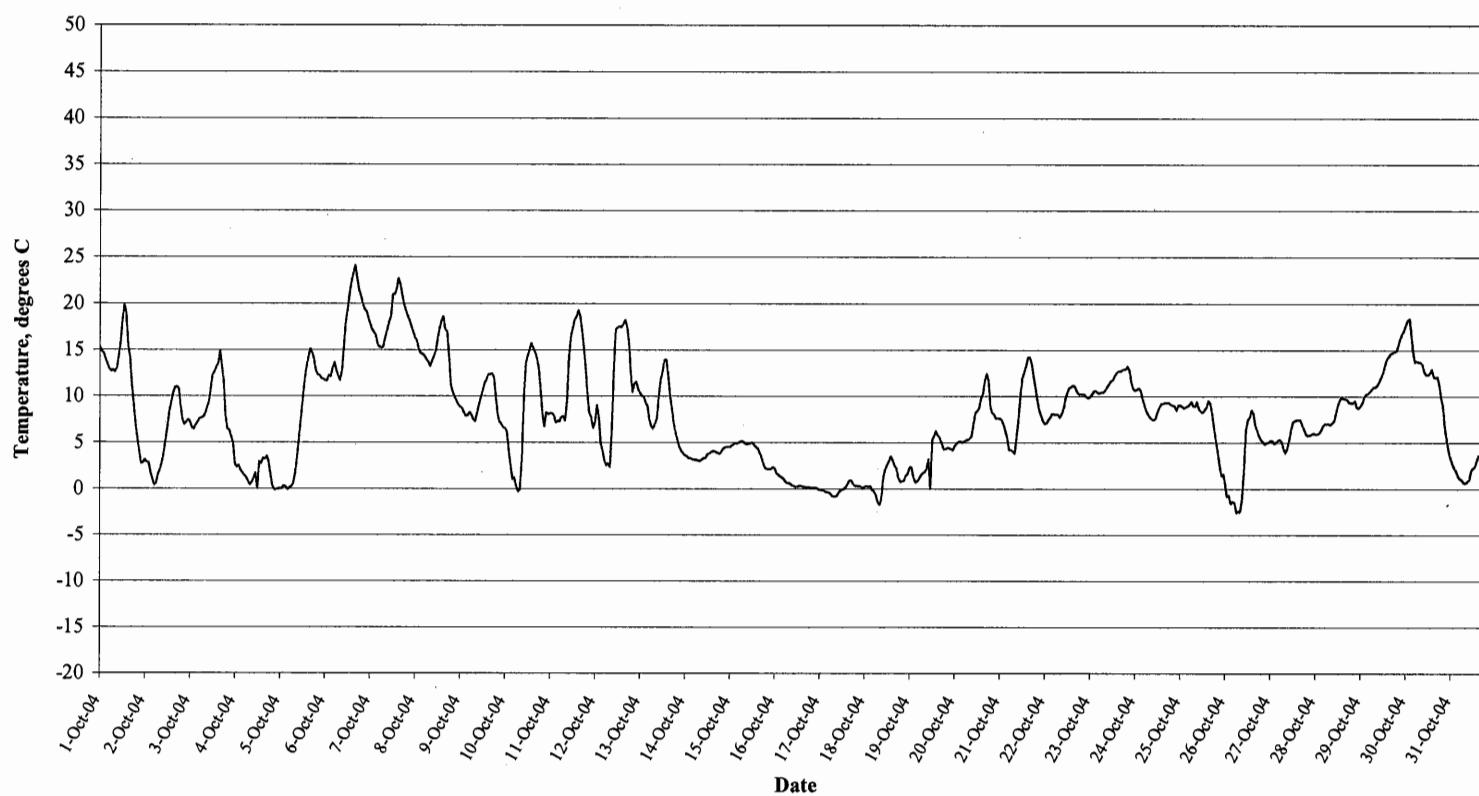


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
OCTOBER 2004

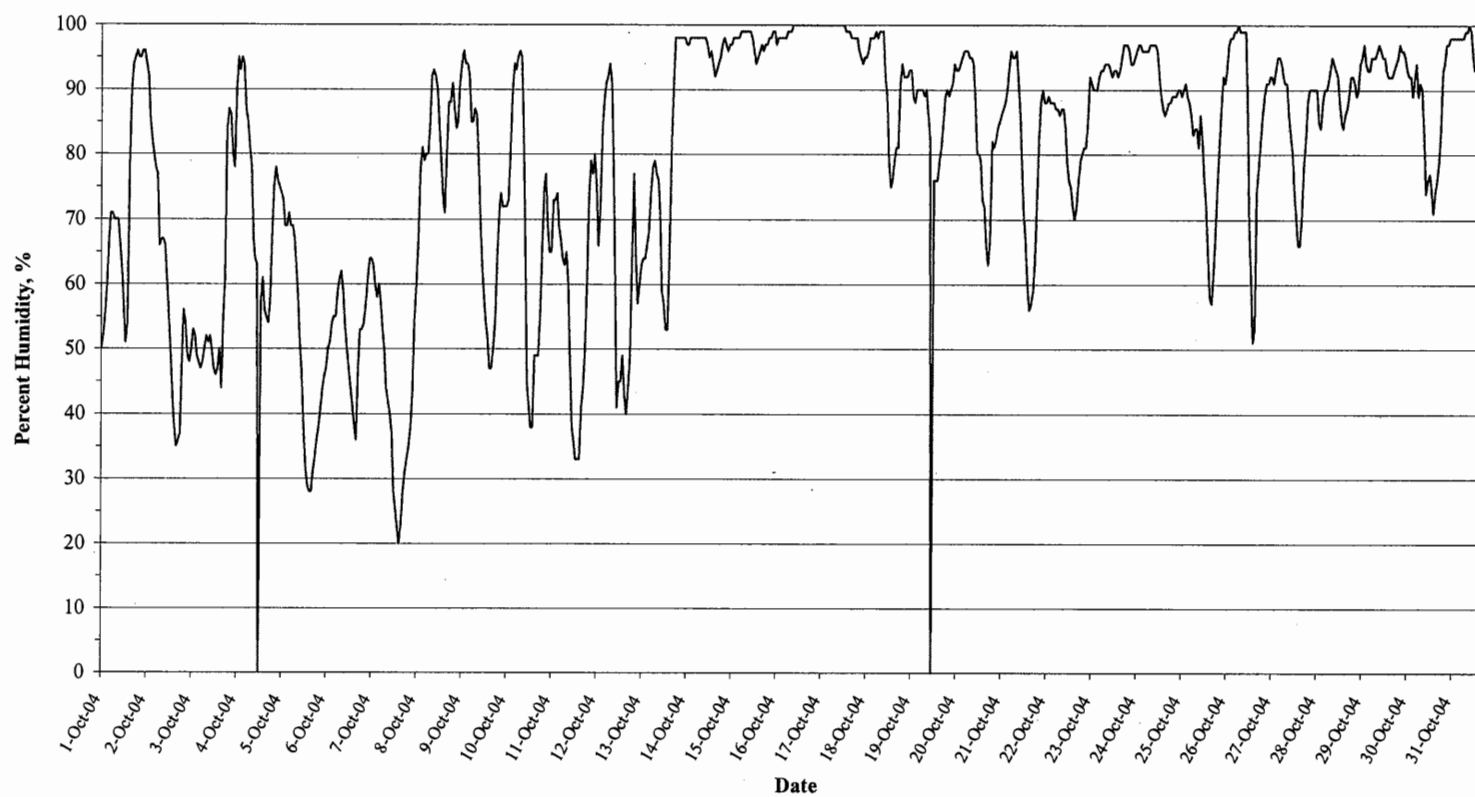


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
OCTOBER 2004

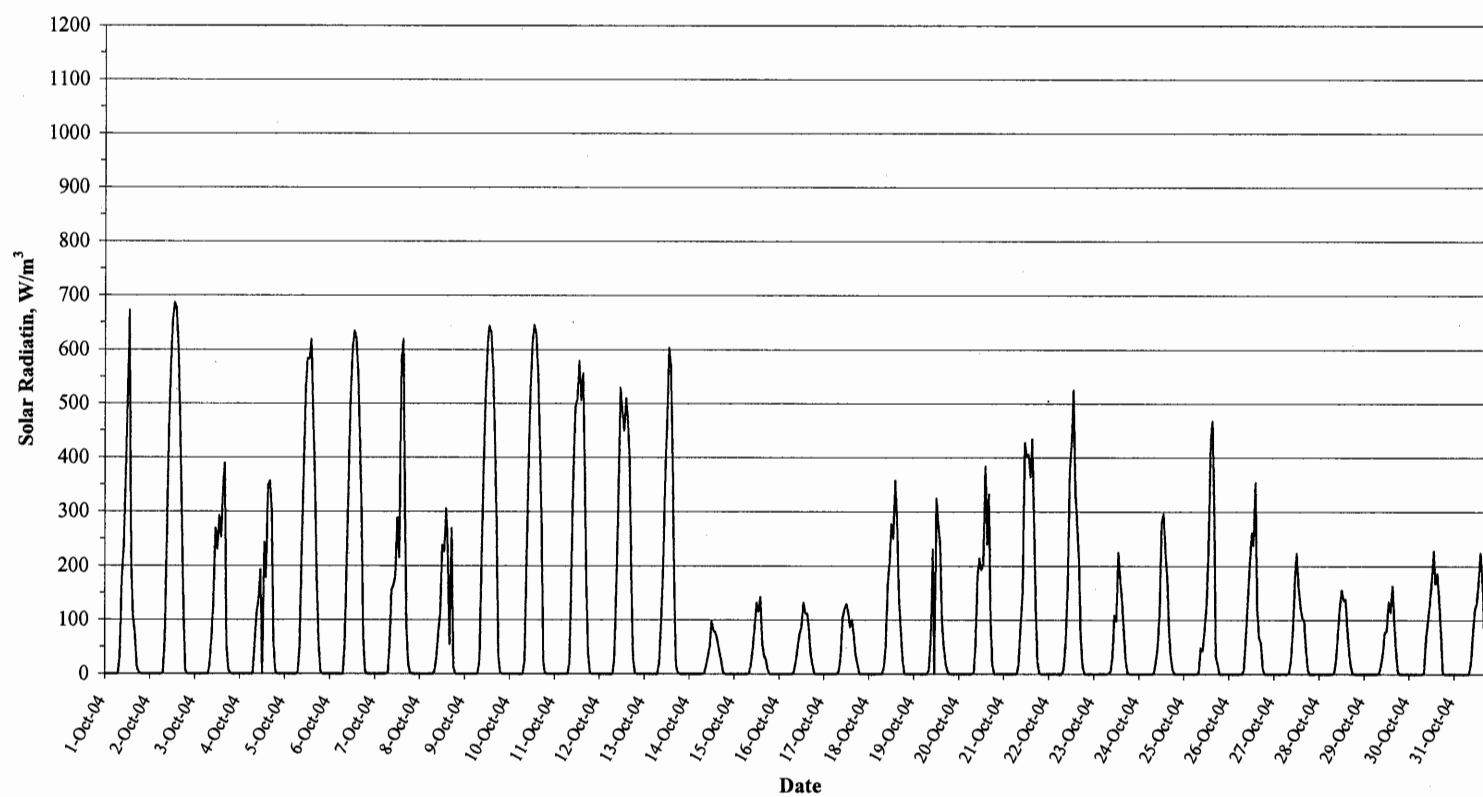
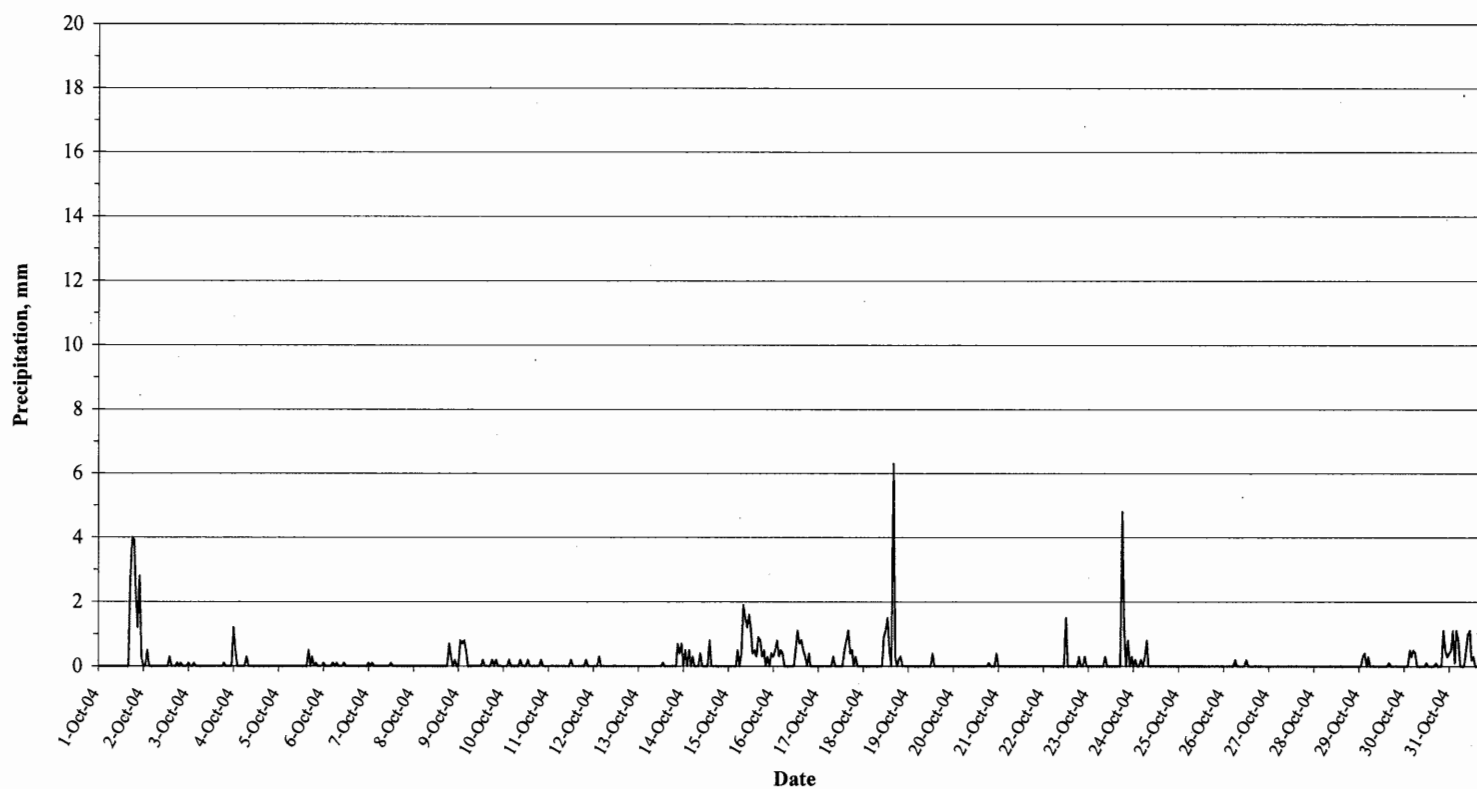


Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
OCTOBER 2004



Appendix F

November 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
November 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	12	µg/m ³	10-Nov-04
Second Maximum 24-Hour (Daily) Concentration ² :	12	µg/m ³	23-Nov-04
Monthly Data Collection Efficiency:	76.4	%	
Monthly Arithmetic Average:	7	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - November 2004)	14	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SW
Average Wind Direction Horizontal Deviation:	20 degrees
Average Wind Speed:	3.1 m/s
Average Temperature:	2.6 °C
Average Relative Humidity:	76 %
Average Solar Radiation:	43 W/m ²
Total Rain Fall:	50.4 mm
Monthly Data Collection Efficiency:	69.3 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 µg/m ³ :	8.2 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 µg/m ³ :	27.9 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

**Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**PM₁₀ (µg/m³)
(One Hour Averages)**

November 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
1	5	5	5	4	3	2	4	5	4	3	0	0	2	1	3	4	1	3	5	11	10	1	2	5	4	11	24
2	7	3	2	3	4	5	5	7	5	4	7	7	2	8	10	4	2	4	4	5	10	8	4	3	5	10	24
3	4	11	14	10	7	10	11	8	7	8	2	0	0	2	4	0	0	0	5	7	10	10	9	7	6	14	24
4	11	11	12	16	9	11	13	16	19	18	13	17	4	2	3	4	1	3	5	3	4	4	4	4	9	19	24
5	5	7	4	4	7	7	4	6	7	6	5	2	3	0	0	0	1	0	3	9	11	8	6	10	5	11	24
6	11	10	5	6	10	9	16	17	13	14	14	11	11	10	6	11	14	14	15	14	13	15	16	18	12	18	24
7	18	18	17	19	10	10	9	8	5	5	7	2	0	0	3	6	3	0	4	4	3	3	4	7	7	19	24
8	4	8	9	7	4	1	0	1	1	4	6	0	0	0	0	2	2	0	4	8	9	8	4	0	3	9	24
9	0	3	4	7	6	1	2	6	4	4	2	0	3	7	5	3	0	0	3	4	7	12	15	16	5	16	24
10	20	20	17	14	17	18	20	13	14	17	13	AUD	AUD	AUD	AUD	AUD	AUD	AUD	9	10	10	10	9	7	NA	20	17
11	7	9	10	7	4	9	12	10	7	9	6	2	1	0	1	0	0	0	2	7	8	8	8	4	5	12	24
12	2	7	8	7	3	4	10	9	8	21	6	0	0	0	0	0	0	0	6	17	15	13	12	12	7	21	24
13	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	2
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	0
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	0
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	0
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	0
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	21	15	16	14	11	8	21	21	25	13	21	9	NA	25	13
19	11	20	10	12	11	7	7	9	9	7	5	5	4	2	0	2	6	11	11	4	8	10	5	7	8	20	24
20	8	5	2	0	2	4	1	0	0	2	4	0	1	3	3	3	9	11	11	11	11	12	12	12	5	12	24
21	11	8	4	4	1	8	8	3	4	7	7	1	1	4	5	3	2	3	4	4	8	9	8	8	5	11	24
22	6	8	10	12	10	9	7	8	10	9	6	3	1	0	0	1	2	3	4	4	4	5	7	7	6	12	24
23	7	18	16	20	25	20	22	20	24	14	10	8	11	5	1	1	4	9	5	8	12	11	20	4	12	25	24
24	6	6	6	7	8	4	5	6	5	6	7	2	0	0	0	0	0	2	3	7	8	6	7	4	4	8	24
25	3	10	12	10	8	9	6	4	8	4	6	7	4	2	7	9	8	7	7	6	6	7	5	6	7	12	24
26	13	14	14	9	1	2	5	5	7	2	0	1	3	5	7	8	4	3	8	8	5	8	7	8	6	14	24
27	11	11	7	3	4	4	3	3	5	3	0	2	0	0	0	2	3	0	0	0	3	4	3	1	3	11	24
28	0	1	2	4	4	7	7	8	7	4	6	2	2	5	5	4	4	2	5	11	13	9	3	4	5	13	24
29	2	4	10	7	4	6	11	11	10	13	11	10	6	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	13	14
30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	0	0
Hour Avg.:	7	9	9	8	7	7	8	8	8	8	6	4	4	3	NA	NA	NA	NA	6	8	9	8	8	7			
Hour Max.:	20	20	17	20	25	20	22	20	24	21	14	17	21	15	16	14	14	14	21	21	25	15	21	18			
Readings	24	24	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	23	23	23	23	23	23			

Monthly Avg.: 6.6 µg/m³ Standard Deviation: 5.0

Data Capture: 76.4 %

Total Valid Hours = 550

System Codes: NA - Not Available = 0
 RNG - Range = 0
 Cal - Calibration = 0
 MISS - Data Not Collected = 0

AUD - Audit = 7
 M&R - Maintenance & Repair = 0
 MCAL - Manual Calibration = 0
 PF - Low Flow = 0

ACAL - Auto Cal = 0
 INOP - InOperative = 0
 LF - Power Fail = 0

November 2004

Total Valid Hours = 499

	Hours
ACAL - Auto Cal =	0
INOP - InOperative =	0
PF - Power Fail =	0

Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)

November 2004																											Daily	Total
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg.	Readings		
1	71	77	29	26	74	67	19	36	78	28	45	15	23	28	38	31	31	17	17	15	48	24	52	38	39	24		
2	14	17	24	54	37	59	37	24	21	24	24	21	22	NA	18	20	17	19	16	21	21	22	15	17	25	23		
3	12	16	11	12	16	8	22	11	9	10	12	14	16	17	20	22	18	16	12	11	12	12	13	14	14	24		
4	14	15	17	14	15	16	17	16	16	17	19	21	25	23	24	26	26	25	26	26	23	22	24	24	20	24		
5	25	26	26	22	21	24	20	34	19	15	17	16	17	17	17	17	17	16	18	14	14	15	14	16	19	24		
6	16	16	16	15	16	16	17	17	20	18	18	20	24	38	28	18	26	12	11	87	11	14	20	17	21	24		
7	18	18	19	21	28	21	22	24	24	25	25	26	23	28	28	27	28	25	25	22	26	25	21	23	24	24		
8	26	26	22	25	22	22	18	19	23	24	19	25	27	26	30	28	25	26	23	26	17	18	27	17	23	24		
9	23	16	16	22	23	20	8	8	15	13	19	13	17	15	15	14	15	15	13	14	13	13	13	14	15	24		
10	14	16	15	15	15	15	NA	NA	16	16	16	AUD	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	NA	9		
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	19	24	21	17	14	18	12	14	15	14	16	15	NA	13		
15	16	13	13	16	17	18	18	26	19	15	17	18	22	21	17	18	17	13	13	12	13	15	16	15	17	24		
16	15	13	14	13	11	14	13	10	11	15	18	19	17	18	19	20	14	18	18	17	17	18	17	21	16	24		
17	23	27	13	10	30	29	17	22	30	39	24	20	26	24	23	60	16	22	26	40	25	74	34	14	28	24		
18	27	29	18	24	20	22	23	20	20	18	18	NA	20	21	21	25	19	27	22	30	27	35	22	35	24	23		
19	41	71	8	1	68	39	19	8	10	15	NA	14	22	24	24	23	20	20	18	14	13	12	13	14	22	23		
20	14	14	13	16	18	17	13	18	20	19	19	23	19	20	25	22	23	20	20	21	22	20	21	20	19	24		
21	22	18	20	20	16	18	16	17	17	18	21	19	20	22	21	18	18	15	16	16	16	17	17	17	18	24		
22	16	15	15	15	15	16	15	15	16	18	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11		
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0		
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	19	16	16	15	14	13	13	14	14	13	15	16	NA	13		
28	16	16	16	18	21	23	23	24	25	26	26	27	25	26	29	28	18	19	17	22	21	18	14	13	21	24		
29	15	14	14	17	15	18	17	13	16	16	17	18	19	23	20	15	13	14	15	18	18	20	18	17	17	24		
30	17	17	16	17	16	16	16	16	17	16	18	17	18	19	19	17	15	17	14	14	13	17	16	16	16	24		
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Readings	21	21	21	21	21	21	20	20	21	21	20	20	21	20	21	21	21	21	21	21	21	21	21	21				
Monthly Avg.:	20 °	Standard Deviation:					9.9	Data Capture:					69.3 %	Total Valid Hours =										499				
System Codes:	NA	- Not Available =					Hours	214	AUD	- Audit =					Hours	7	ACAL	- Auto Cal =					Hours	0				
	RNG	- Range =						0	M&R	- Maintenance & Repair =						0	INOP	- InOperative =						0				
	Cal	- Calibration =						0	MCAL	- Manual Calibration =						0	PF	- Power Fail =						0				
	MISS	- Data Not Collected =						0																				

KMC EAGLE STATION
WIND SPEED - m/s
(One Hour Averages)

November 2004

																								Daily Avg.	Daily Max.	Total Readings		
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	0.3	0.4	0.5	0.3	0.3	0.4	1.0	1.2	0.7	1.0	0.9	1.1	1.2	1.3	1.0	0.7	0.7	0.7	1.3	0.7	0.6	0.3	0.9	0.6	0.8	1.3	24	
2	1.2	1.5	1.4	0.6	0.4	0.4	0.3	0.4	0.9	0.7	1.6	2.1	2.4	NA	3.0	3.1	3.5	2.8	2.7	1.9	1.4	1.6	1.6	1.3	1.6	3.5	23	
3	1.1	1.2	1.3	1.3	1.2	1.2	0.8	0.9	1.2	1.5	2.5	3.8	4.9	4.5	4.3	4.5	4.2	3.7	2.8	2.3	3.6	4.0	4.1	4.3	2.7	4.9	24	
4	4.8	4.3	3.3	2.8	2.9	3.4	3.2	3.1	3.2	3.3	3.8	4.0	4.0	4.3	4.4	4.7	5.1	5.7	4.9	4.2	4.5	4.0	3.4	3.7	4.0	5.7	24	
5	3.4	3.6	3.2	3.4	3.1	2.5	1.4	1.4	1.9	3.3	4.1	4.8	4.8	6.6	7.0	5.8	5.8	4.4	2.3	1.5	2.4	3.5	3.5	4.5	3.7	7.0	24	
6	4.9	4.2	3.4	2.9	3.6	3.9	3.1	3.8	2.6	2.9	3.1	3.0	2.6	1.6	1.9	1.7	1.0	2.4	3.1	1.2	2.1	2.7	2.9	2.1	2.8	4.9	24	
7	2.9	3.6	4.6	5.0	5.4	5.2	4.2	4.2	4.3	3.4	3.5	3.4	5.4	5.2	5.6	5.3	5.2	4.7	3.6	2.9	2.6	2.9	2.8	3.0	4.1	5.6	24	
8	2.6	3.4	3.5	3.1	3.2	3.1	4.2	3.3	2.8	3.1	3.2	3.8	3.6	3.4	2.9	2.8	3.1	3.4	2.5	1.7	1.2	1.1	0.8	1.0	2.8	4.2	24	
9	0.9	1.3	1.1	1.1	0.8	0.8	0.7	1.4	1.8	2.7	4.1	5.1	4.4	5.7	5.9	6.4	6.6	7.4	7.5	7.5	9.2	8.6	8.5	7.7	4.5	9.2	24	
10	7.4	6.0	6.2	6.3	5.8	5.6	NA	NA	4.3	4.0	4.2	AUD	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	NA	7.4	9	
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.9	3.8	3.3	3.6	3.1	2.6	1.3	2.2	2.6	4.1	3.4	3.5	3.4	NA	4.1	13	
15	3.5	3.1	3.2	3.2	3.1	3.7	2.5	2.1	2.3	3.2	3.3	3.1	1.8	2.7	3.3	3.9	2.3	1.5	2.0	2.5	3.4	2.7	3.6	3.2	2.9	3.9	24	
16	3.1	3.1	3.0	2.7	3.1	2.7	3.1	2.6	2.9	3.5	4.1	4.2	5.1	4.5	4.0	3.2	4.0	4.0	3.1	2.5	2.7	2.0	1.9	1.7	3.2	5.1	24	
17	1.4	1.2	1.3	1.6	1.7	1.4	1.8	1.1	1.1	0.9	1.3	1.2	1.2	1.9	1.3	1.2	1.6	0.6	1.0	0.6	0.8	0.4	0.7	0.8	1.2	1.9	24	
18	1.0	1.2	1.7	2.1	2.2	2.8	3.3	3.9	3.1	4.0	4.5	NA	3.4	3.1	3.2	2.9	2.6	1.1	1.4	1.2	1.2	1.0	1.3	1.0	2.3	4.5	23	
19	0.5	0.4	0.2	0.1	0.4	0.5	1.1	1.1	1.5	1.3	NA	3.3	3.4	3.0	2.3	2.0	2.4	2.1	2.5	2.9	3.5	4.1	4.0	4.5	2.0	4.5	23	
20	4.1	4.1	3.4	3.0	2.1	2.2	3.0	2.1	2.1	1.8	1.6	2.3	3.7	4.0	5.1	5.5	5.4	4.8	5.0	4.8	5.6	5.0	4.8	4.6	3.8	5.6	24	
21	4.9	4.9	5.4	4.8	4.0	4.1	3.9	3.9	3.6	4.4	4.4	4.7	4.5	4.6	4.5	4.2	3.2	3.5	2.6	2.4	2.4	3.3	3.6	3.8	4.0	5.4	24	
22	3.2	2.8	2.8	3.1	3.6	3.7	3.7	3.4	3.6	4.6	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	11	
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0	
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	1.9	1.9	2.0	2.0	2.2	2.3	3.2	5.0	5.0	5.5	5.3	5.0	NA	5.5	13	
28	6.1	6.3	6.2	6.6	6.3	5.5	5.3	5.1	4.9	4.3	4.1	4.1	3.9	4.4	3.4	3.5	3.5	3.6	3.1	1.9	1.0	1.6	2.2	2.4	4.1	6.6	24	
29	2.3	2.1	2.3	1.9	2.2	1.5	1.3	2.0	2.2	1.7	2.3	3.1	4.2	3.6	3.7	3.7	4.1	4.6	5.2	5.2	5.0	5.6	5.1	4.5	3.3	5.6	24	
30	4.8	4.8	4.6	4.7	5.1	5.2	5.2	4.8	4.6	4.4	5.0	4.3	4.8	4.9	4.8	4.6	4.0	3.5	3.5	3.4	2.8	2.7	2.3	1.7	4.2	5.2	24	
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Hour Max.:	7.4	6.3	6.2	6.6	6.3	5.6	5.3	5.1	4.9	4.6	5.0	5.1	5.4	6.6	7.0	6.4	6.6	7.4	7.5	7.5	9.2	8.6	8.5	7.7				
Readings	21	21	21	21	21	21	20	20	21	21	20	20	21	20	21	21	21	21	21	21	21	21	21	21				
Monthly Avg.:	3.1 m/s		Standard Deviation:				1.6		Data Capture:				69.3 %														Total Valid Hours =	499
System Codes:			Hours								Hours								Hours									
	NA - Not Available =		214				AUD - Audit =				7				ACAL - Auto Cal =				0									
	RNG - Range =		0				M&R - Maintenance & Repair =				0				INOP - InOperative =				0									
	Cal - Calibration =		0				MCAL - Manual Calibration =				0				PF - Power Fail =				0									
	MISS - Data Not Collected =		0																									

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

November 2004																														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
DAY	1	1.3	-0.1	0.2	0.7	0.7	0.7	1.0	0.9	0.7	1.3	2.2	3.4	3.7	3.9	4.1	4.2	4.3	4.1	3.8	3.5	3.3	3.2	3.1	3.0	2.4	4.3	24		
	2	3.0	3.1	3.1	2.9	2.6	2.6	2.5	2.5	2.5	2.7	3.3	3.9	4.4	NA	4.4	4.1	3.8	3.4	3.0	2.7	2.6	2.5	1.9	1.0	3.0	4.4	23		
	3	0.3	0.3	0.5	0.4	0.1	-0.2	-0.6	-1.1	-1.1	-0.3	2.0	3.5	4.8	6.3	7.4	8.0	8.2	7.9	6.7	5.6	4.9	4.2	3.8	3.9	3.1	8.2	24		
	4	3.8	3.6	3.3	3.3	3.3	3.1	2.6	2.4	2.5	2.4	3.7	3.7	3.1	3.1	3.6	4.6	4.8	4.6	4.2	4.0	3.6	3.2	2.9	2.8	3.4	4.8	24		
	5	2.7	2.5	2.1	1.7	1.0	0.7	0.0	-0.3	0.2	1.1	2.5	3.9	5.4	9.2	9.7	9.9	10.8	10.5	9.7	7.8	6.9	7.4	7.4	8.4	5.1	10.8	24		
	6	8.6	7.9	7.2	6.4	7.0	6.8	6.3	6.3	5.7	5.8	6.5	7.5	9.1	9.8	9.8	9.7	9.9	9.3	9.0	8.8	8.4	8.2	8.2	7.9	7.9	9.9	24		
	7	8.3	7.9	7.4	6.8	6.4	3.4	2.4	2.2	1.8	1.4	1.3	2.0	1.8	2.3	2.7	2.3	1.9	1.4	1.0	1.0	1.0	0.0	-1.3	-1.5	2.7	8.3	24		
	8	-1.3	-1.4	-1.7	-1.6	-2.0	-2.1	-2.2	-2.6	-2.8	-2.8	-2.7	-1.8	-1.6	-1.6	-1.1	-0.7	-0.2	-0.7	-1.8	-2.1	-2.5	-2.8	-3.1	-3.6	-2.0	-0.2	24		
	9	-4.1	-4.1	-4.1	-4.5	-4.8	-4.6	-4.5	-4.3	-3.9	-3.2	-2.5	-1.5	-0.7	0.1	1.5	2.7	4.1	4.3	4.3	4.1	4.2	4.3	4.7	5.3	-0.3	5.3	24		
	10	6.1	6.5	6.7	6.7	6.8	7.1	NA	NA	8.7	7.8	7.8	AUD	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	NA	8.7	9		
	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.7	8.6	10.2	11.0	11.1	9.7	8.5	7.1	6.2	6.2	5.8	5.5	4.9	NA	11.1	13			
	15	4.7	4.5	4.8	4.6	4.7	4.5	3.5	2.6	2.4	3.2	4.0	5.0	6.2	6.5	7.4	8.6	7.7	6.9	5.6	4.2	4.1	4.0	4.3	3.7	4.9	8.6	24		
	16	3.6	3.6	3.5	3.3	2.9	3.1	3.4	2.4	2.0	2.8	4.7	6.0	6.8	8.1	8.8	9.3	9.3	7.8	7.4	7.3	7.1	7.1	7.0	6.9	5.6	9.3	24		
	17	7.0	7.1	7.0	7.3	7.4	7.2	7.2	7.1	7.2	7.4	7.8	8.3	9.1	10.2	10.3	10.3	9.4	8.8	8.3	7.9	7.7	7.5	7.5	7.7	8.0	10.3	24		
	18	7.8	7.7	8.0	8.1	7.9	7.8	7.5	6.9	6.2	6.4	6.4	NA	8.2	8.6	8.1	8.7	8.1	6.4	4.7	3.7	2.9	2.6	3.4	1.5	6.4	8.7	23		
	19	0.8	-0.9	-2.0	-2.4	-1.1	-1.0	0.5	0.6	1.6	1.8	NA	4.9	6.4	6.5	6.8	6.6	5.1	4.3	4.3	4.4	3.6	3.4	3.2	3.3	2.6	6.8	23		
	20	3.6	3.6	3.9	4.1	4.5	5.0	5.3	5.5	5.7	5.9	6.3	6.5	5.5	5.0	4.6	3.9	3.3	3.0	2.7	2.1	1.4	1.2	1.2	1.1	4.0	6.5	24		
	21	1.0	0.8	0.7	0.7	0.3	0.1	-0.4	-0.9	-1.2	-0.8	0.0	0.6	1.2	1.4	1.6	1.7	1.6	0.7	-0.1	-0.3	-0.6	-0.4	-0.1	-0.4	0.3	1.7	24		
	22	-1.1	-1.7	-2.0	-2.1	-2.1	-2.2	-2.1	-1.8	-1.1	-0.2	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	11		
	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	0.6	0.7	1.0	1.7	1.9	2.2	0.6	0.2	0.1	-0.1	-0.3	NA	2.2	13		
	28	-0.7	-1.2	-1.2	-1.3	-1.6	-2.2	-2.6	-3.1	-3.7	-4.2	-4.3	-4.3	-4.2	-3.7	-3.1	-2.6	-2.8	-3.0	-3.2	-3.3	-3.0	-2.9	-2.7	-2.8	-2.8	-0.7	24		
	29	-3.0	-3.0	-2.9	-3.0	-3.3	-3.2	-3.4	-3.7	-3.7	-3.5	-3.2	-2.7	-2.5	-3.1	-2.7	-2.5	-2.7	-3.6	-4.0	-4.2	-4.2	-4.3	-4.4	-4.5	-3.4	-2.5	24		
	30	-4.8	-4.8	-4.8	-4.8	-4.7	-4.6	-4.6	-5.0	-4.9	-4.0	-2.4	-0.7	0.3	0.7	1.1	1.4	0.5	-0.6	-1.3	-1.7	-2.2	-2.8	-3.3	-3.7	-2.6	1.4	24		
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Hour Max.:	8.6	7.9	8.0	8.1	7.9	7.8	7.5	7.1	8.7	7.8	7.8	8.3	9.1	10.2	11.0	11.1	10.8	10.5	9.7	8.8	8.4	8.2	8.2	8.4						
Readings	21	21	21	21	21	21	20	20	21	21	20	20	21	20	21	21	21	21	21	21	21	21	21	21						
Monthly Avg.:	2.6 °C		Standard Deviation:				4.0		Data Capture:				69.3 %														Total Valid Hours =		499	
System Codes:																														
	Hours										Hours										Hours									
	NA - Not Available = 214										AUD - Audit = 7										ACAL - Auto Cal = 0									
	RNG - Range = 0										M&R - Maintenance & Repair = 0										INOP - InOperative = 0									
Cal - Calibration = 0										MCAL - Manual Calibration = 0										PF - Power Fail = 0										
MISS - Data Not Collected = 0																														

**Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)**

November 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings							
1	98	99	100	99	99	99	99	97	95	93	90	83	77	77	78	78	79	80	87	90	91	93	93	97	90	100	24							
2	98	99	99	97	97	98	98	99	99	98	96	92	91	NA	94	94	95	97	97	97	98	98	98	98	97	99	23							
3	99	98	97	98	97	96	95	97	94	87	85	81	77	65	58	58	57	58	64	68	73	78	80	79	81	99	24							
4	80	82	83	83	83	84	86	87	87	87	85	89	96	95	91	81	70	64	57	57	55	60	61	58	78	96	24							
5	60	63	66	68	74	75	78	81	81	72	63	57	52	39	38	42	38	40	44	50	52	48	49	46	57	81	24							
6	47	50	53	56	55	57	59	61	64	65	65	62	55	52	55	55	56	60	59	59	61	62	61	61	58	65	24							
7	58	59	62	69	73	80	79	73	70	70	69	67	68	51	44	40	41	40	40	42	43	61	87	89	61	89	24							
8	81	79	83	76	76	65	63	62	64	57	61	53	55	55	56	56	53	53	59	63	69	68	69	72	65	83	24							
9	75	76	76	78	78	77	75	73	74	71	67	60	60	68	66	61	58	55	49	46	46	49	52	53	64	78	24							
10	52	53	54	56	58	59	NA	NA	64	85	92	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	NA	NA	92	9							
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	21	19	18	21	24	28	34	37	39	40	42	NA	42	12							
15	44	44	41	43	42	46	53	58	60	59	59	58	57	60	65	60	61	65	72	81	84	83	81	83	61	84	24							
16	83	87	88	89	91	92	91	94	97	98	95	91	88	82	79	77	79	86	90	90	91	93	94	96	89	98	24							
17	95	94	94	93	94	96	96	97	97	97	95	95	92	88	88	89	94	95	96	98	98	98	98	98	95	98	24							
18	98	98	96	94	91	89	89	89	90	87	86	NA	69	62	63	58	54	62	70	75	76	75	70	78	79	98	23							
19	82	89	93	94	94	96	98	98	97	95	NA	74	62	63	68	69	79	84	87	85	93	95	95	95	86	98	23							
20	95	95	96	96	96	95	96	96	96	96	96	95	95	95	94	96	92	91	93	92	85	80	78	79	92	96	24							
21	75	76	76	69	70	73	75	78	80	76	70	64	59	56	54	51	52	58	62	64	65	66	67	68	67	80	24							
22	71	75	76	77	76	77	77	76	68	67	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77	11							
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0							
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100	100	100	100	100	100	100	100	NA	100	13							
28	100	100	100	100	100	99	99	99	98	98	98	98	98	98	97	94	90	89	90	90	89	90	90	90	90	100	24							
29	92	92	91	92	91	90	90	91	92	92	92	86	76	81	74	71	76	82	82	81	79	78	77	75	84	92	24							
30	76	74	72	73	73	74	74	76	76	71	65	59	57	60	59	59	64	70	73	74	76	77	77	75	70	77	24							
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Hour Max.:	100.0	100.0	100.0	100.0	100.0	99.0	99.0	99.0	99.0	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0										
Readings	21	21	21	21	21	21	20	20	21	21	20	19	21	20	21	21	21	21	21	21	21	21	21	21										
Monthly Avg.:	76 %		Standard Deviation:				18.4		Data Capture:				69.2 %														Total Valid Hours =		498					
							Hours						Hours														Hours							
System Codes:	NA		- Not Available =				215		AUD				- Audit =				7												ACAL		- Auto Cal =		0	
	RNG		- Range =				0		M&R				- Maintenance & Repair =				0												INOP		- InOperative =		0	
	Cal		- Calibration =				0		MCAL				- Manual Calibration =				0												PF		- Power Fail =		0	
	MISS		- Data Not Collected =				0																											

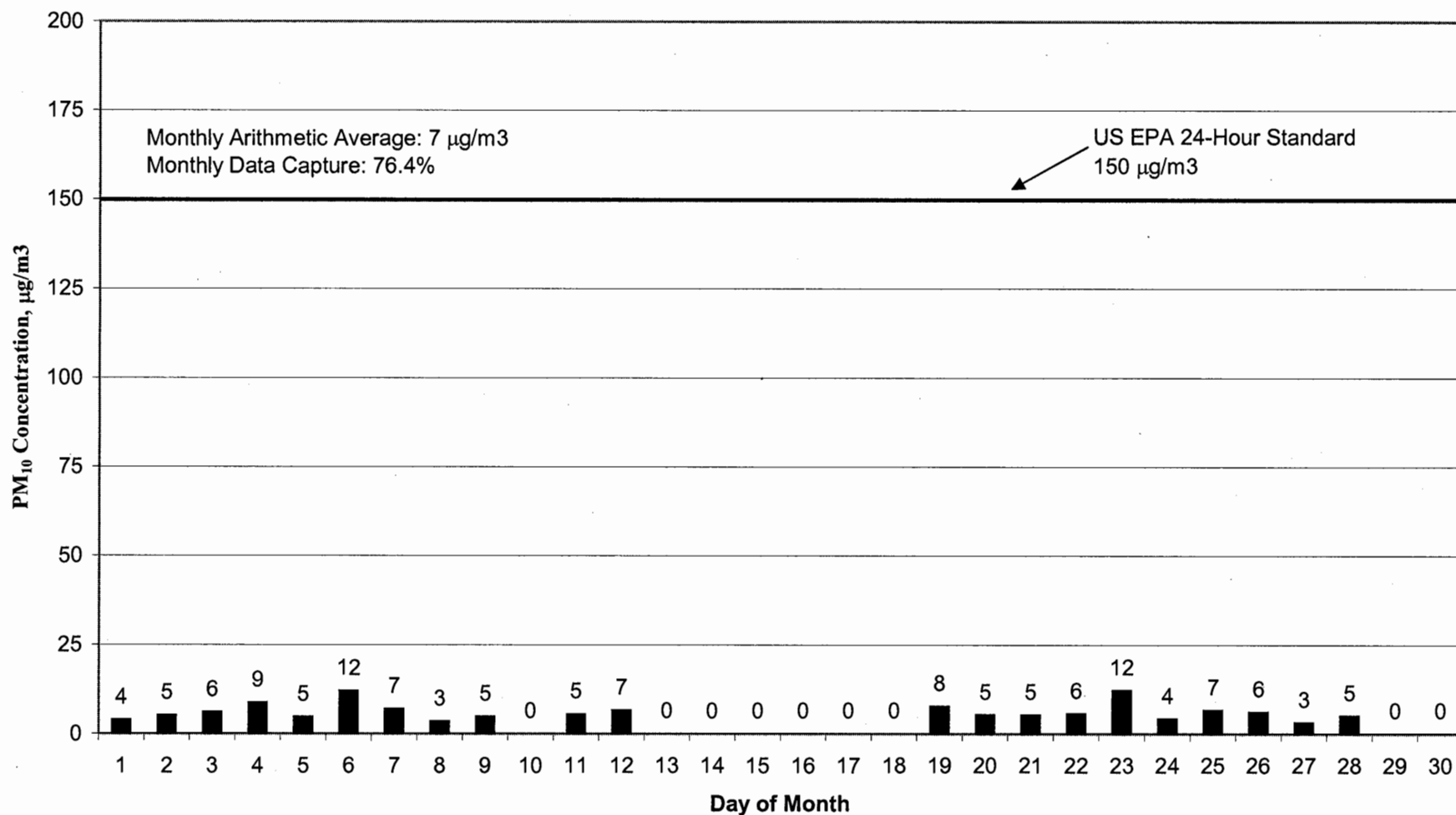
November 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
1	0	0	0	0	0	0	0	0	2	31	97	99	157	114	85	76	38	12	2	0	0	0	0	0	30	157	24	
2	0	0	0	0	0	0	0	0	0	36	66	157	127	NA	125	100	81	25	2	0	0	0	0	0	31	157	23	
3	0	0	0	0	0	0	0	0	2	20	36	48	350	497	479	403	95	23	5	0	0	0	0	0	82	497	24	
4	0	0	0	0	0	0	0	0	1	33	74	18	35	51	171	227	108	48	7	0	0	0	0	0	32	227	24	
5	0	0	0	0	0	0	0	0	3	49	104	175	210	387	251	251	87	67	14	0	0	0	0	0	67	387	24	
6	0	0	0	0	0	0	0	0	2	31	97	146	324	193	126	106	61	22	1	0	0	0	0	0	46	324	24	
7	0	0	0	0	0	0	0	0	0	16	49	106	157	228	338	217	98	44	5	0	0	0	0	0	52	338	24	
8	0	0	0	0	0	0	0	0	0	21	80	104	235	244	225	199	123	72	8	0	0	0	0	0	55	244	24	
9	0	0	0	0	0	0	0	0	1	9	57	70	103	123	189	132	70	19	5	0	0	0	0	0	32	189	24	
10	0	0	0	0	0	0	NA	NA	0	3	31	AUD	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	NA	31	9	
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	446	440	267	48	39	9	0	0	0	0	0	0	NA	446	12	
15	0	0	0	0	0	0	0	0	13	39	75	96	100	106	139	57	30	7	0	0	0	0	0	0	28	139	24	
16	0	0	0	0	0	0	0	0	14	60	103	191	261	370	239	96	64	12	0	0	0	0	0	0	59	370	24	
17	0	0	0	0	0	0	0	0	1	12	32	45	105	124	69	32	13	1	0	0	0	0	0	0	18	124	24	
18	0	0	0	0	0	0	0	0	25	76	135	NA	288	275	176	139	62	7	0	0	0	0	0	0	51	288	23	
19	0	0	0	0	0	0	0	0	11	60	NA	195	367	284	186	100	42	2	0	0	0	0	0	0	54	367	23	
20	0	0	0	0	0	0	0	0	2	21	45	51	48	52	39	14	7	0	0	0	0	0	0	0	12	52	24	
21	0	0	0	0	0	0	0	0	8	27	41	186	335	295	188	98	53	5	0	0	0	0	0	0	52	335	24	
22	0	0	0	0	0	0	0	0	8	33	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	11	
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	26	25	26	19	11	0	0	0	0	0	0	0	NA	28	13	
28	0	0	0	0	0	0	0	0	1	18	65	102	166	273	175	92	44	3	0	0	0	0	0	0	39	273	24	
29	0	0	0	0	0	0	0	0	1	7	64	150	283	222	198	34	20	3	0	0	0	0	0	0	41	283	24	
30	0	0	0	0	0	0	0	0	5	23	36	198	386	382	276	125	34	4	0	0	0	0	0	0	61	386	24	
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Hour Max.:	0	0	0	0	0	0	0	0	25	76	135	198	446	497	479	403	123	72	14	0	0	0	0	0				
Readings	21	21	21	21	21	21	20	20	21	21	20	19	21	20	21	21	21	21	21	21	21	21	21	21				
Monthly Avg.:	43 W/m2		Standard Deviation:			87.4		Data Capture:			69.2 %													Total Valid Hours =			498	
System Codes:	NA - Not Available =		215		AUD - Audit =		7				ACAL - Auto Cal =		0															
	RNG - Range =		0		M&R - Maintenance & Repair =		0				INOP - InOperative =		0															
	Cal - Calibration =		0		MCAL - Manual Calibration =		0				PF - Power Fail =		0															
	MISS - Data Not Collected =		0																									

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
Rain Fall (mm)
(One Hour Accumulations)

November 2004																											Daily Sum	Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	24		
2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.5	0.8	0.4	0.3	0.5	0.8	0.7	0.0	0.0	0.0	0.8	5.9	24		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	1.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	24		
5	0.0	0	0.2	0.0	0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	21		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	23		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.2	22		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.2	23		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	23		
10	0.0	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	0.0	0.0	AUD	AUD	AUD	AUD	AUD	AUD	AUD	NA	NA	NA	NA	NA	NA	0.3	8		
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.2	0.2	10		
15	0	0.0	0.2	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.1	0	0.0	0.0	0.3	16		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	23		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24		
18	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.7	23		
20	0.8	1.0	0.5	0.0	0.5	0.0	0.3	0.4	0.3	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	5.1	24		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0	0.2	0.0	0	0.2	0.0	0.0	0	0.6	20		
22	0.2	0	0.2	0.0	0.0	0	0.0	0.2	0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6	8		
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0		
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	0.3	1.2	1.9	2.0	2.8	3.2	1.6	1.5	0.8	0.4	1.1	17.9	12		
28	1.3	0.7	1.3	1.5	0.5	0.3	0.1	0.3	0.0	0.0	0.0	0.0	0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0	0.2	0.0	0.0	6.5	22		
29	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	22		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.3	0.0	0.0	0	0.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	21		
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Hour Max.:	1.3	1.0	1.3	1.5	0.5	0.3	0.3	0.4	0.5	0.5	0.2	0.2	1.1	0.5	1.2	6.4	2.0	2.8	3.2	1.6	1.5	0.8	0.4	1.1				
Readings	19	19	20	20	19	19	20	20	18	21	19	17	17	20	18	19	19	19	20	20	19	19	21	20				
Monthly Total:	50.4 mm										Data Capture: 62.1 %										Total Valid Hours =			462				
System Codes:	NA - Not Available = 216										AUD - Audit = 7										ACAL - Auto Cal = 0							
	RNG - Range = 0										M&R - Maintenance & Repair = 0										INOP - InOperative = 0							
	Cal - Calibration = 0										MCAL - Manual Calibration = 0										PF - Power Fail = 0							
	MISS - Data Not Collected = 0																											

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
NOVEMBER 2004



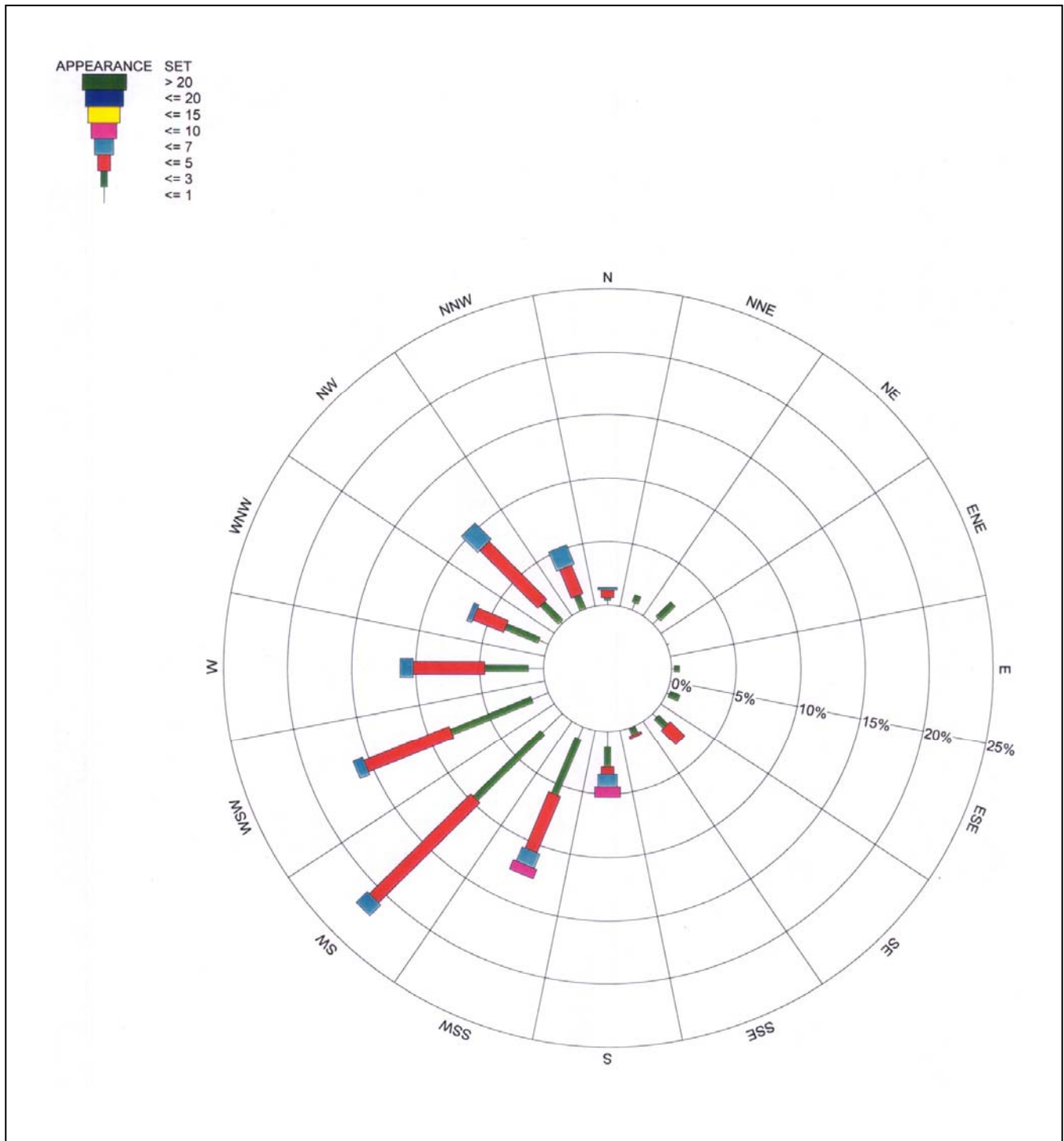


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 3.11583

Source: Golder, 2005.

Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
NOVEMBER 2004

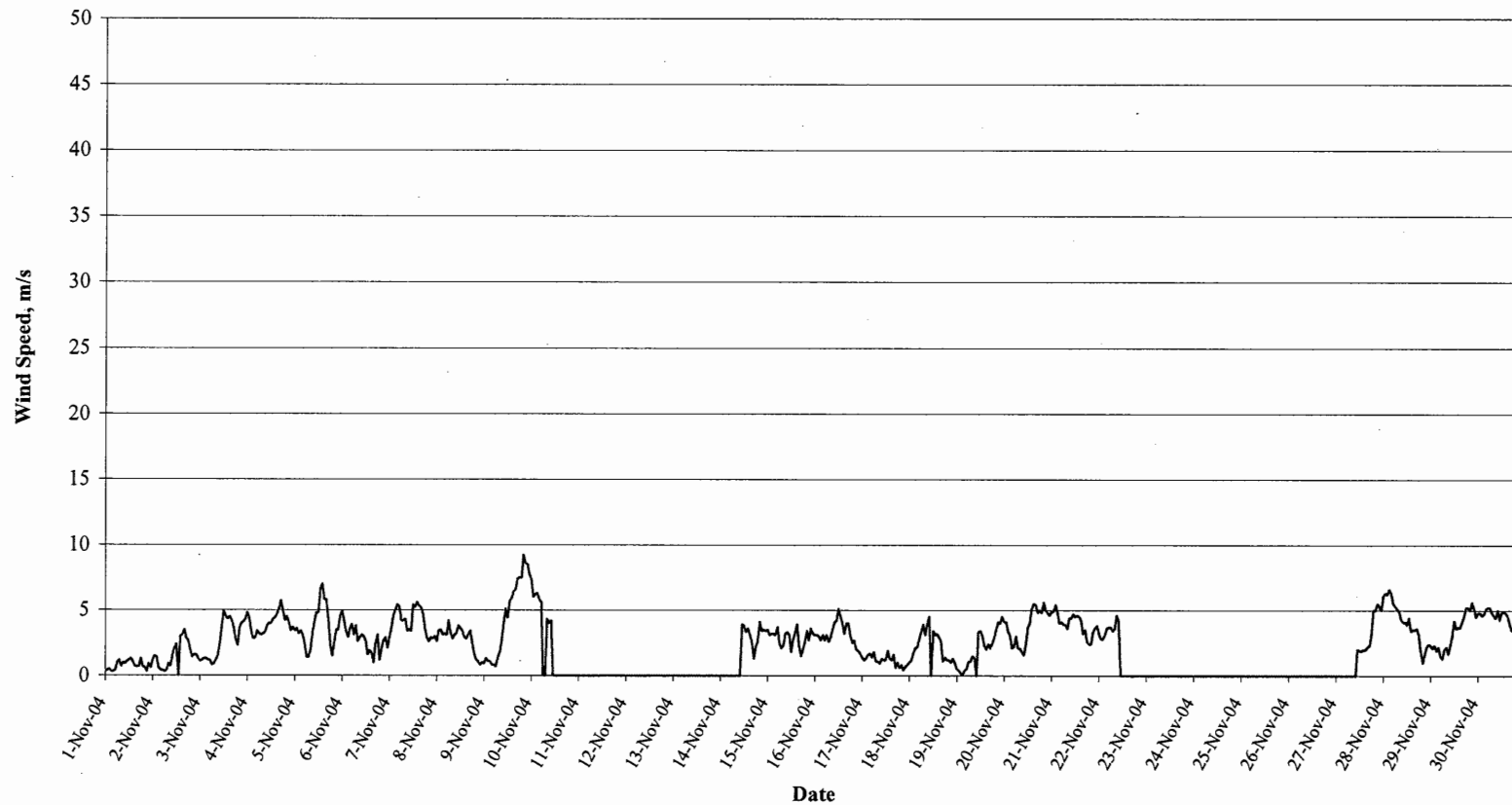


**Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
NOVEMBER 2004**

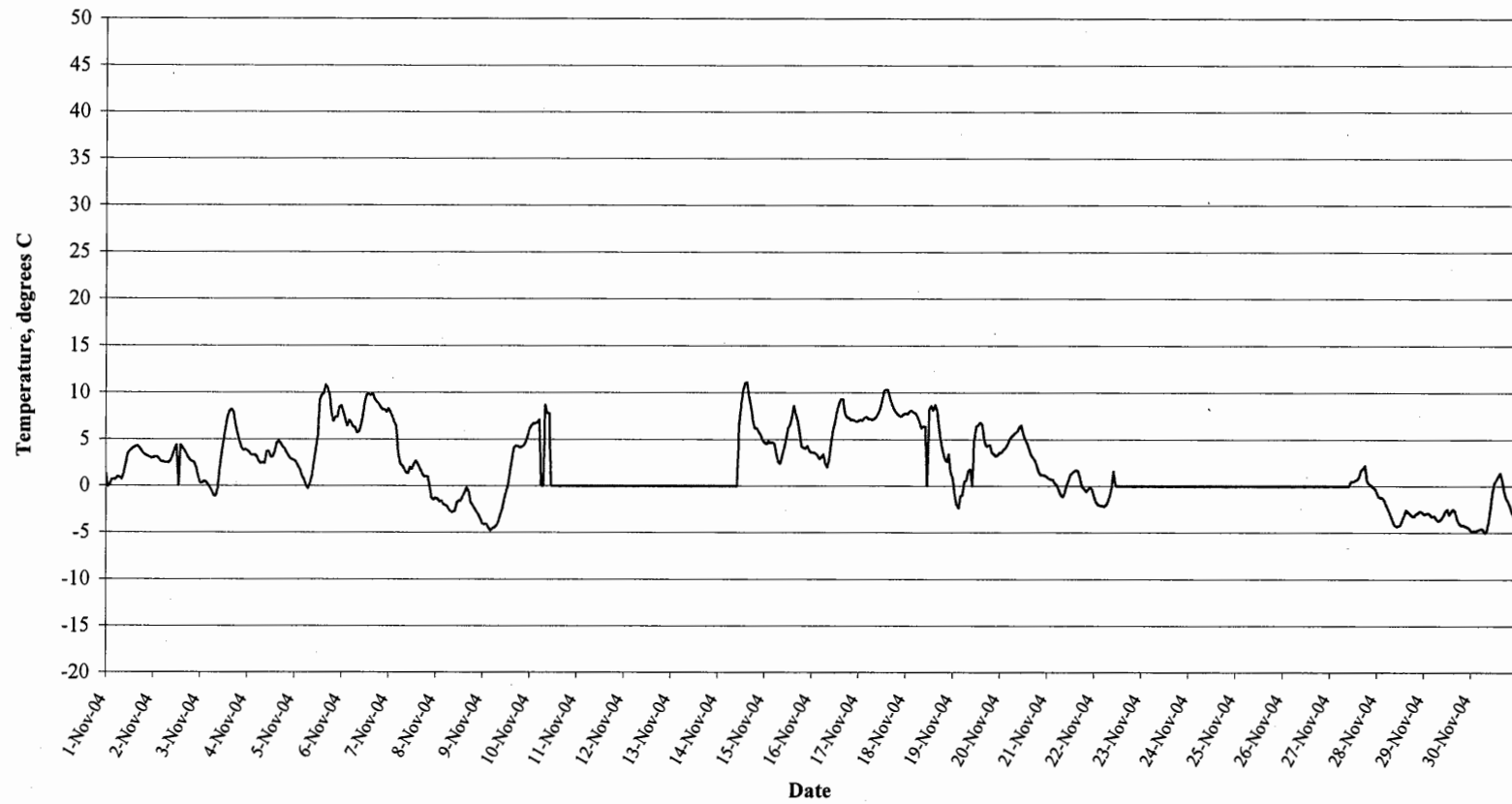


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
NOVEMBER 2004

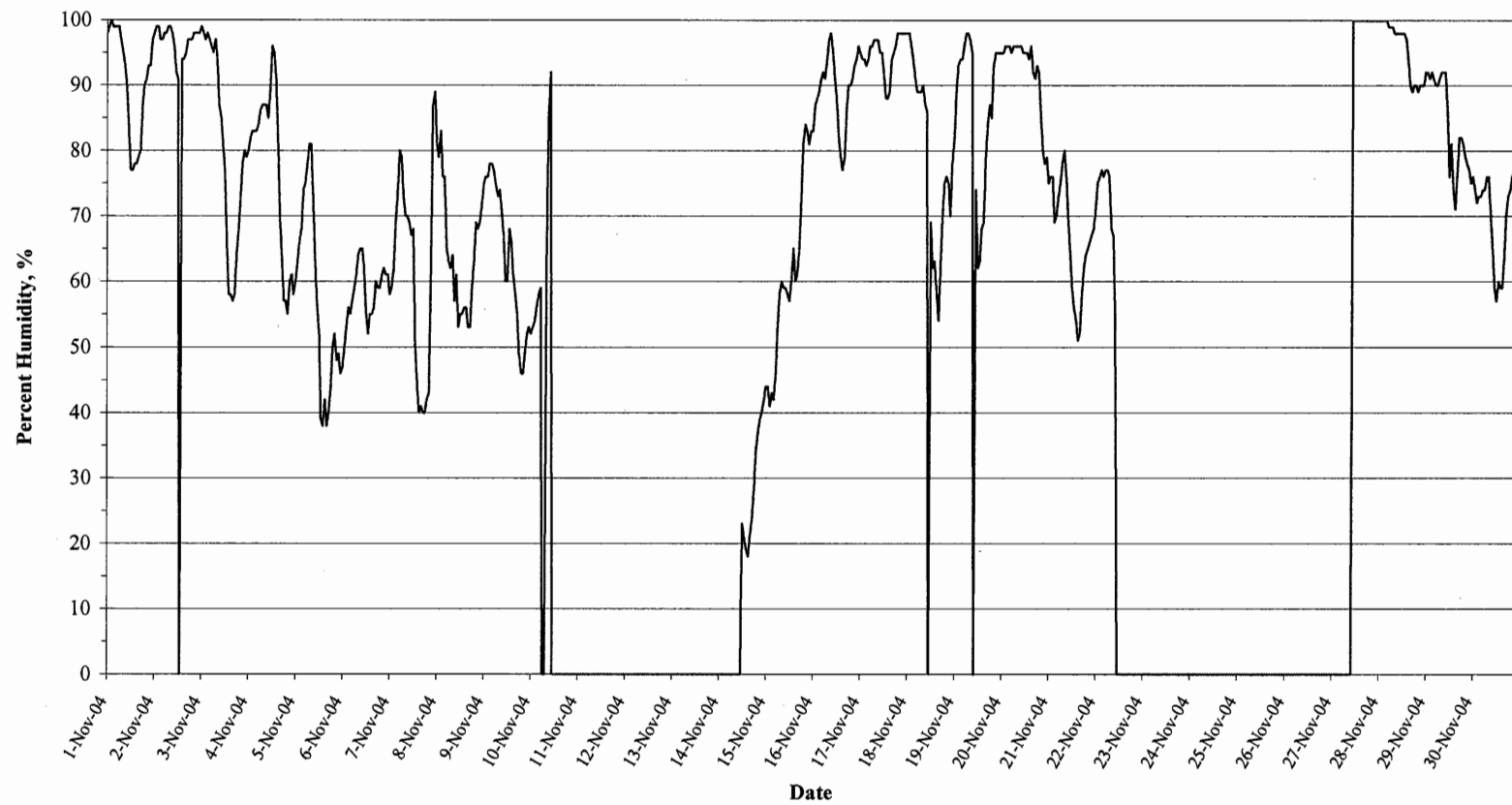


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
NOVEMBER 2004

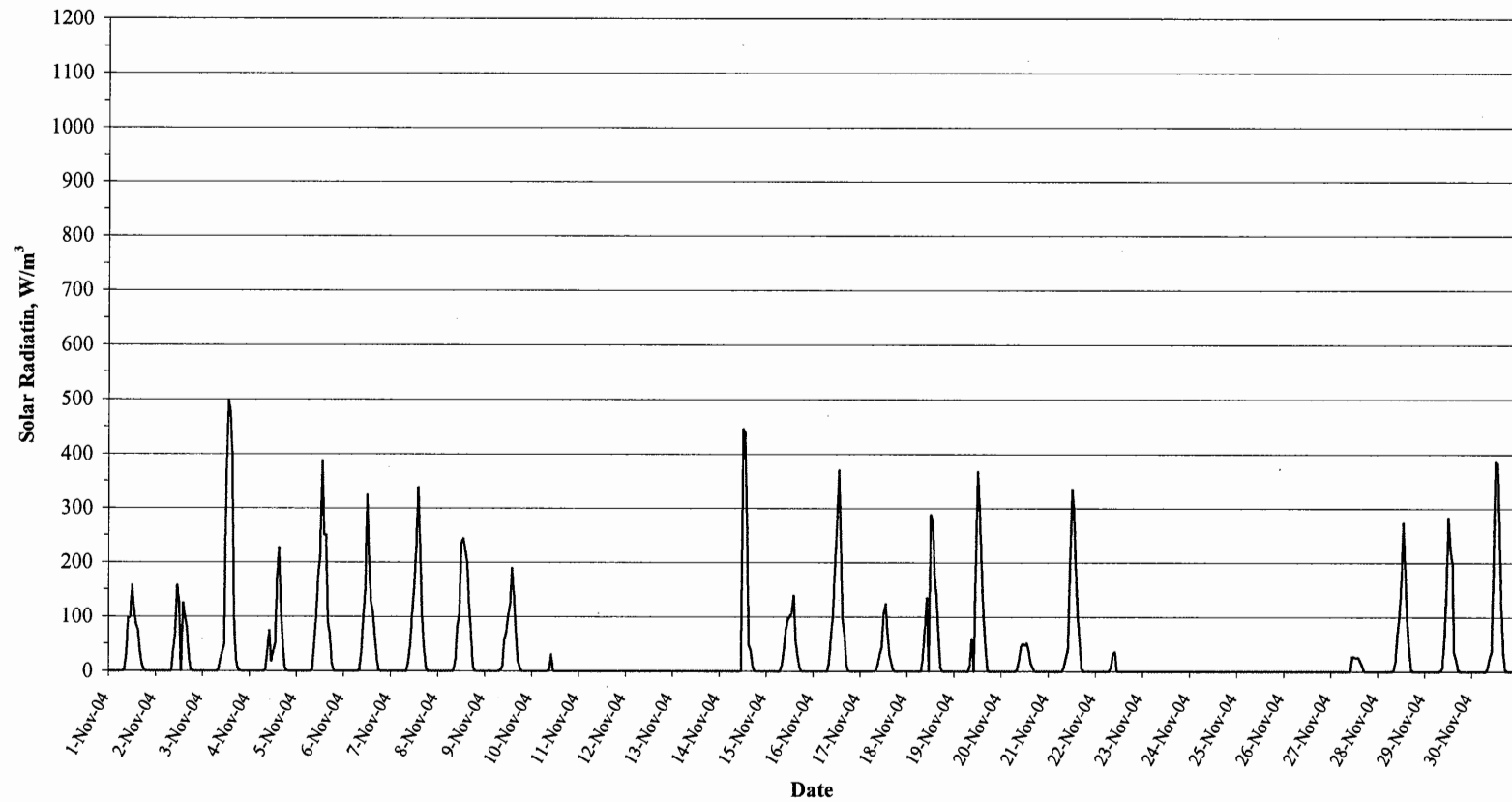
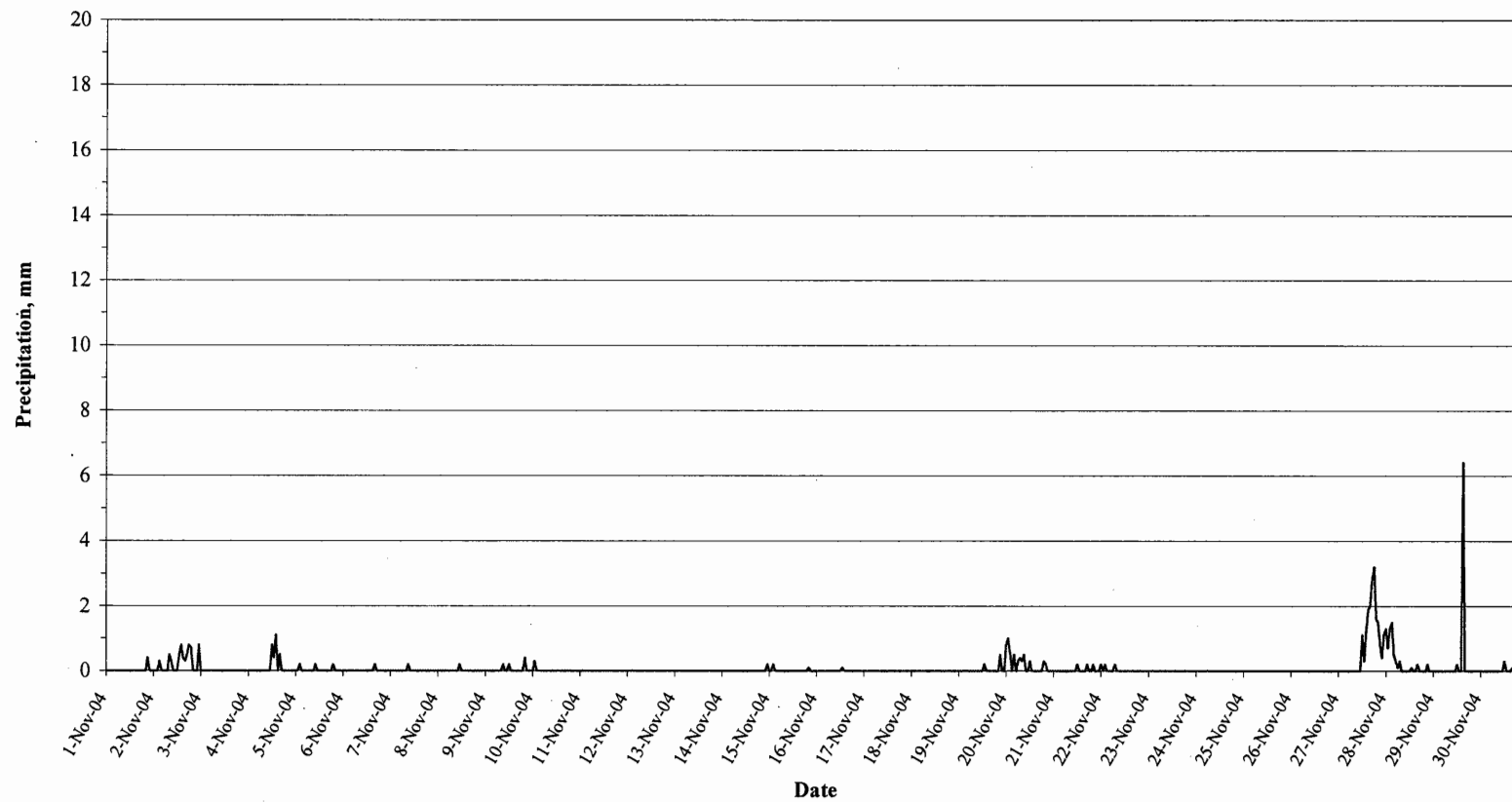


Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
NOVEMBER 2004



Appendix G

December 2004 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
December 2004**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	29	µg/m ³	28-Dec-04
Second Maximum 24-Hour (Daily) Concentration ² :	22	µg/m ³	30-Dec-04
Monthly Data Collection Efficiency:	93.5	%	
Monthly Arithmetic Average:	10	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - December 2004)	13	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SSW
Average Wind Direction Horizontal Deviation:	19 degrees
Average Wind Speed:	3.6 m/s
Average Temperature:	-6.8 °C
Average Relative Humidity:	87 %
Average Solar Radiation:	27 W/m ²
Total Rain Fall:	49.5 mm
Monthly Data Collection Efficiency:	94.9 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	19.5 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	26.8 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

**Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**PM₁₀ (µg/m³)
(One Hour Averages)**

December 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	8	11	7	3	4	9	4	7	10	9	10	12	NA	12	13
2	15	11	6	6	8	10	10	10	9	6	9	11	5	1	0	1	3	6	11	10	0	0	10	7	7	15	24
3	8	9	8	12	12	8	13	20	12	8	3	1	3	4	1	1	2	3	3	7	9	7	10	17	8	20	24
4	13	17	16	21	15	14	13	11	8	4	1	1	2	1	4	9	9	11	13	10	9	11	12	9	10	21	24
5	1	2	7	10	10	8	8	6	6	9	9	5	0	0	0	0	0	3	7	9	10	8	5	3	5	10	24
6	1	1	2	0	0	2	7	6	4	7	7	6	3	3	4	7	4	2	4	4	1	1	0	0	3	7	24
7	2	8	9	9	13	10	1	0	0	2	2	0	1	0	1	3	1	3	5	5	2	4	10	8	4	13	24
8	8	9	4	4	7	7	5	3	7	8	6	7	10	9	3	2	2	5	11	13	13	12	13	25	8	25	24
9	19	21	24	23	30	24	32	26	23	27	29	19	8	10	10	11	13	14	23	24	21	17	13	18	20	32	24
10	17	19	15	15	16	9	11	12	8	7	8	7	4	1	0	0	2	4	4	3	6	4	0	6	7	19	24
11	3	0	1	0	1	3	3	5	6	2	2	5	3	0	0	5	8	9	7	10	13	7	3	5	4	13	24
12	7	11	8	0	1	2	3	4	3	8	12	10	3	2	1	1	10	7	6	9	7	4	6	8	6	12	24
13	18	16	19	16	9	3	6	11	12	9	10	11	7	7	8	8	10	8	10	9	6	6	0	3	9	19	24
14	5	3	3	5	9	6	2	1	1	3	1	0	0	2	6	6	6	3	3	10	9	2	3	7	4	10	24
15	9	7	6	7	11	12	11	11	9	8	9	9	9	8	7	8	9	12	19	15	22	22	18	20	12	22	24
16	25	18	18	21	13	12	21	7	7	6	9	12	36	17	29	16	16	22	17	16	16	21	16	0	16	36	24
17	0	8	7	7	8	8	6	8	8	7	10	13	8	3	6	6	8	9	7	8	7	7	10	11	7	13	24
18	10	12	14	21	24	23	20	24	16	8	11	13	19	12	15	15	22	22	18	21	17	17	16	18	17	24	24
19	19	14	13	8	5	9	11	8	2	0	4	6	5	0	1	3	2	3	8	18	16	12	10	9	8	19	24
20	2	0	4	7	6	7	19	12	9	12	12	7	8	8	7	5	3	7	9	14	13	12	14	14	9	19	24
21	19	11	21	21	10	23	18	20	31	17	22	20	21	21	16	26	13	11	8	9	12	9	9	8	17	31	24
22	5	5	8	8	6	9	14	12	12	15	12	7	2	0	1	5	7	5	6	11	19	9	8	8	8	19	24
23	9	12	9	7	8	3	2	3	8	7	2	1	2	5	6	8	11	11	12	14	9	5	9	13	7	14	24
24	10	11	8	6	11	12	13	13	10	7	4	1	0	1	5	6	5	7	10	23	22	22	N/A	5	9	23	23
25	1	N/A	8	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	10	3
26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LF	0	0	0	0	0	22	13	14	18	13	NA	22	10
27	12	8	8	5	5	N/A	3	3	3	9	7	7	11	6	2	2	6	10	10	10	11	11	9	10	7	12	23
28	12	14	26	32	29	31	40	34	27	33	34	43	34	34	37	33	38	37	32	23	27	22	11	18	29	43	24
29	20	16	14	11	8	6	6	8	8	7	6	6	4	3	7	10	9	12	14	13	20	14	18	17	11	20	24
30	16	19	20	20	24	32	29	32	28	35	36	41	43	35	33	16	8	8	11	14	12	8	3	1	22	43	24
31	1	17	23	19	22	20	15	11	6	9	11	16	10	10	9	10	11	12	18	19	12	14	14	14	13	23	24
Hour Avg.:	10	11	11	11	11	12	12	12	10	10	10	10	9	7	7	7	8	9	10	13	12	10	10	10			
Hour Max.:	25	21	26	32	30	32	40	34	31	35	36	43	43	35	37	33	38	37	32	24	27	22	18	25			
Readings	29	28	29	29	28	27	28	28	28	28	28	29	29	29	30	30	30	30	30	30	30	30	29	30			
Monthly Avg.:	10.2 µg/m³		Standard Deviation:		8.0		Data Capture:		93.5 %												Total Valid Hours =		696				
System Codes:	NA - Not Available =		0		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		LF - Power Fail =		1																
	MISS - Data Not Collected =		0		PF - Low Flow =		0																				

December 2004

Total Valid Hours = 706

	Hours
ACAL - Auto Cal =	0
INOP - InOperative =	0
PF - Power Fail =	0

WIND DIRECTION HORIZONTAL DEVIATION (One Hour Averages)

December 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Total Readings
DAY																										
1	12	13	11	14	10	8	9	12	13	16	16	NA	18	25	21	20	21	21	22	24	22	21	22	24	17	23
2	17	18	18	19	17	17	20	19	14	13	14	24	19	24	25	19	25	16	13	14	15	13	19	21	18	24
3	24	13	16	11	16	26	42	19	14	12	14	15	15	19	NA	20	19	20	20	18	18	18	17	20	19	23
4	17	18	21	26	28	21	20	20	21	25	24	25	30	19	18	22	21	20	18	16	21	17	20	19	21	24
5	21	21	18	19	23	23	22	35	29	16	26	32	34	69	54	75	19	23	38	17	24	14	12	16	28	24
6	13	16	15	17	16	16	17	14	16	17	15	14	14	14	15	13	13	12	13	13	12	14	18	15	15	24
7	14	13	14	17	13	15	18	18	19	23	46	19	17	14	15	15	14	19	22	24	25	23	22	24	19	24
8	24	25	26	22	19	22	19	17	18	15	18	23	17	15	14	15	15	26	23	24	21	18	17	13	19	24
9	25	21	13	13	19	15	13	10	16	9	12	16	31	32	17	32	34	29	35	24	27	22	21	26	21	24
10	26	26	27	27	24	25	17	17	17	15	17	NA	16	17	17	14	13	13	12	13	14	12	12	12	18	23
11	13	14	13	13	14	14	17	14	14	14	13	16	23	24	23	23	15	17	15	13	18	12	18	21	16	24
12	11	13	14	14	16	15	15	14	14	26	19	27	21	20	21	21	20	19	18	34	13	14	14	14	18	24
13	13	14	13	13	13	13	14	13	13	13	15	16	17	17	18	18	18	18	19	17	18	18	18	18	16	24
14	19	21	21	22	23	23	22	24	23	21	22	22	22	18	20	17	18	13	14	14	15	15	15	14	19	24
15	16	16	19	18	18	19	20	21	18	17	17	17	17	20	16	21	20	15	17	17	16	14	14	14	17	24
16	15	15	16	17	18	18	19	26	29	21	28	NA	26	26	23	23	22	23	22	21	21	21	17	18	21	23
17	18	18	24	26	25	31	21	14	18	13	13	15	18	15	14	14	14	15	16	17	19	22	18	18	18	24
18	17	16	15	17	17	15	15	18	26	19	14	13	15	15	17	16	16	16	15	15	16	16	16	17	16	24
19	15	14	15	15	14	14	16	16	16	16	17	16	21	26	21	27	16	24	11	18	9	14	11	15	17	24
20	15	15	14	15	16	22	25	27	26	25	23	22	22	21	18	19	17	17	15	15	15	15	16	15	19	24
21	14	15	15	15	11	11	18	24	26	26	20	31	NA	22	19	27	26	26	23	26	21	24	23	22	21	23
22	24	24	24	23	26	24	23	23	25	24	22	24	25	25	25	24	23	22	20	17	17	21	22	17	23	24
23	14	15	21	21	20	15	16	14	15	15	18	22	21	22	23	22	22	23	22	17	17	19	13	13	18	24
24	14	13	13	12	17	17	12	11	13	12	15	17	16	16	17	16	16	14	18	11	14	14	24	24	15	24
25	15	19	9	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	34	23	29	21	55	28	12	17	26	12	NA	11
27	11	13	11	10	12	12	15	15	16	17	15	15	15	15	16	15	14	13	12	12	15	12	11	10	13	24
28	13	15	17	16	16	18	17	15	15	17	17	17	17	18	18	19	17	17	17	16	16	18	20	21	17	24
29	23	23	25	23	23	23	24	34	59	33	28	28	15	22	27	22	25	23	22	11	15	11	11	12	23	24
30	16	12	9	13	25	47	38	55	44	11	14	19	18	19	16	18	17	17	22	25	27	25	16	19	23	24
31	16	16	17	19	15	17	23	20	23	20	21	22	21	19	21	22	21	21	20	29	19	21	21	19	20	24
Hour Avg.:	16.8	16.8	16.8	17.1	18.1	19.2	19.6	20.0	21.0	18.0	19.1	20.3	20.0	23.2	20.8	21.7	19.3	19.1	20.3	18.7	17.7	17.2	17.5	17.4		

Readings	30	30	30	30	29	29	29	29	29	29	29	26	28	30	29	30	30	30	30	30	30	30	30	30	30	30	30		
Monthly Avg.:	19 °	Standard Deviation:		6.9	Data Capture:		94.9 %																		Total Valid Hours =	706			
					Hours																	Hours					Hours		
System Codes:	NA	- Not Available =		38	AUD		- Audit =		0																	ACAL	- Auto Cal =		0
	RNG	- Range =		0	M&R		- Maintenance & Repair =		0																	INOP	- InOperative =		0
	Cal	- Calibration =		0	MCAL		- Manual Calibration =		0																	PF	- Power Fail =		0
	MISS	- Data Not Collected =		0																									

KMC EAGLE STATION
WIND SPEED - m/s
(One Hour Averages)

December 2004

December 2007																														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
DAY																														
1	1.8	1.5	1.8	1.8	1.8	1.8	1.9	1.8	2.2	2.2	2.9	NA	3.1	2.2	2.9	3.1	2.7	2.6	2.2	1.9	2.9	3.3	2.6	2.1	2.3	3.3	23			
2	2.2	1.8	1.7	2.4	1.9	1.8	1.4	1.8	1.7	1.9	1.6	1.2	1.4	1.3	1.2	1.5	2.9	4.1	4.3	3.7	3.5	4.0	2.7	2.3	2.3	4.3	24			
3	1.7	1.8	1.5	1.6	1.3	1.3	0.9	1.5	2.1	3.6	4.3	5.7	5.6	7.2	NA	7.8	7.2	7.9	7.7	7.8	7.7	6.8	6.7	6.2	4.6	7.9	23			
4	6.0	6.4	6.9	7.9	7.9	6.5	6.0	6.1	6.7	7.1	6.7	5.6	4.6	4.8	4.7	4.3	4.0	4.0	4.7	4.0	4.0	3.7	3.0	2.9	5.4	7.9	24			
5	2.1	2.3	2.2	2.0	1.5	1.9	1.7	1.1	0.8	1.2	1.5	1.7	1.3	0.8	0.4	0.8	1.3	0.8	1.0	1.5	1.4	1.4	1.6	1.8	1.4	2.3	24			
6	2.1	2.2	3.0	2.9	3.0	3.1	3.1	3.8	3.5	4.2	5.0	5.0	5.7	4.8	3.6	3.4	4.1	4.4	4.2	3.6	3.5	3.6	2.1	2.4	3.6	5.7	24			
7	3.2	3.2	3.1	2.2	2.2	2.2	2.2	2.1	1.9	1.2	1.0	1.1	1.0	1.5	1.8	2.3	2.9	2.4	2.0	1.8	2.0	2.0	1.8	2.6	2.1	3.2	24			
8	3.2	2.8	2.7	3.1	3.3	3.0	2.7	2.5	2.5	2.6	2.5	3.0	2.9	3.0	3.4	3.3	4.5	5.4	4.2	2.4	2.2	3.3	3.6	3.5	3.2	5.4	24			
9	2.4	1.7	2.4	1.9	1.6	2.1	2.0	1.8	1.5	1.5	1.6	2.6	2.7	1.0	1.7	1.5	1.3	0.9	1.0	1.1	2.0	2.5	2.8	1.8	1.8	2.8	24			
10	2.3	2.8	2.8	2.6	3.0	2.8	4.6	4.0	4.4	4.4	4.2	NA	4.2	3.8	3.8	3.7	3.7	4.1	4.2	4.0	3.6	4.3	3.7	3.5	3.7	4.6	23			
11	4.0	4.6	4.5	4.6	4.5	4.9	4.0	4.5	3.7	3.7	3.4	3.6	2.7	2.6	2.3	1.7	0.9	0.9	0.9	1.0	1.2	1.9	2.0	3.1	3.0	4.9	24			
12	4.8	4.8	5.7	6.2	5.8	5.2	5.8	5.6	5.1	3.7	2.9	3.9	5.6	5.9	7.0	6.3	6.5	6.4	4.6	5.1	8.1	7.9	7.6	8.2	5.8	8.2	24			
13	8.7	7.9	7.9	7.3	7.2	7.2	7.2	6.7	5.8	5.9	6.4	5.7	6.0	5.2	5.1	4.4	4.4	4.6	4.8	4.1	4.3	4.1	4.2	3.7	5.8	8.7	24			
14	2.3	3.1	3.0	2.5	2.4	2.6	3.1	3.2	2.8	2.1	2.8	4.0	4.1	4.2	4.0	3.6	2.5	2.3	2.9	3.2	3.4	3.1	3.5	3.0	3.1	4.2	24			
15	3.9	4.7	5.5	5.8	5.7	5.9	5.8	6.6	5.7	5.7	5.5	5.5	4.7	4.1	3.8	2.5	3.1	3.7	4.9	4.5	5.2	4.8	4.6	4.0	4.8	6.6	24			
16	3.7	3.8	4.0	3.3	4.7	4.2	4.8	4.9	3.9	5.7	5.7	NA	4.3	4.8	5.2	4.9	4.0	4.2	4.6	4.9	4.0	3.9	3.8	3.2	4.4	5.7	23			
17	2.4	2.5	2.3	1.6	1.4	1.3	0.8	1.2	1.1	2.1	3.0	4.0	5.2	5.4	5.9	5.5	6.1	6.4	6.7	7.3	7.6	7.8	6.8	6.7	4.2	7.8	24			
18	5.7	5.9	5.7	5.0	4.1	3.6	3.1	3.1	2.8	5.0	6.5	6.8	6.8	5.7	5.2	5.6	5.7	6.1	6.8	6.9	5.7	6.7	6.4	5.8	5.4	6.9	24			
19	6.9	6.2	5.9	5.4	5.4	4.5	4.1	4.7	4.1	3.9	3.4	3.5	2.7	2.5	2.7	2.4	2.7	1.7	1.3	1.5	1.7	2.1	3.2	3.4	3.6	6.9	24			
20	5.0	5.6	7.1	7.0	7.9	9.2	11.5	11.5	11.1	10.5	9.9	9.3	8.5	7.4	7.6	6.4	6.3	5.1	4.8	4.2	4.5	4.6	4.4	3.8	7.2	11.5	24			
21	3.5	2.7	2.2	1.7	1.5	1.1	1.6	1.6	1.8	1.9	1.8	2.1	NA	2.8	3.5	3.9	3.1	2.6	3.0	2.3	2.5	2.5	2.3	2.5	2.4	3.9	23			
22	2.6	2.7	2.6	3.5	2.9	2.7	2.6	2.8	2.5	2.7	2.6	3.1	3.1	3.3	2.8	3.0	2.9	1.7	1.4	1.5	1.6	1.7	1.6	1.5	2.5	3.5	24			
23	1.5	1.4	1.7	1.6	2.2	2.6	2.6	3.7	3.9	3.6	3.4	3.1	3.0	2.9	2.8	2.9	2.6	2.7	2.3	2.6	2.4	1.6	1.5	2.4	2.5	3.9	24			
24	3.3	3.4	2.9	2.7	2.7	3.8	2.5	2.1	1.9	2.1	2.8	3.5	3.9	3.7	3.0	2.6	2.1	1.3	1.4	1.6	1.4	2.4	2.2	0.8	2.5	3.9	24			
25	1.6	1.8	1.7	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	4			
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	1.5	1.8	1.1	0.1	0.1	0.2	0.3	0.3	0.9	NA	1.8	11			
27	1.2	1.9	2.2	2.2	2.7	2.8	2.8	2.6	2.7	2.4	3.3	4.4	4.5	3.4	4.4	4.2	3.5	3.4	3.4	3.4	3.6	4.9	5.9	5.4	3.4	5.9	24			
28	5.2	5.3	4.0	4.0	3.4	3.0	2.8	2.5	2.5	2.6	3.0	3.1	3.9	4.1	4.8	4.1	3.8	3.7	4.5	4.1	3.9	3.5	3.2	2.7	3.7	5.3	24			
29	2.2	1.6	1.8	2.5	1.8	1.8	1.4	0.9	0.6	0.4	0.6	1.5	2.6	2.8	2.5	1.9	2.2	1.9	2.0	2.4	2.9	3.3	3.5	2.9	2.0	3.5	24			
30	2.2	2.5	2.2	1.5	0.9	1.8	1.7	1.4	1.1	4.7	3.7	3.8	5.3	6.1	6.0	5.4	6.8	7.7	8.7	9.0	10.0	9.8	8.5	7.3	4.9	10.0	24			
31	6.9	6.7	6.7	7.1	6.0	6.8	6.8	6.5	7.4	6.7	6.1	6.5	6.5	5.9	6.1	6.5	7.3	7.1	6.0	3.7	4.3	3.5	3.2	3.0	6.0	7.4	24			
Hour Avg.:	3.5	3.5	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.6	3.7	4.0	4.1	3.8	3.8	3.7	3.7	3.7	3.7	3.5	3.7	3.8	3.6	3.4						
Hour Max.:	8.7	7.9	7.9	7.9	7.9	9.2	11.5	11.5	11.1	10.5	9.9	9.3	8.5	7.4	7.6	7.8	7.3	7.9	8.7	9.0	10.0	9.8	8.5	8.2						
Readings	30	30	30	30	29	29	29	29	29	29	29	26	28	30	29	30	30	30	30	30	30	30	30	30						
Monthly Avg.:	3.6 m/s		Standard Deviation:				2.0		Data Capture:				94.9 %														Total Valid Hours =		706	
		Hours						Hours						Hours																
System Codes:	NA	- Not Available =						38	AUD	- Audit =						0	ACAL	- Auto Cal =						0						
	RNG	- Range =						0	M&R	- Maintenance & Repair =						0	INOP	- InOperative =						0						
	Cal	- Calibration =						0	MCAL	- Manual Calibration =						0	PF	- Power Fail =						0						
	MISS	- Data Not Collected =						0																						

**Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)**

December 2004

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY																												
1	-4.2	-4.8	-4.9	-5.2	-5.3	-5.0	-4.6	-4.8	-4.3	-3.0	-2.2	NA	-1.9	-1.9	-2.3	-3.2	-3.8	-4.6	-4.9	-5.4	-5.4	-6.1	-6.6	-6.8	-4.4	-1.9	23	
2	-7.0	-7.3	-7.4	-7.1	-7.0	-6.9	-7.1	-7.3	-7.6	-7.7	-7.5	-7.2	-6.6	-6.6	-6.1	-6.1	-6.1	-6.3	-6.5	-6.9	-7.3	-7.9	-8.7	-9.2	-7.1	-6.1	24	
3	-9.6	-10.5	-11.3	-12.1	-12.9	-13.5	-14.4	-14.7	-13.3	-11.4	-10.0	-9.1	-8.3	-6.2	NA	-4.7	-4.5	-5.1	-5.5	-5.2	-4.5	-3.9	-2.9	-2.1	-8.5	-2.1	23	
4	-1.9	-1.3	-0.3	0.7	1.9	1.5	1.5	2.5	3.1	3.4	3.5	3.2	3.3	1.8	0.6	0.1	-0.8	-1.5	-2.0	-2.7	-3.5	-4.5	-5.2	-6.2	-0.1	3.5	24	
5	-7.3	-8.4	-9.3	-9.8	-10.3	-10.5	-10.8	-11.5	-12.1	-11.6	-9.7	-8.7	-8.1	-7.1	-6.1	-5.5	-6.8	-8.3	-8.9	-9.1	-9.3	-9.0	-8.7	-7.9	-8.9	-5.5	24	
6	-7.0	-6.6	-6.0	-5.5	-5.1	-4.8	-4.3	-3.7	-3.7	-3.2	-2.7	-2.3	-1.9	-1.7	-1.6	-1.5	-1.3	-1.1	-1.0	-0.9	-0.7	-0.6	-1.1	-0.8	-2.9	-0.6	24	
7	-0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.4	0.5	0.7	0.7	0.6	0.6	0.7	0.8	0.7	0.6	0.3	0.8	24	
8	0.6	0.4	0.1	0.0	-0.4	-0.9	-1.1	-1.2	-1.4	-1.6	-1.8	-1.8	-1.2	-0.5	0.5	1.3	1.0	0.4	0.3	0.0	0.1	0.3	0.7	0.9	-0.2	1.3	24	
9	1.2	1.1	1.0	0.6	0.0	-0.5	-0.4	-0.7	-1.4	-1.4	-0.9	0.0	0.7	1.6	1.9	1.8	1.6	1.1	1.0	1.2	2.1	2.0	1.9	2.1	0.7	2.1	24	
10	2.4	2.5	2.1	1.8	1.6	1.4	0.8	0.4	0.3	0.1	-0.1	NA	-0.6	-0.7	-0.8	-1.1	-1.2	-1.3	-1.3	-1.3	-1.2	-1.2	-1.4	-1.7	0.0	2.5	23	
11	-1.8	-2.0	-2.5	-2.8	-3.2	-3.8	-4.3	-4.4	-4.6	-4.7	-4.6	-4.6	-4.7	-4.6	-5.0	-5.0	-5.2	-5.6	-6.1	-6.5	-6.4	-6.1	-5.9	-5.6	-4.6	-1.8	24	
12	-5.4	-5.1	-4.8	-4.6	-4.2	-3.6	-3.5	-3.2	-3.1	-2.8	-2.2	-0.8	-1.0	-1.4	-1.7	-2.0	-2.5	-2.6	-2.3	-1.1	-1.5	-2.7	-4.2	-4.7	-3.0	-0.8	24	
13	-5.2	-5.8	-6.4	-6.9	-6.8	-7.0	-7.1	-7.5	-7.6	-7.4	-7.4	-7.7	-8.0	-8.3	-8.8	-9.2	-9.6	-10.0	-9.9	-10.0	-9.9	-9.8	-9.8	-10.0	-8.2	-5.2	24	
14	-10.0	-9.9	-10.1	-9.8	-10.0	-9.7	-9.0	-8.8	-8.8	-9.0	-8.1	-7.3	-7.2	-7.4	-7.8	-8.2	-7.9	-9.2	-9.9	-10.1	-10.3	-10.2	-10.1	-10.1	-9.1	-7.2	24	
15	-8.9	-8.2	-7.6	-6.7	-6.1	-5.4	-4.9	-4.2	-4.3	-4.1	-3.5	-2.3	-0.4	1.4	1.6	1.7	1.2	-0.3	-0.9	-1.5	-1.9	-2.1	-1.8	-1.5	-2.9	1.7	24	
16	-1.2	-0.5	-0.3	-0.6	-0.1	-0.3	-0.5	-1.0	-2.1	-2.9	-5.0	NA	-6.5	-7.4	-8.6	-9.0	-9.3	-9.5	-9.6	-9.9	-10.2	-10.3	-10.5	-10.7	-5.5	-0.1	23	
17	-10.9	-11.1	-11.2	-11.3	-11.3	-11.4	-11.7	-11.6	-11.8	-12.7	-11.8	-10.4	-9.2	-8.2	-7.8	-7.7	-7.6	-7.5	-7.4	-7.4	-7.2	-7.2	-6.7	-6.0	-9.5	-6.0	24	
18	-5.5	-4.9	-4.5	-4.1	-3.8	-3.5	-3.2	-2.7	-2.2	-2.9	-5.4	-7.5	-9.5	-10.7	-11.5	-12.4	-13.2	-14.2	-15.3	-16.4	-17.0	-17.5	-18.0	-18.2	-9.3	-2.2	24	
19	-18.1	-18.3	-18.6	-19.0	-19.0	-18.8	-18.4	-18.1	-17.8	-17.5	-16.8	-16.0	-15.5	-15.3	-15.3	-15.2	-15.6	-16.2	-17.9	-19.0	-19.4	-18.8	-18.2	-17.5	-17.5	-15.2	24	
20	-17.0	-16.5	-15.9	-15.9	-15.9	-15.3	-15.1	-14.9	-14.1	-13.3	-12.8	-12.1	-11.4	-11.2	-11.1	-11.1	-11.2	-11.4	-11.5	-11.4	-11.2	-11.0	-10.7	-10.4	-13.0	-10.4	24	
21	-10.1	-9.7	-9.3	-9.1	-9.0	-8.8	-8.5	-8.5	-8.3	-8.0	-6.9	-5.5	NA	-3.1	-3.0	-4.4	-5.8	-6.4	-7.0	-7.8	-8.3	-9.0	-9.5	-10.2	-7.7	-3.0	23	
22	-11.0	-11.8	-12.6	-13.4	-13.9	-14.4	-14.7	-15.1	-15.5	-15.7	-15.5	-15.1	-14.8	-14.9	-15.2	-14.5	-15.3	-16.2	-16.5	-16.7	-17.0	-16.7	-16.5	-16.6	-15.0	-11.0	24	
23	-16.6	-16.5	-15.8	-15.2	-13.7	-12.9	-12.8	-12.8	-13.1	-13.1	-13.0	-12.9	-12.8	-12.9	-12.9	-13.3	-14.0	-14.6	-15.3	-15.5	-15.9	-15.9	-16.8	-17.0	-14.4	-12.8	24	
24	-17.8	-18.6	-19.0	-19.3	-20.0	-20.7	-21.6	-22.3	-22.8	-22.8	-21.1	-19.1	-18.4	-18.1	-17.7	-17.4	-17.6	-19.0	-20.5	-21.0	-21.8	-21.9	-22.2	-22.3	-20.1	-17.4	24	
25	-22.2	-22.2	-22.6	-21.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-21.9	4	
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-5.6	-7.1	-7.5	-7.8	-9.7	-12.3	-14.3	-16.4	-17.3	-18.8	-17.1	NA	-5.6	11
27	-13.7	-12.7	-12.9	-12.8	-11.8	-11.8	-11.4	-11.6	-11.1	-10.7	-10.1	-8.6	-7.3	-6.6	-5.7	-6.1	-6.0	-6.4	-6.5	-6.5	-6.4	-6.3	-6.2	-6.1	-9.0	-5.7	24	
28	-6.0	-5.8	-6.0	-6.1	-6.1	-6.0	-6.0	-6.1	-6.1	-5.9	-5.6	-5.0	-4.8	-4.9	-4.8	-4.9	-5.0	-5.0	-5.1	-5.1	-5.0	-4.7	-4.4	-4.3	-5.4	-4.3	24	
29	-4.3	-4.3	-4.2	-4.2	-4.5	-4.7	-4.9	-4.9	-5.0	-4.9	-4.5	-4.2	-4.1	-3.8	-3.7	-3.6	-3.8	-4.0	-4.6	-5.4	-6.0	-6.3	-6.7	-7.0	-4.7	-3.6	24	
30	-7.0	-7.2	-7.5	-8.3	-8.1	-8.1	-8.1	-7.0	-6.9	-5.2	-4.0	-2.6	-1.2	-0.2	0.5	0.9	1.2	1.3	1.6	2.4	2.9	3.3	3.8	4.3	-2.5	4.3	24	
31	5.0	6.1	6.3	6.7	6.3	6.2	6.0	5.4	3.0	1.8	0.9	0.2	-0.2	-0.9	-1.9	-3.2	-4.6	-5.5	-5.9	-6.5	-7.9	-9.0	-9.5	-9.6	-0.5	6.7	24	
Hour Avg.:	-7.4	-7.3	-7.4	-7.4	-6.8	-6.9	-6.9	-6.9	-7.0	-6.8	-6.5	-6.4	-5.8	-5.5	-5.6	-5.7	-6.0	-6.6	-7.0	-7.3	-7.5	-7.7	-7.8	-7.7				
Hour Max.:	5.0	6.1	6.3	6.7	6.3	6.2	6.0	5.4	3.1	3.4	3.5	3.2	3.3	1.8	1.9	1.8	1.6	1.3	1.6	2.4	2.9	3.3	3.8	4.3				
Readings	30	30	30	30	29	29	29	29	29	29	29	26	28	30	29	30	30	30	30	30	30	30	30	30				
Monthly Avg.:	-6.8 °C		Standard Deviation:				6.1		Data Capture:				94.9 %				Total Valid Hours =										706	
System Codes:	NA - Not Available =		38				AUD - Audit =				0				ACAL - Auto Cal =				0									
	RNG - Range =		0				M&R - Maintenance & Repair =				0				INOP - InOperative =				0									
	Cal - Calibration =		0				MCAL - Manual Calibration =				0				PF - Power Fail =				0									
	MISS - Data Not Collected =		0																									
	Hours		38				Hours				0				Hours				0									

Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
 (One Hour Averages)

December 2004																												
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY	1	75	75	74	76	79	82	85	89	90	89	91	NA	94	95	94	92	92	93	95	95	92	84	85	85	87	95	23
	2	89	91	92	91	89	89	89	90	90	91	93	94	94	95	95	96	96	96	96	96	95	95	94	94	93	96	24
	3	93	93	92	92	91	91	90	90	91	92	90	72	67	58	NA	60	65	68	71	74	77	79	80	82	81	93	23
	4	85	87	87	89	86	92	96	94	90	85	82	84	82	84	81	80	83	80	78	78	77	72	68	64	83	96	24
	5	67	70	74	77	79	80	80	83	88	83	76	72	67	61	52	48	61	75	79	81	84	84	85	86	75	88	24
	6	84	80	80	84	85	84	86	91	93	93	91	89	87	89	90	91	93	92	93	94	95	97	99	99	90	99	24
	7	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	24
	8	100	100	100	100	96	92	90	91	88	86	86	85	83	79	75	76	81	84	87	89	92	93	93	89	100	24	
	9	92	92	93	94	97	99	99	99	100	100	100	98	95	92	90	91	93	96	98	99	99	96	94	94	96	100	24
	10	96	93	95	97	97	98	99	100	100	100	100	NA	100	100	100	100	100	100	100	100	100	100	100	100	99	100	23
	11	100	100	99	99	99	98	98	98	98	98	98	98	98	98	97	97	97	97	97	97	97	97	97	97	98	100	24
	12	97	97	98	98	98	98	98	98	98	97	98	97	96	94	94	95	94	97	99	99	98	97	97	97	97	99	24
	13	97	96	96	95	95	93	87	89	89	90	94	91	88	90	90	91	92	90	91	92	91	88	88	85	91	97	24
	14	89	90	89	90	90	91	91	90	90	89	82	78	78	81	83	79	72	75	73	75	76	79	81	82	83	91	24
	15	79	73	72	69	68	68	68	67	68	68	66	63	59	60	63	65	69	70	71	73	74	75	77	69	79	24	
	16	79	77	78	80	80	84	87	87	88	81	70	NA	80	86	82	79	86	89	88	86	80	85	91	89	83	91	23
	17	90	91	90	90	89	87	89	89	88	85	79	75	71	63	60	62	63	63	63	66	68	76	77	79	77	91	24
	18	80	80	81	82	85	89	92	93	94	95	93	92	91	89	88	87	89	87	85	84	85	85	84	85	87	95	24
	19	86	86	85	84	84	85	86	85	86	85	86	86	86	85	84	81	81	81	84	84	84	82	80	75	84	86	24
	20	68	66	65	63	61	68	83	83	83	82	83	81	80	77	76	77	78	78	79	81	83	85	87	87	77	87	24
	21	88	89	90	89	89	89	89	89	89	88	86	83	NA	87	91	95	96	94	92	91	92	91	92	92	90	96	23
	22	92	91	90	89	89	89	89	88	88	87	87	86	83	81	84	80	76	83	87	87	87	87	87	88	86	92	24
	23	88	88	89	89	90	91	91	91	91	91	91	91	91	91	91	90	90	89	89	89	89	89	88	88	90	91	24
	24	87	86	86	85	85	84	83	83	82	82	84	85	85	85	85	86	85	85	84	83	83	82	81	82	84	87	24
	25	80	77	75	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	4
	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97	95	95	95	94	92	90	88	88	86	88	NA	97	11
	27	91	92	91	91	92	91	90	88	87	86	84	78	75	75	74	78	81	84	86	86	85	84	82	80	85	92	24
	28	79	80	83	85	87	88	89	89	90	90	89	87	88	89	90	90	91	92	94	96	97	95	93	92	89	97	24
	29	93	93	92	89	90	89	89	89	90	90	87	85	85	83	82	82	83	85	86	88	90	91	92	92	88	93	24
	30	91	91	92	94	94	93	92	88	91	90	92	92	96	96	96	97	98	99	98	97	96	96	97	96	94	99	24
	31	96	94	93	89	88	81	75	71	67	70	74	74	71	73	73	72	80	81	83	92	91	90	91	90	82	96	24
Hour Avg.:	87.7	87.2	87.3	87.4	88.0	88.4	89.0	89.0	89.3	88.5	87.3	85.4	84.9	84.6	84.7	83.6	85.1	86.4	87.1	87.9	88.1	88.0	88.1	87.9				
Hour Max.:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
Readings	30	30	30	30	29	29	29	29	29	29	29	26	28	30	29	30	30	30	30	30	30	30	30	30				
Monthly Avg.:	87 %		Standard Deviation:		9.2		Data Capture:		94.9 %		Total Valid Hours =		706															
					Hours						Hours										Hours							
System Codes:	NA - Not Available =		38		AUD - Audit =		0		ACAL - Auto Cal =		0																	
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																	
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																	
	MISS - Data Not Collected =		0																									

KMC EAGLE STATION
Solar Radiation (W/m2)
(One Hour Averages)

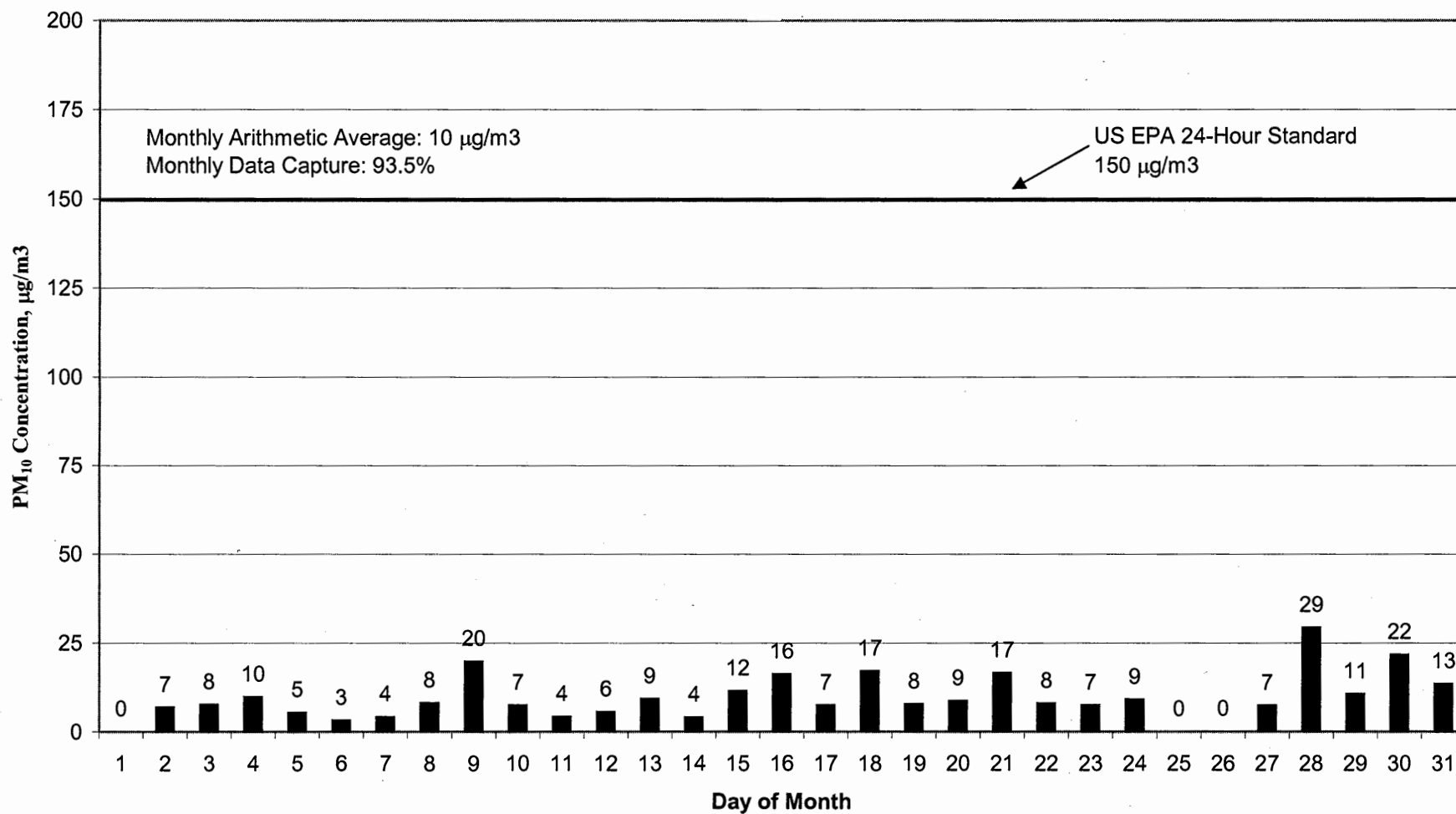
December 2004

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
	0	0	0	0	0	0	0	0	2	10	63	NA	79	58	40	32	18	1	0	0	0	0	0	0	13	79	23
2	0	0	0	0	0	0	0	0	1	17	35	25	48	34	25	18	5	0	0	0	0	0	0	0	9	48	24
3	0	0	0	0	0	0	0	0	6	30	67	118	188	355	NA	128	46	5	0	0	0	0	0	0	41	355	23
4	0	0	0	0	0	0	0	0	2	25	50	106	230	69	44	24	10	0	0	0	0	0	0	0	23	230	24
5	0	0	0	0	0	0	0	0	4	29	71	186	283	292	217	39	25	2	0	0	0	0	0	0	48	292	24
6	0	0	0	0	0	0	0	0	1	19	90	126	111	82	61	23	25	1	0	0	0	0	0	0	22	126	24
7	0	0	0	0	0	0	0	0	0	6	17	31	56	49	37	24	7	0	0	0	0	0	0	0	9	56	24
8	0	0	0	0	0	0	0	0	2	14	71	141	215	184	207	119	32	1	0	0	0	0	0	0	41	215	24
9	0	0	0	0	0	0	0	0	2	33	67	151	125	127	104	57	11	0	0	0	0	0	0	0	28	151	24
10	0	0	0	0	0	0	0	0	0	9	49	NA	66	80	66	28	14	1	0	0	0	0	0	0	14	80	23
11	0	0	0	0	0	0	0	0	0	19	76	160	178	216	125	72	35	2	0	0	0	0	0	0	37	216	24
12	0	0	0	0	0	0	0	0	0	15	48	69	99	122	114	71	18	1	0	0	0	0	0	0	23	122	24
13	0	0	0	0	0	0	0	0	0	28	102	186	185	124	84	52	15	1	0	0	0	0	0	0	32	186	24
14	0	0	0	0	0	0	0	0	1	35	34	153	234	198	156	58	19	2	0	0	0	0	0	0	37	234	24
15	0	0	0	0	0	0	0	0	3	38	82	165	306	402	235	100	22	2	0	0	0	0	0	0	56	402	24
16	0	0	0	0	0	0	0	0	0	25	94	NA	152	112	80	86	30	2	0	0	0	0	0	0	25	152	23
17	0	0	0	0	0	0	0	0	2	22	35	153	359	330	237	94	30	1	0	0	0	0	0	0	53	359	24
18	0	0	0	0	0	0	0	0	0	6	20	66	85	111	103	66	23	1	0	0	0	0	0	0	20	111	24
19	0	0	0	0	0	0	0	0	1	32	85	131	145	163	142	95	47	5	0	0	0	0	0	0	35	163	24
20	0	0	0	0	0	0	0	0	0	9	22	33	56	77	72	49	18	1	0	0	0	0	0	0	14	77	24
21	0	0	0	0	0	0	0	0	1	24	68	117	NA	118	70	25	9	0	0	0	0	0	0	0	19	118	23
22	0	0	0	0	0	0	0	0	1	38	107	180	290	250	136	193	24	3	0	0	0	0	0	0	51	290	24
23	0	0	0	0	0	0	0	0	0	8	38	67	73	73	74	48	20	1	0	0	0	0	0	0	17	74	24
24	0	0	0	0	0	0	0	0	0	10	33	65	163	193	159	30	17	2	0	0	0	0	0	0	28	193	24
25	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	4
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	94	31	11	1	0	0	0	0	0	0	NA	103	11
27	0	0	0	0	0	0	0	0	0	8	19	46	109	110	159	77	32	2	0	0	0	0	0	0	23	159	24
28	0	0	0	0	0	0	0	0	0	14	49	78	90	76	67	39	15	1	0	0	0	0	0	0	18	90	24
29	0	0	0	0	0	0	0	0	1	12	40	77	116	138	123	75	31	2	0	0	0	0	0	0	26	138	24
30	0	0	0	0	0	0	0	0	0	19	65	87	64	48	17	6	9	2	0	0	0	0	0	0	13	87	24
31	0	0	0	0	0	0	0	0	0	7	12	67	124	88	86	58	10	2	0	0	0	0	0	0	19	124	24
Hour Avg.:	0	0	0	0	0	0	0	0	1	19	55	107	151	146	108	61	21	2	0	0	0	0	0	0			
Hour Max.:	0	0	0	0	0	0	0	0	6	38	107	186	359	402	237	193	47	5	0	0	0	0	0	0			
Readings	30	30	30	30	29	29	29	29	29	29	29	26	28	30	29	30	30	30	30	30	30	30	30	30			
Monthly Avg.:	27 W/m2		Standard Deviation:		57.4		Data Capture:		94.9 %															Total Valid Hours =		706	
System Codes:	NA - Not Available =		38		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																
	MISS - Data Not Collected =		0																								

December 2004

System Codes:	NA - Not Available =	498	AUD - Audit =	0	ACAL - Auto Cal =	0
	RNG - Range =	0	M&R - Maintenance & Repair =	0	INOP - InOperative =	0
	Cal - Calibration =	0	MCAL - Manual Calibration =	0	PF - Power Fail =	0
	MISS - Data Not Collected =	0				

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
DECEMBER 2004



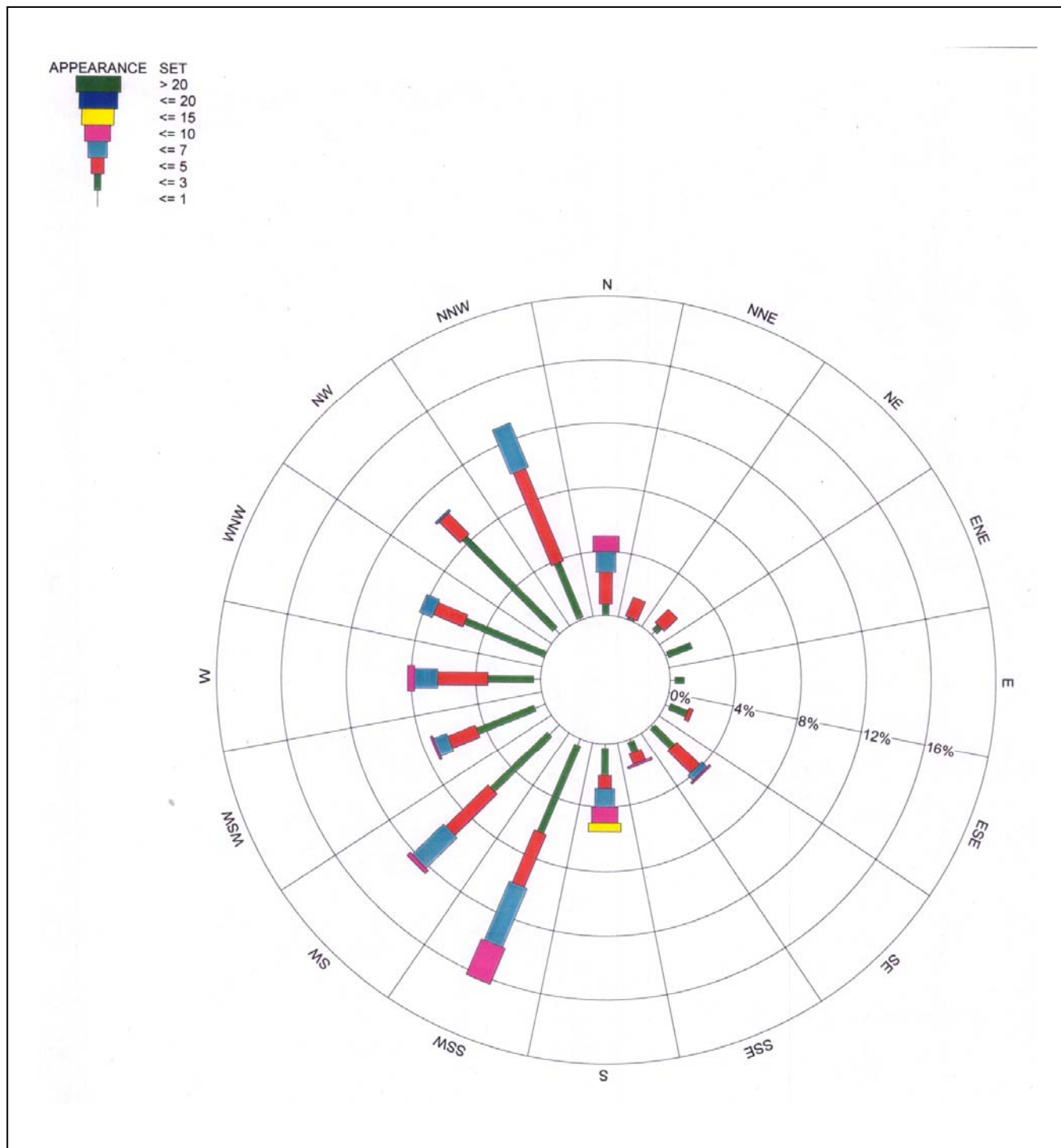


Figure 2

Wind Speed, 1-Hour Average, m/s, KMC Eagle Station

(Discluding Invalid Data) Overall Average: 3.65368

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
DECEMBER 2004**

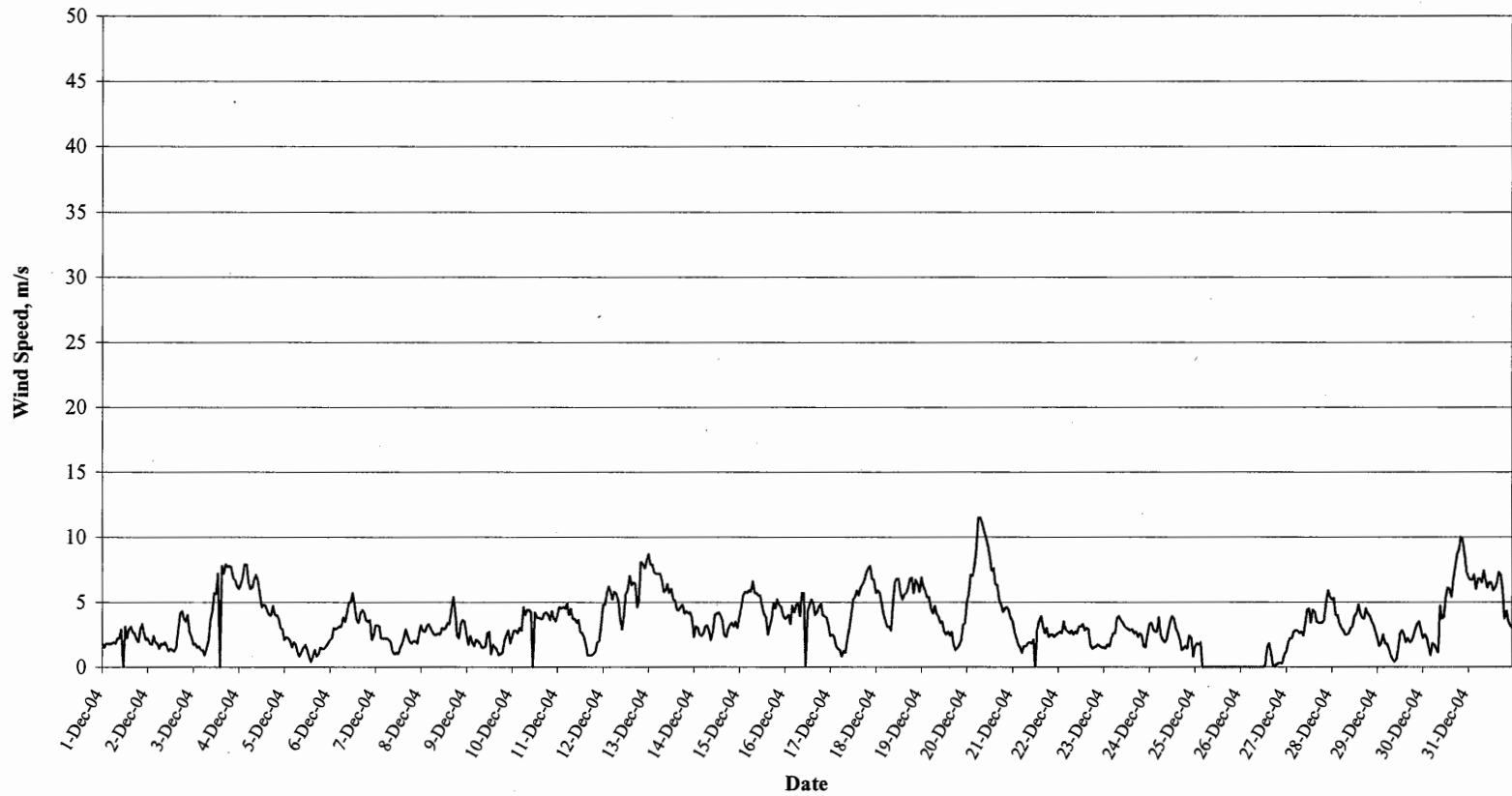


Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
DECEMBER 2004

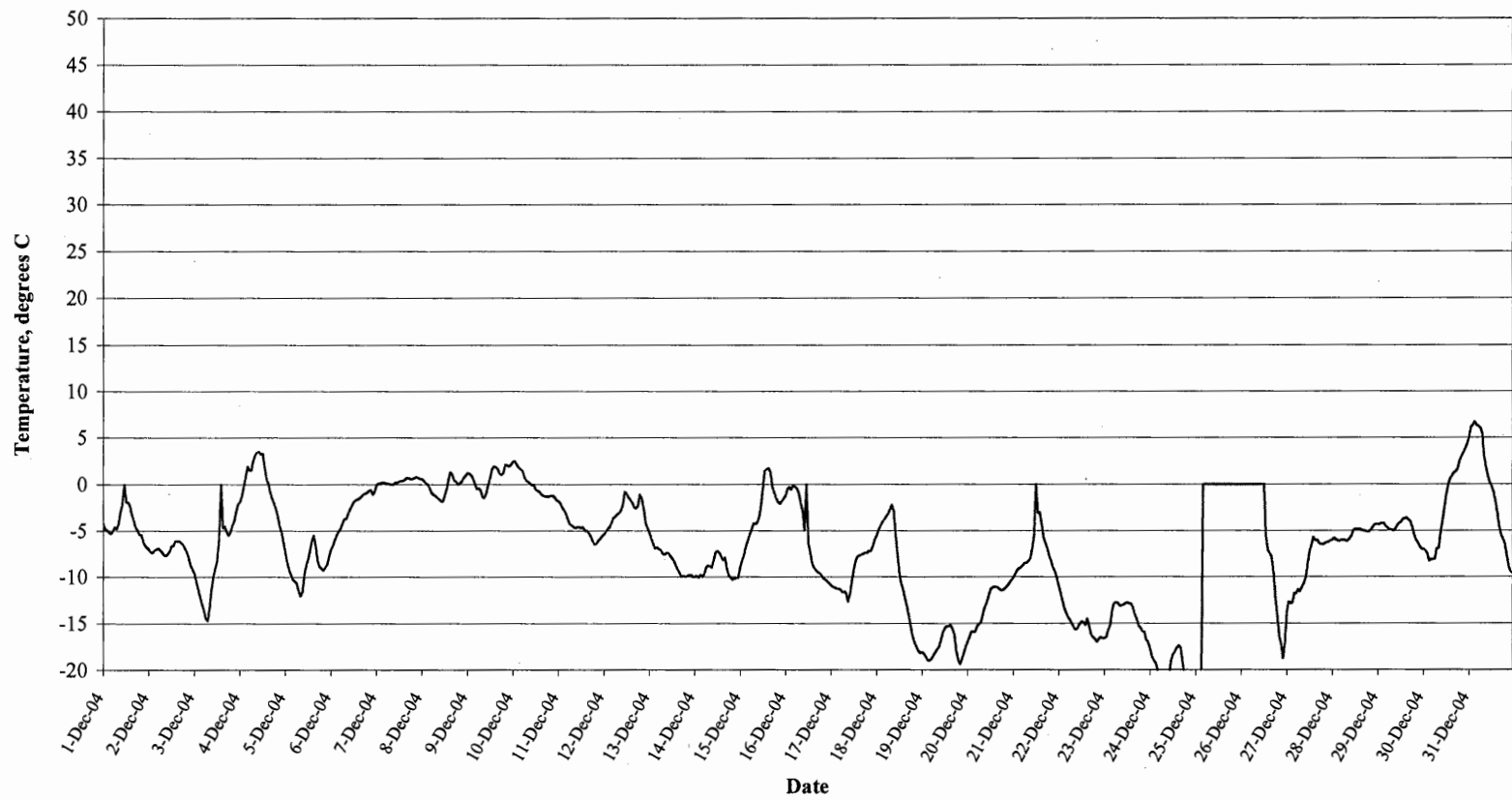


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
DECEMBER 2004

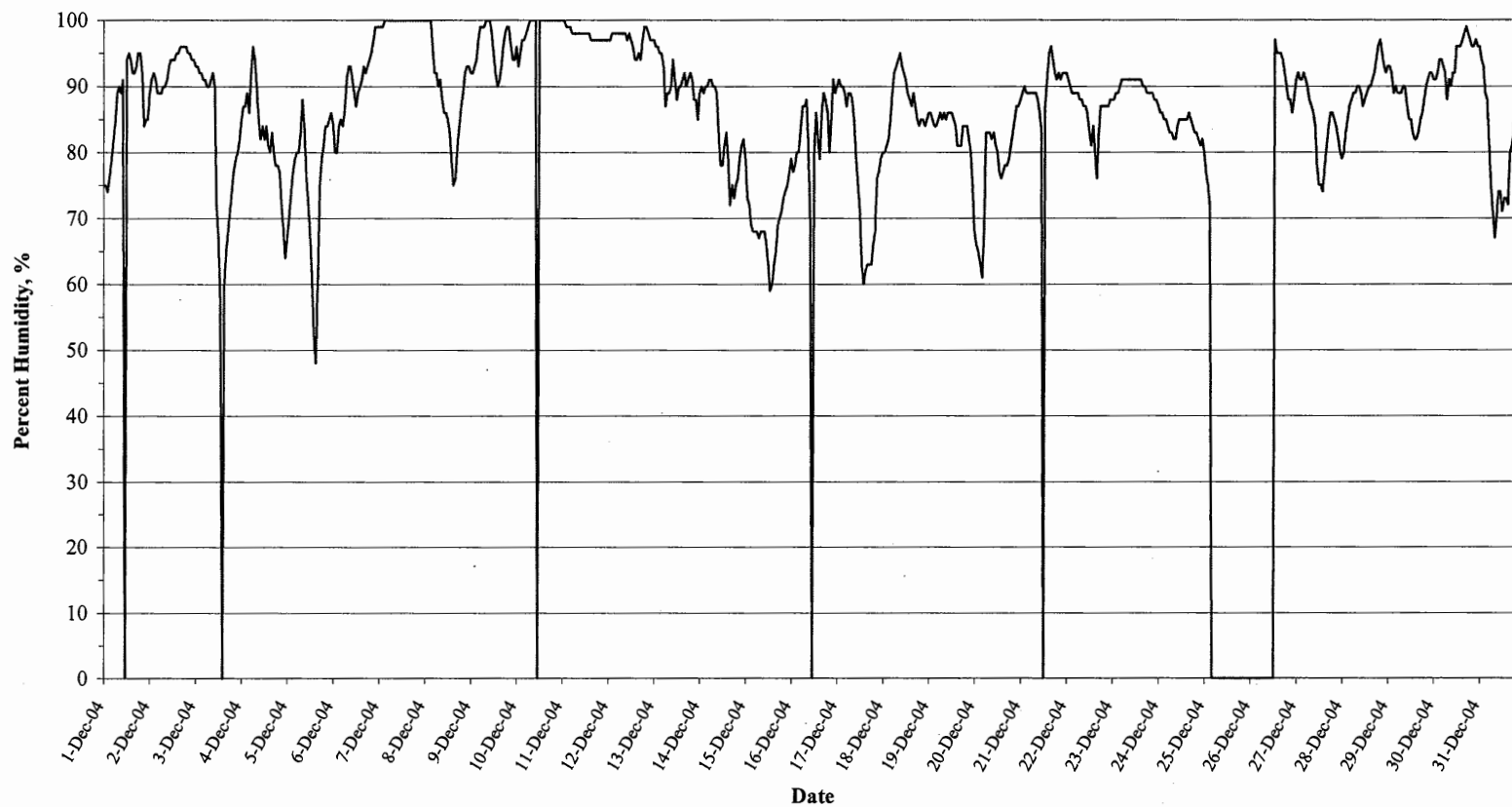


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
DECEMBER 2004

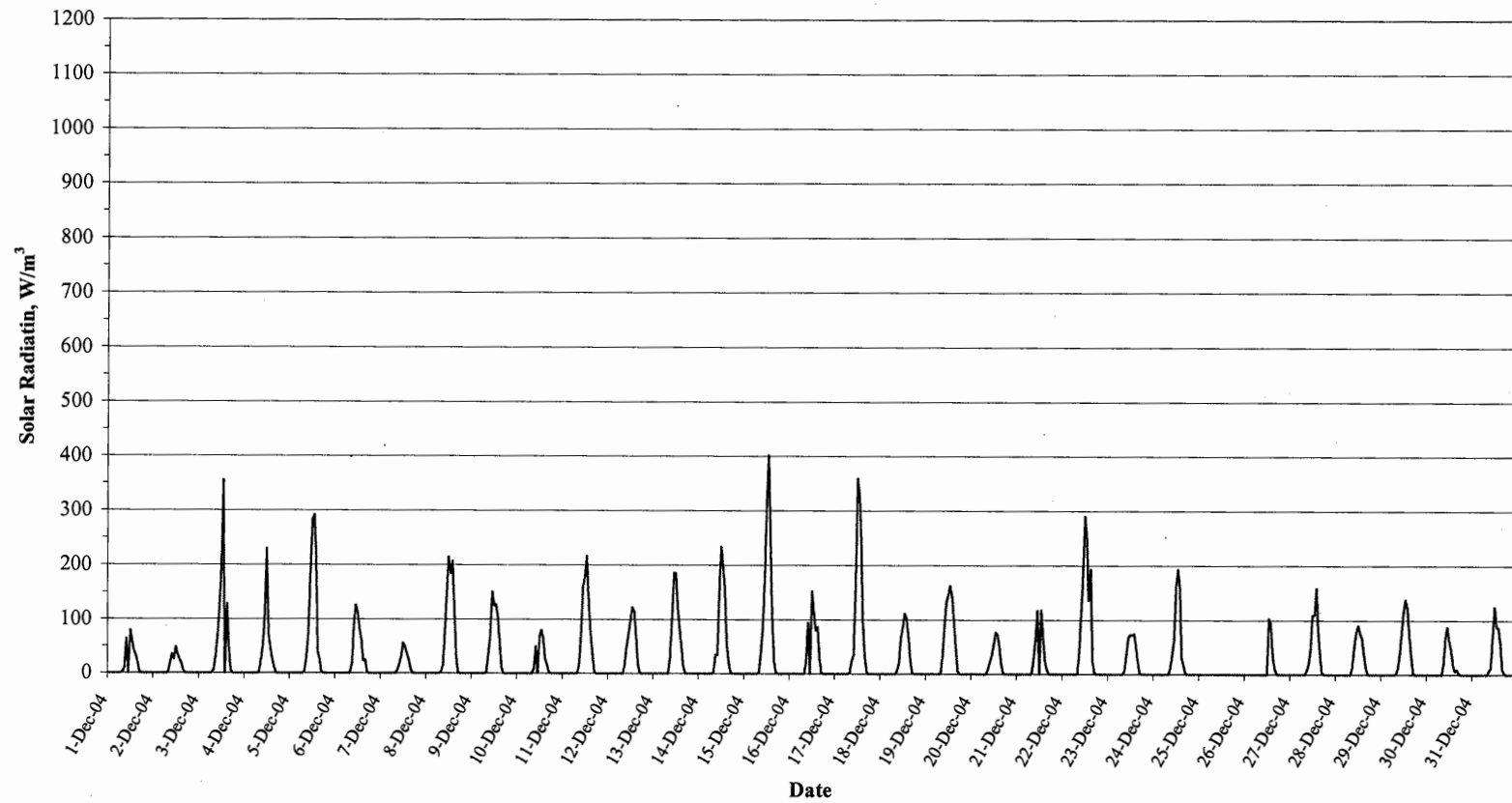
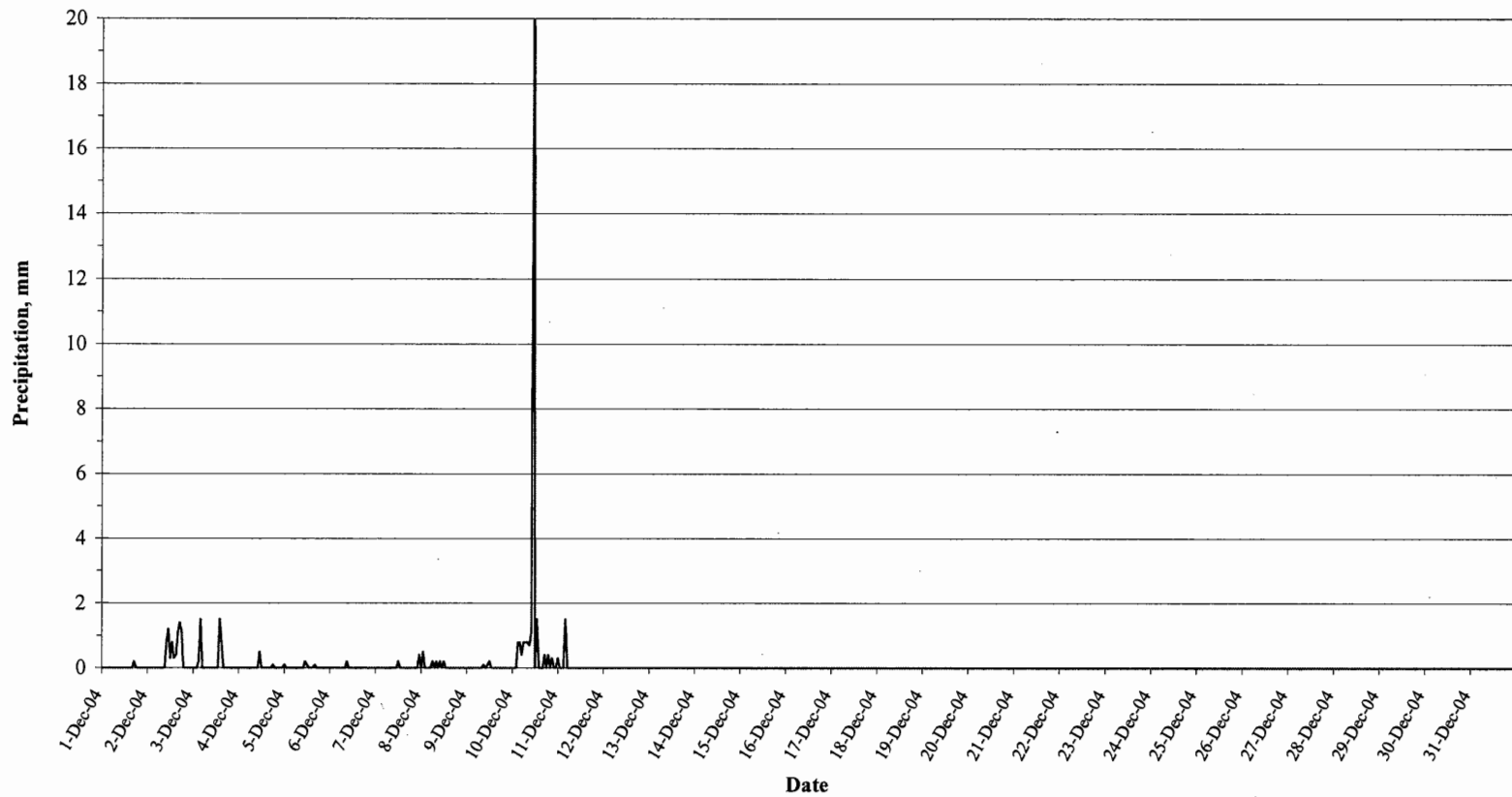


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
DECEMBER 2004**



Appendix H

January 2005 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
January 2005**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	19	µg/m ³	9-Jan-05
Second Maximum 24-Hour (Daily) Concentration ² :	17	µg/m ³	29-Jan-05
Monthly Data Collection Efficiency:	93.7	%	
Monthly Arithmetic Average:	9	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - January 2005)	13	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	W
Average Wind Direction Horizontal Deviation:	19 degrees
Average Wind Speed:	3.2 m/s
Average Temperature:	-10.2 °C
Average Relative Humidity:	80 %
Average Solar Radiation:	39 W/m ²
Total Rain Fall:	5.2 mm
Monthly Data Collection Efficiency:	93.8 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	12.4 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	25.8 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

PM₁₀ (µg/m3)
(One Hour Averages)

Daily Avg.	Daily Max.	Total Readings
---------------	---------------	-------------------

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg.	Max.	Readings
DAY																											
1	8	5	5	3	5	5	7	7	3	4	6	4	1	3	3	3	4	6	8	7	7	6	4	4	5	8	24
2	7	6	6	9	6	4	5	5	4	4	3	4	4	1	0	4	5	6	6	8	12	13	10	7	6	13	24
3	8	8	8	8	8	6	9	10	0	0	6	9	4	0	4	7	4	3	7	9	8	9	4	5	6	10	24
4	10	12	9	5	8	10	12	10	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	12	8
5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	8	10	9	9	10	NA	10	5
6	6	5	6	7	15	8	7	7	7	7	4	2	4	3	4	6	4	4	7	9	10	13	10	4	7	15	24
7	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0	0	0	4	11	17	19	18	26	26	17	19	NA	26	12
8	17	18	10	23	21	21	28	27	26	23	19	17	11	10	6	7	11	11	9	9	12	11	16	21	16	28	24
9	14	14	12	23	23	16	18	18	18	22	21	15	24	19	16	19	17	19	23	18	28	23	14	13	19	28	24
10	20	21	22	15	16	16	14	11	9	8	8	7	4	5	5	4	6	9	10	17	24	13	8	4	12	24	24
11	6	8	4	1	1	1	6	7	8	10	11	10	3	1	2	5	8	9	8	7	8	9	9	8	6	11	24
12	8	12	13	13	13	12	13	16	7	10	12	6	4	6	7	5	0	0	4	3	1	1	1	5	7	16	24
13	8	6	7	17	5	7	9	10	10	11	11	8	9	15	18	19	17	16	22	13	16	16	9	18	12	22	24
14	13	13	18	9	10	11	10	12	12	9	6	8	6	4	11	11	8	4	6	11	12	11	9	6	10	18	24
15	6	6	9	11	6	6	6	7	9	11	11	19	6	6	9	13	12	13	20	14	18	7	8	8	10	20	24
16	7	10	9	8	9	10	14	13	12	11	11	8	6	5	5	6	7	11	13	13	13	12	15	9	10	15	24
17	9	10	10	9	8	16	14	17	12	13	13	12	9	4	5	6	7	8	6	10	18	13	12	10	10	18	24
18	4	1	4	8	8	6	6	7	7	8	7	7	15	17	15	24	17	29	32	27	23	21	20	19	14	32	24
19	17	22	27	24	27	21	30	29	23	27	21	17	16	11	11	10	6	6	8	3	5	8	2	3	16	30	24
20	7	7	6	4	5	2	3	5	6	7	7	6	5	1	0	3	6	8	10	7	5	5	7	7	5	10	24
21	3	2	2	3	5	7	6	4	4	5	6	3	3	2	3	1	0	3	6	7	6	5	10	10	4	10	24
22	6	7	0	0	7	7	6	9	8	8	9	8	10	6	4	7	8	6	8	9	0	0	6	5	6	10	24
23	2	4	6	9	9	7	4	4	5	7	8	3	0	0	1	1	1	0	16	12	8	17	7	7	6	17	24
24	4	5	10	9	17	17	15	20	22	19	20	16	15	16	11	9	7	8	8	7	8	9	7	6	12	22	24
25	7	6	1	2	4	2	2	4	3	6	9	8	8	11	13	13	10	8	8	24	15	9	6	3	8	24	24
26	4	7	9	6	4	6	5	4	5	9	9	8	8	5	0	0	3	5	4	5	7	6	6	6	5	9	24
27	4	5	8	6	4	6	8	6	5	6	8	6	0	0	0	0	0	0	2	8	11	11	10	8	5	11	24
28	7	8	8	7	8	11	13	13	12	10	7	6	8	4	2	0	0	1	3	6	9	13	14	16	8	16	24
29	17	17	7	9	11	19	19	17	16	12	17	21	15	13	12	16	17	17	24	21	22	20	24	17	17	24	24
30	15	13	11	8	8	7	7	8	6	5	7	8	5	6	11	9	5	4	6	7	6	6	5	5	7	15	24
31	7	6	7	10	11	10	10	12	11	12	13	11	10	19	23	22	31	29	28	21	18	13	21	29	16	31	24
Hour Avg.:	9	9	9	9	10	10	11	11	10	10	10	9	7	7	7	8	8	9	11	11	12	11	10	10			
Hour Max.:	20	22	27	24	27	21	30	29	26	27	21	21	24	19	23	24	31	29	32	27	28	26	24	29			
Readings	29	29	29	29	29	29	29	29	28	28	28	28	29	29	29	29	29	29	29	30	30	30	30	30			
Monthly Avg.:	9.5 µg/m³		Standard Deviation:				6.3		Data Capture:		93.7 %										Total Valid Hours =					697	
System Codes:	NA - Not Available =		0		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		LF - Low Flow =		0																
	MISS - Data Not Collected =		0		PF - Power Fail =		47																				

KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
 (One Hour Averages)

January 2005

2024-01-01																								Total Readings		
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	326	336	347	10	21	13	354	20	26	29	44	58	58	58	75	98	100	106	115	124	117	125	128	129	24	
2	127	126	82	68	112	162	191	214	238	262	268	270	268	266	261	254	260	256	266	273	271	277	280	271	24	
3	274	282	283	290	287	276	285	287	279	278	281	285	283	281	281	279	292	283	283	279	278	284	287	242	24	
4	227	265	269	264	281	262	266	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	7	
5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	342	278	283	274	283	275	273		8	
6	259	247	267	249	272	253	237	229	242	237	246	267	288	290	279	288	279	251	224	221	221	228	232	PF	23	
7	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	216	222	228	231	234	221	222	205	226	249	251	258	255	13
8	225	232	231	248	260	291	292	269	251	249	262	295	282	282	300	7	11	99	125	161	195	174	186	193	24	
9	206	198	166	174	184	211	230	216	209	206	197	203	215	230	218	220	237	238	224	218	223	232	248	278	24	
10	286	286	289	291	295	289	297	298	300	310	300	303	321	307	303	312	301	299	292	320	199	226	219	180	24	
11	182	190	173	180	213	216	197	193	188	169	156	156	147	174	161	177	75	30	56	41	122	119	130	105	24	
12	159	131	134	103	109	119	91	113	122	114	124	129	138	148	150	153	170	185	206	210	221	230	247	258	24	
13	265	267	277	280	282	280	281	277	274	274	279	284	281	284	284	283	284	281	278	279	277	272	278	264	24	
14	265	258	253	257	255	253	253	247	249	252	258	274	277	273	278	279	273	262	241	238	232	230	229	236	24	
15	239	236	233	234	234	237	236	237	242	246	246	253	257	261	264	270	265	253	246	238	242	241	244	235	24	
16	235	240	240	239	234	239	239	251	254	254	257	266	272	292	295	292	284	276	271	273	254	251	246	250	24	
17	251	260	294	308	308	309	312	317	326	323	323	322	325	324	313	299	293	288	285	265	265	267	255	250	24	
18	234	205	197	222	223	209	205	202	201	199	202	200	197	192	192	194	193	197	197	201	200	201	201	204	24	
19	203	209	222	239	265	325	326	330	330	329	337	335	337	339	346	343	345	343	340	337	322	304	278	307	24	
20	315	291	281	274	273	269	279	270	273	291	282	335	196	128	129	37	37	37	50	35	37	34	32	29	24	
21	33	359	345	241	243	239	264	187	164	172	139	4	175	190	188	186	178	176	172	172	161	155	148	144	24	
22	137	127	128	113	109	103	62	65	48	40	33	21	20	18	15	11	7	1	1	358	356	354	353	360	24	
23	301	288	282	292	285	257	222	214	208	205	215	208	211	227	215	207	212	211	215	211	215	218	230	236	24	
24	239	241	245	248	258	261	266	270	277	285	309	320	333	340	345	341	343	345	354	1	16	30	343	25	24	
25	79	130	97	161	128	127	140	145	150	161	164	167	184	198	206	260	294	305	330	355	31	49	40	29	24	
26	17	23	31	30	32	27	32	34	39	35	25	12	9	360	8	12	6	357	339	347	335	300	328	304	24	
27	287	273	273	267	278	254	250	267	255	221	176	NA	194	207	198	196	193	200	200	192	196	203	209	214	23	
28	207	206	215	216	206	205	205	214	214	207	203	203	205	203	200	203	204	197	197	199	200	200	204	205	24	
29	202	206	214	212	219	222	230	249	264	277	280	303	306	295	314	331	327	321	312	305	337	347	348	11	24	
30	29	30	33	29	23	35	33	286	271	170	182	188	185	198	193	217	206	223	226	226	228	224	232	218	24	
31	209	210	216	212	218	218	218	214	215	235	241	237	237	241	255	280	267	265	279	251	271	276	295	262	24	
Readings	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	30	30	30	30	30	30	30	29		

Data Capture: 93.8 %

Total Valid Hours = 698

		Hours
System Codes:	NA - Not Available =	6
	RNG - Range =	0
	Cal - Calibration =	0
	MISS - Data Not Collected =	0

	Hours
AUD - Audit =	0
M&R - Maintenance & Repair =	0
MCAL - Manual Calibration =	0

	Hours
ACAL - Auto Cal =	0
INOP - InOperative =	0
PF - Power Fail =	40

WIND DIRECTION HORIZONTAL DEVIATION (One Hour Averages)

January 2005

		January 2008																							Daily Avg.	Total Readings				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23						
1	19	19	18	22	22	22	18	17	17	16	16	21	34	23	18	19	20	16	16	16	PF	PF	PF	PF	19	20				
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	0				
3	PF	PF	0	0	0	18	22	20	20	16	19	21	14	13	22	28	26	19	33	34	17	21	18	15	18	22				
4	22	19	19	18	23	17	15	14	12	13	14	13	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0	0	NA	14				
5	18	17	17	20	22	18	15	13	17	20	11	15	14	NA	NA	NA	14	14	20	18	22	17	16	15	17	21				
6	37	15	25	54	24	24	36	12	53	15	22	17	14	16	16	15	15	19	18	16	18	18	16	16	22	24				
7	18	20	20	19	24	18	22	25	16	NA	NA	17	20	22	22	22	23	24	21	24	24	24	27	23	22	22				
8	23	25	25	23	25	23	26	22	47	18	40	40	79	51	23	16	10	12	9	9	8	8	14	11	24	24				
9	15	27	42	26	33	63	14	31	21	21	21	43	16	19	23	12	19	24	23	20	19	15	17	15	24	24				
10	12	15	14	14	14	16	15	14	13	14	16	18	17	19	19	20	21	21	18	19	17	20	20	22	17	24				
11	23	22	23	22	22	22	23	20	18	19	18	19	18	17	15	17	17	16	15	15	14	14	15	18	18	24				
12	17	17	18	18	19	19	17	17	15	16	15	16	17	18	17	18	18	17	18	17	17	18	17	17	17	24				
13	19	18	19	19	20	21	18	16	17	16	15	15	14	15	14	14	13	13	15	15	14	12	13	14	16	24				
14	15	23	23	23	23	18	17	15	16	13	12	13	15	17	14	29	24	25	25	23	22	22	21	22	20	24				
15	21	23	24	25	23	21	17	17	15	8	9	8	16	16	22	25	10	13	12	11	12	13	14	16	16	24				
16	16	20	25	25	32	34	36	33	27	22	26	23	22	19	15	16	16	28	23	23	21	23	22	19	24	24				
17	21	20	19	16	17	15	17	17	18	21	24	17	25	30	28	11	10	11	10	12	16	10	18	31	18	24				
18	25	63	76	32	40	16	14	15	13	13	13	12	12	13	15	53	28	47	33	76	27	42	40	19	31	24				
19	0	15	14	16	14	15	13	12	14	13	13	11	13	12	13	11	19	18	23	24	24	16	15	14	15	24				
20	14	14	13	13	13	13	13	11	13	13	13	17	25	23	19	19	19	17	24	15	11	13	14	16	16	24				
21	14	14	20	17	15	15	13	15	15	18	17	20	18	17	16	16	15	14	16	16	15	17	19	26	17	24				
22	24	19	17	15	17	16	14	14	13	18	21	21	31	37	23	67	35	16	13	10	13	10	11	12	20	24				
23	12	16	14	15	23	33	24	21	14	26	17	16	14	12	14	13	13	14	13	13	13	14	14	15	16	24				
24	13	16	15	16	19	15	14	16	17	23	73	30	29	22	22	19	16	33	25	28	26	28	23	24	23	24				
25	0	15	16	23	27	13	12	12	10	12	13	14	15	15	17	17	17	17	14	13	14	17	18	18	15	24				
26	21	20	18	18	17	18	15	14	16	17	15	18	17	17	16	18	18	18	17	20	14	31	28	17	18	24				
27	25	27	23	28	22	24	24	24	24	20	15	NA	15	13	14	15	14	16	13	35	48	71	59	21	26	23				
28	18	19	18	19	21	17	19	17	17	16	16	18	15	15	15	15	15	15	13	12	10	13	16	15	16	24				
29	16	15	20	21	24	25	17	21	16	32	20	32	18	22	27	22	25	23	22	11	15	11	11	12	20	24				
30	16	12	9	13	25	47	38	55	44	11	14	19	18	19	16	18	17	17	22	25	27	25	16	19	23	24				
31	16	16	17	19	15	17	23	20	23	20	21	22	21	19	21	22	21	21	20	29	19	21	21	19	20	24				
Hour Avg.:	17.6	20.0	20.7	20.3	21.2	21.8	19.4	19.0	19.7	17.2	19.3	19.5	20.6	19.7	18.4	21.0	18.2	19.1	18.8	20.7	18.4	20.1	19.1	17.3						
Readings	29	29	30	30	30	30	30	30	30	29	29	29	29	28	28	28	29	29	29	29	28	28	29	29						
Monthly Avg.:	19 °	Standard Deviation:					9.1	Data Capture:					93.8 %	Hours					Hours					Total Valid Hours =					698	
System Codes:	NA	- Not Available =					6	AUD					- Audit =					0	ACAL					- Auto Cal =					0	
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0	
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					40	
	MISS	- Data Not Collected =					0																							

January 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY																												
1	2.2	2.9	2.7	3.5	3.7	3.1	2.0	2.8	2.8	3.2	3.0	2.3	2.7	2.9	2.1	2.2	2.4	3.0	2.8	3.0	4.0	4.3	5.5	5.7	3.1	5.7	24	
2	4.9	3.2	1.8	1.2	1.5	2.1	3.8	3.9	3.1	3.6	3.8	5.1	5.4	4.6	5.2	4.7	4.0	3.0	2.8	3.6	4.0	3.8	4.2	3.5	3.6	5.4	24	
3	3.4	3.5	4.0	3.7	2.8	2.9	2.3	2.4	2.6	2.5	2.8	2.9	3.3	3.4	2.9	2.9	2.7	2.5	2.0	1.7	2.0	1.9	1.5	0.7	2.6	4.0	24	
4	0.9	1.9	1.8	1.7	2.8	2.4	2.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	2.8	7	
5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	1.9	1.1	1.2	1.0	1.0	0.9	1.0	1.1	NA	1.9	8	
6	1.0	0.7	0.5	0.4	1.0	0.7	0.9	1.0	0.8	1.1	1.3	1.6	2.0	2.4	2.7	2.4	2.3	2.0	2.1	2.0	2.0	2.7	3.0	PF	1.6	3.0	23	
7	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	4.8	4.8	4.5	4.3	3.5	3.2	2.8	2.3	1.4	0.9	1.7	1.1	1.8	NA	4.8	13	
8	1.3	1.3	1.6	1.7	1.5	1.5	1.9	1.4	1.2	1.0	0.9	0.6	1.3	1.1	0.8	0.9	1.1	0.7	1.9	1.3	2.5	2.1	3.6	3.5	1.5	3.6	24	
9	4.0	1.8	1.4	2.4	2.4	2.8	2.7	2.2	2.9	2.7	3.3	2.6	3.2	3.3	3.1	2.7	2.7	2.6	2.8	2.8	3.1	3.7	5.7	2.9	5.7	24		
10	5.7	6.4	6.6	5.7	5.1	4.9	4.3	4.2	3.6	2.7	2.8	2.6	2.7	2.8	2.4	2.2	1.8	1.1	0.6	0.9	0.4	0.3	0.2	0.3	2.9	6.6	24	
11	0.2	0.4	0.6	1.7	1.9	2.3	2.5	2.5	2.6	1.3	0.9	0.8	0.5	1.0	1.6	1.6	1.5	2.3	1.3	0.7	0.6	0.9	0.6	1.3	1.3	2.6	24	
12	1.4	1.1	2.3	1.2	1.7	2.2	1.6	2.2	3.2	2.6	3.8	4.5	4.6	4.3	4.0	3.5	2.5	2.7	2.7	3.2	3.5	3.3	3.0	3.5	2.9	4.6	24	
13	3.9	5.1	4.5	5.1	5.3	4.5	4.2	4.4	4.3	5.1	6.7	6.2	6.0	6.4	6.2	6.6	6.5	7.4	6.5	5.5	5.0	4.2	4.3	4.5	5.4	7.4	24	
14	3.8	4.6	4.0	3.9	3.7	4.0	4.1	3.5	3.8	4.1	4.3	4.4	4.5	4.6	5.2	4.4	4.4	4.4	4.1	4.2	4.0	4.1	4.5	4.6	4.2	5.2	24	
15	4.9	5.2	5.5	5.5	5.1	4.8	4.6	4.8	5.4	4.8	4.6	5.1	5.3	5.9	5.6	5.7	5.3	4.9	4.3	4.0	4.1	3.9	3.6	3.0	4.8	5.9	24	
16	2.8	2.9	2.8	2.7	2.4	2.9	2.9	3.1	4.1	3.4	2.3	2.6	3.1	3.1	3.0	2.6	3.5	3.2	3.2	2.5	2.1	2.1	1.5	1.8	2.8	4.1	24	
17	1.7	1.5	1.5	2.2	2.4	2.6	2.8	2.7	2.9	2.8	2.6	2.8	2.8	2.9	3.0	3.1	3.2	3.1	1.8	1.2	1.3	1.3	1.4	1.8	2.3	3.2	24	
18	1.4	1.4	1.6	1.6	2.2	3.5	4.4	5.2	6.9	6.3	6.7	6.8	6.6	10.7	11.1	12.1	13.4	13.7	12.8	10.1	9.1	9.8	8.9	6.8	7.2	13.7	24	
19	6.0	5.3	3.8	3.3	2.9	4.0	4.3	4.6	4.6	4.6	5.0	4.6	5.6	5.0	5.1	4.6	4.8	3.9	3.1	2.2	1.5	1.3	1.5	1.2	3.9	6.0	24	
20	1.0	1.0	1.2	1.1	1.1	1.1	1.0	0.6	0.8	0.8	0.5	1.0	0.3	0.3	0.8	1.5	2.1	2.6	2.4	3.0	3.3	2.5	2.3	1.6	1.4	3.3	24	
21	1.6	1.1	0.4	0.5	0.6	0.7	0.3	0.6	0.4	0.8	0.9	0.0	4.3	4.6	4.4	5.3	5.2	4.5	4.5	3.5	4.3	4.4	4.4	3.8	2.5	5.3	24	
22	3.9	3.5	3.5	2.0	2.4	2.2	2.5	2.9	3.9	5.6	6.1	7.6	7.3	6.9	6.7	6.1	5.4	5.2	4.2	4.3	3.3	3.3	2.8	2.0	4.3	7.6	24	
23	1.2	1.8	1.8	1.8	2.1	1.6	2.2	3.1	2.8	3.5	4.3	5.7	5.4	4.7	5.6	6.2	5.8	4.6	4.8	6.4	6.6	7.0	5.7	4.8	4.1	7.0	24	
24	5.1	5.1	4.7	4.7	5.3	4.8	4.4	4.1	3.4	3.4	2.9	2.3	2.4	3.1	3.6	3.3	2.9	3.0	2.6	3.1	2.2	2.4	1.7	0.7	3.4	5.3	24	
25	0.5	0.7	0.5	0.7	1.4	2.0	2.6	2.2	2.3	2.7	3.4	4.2	4.8	4.7	4.0	1.9	1.2	1.2	2.7	3.8	4.7	4.6	4.6	4.6	2.8	4.8	24	
26	5.7	5.5	5.0	4.9	4.7	4.7	4.5	4.2	3.7	3.9	3.6	5.0	4.9	4.6	4.2	4.1	3.3	3.0	2.0	1.6	0.9	0.3	1.2	1.4	3.6	5.7	24	
27	1.1	0.9	1.3	1.7	1.0	1.1	1.1	1.0	0.8	0.4	0.6	NA	4.2	3.7	2.6	2.4	3.1	3.8	3.5	4.6	4.7	4.6	5.2	5.9	2.6	5.9	23	
28	6.1	6.5	6.3	6.0	7.0	6.4	5.4	4.8	5.5	6.9	7.5	8.3	8.2	8.0	6.3	6.4	5.1	4.6	5.1	6.1	6.6	5.7	5.6	5.9	6.3	8.3	24	
29	6.0	5.6	4.7	4.6	3.9	2.9	1.8	1.6	0.9	1.7	1.6	1.7	1.8	1.9	1.7	2.2	1.4	1.1	1.0	1.1	1.6	1.6	1.7	1.7	2.3	6.0	24	
30	2.6	2.5	2.8	2.7	1.4	1.6	0.6	0.6	0.6	0.7	1.0	1.5	2.5	3.8	3.3	2.7	3.0	2.8	2.9	2.9	2.2	3.0	3.5	3.1	2.3	3.8	24	
31	2.7	2.4	2.6	2.4	2.5	3.1	3.2	3.0	2.8	2.6	2.7	2.9	3.2	2.9	2.5	2.1	1.7	1.4	1.3	0.9	0.8	0.8	1.1	0.7	2.2	3.2	24	
Hour Avg.:	3.0	3.0	2.8	2.8	2.8	2.9	2.8	2.8	3.0	3.0	3.2	3.6	3.9	4.1	3.9	3.8	3.6	3.4	3.2	3.1	3.1	3.1	3.1	3.0				
Hour Max.:	6.1	6.5	6.6	6.0	7.0	6.4	5.4	5.2	6.9	6.9	7.5	8.3	8.2	10.7	11.1	12.1	13.4	13.7	12.8	10.1	9.1	9.8	8.9	6.8				
Readings	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	30	30	30	30	30	30	30	29				
Monthly Avg.:	3.2 m/s		Standard Deviation:				2.0		Data Capture:				93.8 %														Total Valid Hours =	698
System Codes:	NA - Not Available =		6		AUD - Audit =		0		ACAL - Auto Cal =		0																	
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																	
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		40																	
	MISS - Data Not Collected =		0																									

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

TEMPERATURE - °C

(One Hour Averages)

January 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
DAY	1	-9.5	-9.2	-8.6	-8.2	-8.4	-8.6	-8.7	-8.8	-8.9	-9.0	-8.7	-8.6	-8.4	-8.2	-7.9	-7.7	-7.6	-7.7	-7.7	-7.2	-7.0	-7.7	-7.6	-7.8	-8.2	-7.0	24
	2	-7.5	-6.6	-6.1	-5.8	-5.4	-3.7	-2.7	-2.4	-2.2	-1.9	-2.3	-2.3	-3.0	-3.2	-3.2	-3.0	-2.7	-3.5	-4.5	-5.4	-6.2	-7.0	-7.7	-8.0	-4.4	-1.9	24
	3	-8.4	-8.8	-9.1	-9.2	-9.4	-9.5	-9.6	-9.9	-10.2	-10.4	-10.2	-10.2	-10.1	-10.2	-10.2	-10.1	-10.5	-10.9	-11.2	-11.3	-11.2	-11.0	-10.9	-11.0	-10.1	-8.4	24
	4	-11.0	-10.6	-10.3	-9.9	-9.6	-9.4	-9.4	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	-9.4	7
	5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	-11.9	-12.4	-12.5	-12.6	-13.2	-13.3	-13.4	-13.2	NA	-11.9	8
	6	-13.3	-13.4	-13.7	-15.1	-15.5	-15.5	-14.5	-13.3	-13.0	-12.6	-11.7	-10.8	-9.8	-9.4	-9.1	-8.7	-9.1	-9.4	-10.5	-11.3	-11.3	-11.1	-11.7	PF	-11.9	-8.7	23
	7	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	-10.3	-8.2	-6.5	-5.0	-3.7	-3.2	-3.7	-5.1	-6.6	-8.0	-9.4	-10.3	-11.3	NA	-3.2	13	
	8	-11.2	-10.5	-10.0	-9.7	-9.8	-9.1	-8.9	-9.0	-8.9	-8.6	-8.5	-7.9	-7.2	-6.5	-5.8	-5.7	-5.8	-5.7	-6.1	-5.8	-5.9	-5.9	-6.0	-6.2	-7.7	-5.7	24
	9	-6.5	-6.8	-6.9	-6.9	-6.9	-6.9	-7.1	-7.3	-7.8	-8.3	-8.7	-8.6	-7.9	-7.5	-7.2	-6.9	-6.8	-6.8	-7.0	-7.1	-7.1	-7.2	-6.5	-5.8	-7.2	-5.8	24
	10	-6.0	-6.4	-7.0	-7.2	-7.5	-7.8	-8.1	-8.6	-8.8	-9.1	-9.2	-9.3	-9.2	-9.3	-9.3	-9.5	-9.8	-10.1	-11.2	-14.2	-15.5	-15.5	-14.8	-9.7	-6.0	24	
	11	-14.8	-15.1	-15.2	-12.7	-11.1	-10.6	-10.3	-10.0	-9.6	-10.3	-10.6	-9.1	-6.6	-4.6	-3.4	-2.7	-3.5	-5.2	-5.9	-6.0	-6.1	-5.5	-4.9	-4.7	-8.3	-2.7	24
	12	-4.7	-4.6	-4.3	-4.0	-3.6	-3.4	-3.4	-3.1	-3.0	-2.8	-2.6	-2.3	-2.0	-1.5	-0.9	-0.3	0.0	0.2	0.5	0.5	0.6	0.7	0.8	0.8	-1.8	0.8	24
	13	0.4	-0.6	-1.3	-2.3	-2.5	-2.5	-2.8	-3.2	-3.5	-4.1	-4.5	-5.3	-7.3	-8.7	-10.1	-11.5	-11.9	-13.3	-15.0	-15.9	-16.3	-16.8	-17.0	-17.9	-8.1	0.4	24
	14	-19.1	-19.7	-20.3	-20.6	-21.2	-21.4	-21.6	-22.2	-22.1	-21.6	-21.1	-20.2	-19.3	-18.7	-18.0	-17.8	-17.9	-18.1	-18.5	-19.6	-20.3	-20.8	-21.3	-21.5	-20.1	-17.8	24
	15	-21.5	-21.9	-22.4	-22.8	-22.9	-23.1	-23.4	-23.5	-23.4	-23.8	-23.5	-22.2	-21.3	-20.8	-20.2	-19.7	-19.9	-20.4	-21.5	-22.1	-22.3	-22.4	-22.3	-22.4	-22.1	-19.7	24
	16	-22.4	-22.4	-22.3	-22.4	-22.5	-22.6	-22.4	-22.2	-22.1	-22.4	-21.9	-20.2	-18.0	-17.5	-17.5	-17.2	-17.7	-17.7	-18.2	-19.1	-20.2	-21.1	-22.0	-22.1	-20.6	-17.2	24
	17	-21.6	-21.1	-20.4	-20.4	-20.8	-21.0	-21.3	-21.4	-21.4	-21.3	-20.9	-20.5	-20.1	-19.6	-19.4	-19.2	-19.5	-20.5	-21.6	-22.7	-22.9	-23.2	-22.7	-21.0	-19.2	24	
	18	-22.3	-22.9	-23.8	-23.9	-22.9	-21.7	-20.6	-20.5	-20.8	-20.8	-19.7	-18.2	-16.6	-15.1	-13.4	-13.1	-12.7	-11.9	-12.6	-12.8	-12.7	-12.4	-12.0	-11.8	-17.3	-11.8	24
	19	-11.6	-11.4	-10.9	-10.2	-9.1	-7.1	-7.3	-7.7	-8.3	-8.8	-9.2	-9.7	-10.5	-11.4	-12.2	-12.3	-12.4	-12.5	-12.5	-12.5	-12.4	-12.4	-12.5	-12.5	-10.7	-7.1	24
	20	-12.5	-12.3	-12.5	-12.6	-12.6	-12.5	-12.4	-12.3	-12.4	-12.1	-11.5	-10.3	-9.1	-8.1	-8.5	-8.6	-8.8	-9.4	-9.9	-10.2	-10.5	-10.9	-11.1	-11.3	-10.9	-8.1	24
	21	-11.5	-11.8	-12.0	-12.5	-12.5	-12.6	-12.8	-12.7	-12.7	-12.8	-12.0	0.0	-10.3	-10.2	-9.9	-9.6	-9.6	-9.8	-10.3	-10.6	-11.1	-11.4	-11.8	-12.0	-10.9	0.0	24
	22	-12.2	-12.5	-12.5	-12.2	-12.0	-11.6	-10.9	-10.5	-9.9	-9.4	-9.7	-10.2	-11.0	-11.7	-12.1	-12.5	-12.8	-13.0	-13.2	-13.2	-13.1	-12.8	-12.6	-12.5	-11.8	-9.4	24
	23	-12.8	-13.1	-13.3	-13.3	-13.5	-14.1	-14.6	-15.6	-16.4	-15.7	-13.8	-12.3	-10.6	-9.0	-8.6	-7.8	-7.0	-7.7	-8.4	-8.8	-8.9	-8.9	-9.1	-8.8	-11.3	-7.0	24
	24	-8.4	-8.2	-7.9	-7.4	-6.9	-6.8	-6.7	-6.6	-6.3	-6.0	-5.7	-5.4	-5.1	-4.7	-4.6	-4.7	-4.8	-5.1	-5.3	-5.4	-5.5	-5.7	-5.9	-6.1	-6.1	-4.6	24
	25	-6.3	-6.5	-6.6	-6.8	-6.7	-6.8	-6.6	-6.5	-6.3	-6.0	-5.6	-5.1	-4.8	-4.8	-4.3	-3.9	-3.7	-3.9	-3.7	-3.8	-4.1	-4.9	-5.8	-6.4	-5.4	-3.7	24
	26	-7.2	-8.6	-9.5	-9.9	-10.2	-10.6	-11.0	-11.5	-11.8	-12.0	-12.1	-12.2	-12.2	-12.2	-12.5	-12.9	-13.0	-13.2	-13.5	-13.7	-14.6	-14.7	-13.8	-13.6	-11.9	-7.2	24
	27	-13.9	-13.7	-13.7	-13.6	-13.5	-13.8	-14.0	-14.8	-16.7	-16.5	-13.4	NA	-10.6	-9.6	-8.7	-8.1	-8.2	-9.0	-10.3	-10.8	-10.6	-10.8	-10.9	-11.1	-12.0	-8.1	23
	28	-11.4	-11.7	-11.9	-11.8	-11.9	-12.1	-12.2	-11.7	-11.0	-10.4	-8.9	-7.1	-5.7	-4.8	-3.9	-2.4	-2.2	-2.7	-3.5	-4.3	-4.9	-5.6	-5.6	-5.3	-7.6	-2.2	24
	29	-5.3	-4.9	-4.8	-4.9	-5.0	-5.1	-5.0	-5.3	-5.2	-5.4	-5.5	-4.4	-3.5	-3.2	-2.7	-2.8	-2.9	-3.1	-3.3	-3.3	-3.0	-3.0	-2.9	-2.8	-4.1	-2.7	24
	30	-2.5	-2.7	-3.1	-3.5	-3.7	-3.9	-4.0	-4.0	-4.0	-4.0	-3.9	-3.3	-2.6	-2.3	-2.1	-1.9	-2.0	-2.0	-2.2	-2.2	-2.3	-2.3	-2.4	-2.5	-2.9	-1.9	24
	31	-2.5	-2.7	-2.8	-2.8	-2.7	-2.6	-2.9	-3.8	-4.2	-3.1	-2.4	-1.8	-1.1	-0.5	0.1	0.4	0.3	0.2	-0.1	-0.2	-0.3	-0.5	-0.9	-1.1	-1.6	0.4	24
Hour Avg.:		-10.9	-11.1	-11.1	-11.1	-11.0	-10.9	-10.9	-11.0	-11.1	-11.0	-10.7	-9.6	-9.4	-9.0	-8.6	-8.4	-8.6	-8.9	-9.4	-9.8	-10.2	-10.4	-10.6	-10.6			
Hour Max.:		0.4	-0.6	-1.3	-2.3	-2.5	-2.5	-2.7	-2.4	-2.2	-1.9	-2.3	0.0	-1.1	-0.5	0.1	0.4	0.3	0.2	0.5	0.5	0.6	0.7	0.8	0.8			
Readings		29	29	29	29	29	29	29	28	28	28	28	29	29	29	29	30	30	30	30	30	30	30	30	29			
Monthly Avg.:		-10.2 °C		Standard Deviation:		6.0		Data Capture:		93.8 %		Total Valid Hours =		698														

System Codes:	Hours			Hours			Hours		
	NA	- Not Available =	6	AUD	- Audit =	0	ACAL	- Auto Cal =	0
	RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
	Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	40
	MISS	- Data Not Collected =	0						

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

January 2005

January 2005																																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings													
DAY																																								
1	92	93	94	95	94	94	94	94	94	94	94	94	92	91	92	88	87	88	89	91	85	88	84	85	91	95	24													
2	89	93	95	96	96	97	96	94	96	91	89	87	85	82	79	75	72	76	79	78	73	76	78	81	86	97	24													
3	83	85	85	85	87	89	89	89	88	85	83	76	74	74	73	72	76	81	82	85	85	86	86	87	83	89	24													
4	87	87	87	88	89	89	87	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	89	7													
5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	89	89	90	89	89	90	90	90	NA	90	8													
6	90	90	90	89	89	88	89	90	90	90	90	87	83	80	78	74	77	80	79	80	80	80	82	PF	85	90	23													
7	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	69	63	61	60	57	57	58	64	69	73	76	78	80	NA	80	13													
8	81	82	83	84	84	87	88	90	90	91	91	90	88	83	76	74	73	74	78	79	81	82	84	84	83	91	24													
9	84	86	88	91	92	91	90	91	90	91	91	89	86	84	81	77	76	76	80	81	83	92	87	86	86	92	24													
10	85	84	82	83	80	80	81	82	84	83	86	87	88	81	82	79	80	82	85	88	92	90	88	89	84	92	24													
11	88	89	88	85	83	83	82	81	79	84	85	83	76	67	62	62	66	74	80	82	84	85	85	86	80	89	24													
12	89	92	98	97	96	98	99	99	98	98	97	97	97	97	96	96	96	97	96	95	95	94	91	89	96	99	24													
13	87	82	84	86	86	85	84	81	83	82	81	84	81	77	76	74	70	64	72	79	81	82	85	81	80	87	24													
14	80	77	77	76	77	77	77	76	77	77	74	72	70	68	64	65	67	66	60	44	41	44	46	45	67	80	24													
15	44	47	51	55	58	60	61	60	60	61	59	58	59	57	53	48	47	44	46	47	47	50	53	62	54	62	24													
16	69	70	72	72	66	63	64	66	69	72	72	70	66	66	65	65	66	70	76	75	75	74	78	80	70	80	24													
17	82	83	83	81	78	81	81	82	82	82	82	82	82	83	83	83	82	80	81	82	82	81	81	81	82	83	24													
18	82	81	81	80	80	78	74	66	66	65	60	53	47	51	46	49	50	46	74	85	85	81	82	81	68	85	24													
19	85	85	84	87	90	93	88	88	89	88	87	89	84	88	87	86	85	86	88	89	90	90	90	90	88	93	24													
20	90	91	91	91	91	91	91	91	91	91	91	91	90	85	85	83	82	85	90	93	92	92	91	91	90	93	24													
21	91	90	90	91	90	90	90	87	86	85	81	0	67	67	66	65	67	72	78	84	86	85	87	85	78	91	24													
22	86	87	88	89	89	89	92	92	93	91	88	85	80	84	81	82	83	83	90	89	90	89	89	89	87	93	24													
23	90	90	89	88	88	87	87	88	88	83	75	67	62	55	53	49	44	46	45	49	53	54	57	59	69	90	24													
24	63	67	70	73	76	79	80	82	84	86	89	90	92	87	85	85	86	86	89	90	89	88	87	88	83	92	24													
25	91	92	93	93	92	95	95	92	94	94	92	90	89	93	94	94	95	96	98	98	98	94	92	93	94	98	24													
26	93	91	91	91	89	90	89	88	86	81	89	87	82	79	75	75	77	78	78	84	88	89	85	84	85	93	24													
27	86	86	85	84	82	83	84	86	88	78	69	NA	68	62	59	56	53	54	58	60	58	57	59	63	70	88	23													
28	69	76	80	81	83	84	84	79	62	53	44	33	29	29	28	24	23	26	28	32	35	36	42	53	51	84	24													
29	62	63	62	62	63	64	63	69	68	78	84	80	81	83	84	87	88	89	91	92	94	95	97	97	79	97	24													
30	97	96	97	96	95	94	93	92	90	90	89	86	81	79	80	80	81	81	82	82	82	82	82	81	87	97	24													
31	80	82	83	84	84	85	85	89	90	87	85	83	80	76	73	69	70	72	73	73	74	77	82	84	80	90	24													
Hour Avg.:	82.6	83.3	84.2	84.6	84.4	85.0	84.7	84.4	84.1	83.3	82.0	77.2	76.8	74.9	73.0	71.6	72.1	73.2	76.7	78.1	78.7	79.3	79.9	80.8																
Hour Max.:	97.0	96.0	98.0	97.0	96.0	98.0	99.0	99.0	98.0	98.0	97.0	97.0	97.0	97.0	96.0	96.0	96.0	97.0	98.0	98.0	98.0	95.0	97.0	97.0																
Readings	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	30	30	30	30	30	30	30	29																
Monthly Avg.:	80 %	Standard Deviation:					14.1	Data Capture:					93.8 %											Total Valid Hours =			698													
							Hours								Hours									Hours																
System Codes:	NA	- Not Available =					6	AUD					- Audit =					0	ACAL					- Auto Cal =					0											
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0											
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					40											
	MISS	- Data Not Collected =					0																																	

KMC EAGLE STATION
Solar Radiation (W/m2)
(One Hour Averages)

January 2005

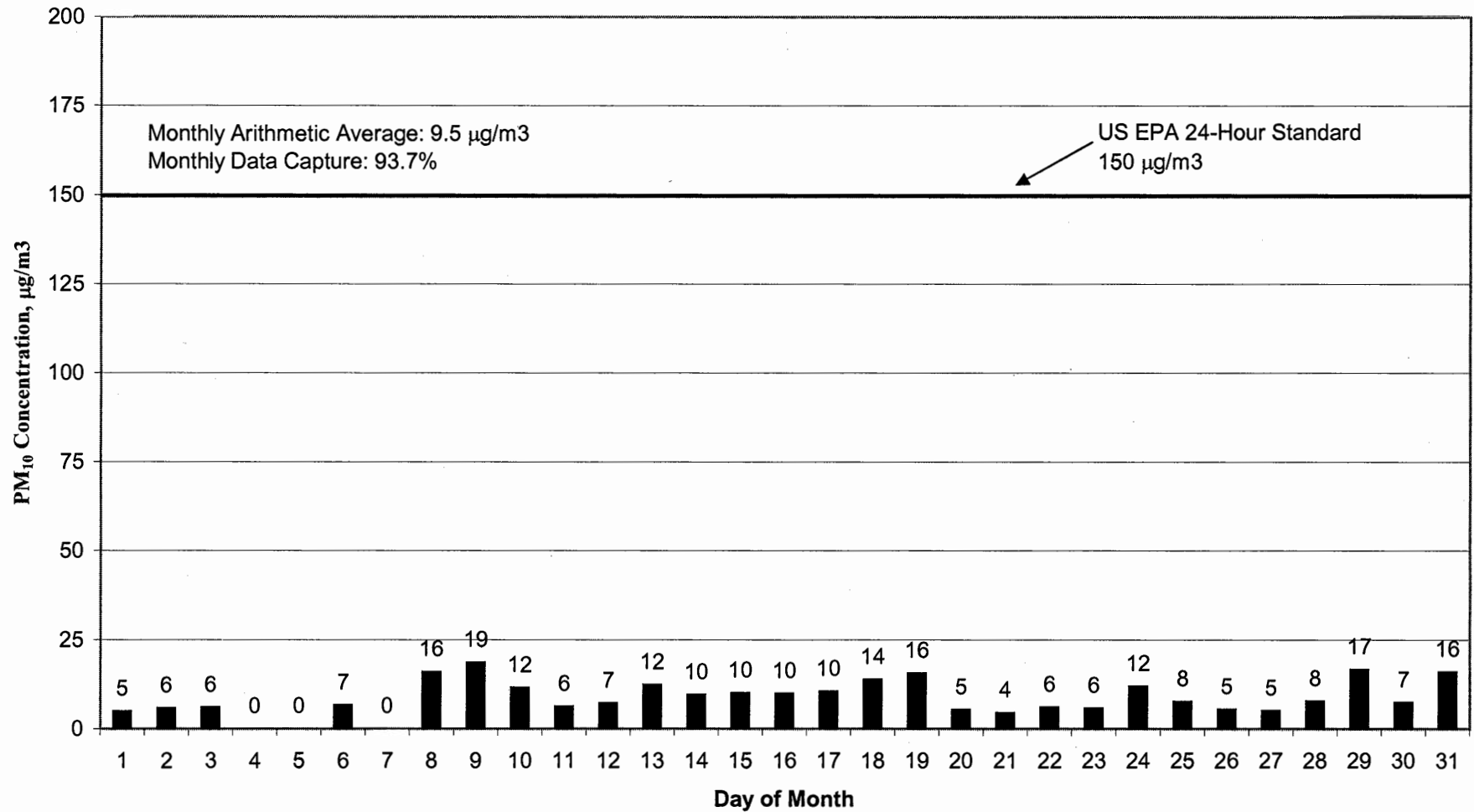
[illegible]

**Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**Rain Fall (mm)
(One Hour Accumulations)**

January 2005																								Daily Sum	Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.1	0.0	0	0.0	0.1	0	0.5	19
2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.3	22
3	0.1	0	0.1	0	0.1	0	0.0	0.0	0.1	0.0	0	0.0	0.3	0.0	0	0	0.1	0	0.1	0	0.0	0.0	0.1	0	1.0	15
4	0.0	0.0	0.0	0.1	0	0.0	0.1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.2	6
5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	PF	0.0	12
7	PF	PF	PF	PF	PF	PF	PF	PF	PF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0.1	0.0	0.0	0	0	0.4	0	0.4	0	0.0	0.9	6
28	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.6	21
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	23
30	0.0	0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.2	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.2	0.7	20
31	0.0	0	0.2	0.0	0	0.2	0.0	0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0		
Hour Avg.:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Hour Max.:	0.1	0.0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.4	0.2	0.2	0.3	0.0	0.1	0.1	0.1	0.0	0.1	0.4	0.0	0.4	0.1	0.2		
Readings	7	5	9	8	7	8	8	7	8	8	6	8	5	7	6	7	9	6	7	7	7	7	8	7		
Monthly Total:	5.2 mm										Data Capture: 20.4 %										Total Valid Hours =				152	
System Codes:	NA - Not Available = 498										AUD - Audit = 0										ACAL - Auto Cal = 0					
	RNG - Range = 0										M&R - Maintenance & Repair = 0										INOP - InOperative = 0					
	Cal - Calibration = 0										MCAL - Manual Calibration = 0										PF - Power Fail = 40					
	MISS - Data Not Collected = 0																									

**Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
JANUARY 2005**



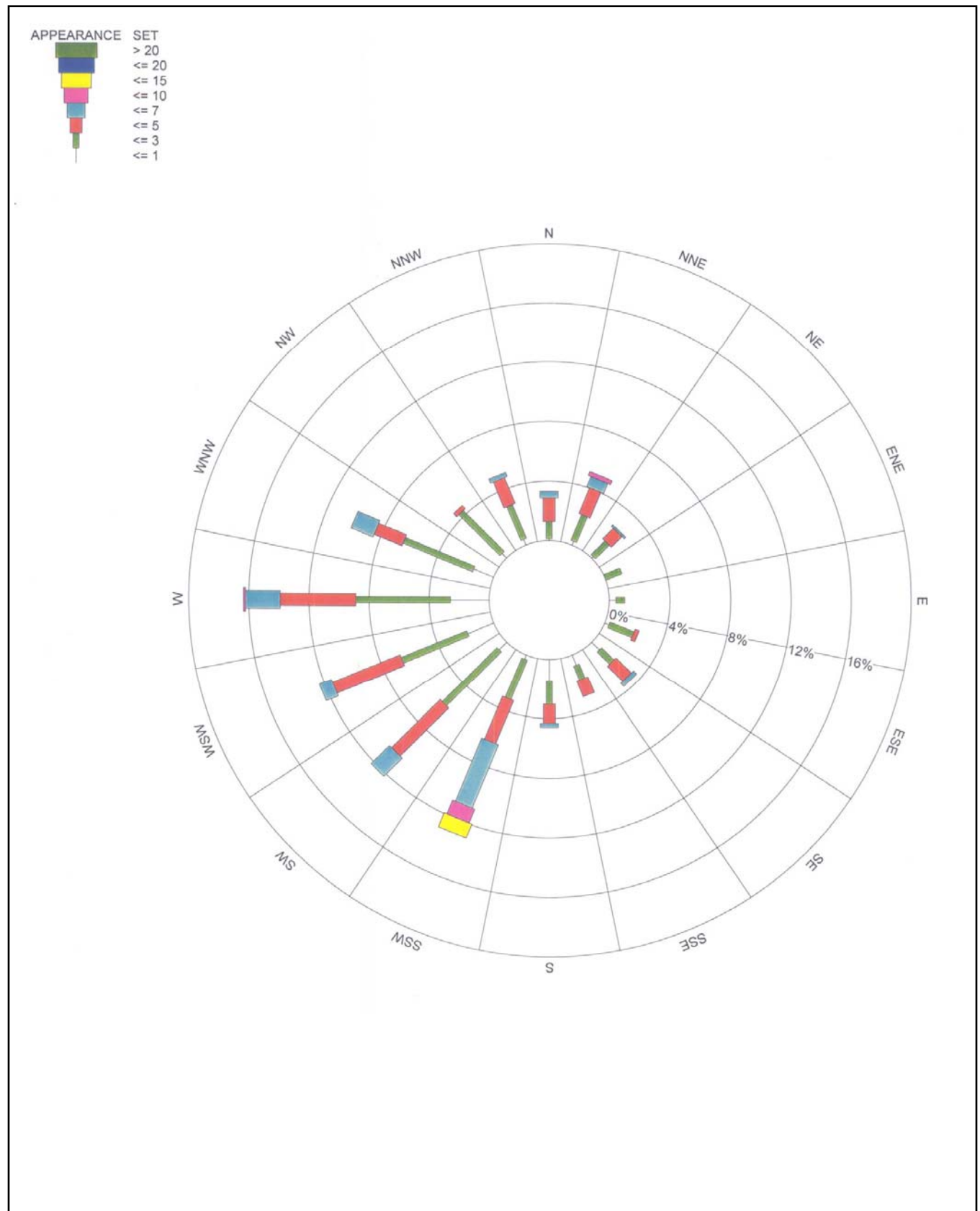


Figure 2
Wind Speed, 1-Hour Average, m/s, KMC Eagle Station
(Discluding Invalid Data) Overall Average: 3.20531

Source: Golder, 2005.

Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
JANUARY 2005

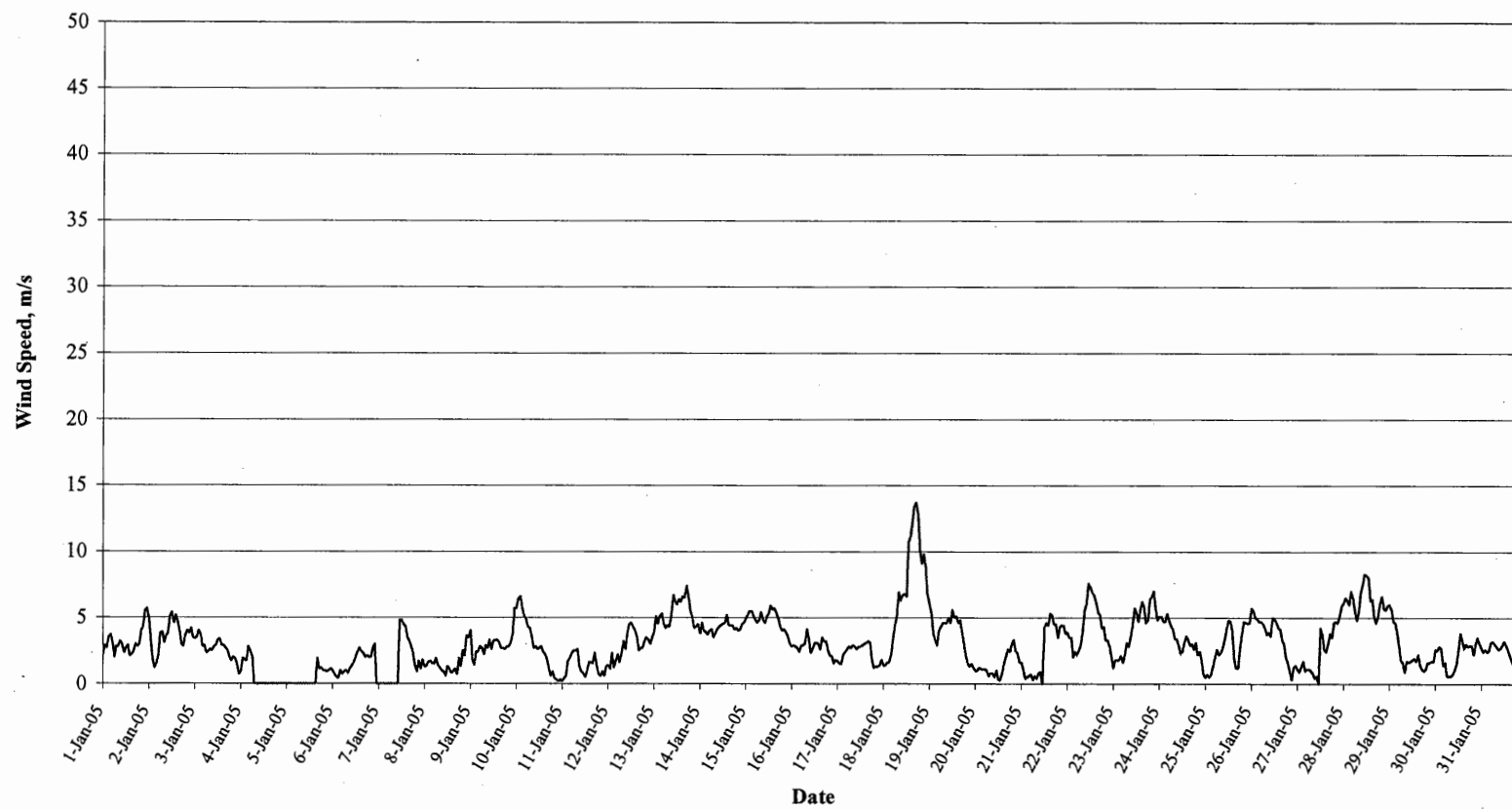


Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
JANUARY 2005

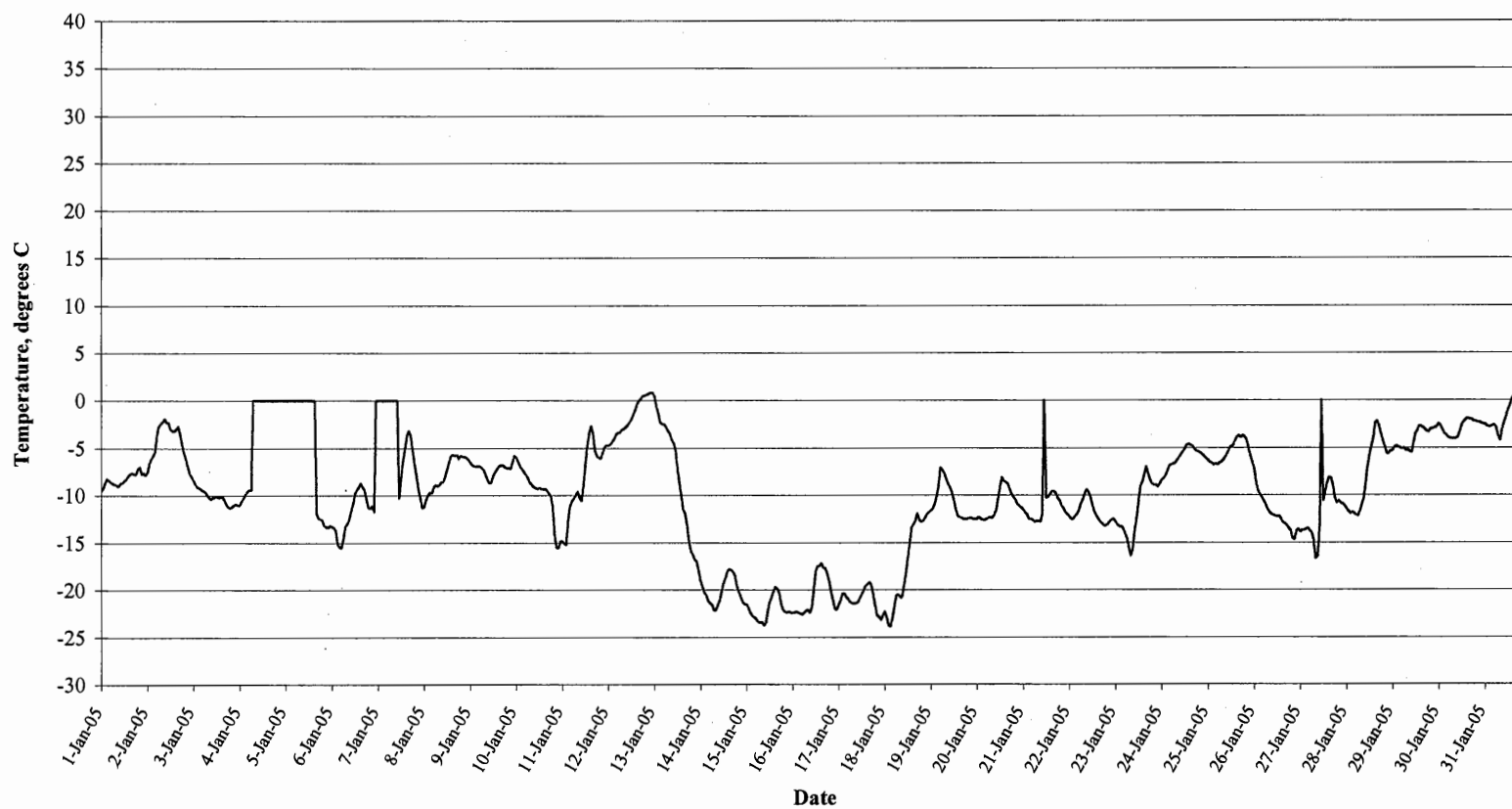


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
JANUARY 2005

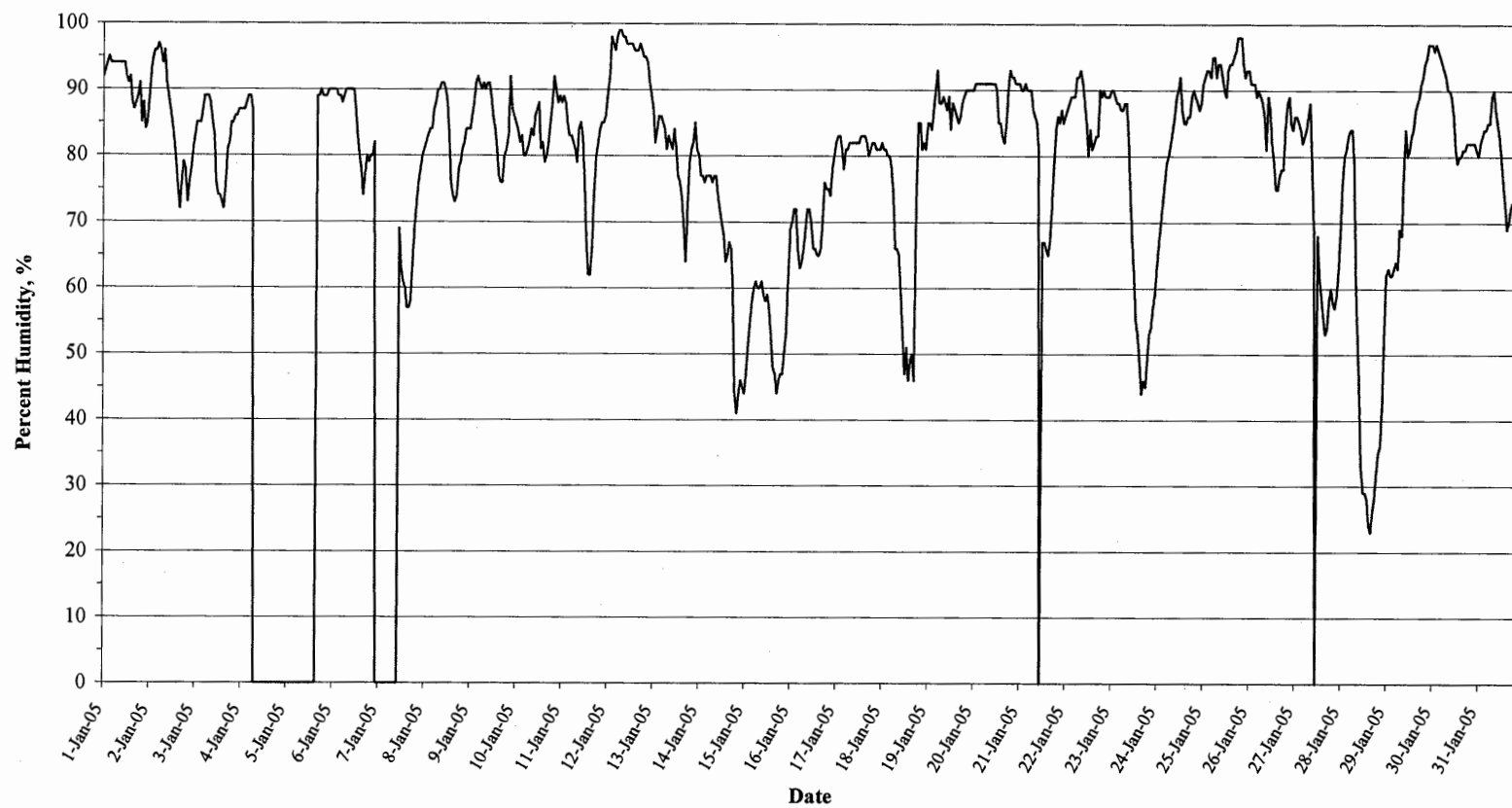


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
JANUARY 2005

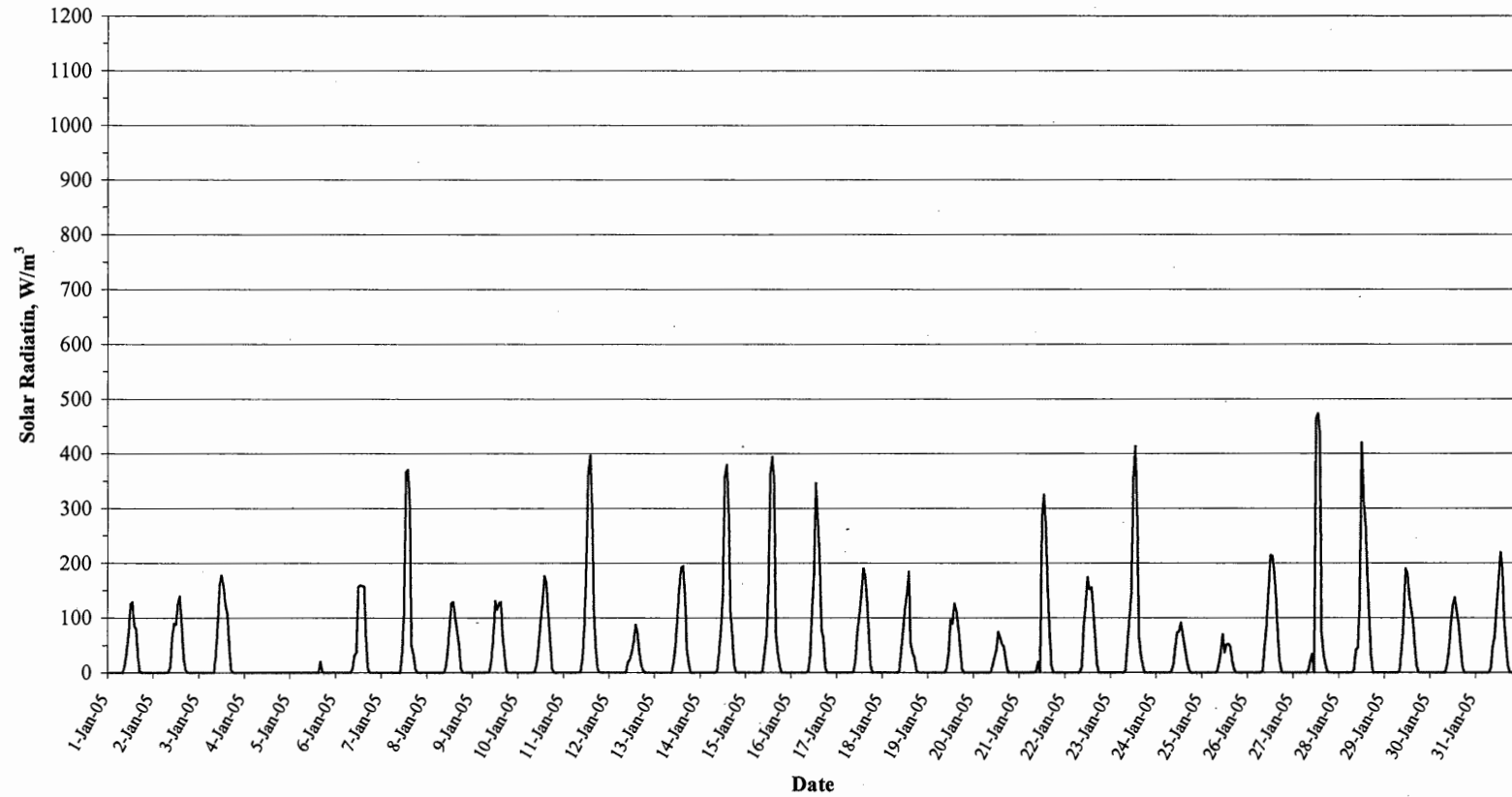
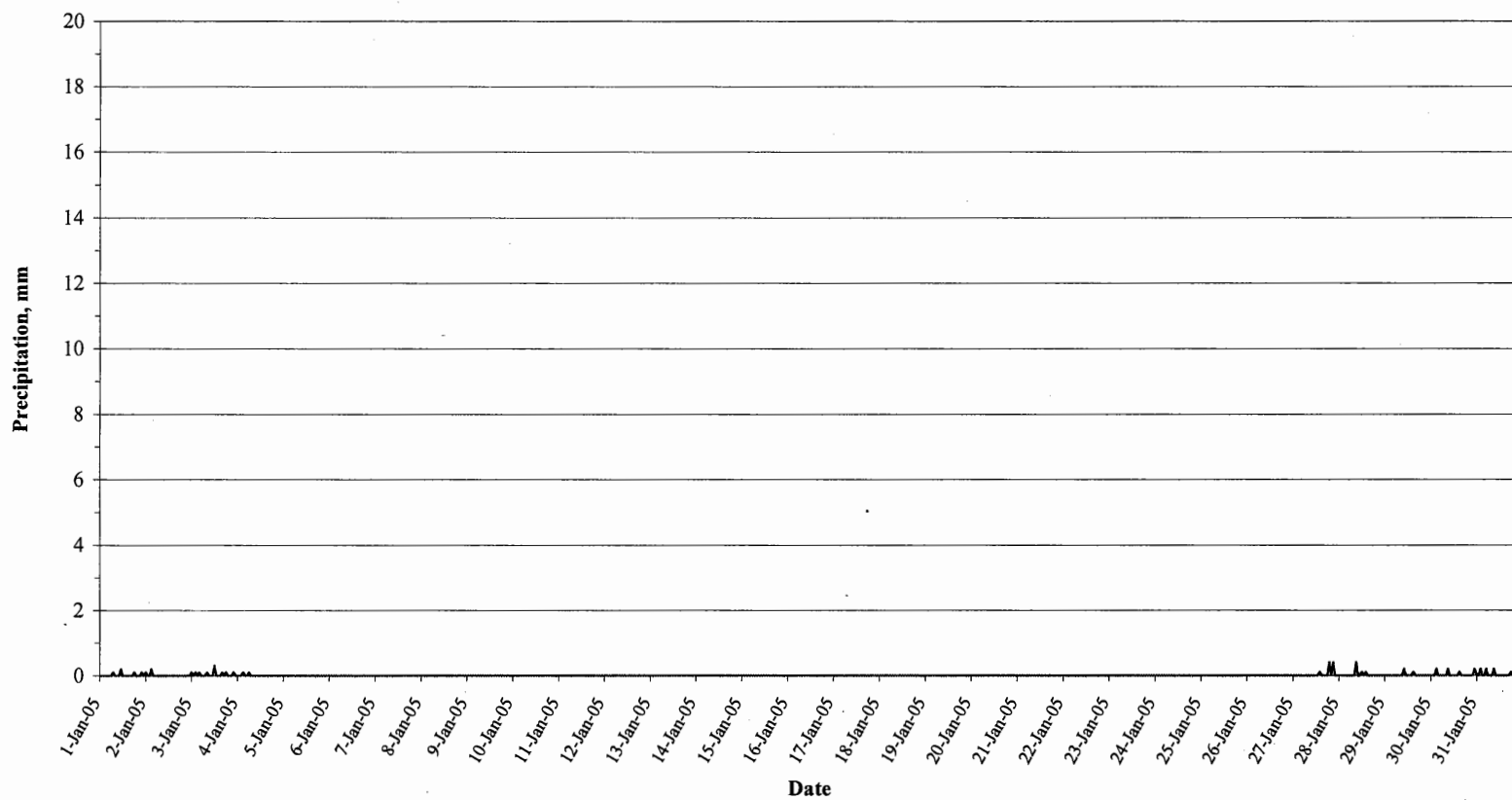


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
JANUARY 2005**



Appendix I

February 2005 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
February 2005**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	30	µg/m ³	2-Feb-05
Second Maximum 24-Hour (Daily) Concentration ² :	26	µg/m ³	5-Feb-05
Monthly Data Collection Efficiency:	100.0	%	
Monthly Arithmetic Average:	10	µg/m ³	
Reporting Period Arithmetic Average:	13	µg/m ³	
(June 2004 to February 2005)			

Meteorological Parameters

Prominent Monthly Wind Direction:	WNW
Average Wind Direction Horizontal Deviation:	20 degrees
Average Wind Speed:	2.9 m/s
Average Temperature:	-5.5 °C
Average Relative Humidity:	81 %
Average Solar Radiation:	72 W/m ²
Total Rain Fall:	51.7 mm
Monthly Data Collection Efficiency:	100.0 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 µg/m ³ :	20.1 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 µg/m ³ :	25.2 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PM₁₀ (µg/m³)
(One Hour Averages)

February 2005

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
1	27	30	20	18	20	24	22	19	18	22	17	16	12	11	11	17	20	15	19	27	26	16	22	18	19	30	24
2	11	10	19	28	32	37	32	40	54	51	50	34	29	26	24	25	21	25	19	32	31	29	32	31	30	54	24
3	27	29	32	27	33	33	39	38	39	33	29	17	17	13	12	12	8	6	9	18	21	12	11	9	22	39	24
4	9	10	9	17	11	17	19	12	19	20	21	22	14	12	8	8	9	10	21	24	28	23	22	15	16	28	24
5	20	22	19	33	35	44	50	46	48	46	40	25	13	14	13	11	9	7	10	18	18	28	27	37	26	50	24
6	32	32	30	30	32	30	33	28	28	25	25	17	20	18	24	25	20	19	16	10	6	2	7	10	22	33	24
7	7	6	7	8	10	6	7	7	5	5	4	0	0	5	3	2	5	9	6	4	7	7	7	7	6	10	24
8	5	4	3	3	7	4	1	5	7	6	3	4	2	2	4	2	3	5	7	9	10	9	7	4	5	10	24
9	5	6	7	9	5	4	3	2	3	6	5	3	3	4	3	1	1	4	7	9	8	5	1	4	5	9	24
10	6	6	6	6	6	5	7	9	9	11	11	2	0	0	1	1	2	0	1	8	12	9	4	5	5	12	24
11	9	9	7	7	9	13	16	21	13	11	9	7	4	5	4	0	0	0	2	5	7	4	2	6	7	21	24
12	10	10	9	9	11	10	5	5	8	7	4	4	1	0	0	0	0	0	5	10	11	11	12	11	6	12	24
13	10	11	9	6	4	3	6	6	4	5	6	5	2	0	0	0	2	6	8	9	11	11	10	8	6	11	24
14	10	12	6	3	4	5	7	7	4	3	2	2	2	2	3	5	7	6	5	5	9	11	9	8	6	12	24
15	16	19	12	13	11	10	8	7	10	11	10	11	12	11	12	11	8	8	10	10	12	10	9	11	11	19	24
16	8	8	9	8	10	9	8	12	13	9	5	0	0	0	0	0	2	1	16	14	14	13	12	11	8	16	24
17	10	6	5	21	10	11	12	11	10	15	3	4	8	8	5	4	2	6	11	11	11	8	9	9	9	21	24
18	10	10	6	7	7	2	5	9	10	7	7	5	1	0	0	0	0	1	2	7	10	10	11	11	6	11	24
19	7	6	11	12	17	9	11	11	9	8	9	7	6	2	2	5	5	2	0	6	21	16	21	21	9	21	24
20	12	10	4	3	6	3	0	3	6	8	5	3	3	3	3	3	2	3	3	4	5	6	9	8	5	12	24
21	8	9	9	12	10	5	5	6	6	5	6	7	9	9	8	7	8	10	11	13	15	8	8	10	9	15	24
22	11	5	4	7	7	6	6	5	2	1	2	3	1	0	0	4	5	6	5	7	11	11	9	10	5	11	24
23	6	4	7	10	11	5	3	9	7	5	6	3	0	0	0	2	5	4	5	8	11	13	9	17	6	17	24
24	10	7	7	7	7	4	4	8	8	7	5	5	3	0	0	0	1	2	5	8	10	10	9	11	6	11	24
25	10	11	10	8	17	20	19	17	16	2	3	1	0	2	2	5	4	4	7	8	7	5	5	8	8	20	24
26	8	10	11	8	6	4	4	9	12	10	4	0	0	0	0	0	0	2	7	8	8	10	8	9	6	12	24
27	12	13	10	5	5	5	9	19	7	11	13	11	8	2	1	2	3	5	8	8	10	11	10	10	8	19	24
28	8	8	8	9	9	9	8	8	10	15	10	9	7	9	11	10	10	10	10	10	9	7	7	8	9	15	24

Hour Avg.:

Hour Max.: 32 32 32 33 35 44 50 46 54 51 50 34 29 26 24 25 21 25 21 32 31 29 32 37

Readings 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28

Monthly Avg.: 10.2 µg/m³ Standard Deviation: 9.0

Data Capture: 100.0 %

Total Valid Hours = 672

System Codes:

NA - Not Available = 0
 RNG - Range = 0
 Cal - Calibration = 0
 MISS - Data Not Collected = 0

AUD - Audit = 0
 M&R - Maintenance & Repair = 0
 MCAL - Manual Calibration = 0
 PF - Power Fail = 0

ACAL - Auto Cal = 0
 INOP - InOperative = 0
 LF - Low Flow = 0

**Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)**

February 2005																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	246	250	264	268	262	259	256	254	254	247	238	232	229	239	225	217	219	219	212	213	227	227	242	245	24
2	229	219	206	211	212	215	207	209	201	201	202	207	211	216	226	222	215	214	207	209	211	214	220	221	24
3	218	218	216	224	225	231	247	266	266	263	271	280	291	294	295	315	320	319	306	274	191	193	172	152	24
4	197	202	178	190	210	206	201	201	200	203	211	224	219	242	256	14	34	31	40	145	295	53	111	173	24
5	123	158	158	141	140	105	141	141	178	203	206	207	206	201	200	192	191	183	183	187	191	194	196	199	24
6	202	202	202	204	209	207	211	221	206	222	210	216	211	206	216	210	210	267	332	306	302	294	285	280	24
7	282	299	356	357	349	357	352	13	21	15	10	10	12	19	13	6	359	353	353	1	346	340	348	341	24
8	346	347	348	347	350	355	351	348	353	350	2	6	10	17	14	21	11	9	6	15	23	36	41	31	24
9	39	37	51	47	31	27	33	40	31	33	46	49	61	54	40	39	37	37	31	14	360	2	346	323	24
10	295	312	311	325	322	331	328	305	276	248	281	4	283	279	300	225	208	200	202	192	212	223	228	231	24
11	239	236	232	238	255	270	274	278	288	290	289	286	287	280	270	268	272	275	243	237	247	279	322	329	24
12	330	325	332	310	296	299	310	301	214	284	317	318	322	329	349	22	25	24	46	50	63	102	89	138	24
13	151	132	143	149	160	146	124	146	146	164	168	165	152	154	157	148	137	141	145	146	144	142	139	131	24
14	131	127	123	127	121	121	120	60	342	290	286	289	282	287	288	282	283	270	269	270	267	265	269	279	24
15	274	268	270	272	278	278	277	279	280	285	293	289	283	285	293	297	293	291	297	285	257	267	268	247	24
16	218	258	275	191	179	221	179	208	202	228	223	260	239	259	293	290	302	298	281	268	263	303	322	325	24
17	316	304	344	336	329	321	320	324	316	308	312	311	306	302	302	310	318	317	317	321	332	329	333	346	24
18	346	339	333	326	315	290	280	277	263	254	253	256	262	231	237	234	235	237	234	236	241	235	250	253	24
19	263	270	278	285	299	331	330	329	315	311	323	324	329	313	305	295	314	336	359	328	239	191	178	194	24
20	201	175	143	148	160	164	151	150	146	151	139	132	130	128	110	113	110	108	143	141	-148	177	198	199	24
21	210	225	272	282	289	295	293	304	324	332	318	284	285	287	283	280	282	279	280	276	279	282	275	284	24
22	300	305	303	306	301	292	317	313	313	308	321	328	336	332	345	339	349	1	320	262	270	279	281	270	24
23	222	233	192	175	174	186	230	191	173	214	227	252	280	287	328	302	329	317	301	273	254	240	223	220	24
24	197	217	260	210	219	256	279	205	173	201	265	4	271	296	293	301	330	10	46	109	137	167	177	185	24
25	170	168	237	262	236	222	192	247	281	255	295	336	11	8	11	9	1	1	354	340	331	321	309	276	24
26	293	297	309	301	316	305	300	286	240	188	12	16	5	50	111	64	90	107	115	128	128	144	152	152	24
27	170	175	162	148	161	163	163	159	162	164	170	166	162	157	157	159	161	154	154	158	153	177	190	195	24
28	201	209	316	23	319	341	13	48	52	47	48	42	34	30	24	13	10	3	3	4	11	23	20	22	24
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	

Data Capture: 100.0 %

Total Valid Hours = 672

System Codes:		Hours	System Codes:		Hours	System Codes:		Hours
NA	- Not Available =	0	AUD	- Audit =	0	ACAL	- Auto Cal =	0
RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0
Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	0
MISS	- Data Not Collected =	0						

**Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)**

		February 2005																						Daily Avg.	Total Readings				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
1	19	17	16	19	19	15	15	17	16	19	18	19	23	27	21	18	20	19	13	11	14	13	16	15	17	24			
2	17	13	13	13	13	13	14	14	13	12	12	17	18	18	19	18	18	17	15	14	15	16	18	19	15	24			
3	19	20	19	20	18	20	17	21	19	18	18	18	24	22	26	25	25	25	24	72	46	55	19	16	25	24			
4	10	17	11	14	17	14	14	12	15	16	15	17	17	23	35	82	16	11	10	55	67	86	42	20	27	24			
5	30	41	13	13	13	28	31	44	28	11	11	16	15	16	16	16	16	14	15	18	22	27	30	30	21	24			
6	26	21	24	21	19	20	21	20	19	20	18	19	22	18	17	14	18	56	31	23	24	20	19	15	22	24			
7	18	23	16	16	15	14	13	17	13	13	13	14	15	13	16	13	16	14	13	14	14	16	14	15	15	24			
8	13	13	13	13	14	12	12	13	14	14	14	13	14	13	13	13	13	12	14	12	14	18	17	15	14	24			
9	19	22	18	17	22	10	17	13	15	12	20	19	25	21	16	18	19	14	12	15	13	18	20	18	17	24			
10	16	25	23	19	20	18	19	21	13	20	21	0	19	30	32	30	18	18	18	10	13	14	16	16	19	24			
11	15	14	15	16	20	19	18	17	20	21	21	20	20	20	20	18	18	19	20	16	15	19	27	22	19	24			
12	21	21	20	23	24	22	27	33	25	29	30	29	33	34	39	15	17	19	17	13	20	42	42	28	26	24			
13	15	21	14	16	10	16	20	17	19	14	14	13	16	14	15	14	14	13	12	12	13	13	13	12	15	24			
14	14	12	15	13	15	15	14	37	23	14	16	20	17	22	21	19	20	18	17	20	20	20	21	20	18	24			
15	21	22	18	20	21	20	21	21	20	21	23	21	17	19	23	23	24	20	24	20	24	15	15	29	21	24			
16	15	15	12	37	14	39	19	10	24	28	24	28	22	28	28	28	25	22	18	17	15	26	23	23	23	24			
17	25	23	21	18	21	23	24	23	24	26	26	24	25	26	26	26	26	24	23	24	19	21	20	15	23	24			
18	15	18	20	20	25	18	16	16	26	15	20	19	19	21	22	24	20	17	15	13	14	14	13	13	18	24			
19	17	17	18	20	24	21	20	20	25	23	24	28	25	29	28	25	30	26	26	86	15	19	31	33	26	24			
20	18	55	23	18	9	11	14	13	13	14	14	13	12	13	18	18	18	22	12	14	18	20	16	14	17	24			
21	14	18	24	20	20	22	22	24	23	20	26	18	19	20	21	18	18	18	16	16	18	15	17	17	19	24			
22	24	21	22	20	22	21	19	20	23	24	29	26	22	26	20	24	17	20	23	12	13	11	13	40	21	24			
23	31	51	51	12	18	15	24	10	13	14	16	25	20	34	29	29	29	29	21	39	53	25	24	27	27	24			
24	50	18	20	26	22	16	11	50	7	34	46	0	38	31	34	60	33	16	38	15	15	23	14	12	26	24			
25	23	23	26	10	23	12	7	26	9	21	24	22	16	15	13	16	16	13	13	15	17	20	31	13	18	24			
26	17	19	20	19	21	31	14	9	71	48	28	28	23	54	55	21	28	20	16	13	10	11	10	11	25	24			
27	13	11	14	16	14	14	16	16	17	17	17	17	20	17	15	14	16	21	17	17	21	14	12	23	16	24			
28	12	10	79	13	65	37	8	17	16	14	16	16	15	13	13	12	12	13	12	13	12	13	12	12	19	24			
Hour Avg.:	19.5	21.5	21.4	17.9	19.9	19.1	17.4	20.4	20.1	19.7	20.5	18.5	20.4	22.8	23.3	23.3	20.0	19.6	18.0	22.1	20.5	22.3	20.2	19.4					
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28					
Monthly Avg.:	20 °	Standard Deviation:					10.0	Data Capture:					100.0 %	Hours					Hours					Total Valid Hours =					672
System Codes:	NA	- Not Available =					0	AUD					- Audit =					0	ACAL					- Auto Cal =					0
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					0
	MISS	- Data Not Collected =					0																						

WIND SPEED - m/s
(One Hour Averages)

February 2005																									Daily Avg.	Daily Max.	Total Readings											
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23														
1	1.2	1.6	2.6	2.0	2.2	2.0	2.1	2.3	2.4	2.3	2.5	3.3	3.1	3.2	2.9	3.4	3.5	3.5	2.0	1.8	1.6	2.2	3.4	3.7	2.5	3.7	24											
2	2.7	2.9	3.4	3.3	2.8	3.1	3.0	3.5	3.8	4.2	4.0	4.4	5.2	5.6	5.0	4.6	4.8	3.7	3.7	4.7	5.5	6.6	6.0	6.6	4.3	6.6	24											
3	6.2	7.3	7.1	5.9	6.1	5.7	5.0	6.0	4.6	5.7	4.9	4.6	3.4	3.4	3.4	3.2	2.8	2.2	1.1	0.7	0.5	0.8	0.9	1.4	3.9	7.3	24											
4	2.6	2.5	4.9	4.5	4.0	3.5	4.3	4.4	5.7	5.9	5.5	4.5	3.9	3.5	1.9	2.5	3.1	2.2	1.5	0.4	0.2	0.9	0.8	0.9	3.1	5.9	24											
5	1.5	1.3	1.5	1.5	1.7	1.1	0.9	0.8	1.3	4.2	4.6	3.5	5.0	6.1	6.0	5.2	6.1	4.7	4.9	6.5	8.3	10.3	11.6	10.8	4.6	11.6	24											
6	9.2	7.8	8.1	7.9	7.1	7.0	5.3	3.5	3.1	3.3	3.0	2.7	2.9	4.0	3.7	2.7	2.6	1.6	2.0	1.3	1.9	2.8	3.0	2.8	4.1	9.2	24											
7	2.3	1.8	3.0	2.6	2.8	2.9	3.5	3.5	4.1	4.3	4.3	4.4	4.3	5.0	4.5	4.3	3.9	4.2	4.2	3.9	3.8	3.1	3.6	3.0	3.6	5.0	24											
8	3.3	3.1	3.8	3.5	3.3	3.9	3.8	3.6	3.6	3.8	4.7	4.7	4.5	4.4	4.4	3.9	4.5	3.6	3.7	3.1	2.3	1.8	1.7	0.8	3.5	4.7	24											
9	0.7	1.2	1.7	1.7	1.5	1.5	1.3	1.4	1.5	1.6	2.0	2.1	2.0	2.0	2.7	2.2	2.4	2.2	1.5	1.4	1.4	1.2	1.0	1.2	1.6	2.7	24											
10	1.0	1.0	1.3	1.4	1.7	2.3	1.8	1.0	1.1	0.6	1.7	0.0	2.5	2.0	1.4	2.1	2.7	1.7	1.6	2.5	3.1	3.5	3.5	3.9	1.9	3.9	24											
11	3.6	3.0	2.5	2.0	2.6	3.5	3.7	3.4	4.3	3.3	3.8	4.2	4.2	3.9	4.5	4.3	4.1	2.9	2.7	2.1	1.6	3.0	3.8	3.1	3.3	4.5	24											
12	3.0	2.8	3.1	1.9	1.5	1.9	1.3	1.5	0.8	1.5	2.1	2.3	2.2	2.6	3.0	3.5	3.3	2.8	1.8	0.9	0.7	0.7	0.9	1.3	2.0	3.5	24											
13	0.9	1.5	1.8	2.1	2.8	3.0	2.2	3.6	3.5	5.7	5.3	5.4	5.2	5.7	6.1	5.1	4.8	4.4	4.3	4.9	4.4	4.2	4.3	4.2	4.0	6.1	24											
14	4.0	3.6	3.2	3.4	1.9	2.2	1.5	0.7	0.6	1.1	1.7	1.9	2.7	4.2	4.2	3.8	4.4	4.1	4.8	5.5	6.1	6.6	6.6	6.5	3.6	6.6	24											
15	6.5	6.4	5.9	6.6	7.0	6.4	6.5	6.2	6.1	4.6	4.7	4.5	4.6	3.9	3.0	3.3	3.1	2.8	1.9	1.8	1.3	1.9	1.5	0.9	4.2	7.0	24											
16	0.9	1.2	1.1	0.6	0.3	0.4	0.4	0.3	0.1	0.4	1.2	3.0	2.9	2.8	2.8	2.8	2.6	3.2	4.2	4.1	4.0	3.7	3.4	2.8	2.1	4.2	24											
17	2.5	1.9	4.6	3.5	2.7	2.8	2.4	3.2	2.8	2.9	3.0	3.3	3.4	3.5	3.3	3.3	3.6	3.2	3.4	2.7	3.3	2.7	2.5	4.0	3.1	4.6	24											
18	4.1	2.9	2.4	1.9	1.3	2.1	2.1	2.2	1.3	2.2	2.2	3.0	3.6	3.5	3.6	3.6	3.7	3.6	2.5	1.5	1.6	2.8	3.7	3.6	2.7	4.1	24											
19	3.4	3.8	2.8	2.5	2.5	2.9	3.1	2.8	2.2	2.7	3.5	3.3	3.1	2.7	3.0	3.0	2.4	1.8	1.0	0.5	0.0	0.3	0.3	0.5	2.3	3.8	24											
20	0.4	0.5	1.4	2.0	2.5	2.9	4.4	5.1	4.9	6.3	5.8	5.9	5.6	4.6	2.7	2.2	2.2	2.2	3.6	3.2	2.6	3.7	4.1	3.9	3.4	6.3	24											
21	3.5	2.5	3.2	3.5	3.2	3.2	2.8	2.3	2.5	2.5	2.0	3.4	3.8	4.0	4.0	4.0	4.4	3.7	3.0	2.8	2.4	2.2	1.6	1.7	3.0	4.4	24											
22	1.6	1.3	1.1	0.9	0.7	1.0	1.0	1.1	1.1	1.2	1.9	2.1	2.7	2.6	2.8	2.6	3.0	2.8	1.4	0.2	0.6	0.6	1.0	0.7	1.5	3.0	24											
23	0.5	0.7	0.5	0.6	0.5	0.5	0.6	0.7	0.6	1.2	2.5	2.7	3.1	2.7	2.2	1.7	1.9	1.3	1.1	0.6	0.3	0.3	0.1	0.4	1.1	3.1	24											
24	0.5	0.4	0.2	0.1	0.1	0.2	0.7	0.6	0.5	0.2	0.8	0.0	2.6	2.2	2.1	2.0	1.9	2.2	0.9	0.9	1.0	0.8	1.0	0.6	0.9	2.6	24											
25	0.5	0.4	0.6	0.4	0.2	0.1	0.4	0.3	0.7	0.6	1.8	3.3	4.6	4.4	4.6	4.3	4.3	4.2	3.3	2.1	2.0	1.7	1.4	1.4	2.0	4.6	24											
26	1.5	1.6	1.8	1.4	1.4	0.7	1.1	1.0	0.6	0.3	2.2	2.2	2.5	1.4	1.3	2.7	2.5	2.8	2.7	2.9	2.8	2.9	3.6	3.2	2.0	3.6	24											
27	3.8	4.3	3.5	3.6	4.5	5.3	5.8	5.2	6.2	5.6	6.4	5.0	4.3	4.3	4.1	3.6	3.5	2.6	2.6	1.9	1.6	2.4	2.2	1.4	3.9	6.4	24											
28	1.2	0.8	0.6	0.9	0.3	0.6	1.7	2.6	2.9	3.4	3.7	4.4	4.9	4.7	4.7	5.6	5.4	4.8	3.8	4.4	5.3	5.5	5.8	5.2	3.5	5.8	24											
Hour Avg.:	2.6	2.5	2.8	2.6	2.5	2.6	2.6	2.6	2.6	2.9	3.3	3.4	3.7	3.7	3.5	3.4	3.5	3.0	2.7	2.5	2.5	2.8	3.0	2.9														
Hour Max.:	9.2	7.8	8.1	7.9	7.1	7.0	6.5	6.2	6.2	6.3	6.4	5.9	5.6	6.1	6.1	5.6	6.1	4.8	4.9	6.5	8.3	10.3	11.6	10.8														
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28														
Monthly Avg.:	2.9 m/s		Standard Deviation:				1.7		Data Capture:										100.0 %										Total Valid Hours =				672					
System Codes:	NA - Not Available =		0		AUD - Audit =		0		ACAL - Auto Cal =		0		RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0		Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0			
	MISS - Data Not Collected =		0																																			

Table 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

February 2005																																	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings						
	1	-1.0	-0.9	-0.9	-0.9	-1.0	-0.9	-0.8	-0.8	-0.9	-0.8	-0.6	-0.5	-0.3	-0.3	0.0	0.4	0.8	0.7	-0.3	-0.7	-1.0	-1.4	-0.6	-0.1	-0.5	0.8	24					
2	-0.2	-0.5	-1.5	-1.9	-1.5	-1.1	-1.1	-1.1	-1.1	-1.1	-0.8	0.0	1.9	1.9	2.3	2.9	3.7	4.3	4.0	2.8	2.2	1.8	1.4	1.4	1.4	0.9	4.3	24					
3	1.5	1.6	2.0	2.2	1.9	1.7	2.0	2.8	2.3	2.6	3.5	4.6	5.4	6.2	6.6	6.2	4.8	3.1	1.3	-0.1	-2.0	-2.9	-3.6	-2.2	2.1	6.6	24						
4	-1.2	-0.9	-0.6	0.5	0.9	0.9	1.9	1.9	1.8	1.8	2.8	5.5	7.7	10.2	12.2	12.0	8.8	6.6	4.7	2.4	0.5	-0.3	-0.8	-1.6	3.2	12.2	24						
5	-0.7	-0.4	0.5	1.0	1.4	1.3	0.5	-2.0	-1.4	2.1	4.0	6.4	9.7	10.7	10.7	11.0	10.8	10.0	8.5	7.2	6.4	6.3	6.1	6.2	4.8	11.0	24						
6	6.2	5.7	5.7	5.6	5.5	5.1	3.9	4.0	4.1	4.3	4.8	5.2	5.7	5.2	5.5	5.4	5.2	4.6	0.9	0.2	-0.9	-1.7	-2.4	-2.8	3.5	6.2	24						
7	-3.0	-3.0	-3.6	-4.1	-4.1	-4.2	-4.2	-4.3	-4.8	-5.2	-5.5	-5.8	-6.1	-6.6	-7.1	-7.4	-7.6	-8.0	-8.4	-8.8	-9.0	-9.2	-9.3	-9.5	-6.2	-3.0	24						
8	-9.7	-9.7	-9.8	-9.9	-10.0	-10.1	-10.2	-10.4	-10.4	-10.0	-9.4	-9.2	-8.8	-8.5	-8.5	-8.4	-8.7	-8.9	-9.2	-9.1	-8.9	-9.0	-9.0	-8.9	-9.4	-8.4	24						
9	-8.8	-8.6	-8.5	-8.5	-8.6	-8.6	-8.7	-8.8	-8.8	-8.2	-7.6	-7.5	-7.4	-7.2	-7.1	-7.1	-7.1	-7.5	-7.8	-7.9	-8.1	-8.1	-8.2	-8.4	-8.0	-7.1	24						
10	-8.9	-8.6	-8.5	-8.5	-8.1	-7.8	-8.0	-9.2	-10.3	-9.0	-6.5	0.0	-4.4	-3.5	-2.5	-1.2	-1.1	-1.7	-2.6	-3.5	-4.2	-4.4	-4.8	-5.4	-5.5	0.0	24						
11	-5.6	-5.9	-6.1	-5.8	-5.1	-4.4	-4.1	-3.7	-3.5	-3.4	-2.5	-1.5	-0.6	0.6	2.2	3.5	3.7	3.2	3.0	2.7	2.6	3.3	2.6	0.9	-1.0	3.7	24						
12	0.1	-0.5	-1.1	-1.9	-2.7	-2.7	-3.0	-3.1	-4.8	-2.7	-1.6	-1.3	-0.6	0.1	0.6	-0.3	-1.0	-2.2	-3.8	-4.9	-5.7	-6.8	-7.0	-7.8	-2.7	0.6	24						
13	-8.3	-8.4	-8.4	-8.5	-7.9	-7.0	-6.9	-6.7	-6.4	-5.8	-4.3	-2.4	-1.0	0.4	1.1	1.3	1.5	0.7	-0.7	-2.0	-2.5	-2.4	-2.8	-3.3	-3.8	1.5	24						
14	-3.9	-4.4	-4.4	-4.6	-4.9	-5.1	-5.1	-5.0	-4.8	-4.5	-3.8	-3.1	-2.4	-1.9	-1.9	-1.6	-1.4	-1.0	-0.5	0.2	0.7	1.3	1.7	0.7	-2.5	1.7	24						
15	-0.1	-0.3	-0.7	-1.1	-1.5	-2.0	-2.4	-3.1	-3.3	-3.8	-4.8	-5.4	-5.4	-5.6	-5.7	-5.8	-6.3	-6.4	-7.3	-8.2	-9.0	-9.3	-9.3	-9.2	-4.8	-0.1	24						
16	-9.5	-9.0	-8.5	-10.1	-11.5	-11.8	-14.7	-15.9	-15.3	-11.6	-8.0	-5.7	-4.7	-3.3	-2.9	-2.8	-3.5	-4.9	-6.9	-7.6	-8.2	-8.3	-9.2	-10.0	-8.5	-2.8	24						
17	-10.6	-11.3	-12.1	-13.3	-14.1	-14.7	-15.4	-15.6	-15.8	-15.7	-15.1	-14.6	-14.3	-14.1	-13.9	-14.1	-14.3	-14.2	-14.3	-14.3	-14.2	-14.2	-13.9	-13.6	-14.1	-10.6	24						
18	-13.7	-13.9	-14.0	-14.0	-14.1	-14.2	-14.4	-14.4	-14.4	-13.9	-13.0	-12.5	-11.8	-10.9	-10.4	-9.6	-9.1	-9.0	-10.0	-11.3	-12.5	-12.8	-12.5	-11.9	-12.4	-9.0	24						
19	-10.8	-10.7	-10.7	-10.7	-10.7	-10.9	-11.4	-11.9	-12.4	-12.3	-11.7	-11.3	-11.1	-10.5	-9.8	-9.5	-9.4	-9.7	-11.1	-13.9	-16.9	-19.0	-20.6	-20.7	-12.4	-9.4	24						
20	-20.7	-21.1	-18.0	-14.9	-13.4	-12.5	-11.6	-11.2	-10.7	-9.7	-9.0	-8.5	-8.4	-8.1	-7.9	-7.3	-7.2	-7.2	-6.9	-6.3	-6.0	-5.2	-4.7	-4.6	-10.0	-4.6	24						
21	-4.4	-4.2	-4.0	-4.4	-4.4	-4.3	-4.4	-4.4	-4.6	-5.1	-5.2	-5.4	-5.0	-4.6	-4.6	-5.3	-5.9	-6.4	-6.8	-7.1	-7.3	-7.3	-7.4	-7.2	-5.4	-4.0	24						
22	-7.3	-7.4	-7.5	-7.6	-7.8	-7.8	-8.0	-8.3	-8.3	-7.7	-7.1	-6.9	-6.6	-6.3	-6.5	-6.4	-6.5	-6.6	-7.6	-9.6	-11.0	-12.7	-12.9	-13.2	-8.2	-6.3	24						
23	-15.3	-15.0	-16.8	-17.4	-16.4	-16.9	-15.6	-12.9	-11.3	-9.6	-7.3	-6.0	-5.4	-5.0	-5.3	-5.5	-5.5	-6.0	-7.1	-8.7	-10.3	-12.5	-13.6	-14.9	-10.8	-5.0	24						
24	-15.6	-14.9	-13.7	-16.1	-13.7	-13.8	-12.2	-15.5	-15.3	-11.4	-6.8	0.0	-4.8	-3.8	-3.6	-3.2	-4.0	-5.2	-5.9	-6.5	-7.4	-8.1	-8.1	-8.3	-9.1	0.0	24						
25	-8.4	-8.4	-8.8	-9.8	-12.3	-13.9	-15.7	-15.1	-11.9	-9.5	-5.5	-5.8	-6.6	-7.2	-7.2	-7.7	-8.3	-8.8	-9.4	-9.7	-10.0	-10.3	-11.0	-12.8	-9.8	-5.5	24						
26	-12.8	-12.1	-11.8	-12.0	-11.8	-12.5	-13.3	-14.7	-14.6	-11.3	-9.0	-8.5	-8.5	-7.4	-6.3	-7.5	-7.6	-8.2	-8.8	-9.6	-9.9	-9.7	-9.5	-9.5	-10.3	-6.3	24						
27	-9.6	-9.5	-9.4	-9.5	-9.7	-9.3	-9.2	-8.9	-8.6	-8.2	-7.6	-7.0	-6.1	-5.7	-5.3	-5.0	-4.8	-5.0	-5.1	-5.2	-5.1	-5.0	-4.9	-4.8	-7.0	-4.8	24						
28	-4.8	-4.8	-4.8	-5.1	-5.2	-5.3	-5.3	-5.0	-5.0	-5.0	-4.7	-5.1	-5.3	-5.5	-5.6	-6.0	-6.3	-6.9	-6.9	-6.7	-6.5	-6.5	-6.9	-7.3	-5.7	-4.7	24						
Hour Avg.:	-6.7	-6.7	-6.6	-6.8	-6.8	-6.9	-7.1	-7.3	-7.2	-6.2	-5.1	-3.9	-3.8	-3.2	-2.9	-2.8	-3.1	-3.6	-4.5	-5.2	-5.9	-6.2	-6.5	-6.7									
Hour Max.:	6.2	5.7	5.7	5.6	5.5	5.1	3.9	4.0	4.1	4.3	4.8	6.4	9.7	10.7	12.2	12.0	10.8	10.0	8.5	7.2	6.4	6.3	6.1	6.2									
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28									
Monthly Avg.:	-5.5 °C		Standard Deviation:				5.9		Data Capture:				100.0 %								Total Valid Hours =				672								
System Codes:																												Hours		Hours		Hours	
	NA	- Not Available =					0					AUD	- Audit =					0					ACAL	- Auto Cal =					0				
	RNG	- Range =					0					M&R	- Maintenance & Repair =					0					INOP	- InOperative =					0				
	Cal	- Calibration =					0					MCAL	- Manual Calibration =					0					PF	- Power Fail =					0				
	MISS	- Data Not Collected =					0																										

Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

February 2005

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings	
	1	85	84	83	83	83	82	81	81	81	81	79	78	77	78	77	76	73	73	78	81	82	84	80	79	80	85	24
2	80	81	86	87	85	85	87	88	89	88	84	72	69	67	65	62	59	60	66	69	72	74	76	76	76	89	24	
3	77	77	76	75	75	76	76	75	78	77	72	66	62	59	56	57	63	70	79	85	93	95	97	93	75	97	24	
4	88	90	90	86	84	83	76	77	77	77	73	61	54	45	38	40	51	61	70	80	86	91	93	98	74	98	24	
5	96	93	88	86	85	86	87	95	94	82	71	59	46	41	41	41	42	45	50	58	63	61	62	64	68	96	24	
6	65	68	68	69	69	74	88	87	85	83	81	79	77	83	82	84	86	92	98	99	98	98	96	96	84	99	24	
7	97	97	97	98	98	98	98	98	97	97	97	96	96	96	95	95	95	95	95	94	94	94	94	94	96	98	24	
8	93	93	93	93	93	93	93	93	93	93	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	24	
9	94	94	94	94	94	94	94	94	94	94	95	95	94	94	93	90	89	86	88	90	91	91	89	89	88	92	95	24
10	91	93	90	88	87	86	87	90	91	81	75	0	68	67	66	62	58	60	64	61	62	62	66	70	72	93	24	
11	78	84	86	87	90	92	93	92	90	86	87	83	77	70	61	53	51	52	55	58	57	53	58	71	74	93	24	
12	73	75	77	81	85	85	86	88	94	85	84	79	72	63	61	65	64	67	80	86	89	92	94	93	80	94	24	
13	93	91	88	88	88	82	79	80	83	83	74	57	50	43	42	44	43	48	58	67	68	67	73	83	70	93	24	
14	90	94	92	89	91	95	96	96	96	95	91	89	86	85	87	89	90	90	93	89	84	82	82	86	90	96	24	
15	81	75	75	77	79	83	83	82	81	81	80	80	78	81	84	79	81	75	77	80	84	87	88	89	81	89	24	
16	90	88	86	91	96	92	90	88	89	91	86	66	60	51	46	41	44	68	79	71	83	92	89	90	78	96	24	
17	86	89	91	90	89	88	87	87	86	82	81	82	79	73	72	73	71	74	79	80	82	84	83	83	82	91	24	
18	79	78	82	81	80	82	83	80	76	75	70	70	64	60	58	56	52	49	53	58	58	61	73	76	69	83	24	
19	78	82	86	88	89	90	90	89	86	82	73	67	63	56	45	43	42	46	56	70	82	86	87	87	73	90	24	
20	85	84	86	87	85	82	80	85	86	86	83	83	85	86	87	88	89	91	93	90	90	90	91	94	87	94	24	
21	94	94	93	94	92	92	93	94	93	92	90	88	85	77	70	78	76	80	85	87	88	88	88	90	88	94	24	
22	92	94	94	94	94	94	94	94	92	90	82	79	74	68	70	69	65	66	71	80	88	92	91	87	84	94	24	
23	89	90	89	88	89	88	90	91	92	89	80	75	68	63	72	76	74	78	80	89	94	92	90	89	84	94	24	
24	89	90	90	88	91	90	91	88	89	90	80	0	54	40	37	37	50	73	77	79	86	89	90	91	74	91	24	
25	91	89	91	93	94	90	89	89	91	87	79	82	89	88	85	85	84	77	76	77	77	80	83	89	86	94	24	
26	91	91	91	91	91	91	90	89	88	87	82	74	75	66	55	76	77	76	79	85	84	79	76	76	82	91	24	
27	75	72	74	77	83	86	91	92	92	92	91	91	86	87	86	88	84	85	89	91	94	95	95	95	87	95	24	
28	95	95	95	96	97	96	97	98	97	96	93	93	91	87	85	88	89	94	94	95	95	95	95	94	94	98	24	
Hour Avg.:	86.3	86.6	86.8	87.1	87.7	87.7	88.2	88.6	88.6	86.5	82.4	72.8	74.0	70.3	68.1	68.9	69.0	72.4	77.1	80.1	82.8	83.8	84.8	86.3				
Hour Max.:	97.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	97.0	97.0	97.0	96.0	96.0	96.0	95.0	95.0	95.0	95.0	98.0	99.0	98.0	98.0	97.0	98.0				
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28				
Monthly Avg.:	81 %	Standard Deviation:		14.0	Data Capture:		100.0 %	Total Valid Hours =		672																		
System Codes:	NA	- Not Available =	Hours		0	AUD	- Audit =	Hours		0	ACAL	- Auto Cal =	Hours		0													
	RNG	- Range =	0		M&R	- Maintenance & Repair =	0		INOP	- InOperative =	0																	
	Cal	- Calibration =	0		MCAL	- Manual Calibration =	0		PF	- Power Fail =	0																	
	MISS	- Data Not Collected =	0																									

February 2005

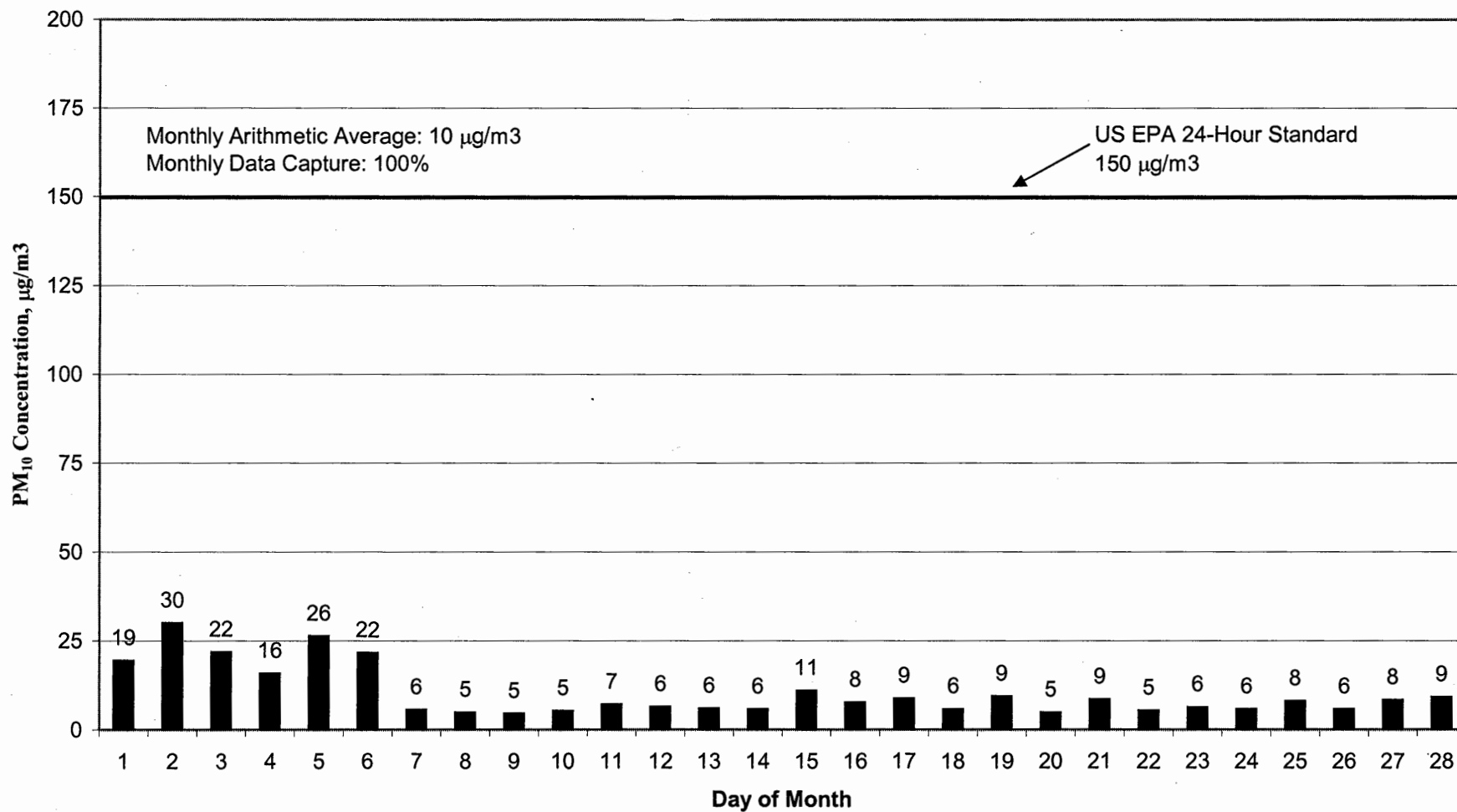
February 2005																										Daily Avg.	Daily Max.	Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	0	0	0	0	0	0	0	0	2	22	62	113	135	148	149	136	107	31	1	0	0	0	0	0	38	149	24	
2	0	0	0	0	0	0	0	0	3	34	97	135	450	464	414	253	66	26	1	0	0	0	0	0	81	464	24	
3	0	0	0	0	0	0	0	0	7	41	60	119	472	493	459	292	45	21	1	0	0	0	0	0	84	493	24	
4	0	0	0	0	0	0	0	0	6	59	108	179	308	513	472	326	51	26	2	0	0	0	0	0	85	513	24	
5	0	0	0	0	0	0	0	0	7	34	55	110	496	441	358	364	45	21	1	0	0	0	0	0	81	496	24	
6	0	0	0	0	0	0	0	0	4	41	86	110	133	148	98	65	38	17	0	0	0	0	0	0	31	148	24	
7	0	0	0	0	0	0	0	0	3	29	67	92	108	112	96	62	46	27	2	0	0	0	0	0	27	112	24	
8	0	0	0	0	0	0	0	0	4	48	97	141	169	185	179	136	71	34	2	0	0	0	0	0	44	185	24	
9	0	0	0	0	0	0	0	0	3	38	89	113	151	148	191	147	119	30	2	0	0	0	0	0	43	191	24	
10	0	0	0	0	0	0	0	0	9	30	47	0	445	531	488	414	124	47	4	0	0	0	0	0	89	531	24	
11	0	0	0	0	0	0	0	0	9	64	111	220	341	422	491	404	158	39	1	0	0	0	0	0	94	491	24	
12	0	0	0	0	0	0	0	0	11	38	112	185	362	550	521	421	159	32	7	0	0	0	0	0	100	550	24	
13	0	0	0	0	0	0	0	0	18	57	74	242	438	454	338	218	126	53	4	0	0	0	0	0	84	454	24	
14	0	0	0	0	0	0	0	0	2	18	61	57	81	103	150	89	85	51	3	0	0	0	0	0	29	150	24	
15	0	0	0	0	0	0	0	0	7	34	97	118	204	175	151	178	100	61	6	0	0	0	0	0	47	204	24	
16	0	0	0	0	0	0	0	0	21	88	174	380	393	538	426	349	129	58	7	0	0	0	0	0	107	538	24	
17	0	0	0	0	0	0	0	0	28	97	189	280	304	323	350	194	140	57	7	0	0	0	0	0	82	350	24	
18	0	0	0	0	0	0	0	0	30	124	182	217	304	356	365	313	195	53	11	0	0	0	0	0	90	365	24	
19	0	0	0	0	0	0	0	0	27	117	284	461	413	485	569	479	323	31	7	0	0	0	0	0	133	569	24	
20	0	0	0	0	0	0	0	0	14	60	122	163	102	81	105	111	68	27	6	0	0	0	0	0	36	163	24	
21	0	0	0	0	0	0	0	0	5	32	69	106	195	258	216	141	139	59	8	0	0	0	0	0	51	258	24	
22	0	0	0	0	0	0	0	0	14	58	129	199	258	271	208	198	158	90	12	0	0	0	0	0	66	271	24	
23	0	0	0	0	0	0	0	1	35	142	300	350	333	350	243	188	182	84	16	0	0	0	0	0	93	350	24	
24	0	0	0	0	0	0	0	0	42	154	345	0	477	651	508	453	225	88	13	0	0	0	0	0	123	651	24	
25	0	0	0	0	0	0	0	1	48	160	272	237	194	214	324	233	168	93	11	0	0	0	0	0	81	324	24	
26	0	0	0	0	0	0	0	1	20	168	378	271	226	255	408	313	236	112	25	0	0	0	0	0	101	408	24	
27	0	0	0	0	0	0	0	0	6	28	22	96	187	189	180	151	67	23	5	0	0	0	0	0	40	189	24	
28	0	0	0	0	0	0	0	0	9	57	151	150	203	183	226	223	139	60	15	0	0	0	0	0	59	226	24	
Hour Avg.:	0	0	0	0	0	0	0	0	14	67	137	173	282	323	310	245	125	48	6	0	0	0	0	0				
Hour Max.:	0	0	0	0	0	0	0	1	48	168	378	461	496	651	569	479	323	112	25	0	0	0	0	0				
Readings	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28				
Monthly Avg.:	72 W/m2		Standard Deviation: 127.9				Data Capture: 100.0 %																Total Valid Hours =		672			
System Codes:	NA - Not Available =		0		AUD - Audit =		0		ACAL - Auto Cal =		0																	
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																	
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																	
	MISS - Data Not Collected =		0																									

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
Rain Fall (mm)
(One Hour Averages)

February 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings						
DAY																																
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.2	0.3	22						
2	0.0	0.0	NA	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	22						
3	0.0	0.0	0.0	NA	0.1	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	NA	NA	0.1	0.0	0.3	20							
4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.0	0.3	22						
5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	NA	0.0	0.2	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.4	21						
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.2	NA	0.0	0.0	0.0	0.0	0.0	NA	0.9	NA	1.6	2.8	20						
7	0.3	0.4	0.6	0.2	0.0	0.0	0.3	0.0	0.0	0.8	0.0	0.8	0.9	0.3	0.0	NA	0.3	0.2	0.0	0.0	0.0	0.0	0.0	1.1	6.2	23						
8	0.0	0.0	0.0	0.1	0.0	0.3	0.3	0.2	0.0	0.3	0.8	0.1	0.0	0.0	0.0	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	2.9	24						
9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	NA	0.5	1.7	23						
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	24						
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24						
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.2	0.0	0.1	0.0	0.0	0.3	23						
13	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23						
14	0.0	0.0	0.0	0.0	0.0	0.3	1.3	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	4.4	24						
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.2	0.0	0.0	0.0	0.0	NA	0.3	0.0	0.0	0.0	0.0	0.5	22						
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.8	23						
17	0.0	0.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.0	0.0	0.0	NA	0.0	0.2	0.3	0.0	0.0	0.8	3.3	23						
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.2	0.0	0.0	NA	0.2	0.8	NA	0.0	0.0	0.2	0.3	1.7	21						
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	NA	0.2	0.0	0.3	1.0	23							
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.5	0.0	0.0	0.0	0.8	0.4	0.7	0.4	0.0	0.2	0.1	0.0	0.0	3.1	23						
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.8	24						
22	0.0	0.0	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.3	24						
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	24						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	5.6	0.1	0.0	0.0	0.0	0.0	NA	0.1	0.0	0.0	0.0	0.0	0.0	6.1	23						
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.1	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22						
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.2	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22						
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.0	24						
28	0.0	NA	0.2	0.3	0.0	0.5	0.0	0.3	0.0	0.1	0.3	1.6	NA	0.2	0.3	0.0	0.0	0.0	0.4	1.7	0.0	1.5	0.0	0.3	7.7	22						
Hour Avg.:	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.5	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2								
Hour Max.:	0.3	0.4	0.7	0.4	0.1	0.5	1.3	1.2	0.3	0.8	0.8	5.6	0.9	0.3	0.4	0.8	1.0	0.7	0.8	1.7	0.4	1.5	0.3	1.6								
Readings	28	27	27	27	28	28	27	27	26	26	26	25	24	28	27	26	27	25	26	27	24	25	26	28								
Monthly Total:	51.7 mm																							Data Capture: 94.5 %				Total Valid Hours =				635
System Codes:	NA - Not Available = 37																							AUD - Audit = 0				ACAL - Auto Cal = 0				
	RNG - Range = 0																							M&R - Maintenance & Repair = 0				INOP - InOperative = 0				
	Cal - Calibration = 0																							MCAL - Manual Calibration = 0				PF - Power Fail = 0				
	MISS - Data Not Collected = 0																															

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
February 2005



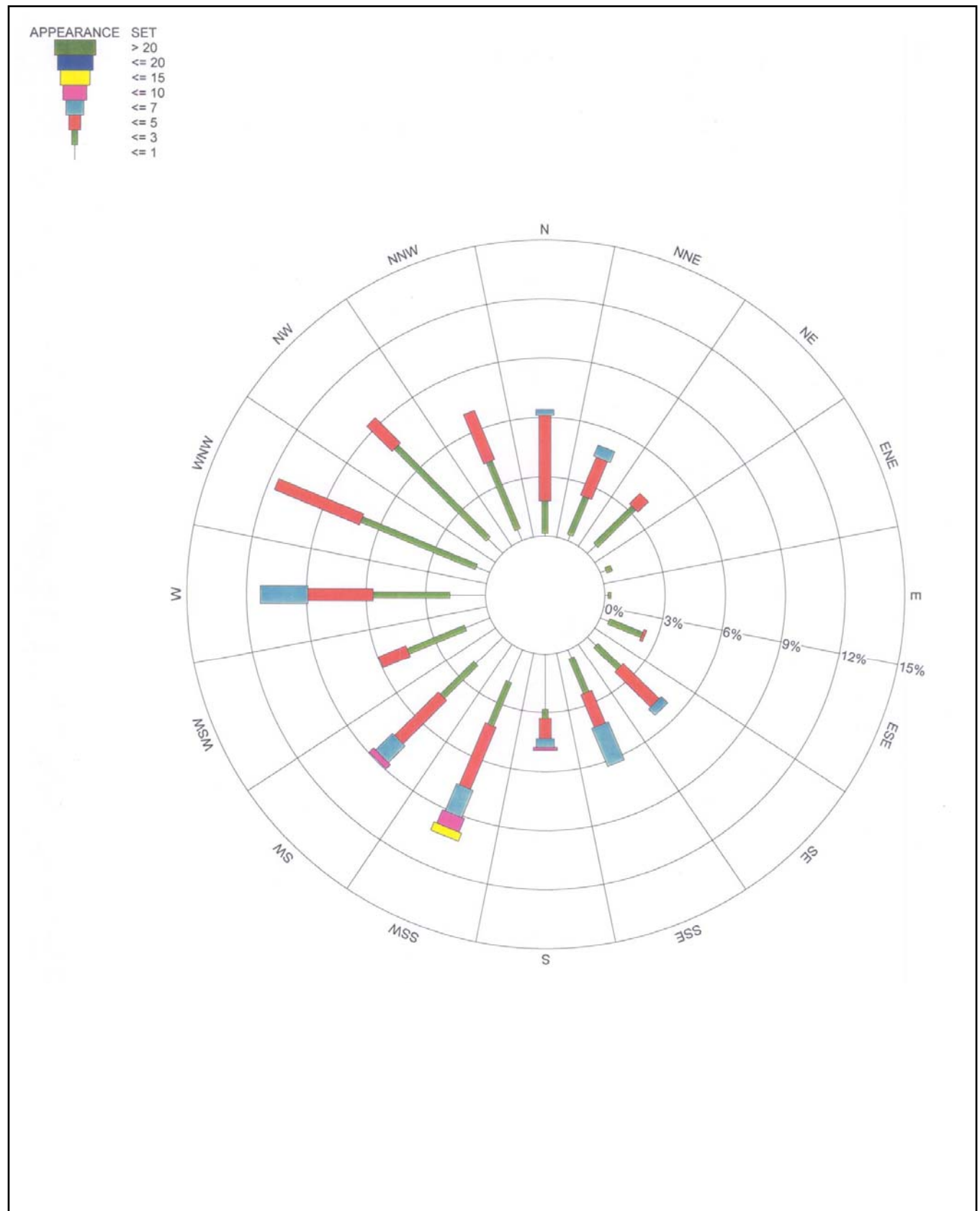


Figure 2
Wind Speed, 1-Hour Average, m/s, KMC Eagle Station
(Discluding Invalid Data) Overall Average: 2.91696

Source: Golder, 2005.

**Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
FEBRUARY 2005**

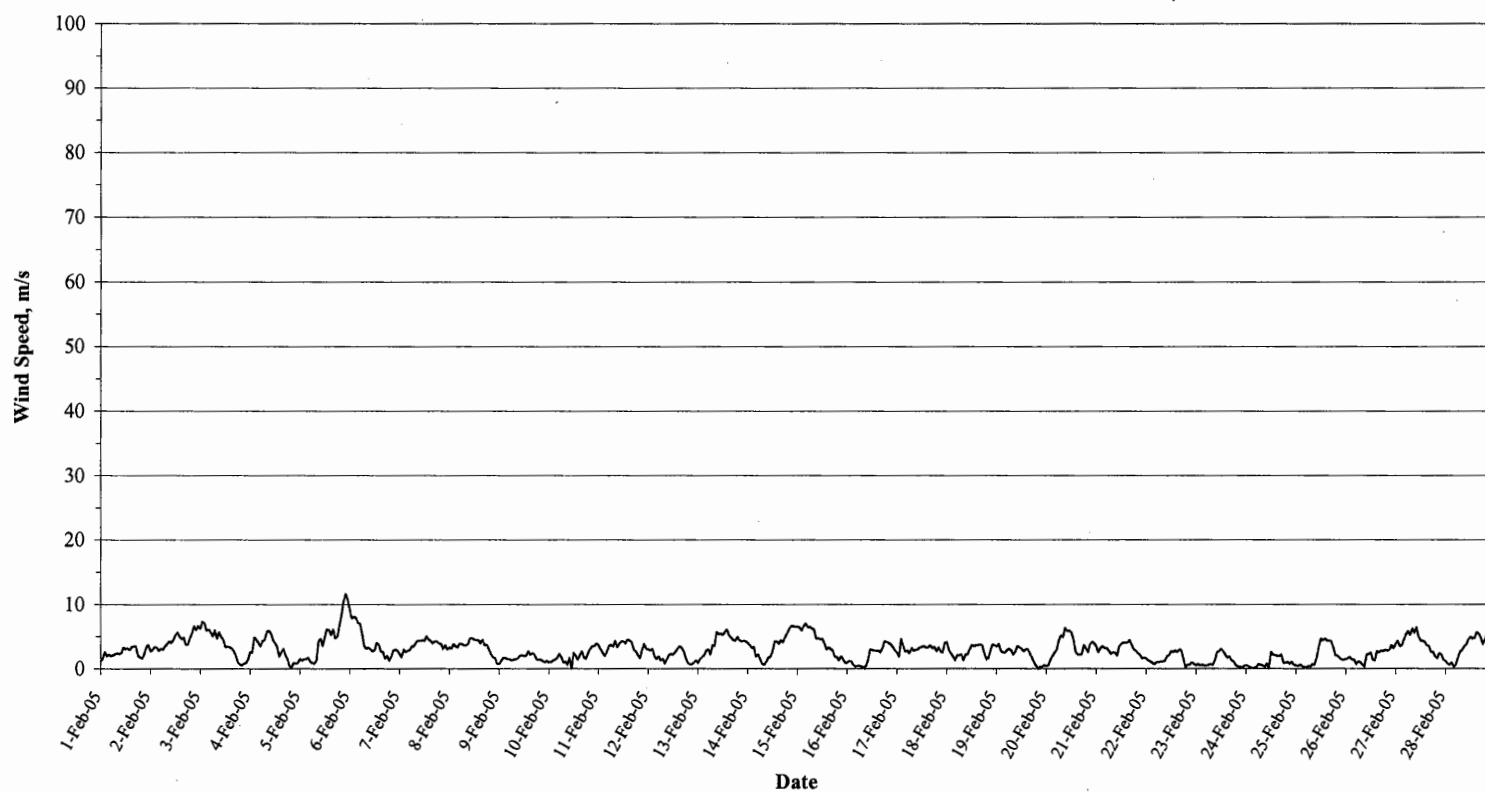


Figure 4. KENNECOTT MINERAL CORPORATION AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
FEBRUARY 2005

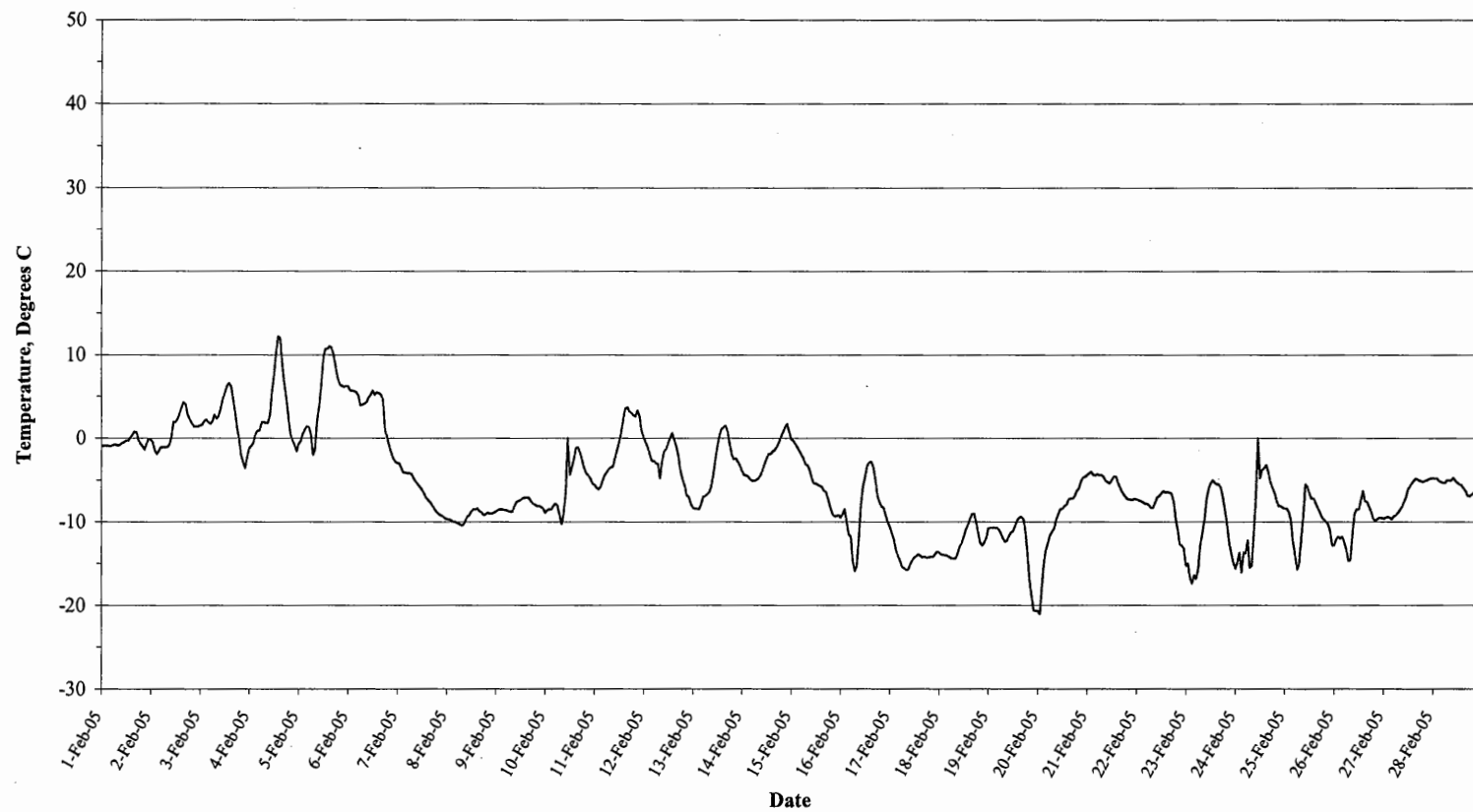


**Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
FEBRUARY 2005**

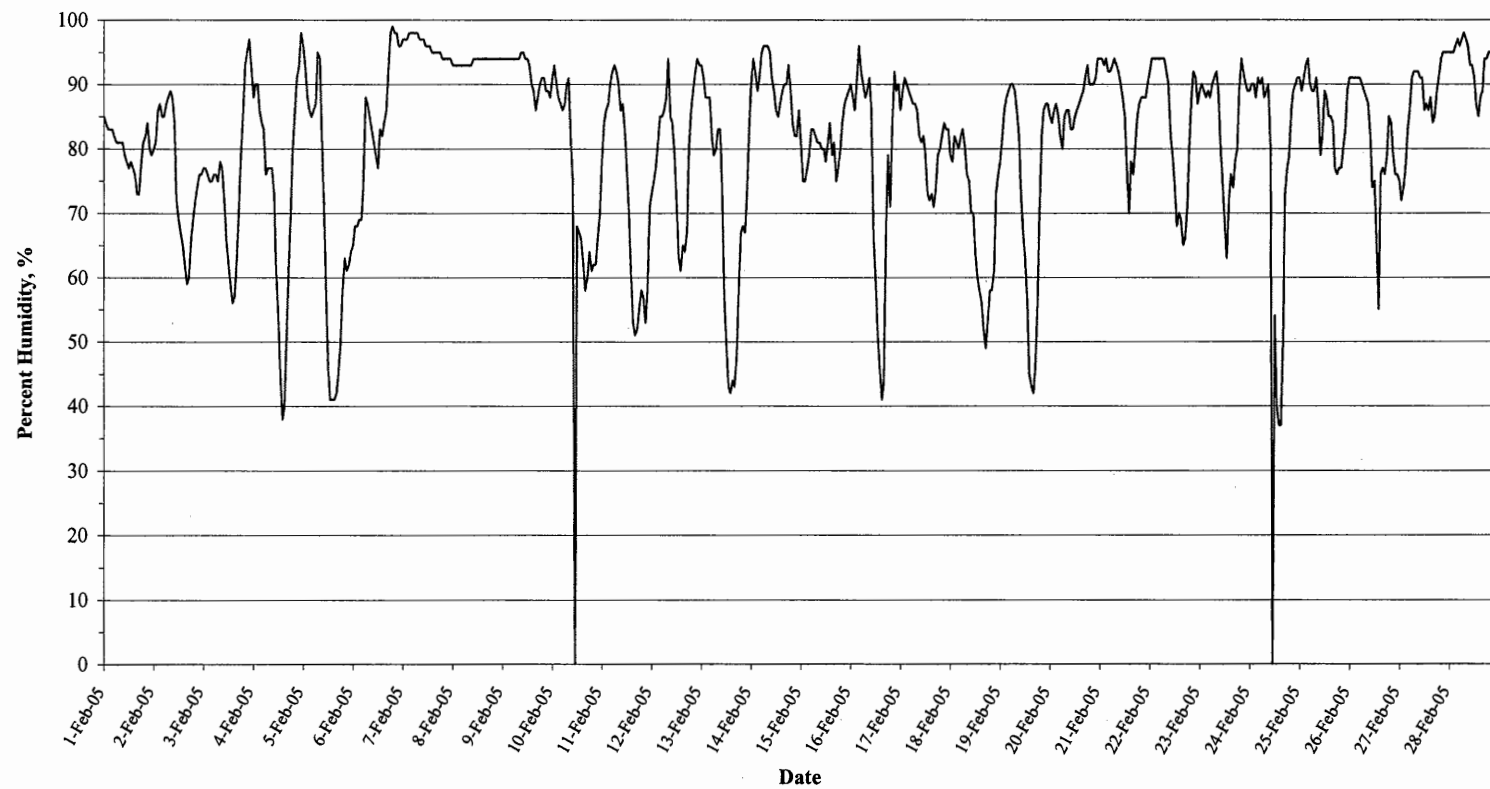


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
FEBRUARY 2005

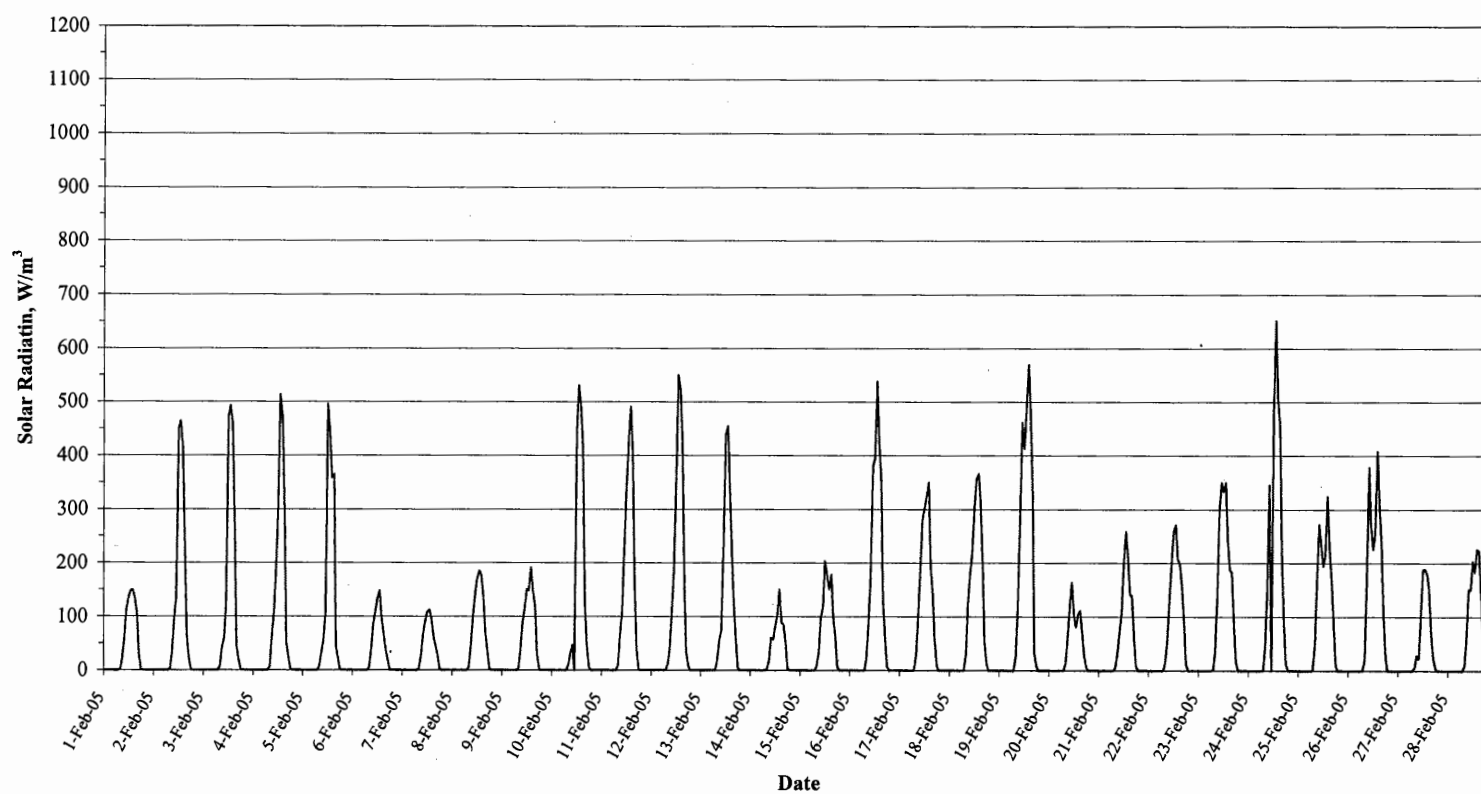
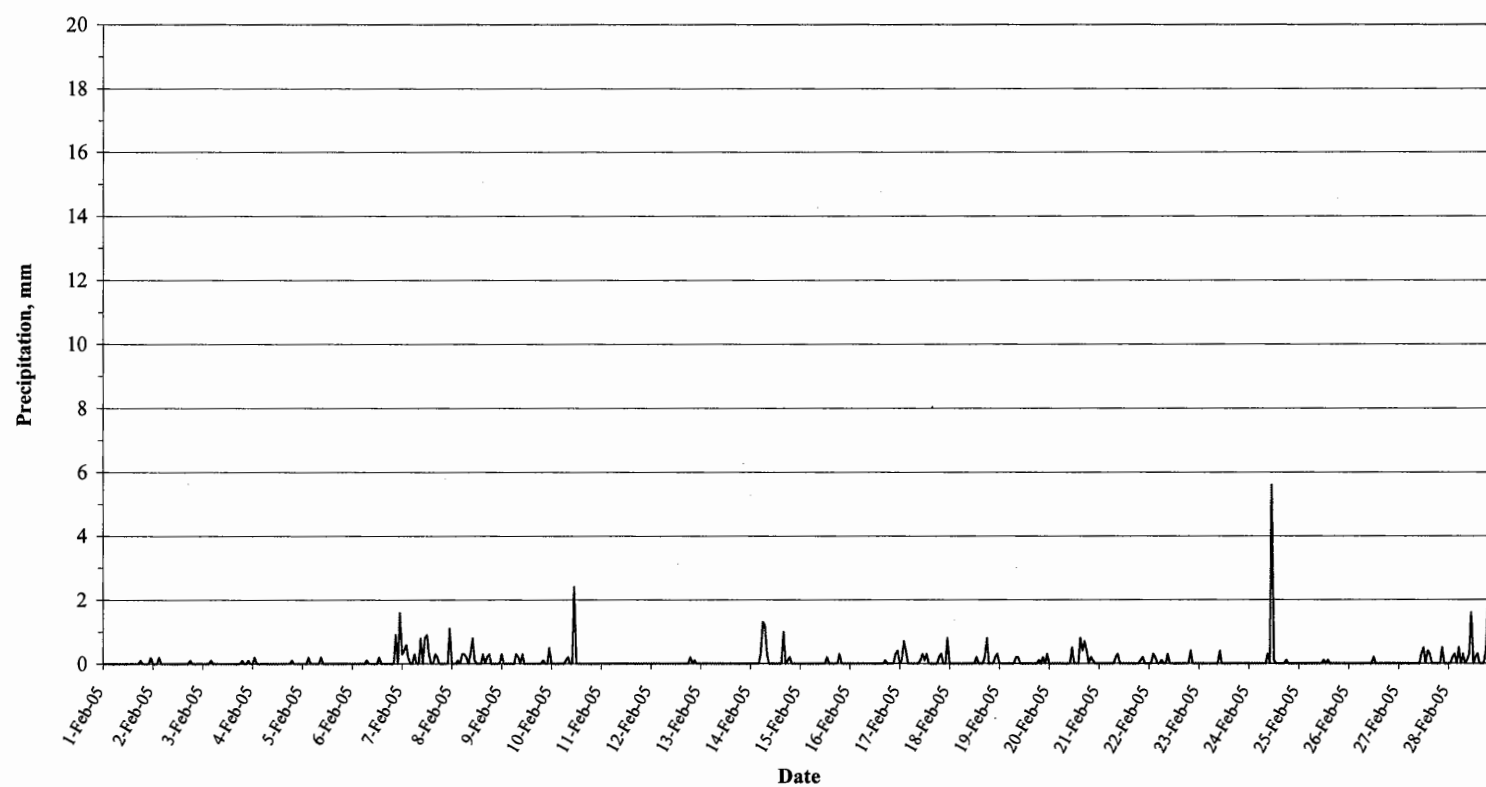


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
FEBRUARY 2005**



Appendix J

March 2005 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
March 2005**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	21	µg/m ³	21-Mar-05
Second Maximum 24-Hour (Daily) Concentration ² :	14	µg/m ³	5-Mar-05
Monthly Data Collection Efficiency:	93.5	%	
Monthly Arithmetic Average:	8	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - March 2005)	12	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	W
Average Wind Direction Horizontal Deviation:	22 degrees
Average Wind Speed:	2.8 m/s
Average Temperature:	-4.0 °C
Average Relative Humidity:	72 %
Average Solar Radiation:	144 W/m ²
Total Rain Fall:	47.8 mm
Monthly Data Collection Efficiency:	99.9 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 µg/m ³ :	14.1 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 µg/m ³ :	24.3 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)

March 2005																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	14	14	13	3	3	13	15	10	11	9	13	11	13	5	1	354	353	343	333	326	328	325	321	336	24
2	330	344	356	352	358	4	10	16	19	18	14	18	10	8	5	351	1	349	328	316	296	262	263	264	24
3	251	263	272	266	245	257	249	241	232	248	282	287	296	296	300	292	280	277	295	293	210	216	210	161	24
4	204	238	227	225	235	203	190	150	158	151	145	162	156	103	165	40	70	81	47	50	263	272	264	265	24
5	247	263	271	259	256	254	252	253	261	278	288	288	284	286	279	268	248	247	232	224	219	225	234	248	24
6	257	267	277	284	286	294	305	309	310	308	308	6	26	33	59	69	87	100	105	108	117	108	99	92	24
7	89	79	57	44	42	28	30	23	20	15	14	13	12	5	360	352	342	339	335	335	337	343	335	338	24
8	338	334	338	334	336	327	323	324	325	333	329	321	320	324	308	310	309	306	289	270	268	277	306	332	24
9	328	329	318	283	273	277	281	291	294	319	329	320	319	330	307	315	311	306	292	269	247	260	260	260	24
10	255	246	239	233	238	226	204	201	213	204	194	193	188	191	158	36	54	7	352	351	276	271	289	285	24
11	253	297	279	194	224	238	239	223	234	243	274	286	303	302	304	300	301	307	318	343	6	346	345	345	24
12	341	341	338	338	340	333	328	320	321	317	309	314	310	309	312	313	304	301	305	290	262	255	251	246	24
13	244	255	285	273	270	281	273	216	211	238	271	279	258	229	243	252	76	60	52	40	14	156	154	170	24
14	160	172	206	223	171	190	237	228	240	245	273	325	308	288	296	39	19	12	17	21	21	26	90	164	24
15	171	158	283	212	320	201	268	246	130	129	129	147	166	168	187	174	108	99	111	114	127	125	144	218	24
16	267	263	206	266	224	185	252	215	161	142	142	149	133	124	108	56	60	56	55	52	24	25	18	350	24
17	318	277	276	276	274	281	242	283	294	3	18	22	9	9	12	14	61	46	44	38	233	232	241	278	24
18	231	240	239	233	253	226	268	233	268	332	4	27	37	52	86	65	53	61	57	82	71	62	50	55	24
19	84	55	74	47	49	64	79	87	104	104	98	88	70	58	48	46	47	53	52	53	49	38	34	17	24
20	20	23	360	347	343	355	12	18	10	9	5	8	357	356	4	5	10	11	6	10	350	335	347	2	24
21	12	359	348	348	2	342	335	328	346	351	351	353	357	348	4	1	7	13	355	304	307	259	250	278	24
22	270	273	240	205	265	271	223	226	226	353	42	166	110	85	43	24	22	24	19	31	75	134	139	133	24
23	196	177	168	170	176	191	190	214	167	165	170	171	33	36	16	43	48	36	61	105	147	218	165	172	24
24	209	215	219	216	230	234	244	247	247	240	258	277	278	4	276	295	293	325	7	22	18	40	303	339	24
25	297	18	26	19	16	25	265	265	276	3	9	NA	22	6	336	312	329	35	31	42	230	204	228	167	23
26	195	241	209	199	195	243	261	240	237	255	272	274	253	235	226	223	234	244	52	22	195	257	222	230	24
27	219	237	251	234	234	241	244	241	233	235	230	239	230	227	234	235	223	217	209	209	197	219	200	200	24
28	205	203	205	213	222	223	236	240	240	236	261	30	25	69	70	39	33	48	76	105	107	110	138	159	24
29	116	130	161	158	164	182	197	195	160	201	194	184	182	185	178	176	176	178	174	180	182	181	185	184	24
30	183	183	188	192	190	188	188	178	176	180	179	176	169	169	168	169	167	168	168	169	160	166	169	155	24
31	179	178	184	203	195	219	162	301	290	289	291	292	298	300	303	305	315	319	326	328	315	302	292	272	24
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31	

Data Capture: 99.9 %

Total Valid Hours = 743

System Codes:

NA - Not Available =
 RNG - Range =
 Cal - Calibration =
 MISS - Data Not Collected =

Hours

1
0
0
0
0

AUD - Audit =
 M&R - Maintenance & Repair =
 MCAL - Manual Calibration =

Hours

0
0
0

Hours

ACAL - Auto Cal =
 INOP - InOperative =
 PF - Power Fail =

0
0
0

KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)

March 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Total Readings			
DAY																													
1	13	12	12	12	11	12	12	12	12	12	12	12	13	13	13	14	13	15	18	19	19	21	21	17	14	24			
2	18	18	12	12	12	12	11	11	12	12	12	14	15	18	20	17	15	17	19	18	26	11	7	8	14	24			
3	15	7	4	7	9	8	9	11	12	23	14	22	25	25	28	24	22	18	21	22	6	16	31	8	16	24			
4	31	8	14	15	14	22	12	7	12	13	16	18	24	39	76	25	22	29	16	44	10	25	27	13	22	24			
5	29	10	19	13	12	13	13	10	14	15	17	18	19	22	20	19	17	18	19	18	17	18	20	17	17	24			
6	17	19	19	20	21	24	26	26	27	29	25	30	23	15	21	21	24	21	20	19	17	21	22	23	22	24			
7	27	28	19	15	17	15	13	13	12	12	13	13	13	13	14	16	16	17	18	17	17	14	16	17	16	24			
8	17	19	16	18	18	18	20	20	20	21	24	25	26	25	29	27	27	27	20	16	14	17	31	18	21	24			
9	19	20	19	17	15	13	13	18	21	26	23	27	27	26	27	28	29	27	22	20	19	14	13	13	21	24			
10	12	13	13	13	14	21	9	11	17	14	14	14	16	28	39	51	91	13	11	16	17	8	15	20	20	24			
11	9	35	34	18	23	15	15	15	16	18	18	20	24	26	26	25	26	26	23	19	14	15	15	14	20	24			
12	15	16	16	17	15	20	20	24	24	25	28	25	25	26	28	28	27	22	24	16	17	15	12	16	21	24			
13	15	17	20	13	18	18	36	8	19	18	23	28	31	43	50	57	46	18	17	31	20	32	9	9	25	24			
14	5	12	22	33	13	11	23	13	13	14	27	49	40	29	38	17	14	11	12	14	11	13	83	0	22	24			
15	13	18	83	32	75	69	70	23	89	12	13	20	24	20	47	43	22	19	18	19	77	41	28	14	37	24			
16	22	34	26	75	40	64	12	46	24	16	21	19	22	32	39	21	24	21	18	18	14	13	11	13	27	24			
17	34	9	23	47	16	11	24	8	35	15	19	17	20	26	28	40	30	22	17	8	68	11	18	16	23	24			
18	29	55	13	44	29	29	55	16	15	38	21	30	31	38	33	27	24	23	23	31	26	38	42	30	31	24			
19	29	25	28	15	17	24	27	25	20	21	22	25	27	21	18	17	16	18	17	17	16	16	13	13	20	24			
20	18	19	12	13	14	17	13	13	12	15	15	15	15	15	14	14	13	14	12	16	17	19	13	14	15	24			
21	11	13	13	13	13	23	17	19	13	14	15	15	17	17	15	16	20	14	29	21	48	10	10	23	17	24			
22	8	10	24	13	26	18	25	46	51	43	88	26	91	74	26	25	20	21	13	9	28	16	20	17	31	24			
23	27	11	14	20	19	30	33	33	13	10	14	25	64	78	23	24	23	22	20	28	29	74	13	9	27	24			
24	12	12	13	13	16	15	15	14	15	16	23	20	24	0	22	22	21	28	16	13	13	50	74	42	21	24			
25	29	16	13	10	14	16	35	22	24	20	53	NA	61	37	64	42	42	24	12	12	102	10	30	9	30	23			
26	23	25	7	13	11	16	17	11	13	19	22	21	30	43	37	37	47	57	70	75	53	38	19	11	30	24			
27	12	16	15	15	13	11	13	13	14	16	20	21	23	23	29	25	21	17	14	17	20	45	17	15	19	24			
28	16	14	14	14	15	16	15	14	17	21	53	78	67	22	25	27	20	26	24	26	17	27	17	11	25	24			
29	19	30	14	10	13	12	9	10	25	14	11	11	15	19	21	21	22	20	25	32	35	36	32	23	20	24			
30	19	21	21	18	21	17	18	17	21	15	21	19	23	23	22	23	25	19	16	16	15	16	13	15	19	24			
31	14	12	18	15	13	86	61	57	26	21	20	22	25	24	25	26	27	26	24	22	28	25	22	16	27	24			
Hour Avg.:	18.6	18.5	19.0	19.5	18.6	22.5	22.3	18.9	21.2	18.6	23.1	23.3	29.0	27.7	29.6	26.4	26.0	21.6	20.3	21.6	26.8	23.4	23.0	15.6					
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31					
Monthly Avg.:	22 °	Standard Deviation:					14.0	Data Capture:					99.9 %	Hours					Total Valid Hours =					743					
System Codes:	NA	- Not Available =					1	AUD					- Audit =					0	ACAL					- Auto Cal =					0
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					0
	MISS	- Data Not Collected =					0																						

(One Hour Averages)

Daily Avg.	Daily Max.	Total Readings
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		Hours			Hours			Hours
System Codes:	NA - Not Available =	1	AUD - Audit =		0	ACAL - Auto Cal =		0
	RNG - Range =	0	M&R - Maintenance & Repair =		0	INOP - InOperative =		0
	Cal - Calibration =	0	MCAL - Manual Calibration =		0	PF - Power Fail =		0
	MISS - Data Not Collected =	0						

KMC EAGLE STATION
TEMPERATURE - °C
(One Hour Averages)

March 2005

March 2005																								Daily Avg.	Daily Max.	Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	-7.8	-8.1	-8.5	-8.9	-9.3	-9.3	-9.4	-9.6	-9.8	-9.9	-9.9	-10.0	-9.9	-9.9	-9.9	-10.1	-10.4	-10.6	-11.3	-11.6	-11.4	-11.6	-11.5	-11.6	-10.0	-7.8	24
2	-11.4	-10.8	-10.4	-10.4	-10.2	-10.3	-10.2	-10.2	-10.1	-9.9	-9.4	-8.7	-8.6	-8.2	-7.7	-7.5	-7.2	-7.4	-8.2	-10.0	-11.4	-12.5	-13.3	-13.5	-9.9	-7.2	24
3	-14.0	-13.3	-14.2	-14.5	-14.1	-13.0	-12.4	-12.4	-11.8	-9.5	-7.7	-6.7	-5.4	-4.6	-3.8	-3.2	-3.0	-3.0	-4.2	-6.8	-9.8	-12.0	-13.6	-14.1	-9.5	-3.0	24
4	-11.5	-8.2	-7.6	-7.5	-6.8	-6.9	-7.4	-7.9	-7.6	-5.5	-1.8	0.0	1.2	3.3	4.5	3.0	2.1	1.4	0.6	-1.7	-3.5	-4.3	-4.5	-5.0	-3.4	4.5	24
5	-5.5	-5.1	-4.5	-4.8	-3.7	-3.5	-4.1	-4.1	-3.7	-1.3	0.3	1.0	2.3	2.7	1.7	2.3	3.2	3.5	2.9	2.5	2.3	2.0	1.6	2.1	-0.4	3.5	24
6	2.8	3.0	3.1	3.2	3.1	2.6	2.3	2.2	2.8	3.1	-0.6	-1.9	-1.8	-2.3	-2.8	-3.6	-4.3	-4.6	-4.6	-4.2	-3.8	-3.9	-3.8	-0.5	3.2	24	
7	-3.4	-3.1	-3.0	-2.8	-3.7	-5.8	-7.0	-7.8	-8.6	-9.3	-9.8	-10.3	-10.3	-10.8	-11.0	-11.1	-11.3	-11.7	-11.9	-12.1	-12.0	-11.8	-12.1	-11.7	-8.9	-2.8	24
8	-11.7	-12.0	-12.2	-12.3	-12.8	-13.1	-13.5	-13.7	-13.3	-12.9	-12.6	-12.4	-11.7	-11.4	-11.2	-10.8	-10.5	-10.7	-11.5	-12.5	-12.7	-12.6	-12.1	-11.6	-12.2	-10.5	24
9	-11.9	-11.8	-12.2	-13.2	-14.3	-14.3	-14.7	-15.0	-13.6	-11.4	-10.8	-10.4	-10.0	-9.9	-9.6	-9.3	-9.1	-9.0	-9.8	-10.7	-10.6	-10.2	-10.2	-10.8	-11.4	-9.0	24
10	-10.7	-10.2	-10.2	-10.3	-9.6	-9.1	-9.1	-9.2	-8.5	-7.6	-6.5	-5.4	-4.6	-3.5	-2.5	-1.8	-2.1	-3.9	-4.4	-5.7	-7.3	-8.1	-8.5	-8.6	-7.0	-1.8	24
11	-8.3	-7.5	-7.4	-10.0	-10.3	-9.9	-9.1	-8.4	-7.6	-6.3	-5.1	-4.9	-5.2	-5.4	-5.2	-5.5	-5.7	-6.2	-6.6	-7.8	-8.5	-8.3	-8.7	-9.6	-7.4	-4.9	24
12	-10.1	-10.6	-11.3	-12.2	-12.7	-13.4	-14.2	-14.5	-14.4	-13.7	-13.4	-12.8	-12.3	-11.7	-11.3	-11.4	-11.7	-11.9	-12.7	-13.7	-14.5	-14.7	-14.1	-14.1	-12.8	-10.1	24
13	-14.4	-14.1	-13.0	-12.8	-12.6	-12.5	-12.7	-13.7	-13.0	-10.4	-8.6	-7.1	-5.6	-4.5	-3.3	-2.6	-2.8	-4.6	-6.2	-6.9	-7.9	-9.6	-9.5	-9.4	-9.1	-2.6	24
14	-10.4	-10.0	-9.7	-9.3	-9.3	-9.3	-9.6	-9.7	-7.9	-6.1	-4.4	-3.0	-3.3	-3.1	-3.0	-4.4	-4.9	-5.3	-5.9	-6.4	-6.9	-7.1	-7.5	-8.8	-6.9	-3.0	24
15	-10.6	-11.8	-11.5	-10.5	-9.0	-9.5	-8.8	-8.8	-6.9	-5.4	-4.4	-3.3	-2.5	-1.9	-1.6	-0.3	-2.6	-3.0	-3.7	-4.5	-4.8	-4.8	-4.9	-5.1	-5.8	-0.3	24
16	-5.2	-5.6	-7.2	-9.4	-10.7	-13.2	-14.3	-14.7	-10.9	-6.4	-4.2	-3.0	-2.5	-2.1	-1.9	-2.2	-2.3	-3.0	-3.4	-4.0	-4.9	-5.2	-5.2	-6.2	-6.2	-1.9	24
17	-6.8	-9.3	-11.1	-12.4	-13.2	-12.5	-14.2	-13.0	-10.5	-6.1	-5.4	-5.0	-5.0	-4.8	-4.7	-4.4	-5.0	-5.7	-6.0	-7.5	-10.4	-12.8	-13.9	-14.9	-8.9	-4.4	24
18	-16.7	-17.6	-18.5	-17.3	-18.2	-18.7	-18.1	-18.2	-13.7	-6.8	-5.1	-4.8	-4.0	-3.9	-3.5	-4.6	-5.1	-5.3	-5.5	-5.7	-5.8	-6.4	-6.9	-6.5	-9.9	-3.5	24
19	-5.9	-5.6	-4.8	-4.4	-4.1	-3.7	-3.7	-3.8	-3.9	-4.2	-4.0	-3.6	-3.2	-3.1	-3.2	-3.5	-3.6	-3.7	-3.8	-3.8	-3.8	-3.7	-3.5	-3.4	-3.9	-3.1	24
20	-3.2	-3.1	-3.4	-3.5	-3.3	-3.1	-3.0	-3.1	-3.0	-2.8	-2.6	-2.0	-2.0	-1.7	-2.1	-2.0	-2.3	-2.4	-2.8	-3.1	-3.5	-3.3	-3.2	-3.2	-2.8	-1.7	24
21	-3.1	-3.1	-3.2	-3.2	-3.2	-3.4	-3.5	-3.7	-3.5	-3.0	-2.6	-2.5	-2.2	-2.1	-2.1	-2.1	-2.0	-2.2	-2.2	-2.3	-3.4	-5.5	-7.0	-7.5	-3.5	-2.0	24
22	-8.0	-8.8	-10.9	-11.1	-10.4	-10.9	-14.4	-13.2	-9.0	-2.8	0.2	2.3	4.2	2.9	2.8	2.8	2.8	2.5	1.3	-1.3	-3.0	-3.4	-3.9	-4.6	-3.9	4.2	24
23	-5.7	-6.1	-6.3	-7.6	-9.1	-10.1	-9.0	-7.6	-7.2	-3.4	-0.7	1.6	4.0	5.1	3.6	3.5	2.9	2.7	1.8	0.0	-1.7	-2.9	-3.4	-2.7	-2.4	5.1	24
24	-1.6	-0.9	-0.5	-0.5	-0.4	-0.2	-0.3	-0.3	1.1	2.0	3.6	4.5	3.7	0.0	4.0	3.1	1.6	0.7	-1.2	-2.3	-2.4	-2.9	-3.9	-3.7	0.1	4.5	24
25	-3.7	-3.7	-4.1	-5.0	-5.4	-6.4	-8.5	-8.9	-6.8	-4.0	-2.5	NA	-0.5	-0.3	0.3	1.1	1.9	1.4	-0.4	-2.2	-3.6	-5.4	-6.9	-8.1	-3.6	1.9	23
26	-7.2	-6.4	-5.7	-6.2	-6.6	-6.3	-6.0	-4.8	-1.8	1.2	2.9	4.0	5.3	6.3	7.3	7.9	8.3	7.6	5.6	2.4	0.0	-1.1	-0.7	0.6	0.3	8.3	24
27	0.4	0.4	0.3	-0.2	-0.5	-0.8	-1.1	-0.8	1.4	4.6	6.1	7.0	8.0	8.9	9.3	10.0	10.3	9.9	9.4	8.5	7.6	7.3	6.9	6.0	5.0	10.3	24
28	5.6	5.4	5.1	5.2	5.3	5.1	4.9	5.4	7.0	8.9	11.5	14.6	13.5	12.1	12.0	12.5	12.0	11.0	9.6	7.8	6.5	5.3	4.6	4.4	8.1	14.6	24
29	5.2	5.1	5.9	6.7	5.5	5.2	5.9	7.1	9.3	11.8	12.0	13.1	15.0	15.4	15.6	15.3	14.9	13.5	12.0	11.0	11.0	10.7	10.5	10.0	10.3	15.6	24
30	9.7	8.9	8.4	8.4	8.4	7.9	7.8	7.7	8.0	8.8	9.4	10.9	13.0	14.5	14.6	13.9	13.8	11.7	10.9	9.5	8.1	8.5	8.5	7.9	10.0	14.6	24
31	7.3	7.0	6.8	6.7	6.8	6.9	6.6	5.8	3.4	2.8	1.5	1.6	1.3	1.0	1.0	1.0	1.0	1.5	2.1	2.4	2.9	3.4	3.6	3.3	3.7	7.3	24
Hour Avg.:	-5.7	-5.7	-5.9	-6.1	-6.3	-6.5	-6.8	-6.7	-5.6	-3.7	-2.6	-1.9	-1.3	-1.0	-0.7	-0.7	-1.0	-1.5	-2.3	-3.4	-4.2	-4.8	-5.1	-5.3			
Hour Max.:	9.7	8.9	8.4	8.4	8.4	7.9	7.8	7.7	9.3	11.8	12.0	14.6	15.0	15.4	15.6	15.3	14.9	13.5	12.0	11.0	11.0	10.7	10.5	10.0			
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31			
Monthly Avg.:	-4.0 °C		Standard Deviation:			7.0		Data Capture:			99.9 %													Total Valid Hours =		743	
System Codes:	NA - Not Available =		1		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																
	MISS - Data Not Collected =		0																								

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

March 2005

March 2022																													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings		
DAY																													
1	94	95	94	94	94	93	93	93	91	89	85	82	74	71	70	73	74	78	82	80	79	84	86	90	85	95	24		
2	92	91	92	93	93	93	93	92	91	89	83	73	70	64	60	58	55	59	65	75	79	81	84	84	80	93	24		
3	84	81	83	84	84	84	83	84	83	79	66	66	60	52	46	45	41	35	38	49	71	86	86	85	69	86	24		
4	67	50	51	58	61	63	68	71	71	64	56	52	50	45	38	45	47	47	49	57	69	75	77	80	59	80	24		
5	81	72	70	80	80	77	90	95	88	72	63	60	51	52	63	63	60	60	64	67	67	67	68	67	70	95	24		
6	69	73	75	76	78	79	80	79	78	73	71	88	90	87	86	86	91	94	96	96	98	98	98	98	85	98	24		
7	98	98	98	99	98	97	96	95	94	94	93	92	92	91	89	87	80	79	76	72	73	70	71	80	88	99	24		
8	84	74	68	69	70	70	65	67	64	63	67	67	53	49	46	41	40	45	53	62	63	62	61	57	61	84	24		
9	60	64	61	64	72	69	70	68	59	49	43	41	40	39	36	30	32	36	42	46	46	47	41	41	50	72	24		
10	39	38	37	36	35	45	47	48	54	70	75	73	75	73	73	71	77	92	85	87	93	96	95	92	67	96	24		
11	88	90	89	94	93	90	89	90	92	91	86	83	85	84	76	77	79	90	82	88	94	94	92	85	88	94	24		
12	81	83	83	84	85	85	85	86	80	74	73	68	66	64	65	67	68	69	74	76	81	84	83	82	77	86	24		
13	81	83	82	81	81	80	82	84	76	67	62	51	39	36	34	33	44	55	65	69	75	81	80	81	67	84	24		
14	84	84	83	79	78	78	79	79	73	62	56	53	59	62	66	84	90	92	94	95	96	95	95	94	80	96	24		
15	94	92	92	93	94	93	94	94	95	91	83	78	70	64	62	53	85	93	94	93	94	93	95	95	87	95	24		
16	95	95	96	94	93	91	90	89	93	94	86	74	70	66	63	64	65	72	78	88	89	90	89	91	84	96	24		
17	92	95	96	95	93	94	92	91	82	78	70	64	63	59	58	56	62	66	66	75	86	92	93	90	80	96	24		
18	88	87	86	87	86	86	87	85	81	71	66	67	62	62	60	73	74	74	79	80	81	83	86	85	78	88	24		
19	83	84	85	85	85	79	75	78	84	87	84	81	82	82	85	87	88	91	93	95	95	97	98	98	87	98	24		
20	98	98	98	98	98	98	98	98	98	98	97	96	95	94	95	94	94	94	97	97	97	97	98	98	98	97	98	24	
21	98	98	98	98	98	98	98	98	97	96	94	88	81	79	78	77	75	77	77	80	89	95	91	91	90	98	24		
22	91	93	95	94	93	93	90	91	90	75	56	45	33	43	50	47	38	36	42	60	91	97	98	98	72	98	24		
23	97	97	96	95	94	93	91	79	77	68	54	39	30	26	41	41	41	40	42	49	61	66	67	61	64	97	24		
24	57	53	51	51	50	47	47	42	42	38	37	45	0	51	67	88	92	97	98	95	94	97	94	62	98	24			
25	94	91	83	79	79	81	90	90	78	65	57	NA	45	45	42	34	32	41	51	59	65	72	79	84	67	94	23		
26	82	80	76	78	80	77	71	62	50	37	32	30	27	26	25	22	22	24	30	40	49	55	53	48	49	82	24		
27	50	51	53	58	62	66	70	69	58	45	41	37	33	31	35	35	35	37	41	45	49	49	51	55	48	70	24		
28	56	56	58	58	58	60	61	59	53	48	40	32	35	40	41	39	42	46	51	58	62	67	70	71	53	71	24		
29	68	67	65	64	70	74	72	66	55	42	41	38	33	32	31	33	34	39	41	41	32	36	39	41	48	74	24		
30	43	47	51	53	56	60	63	65	64	62	60	55	48	44	45	48	49	60	63	72	81	79	79	84	60	84	24		
31	86	84	93	96	96	96	96	97	98	99	99	99	98	97	96	97	97	97	96	93	85	78	74	74	93	99	24		
Hour Avg.:	79.8	78.8	78.6	79.6	80.2	80.3	80.8	80.3	77.1	72.1	67.0	63.6	59.8	56.7	58.3	58.9	61.3	64.8	67.8	72.3	76.9	79.4	79.8	79.8					
Hour Max.:	98.0	98.0	98.0	99.0	98.0	98.0	98.0	98.0	98.0	99.0	99.0	99.0	98.0	97.0	96.0	97.0	97.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0					
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31					
Monthly Avg.:	72 %	Standard Deviation:					20.1	Data Capture:					99.9 %						Total Valid Hours =					743					
							Hours									Hours													
System Codes:	NA	- Not Available =					1	AUD					- Audit =					0	ACAL					- Auto Cal =					0
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					0
	MISS	- Data Not Collected =					0																						

Table 8. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

Solar Radiation (W/m2)

(One Hour Averages)

March 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	0	0	0	0	0	0	0	1	33	72	135	182	243	300	250	209	151	115	10	0	0	0	0	0	71	300	24
2	0	0	0	0	0	0	0	1	17	64	133	329	342	510	581	530	399	174	18	0	0	0	0	0	129	581	24
3	0	0	0	0	0	0	0	4	63	123	178	356	584	683	640	540	382	171	11	0	0	0	0	0	156	683	24
4	0	0	0	0	0	0	0	3	52	161	344	438	541	606	615	451	358	123	20	0	0	0	0	0	155	615	24
5	0	0	0	0	0	0	0	4	117	283	447	572	661	651	557	347	271	145	32	0	0	0	0	0	170	661	24
6	0	0	0	0	0	0	0	11	53	179	232	173	153	221	276	292	115	68	20	0	0	0	0	0	75	292	24
7	0	0	0	0	0	0	0	1	29	91	173	209	194	254	302	275	165	73	21	0	0	0	0	0	74	302	24
8	0	0	0	0	0	0	0	5	98	230	337	423	593	619	602	580	431	249	36	0	0	0	0	0	175	619	24
9	0	0	0	0	0	0	0	6	154	340	507	640	711	722	685	585	436	256	29	0	0	0	0	0	211	722	24
10	0	0	0	0	0	0	0	13	81	132	169	250	302	351	357	271	171	77	24	1	0	0	0	0	92	357	24
11	0	0	0	0	0	0	0	9	34	83	185	381	323	378	356	272	260	114	24	0	0	0	0	0	101	381	24
12	0	0	0	0	0	0	0	6	111	192	221	345	436	450	383	368	260	119	34	1	0	0	0	0	122	450	24
13	0	0	0	0	0	0	0	8	180	358	517	658	728	738	670	599	449	264	31	1	0	0	0	0	217	738	24
14	0	0	0	0	0	0	0	12	90	160	293	406	270	394	371	174	150	111	18	0	0	0	0	0	102	406	24
15	0	0	0	0	0	0	0	7	47	111	175	261	359	416	347	417	74	49	9	0	0	0	0	0	95	417	24
16	0	0	0	0	0	0	0	5	35	96	169	412	386	284	291	300	260	97	51	1	0	0	0	0	99	412	24
17	0	0	0	0	0	0	0	14	236	327	396	432	520	451	316	285	198	100	90	2	0	0	0	0	140	520	24
18	0	0	0	0	0	0	0	13	209	391	479	461	545	400	420	217	137	113	32	1	0	0	0	0	142	545	24
19	0	0	0	0	0	0	0	9	56	137	220	382	378	354	287	160	130	72	13	1	0	0	0	0	92	382	24
20	0	0	0	0	0	0	0	12	67	137	191	373	378	379	265	289	190	158	49	3	0	0	0	0	104	379	24
21	0	0	0	0	0	0	0	14	55	126	235	279	294	262	230	227	172	109	70	3	0	0	0	0	87	294	24
22	0	0	0	0	0	0	0	17	219	425	589	706	787	671	742	641	479	298	108	3	0	0	0	0	237	787	24
23	0	0	0	0	0	0	0	26	113	208	362	490	697	785	727	549	411	310	119	3	0	0	0	0	200	785	24
24	0	0	0	0	0	0	1	28	102	164	306	441	344	0	336	217	105	23	12	2	0	0	0	0	87	441	24
25	0	0	0	0	0	0	0	38	223	234	576	NA	772	815	765	664	512	326	133	6	0	0	0	0	220	815	23
26	0	0	0	0	0	0	1	49	273	453	615	736	807	810	766	665	513	329	136	6	0	0	0	0	257	810	24
27	0	0	0	0	0	0	1	61	262	459	605	692	753	628	404	383	263	162	79	5	0	0	0	0	198	753	24
28	0	0	0	0	0	0	1	68	258	436	612	730	779	791	742	632	501	299	102	5	0	0	0	0	248	791	24
29	0	0	0	0	0	0	3	64	185	323	406	568	728	666	567	379	323	128	35	3	0	0	0	0	182	728	24
30	0	0	0	0	0	0	1	21	76	167	225	469	791	859	684	419	377	181	66	6	0	0	0	0	181	859	24
31	0	0	0	0	0	0	6	43	26	42	61	93	128	172	156	110	69	34	13	2	0	0	0	0	40	172	24
Hour Avg.:	0	0	0	0	0	0	0	18	115	216	326	430	501	504	474	389	281	156	47	2	0	0	0	0			
Hour Max.:	0	0	0	0	0	0	6	68	273	459	615	736	807	859	766	665	513	329	136	6	0	0	0	0			
Readings	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31			
Monthly Avg.:	144 W/m2		Standard Deviation:		214.3		Data Capture:		99.9 %		Total Valid Hours =		743														
System Codes:	NA - Not Available =		1		AUD - Audit =		0		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																
	MISS - Data Not Collected =		0																								

Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

Rain Fall (mm)

(One Hour Accumulations)

March 2005

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
1	0.0	0.5	0.7	0.4	0.4	0.5	0.0	0.3	0.0	0.0	0	0.0	0.2	0.0	0.1	0.0	0	0.1	0	0.0	0.0	0.0	0.0	1.3	4.5	21
2	0.4	0.3	0.3	0.2	0.3	0.7	0.0	0.0	0.2	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0	0.0	0.0	2.8	21
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.1	23
4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24
5	0.0	0.0	0.0	0.0	0	0.0	0.2	0.0	0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	22
6	0	0.2	0.0	0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	21
7	0.0	0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	22
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
9	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	23
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	23
11	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0	0.5	22
12	0.1	0	0.2	0.1	0.0	0.1	0.0	0.3	0	0.0	0.2	0.0	0	0.0	0.0	0.3	0.1	0.1	0	0.0	0.0	0.0	0.0	0.0	1.5	20
13	0.0	0.2	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.2	0	0.0	0.2	0.1	0.2	0	0.2	0.0	0	0.0	0.2	1.6	20
14	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.3	0.2	0	0.0	0.3	0.0	0.2	0.0	1.7	22
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.2	0.0	1.5	24
16	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0	0.4	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0	0.3	0.3	0	0.1	0.0	2.0	21
17	0.0	0.1	0.0	0.0	0.0	0.0	0	0.0	0.2	0	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.8	21
18	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	23
19	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.0	0.3	0.0	0.1	1.7	24
20	0.0	0.2	0.1	0.5	0.3	0.5	0.3	0.0	0.4	1.1	0.4	0.5	0.8	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.2	0.3	0.5	0.0	8.7	24
21	0.1	0.2	0.4	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	2.7	24
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0	0.0	0.0	0.5	0	0	0.4	0	0.3	0.2	1.7	20
23	0.1	0.1	0.0	0.0	0.0	0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0	0	0.3	0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	1.5	20
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	24
25	0	0.6	0.0	0.0	0	0.0	0.2	0.1	0.0	0.1	0.0	NA	NA	0	0.1	0	0	0.4	0.0	0	0.3	0.0	0.0	0.1	1.9	16
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.2	21
27	0.0	0.0	0.2	0	0.0	0.2	0	0.2	0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.1	0.3	0.0	0.0	0.0	1.3	19
28	0.0	0.0	0.0	0.0	0.0	0.0	0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0	0	0.4	0.1	0.0	0	0.0	0.0	0.1	0.0	1.1	20
29	0.0	0.1	0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0	0.1	0.0	0.5	0.3	0.2	0	1.4	19
30	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0	0.2	0	0.0	0	0.2	0.0	0.0	0.2	0	0	0	0.3	0.2	1.6	17
31	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0	0.8	0.8	0.8	0.4	0.5	0.0	0.0	0.0	0.0		
Hour Avg.:	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1		
Hour Max.:	0.4	0.6	0.7	0.5	0.4	0.7	0.3	0.4	0.4	1.1	0.4	0.5	0.8	0.5	0.4	0.8	0.8	0.8	0.4	0.5	0.5	0.3	0.5	1.3		
Readings	28	28	29	29	27	29	28	31	26	28	28	29	28	26	26	28	28	28	23	26	30	24	31	28		

Monthly Total: 47.8 mm

Data Capture: 86.7 %

Total Valid Hours = 645

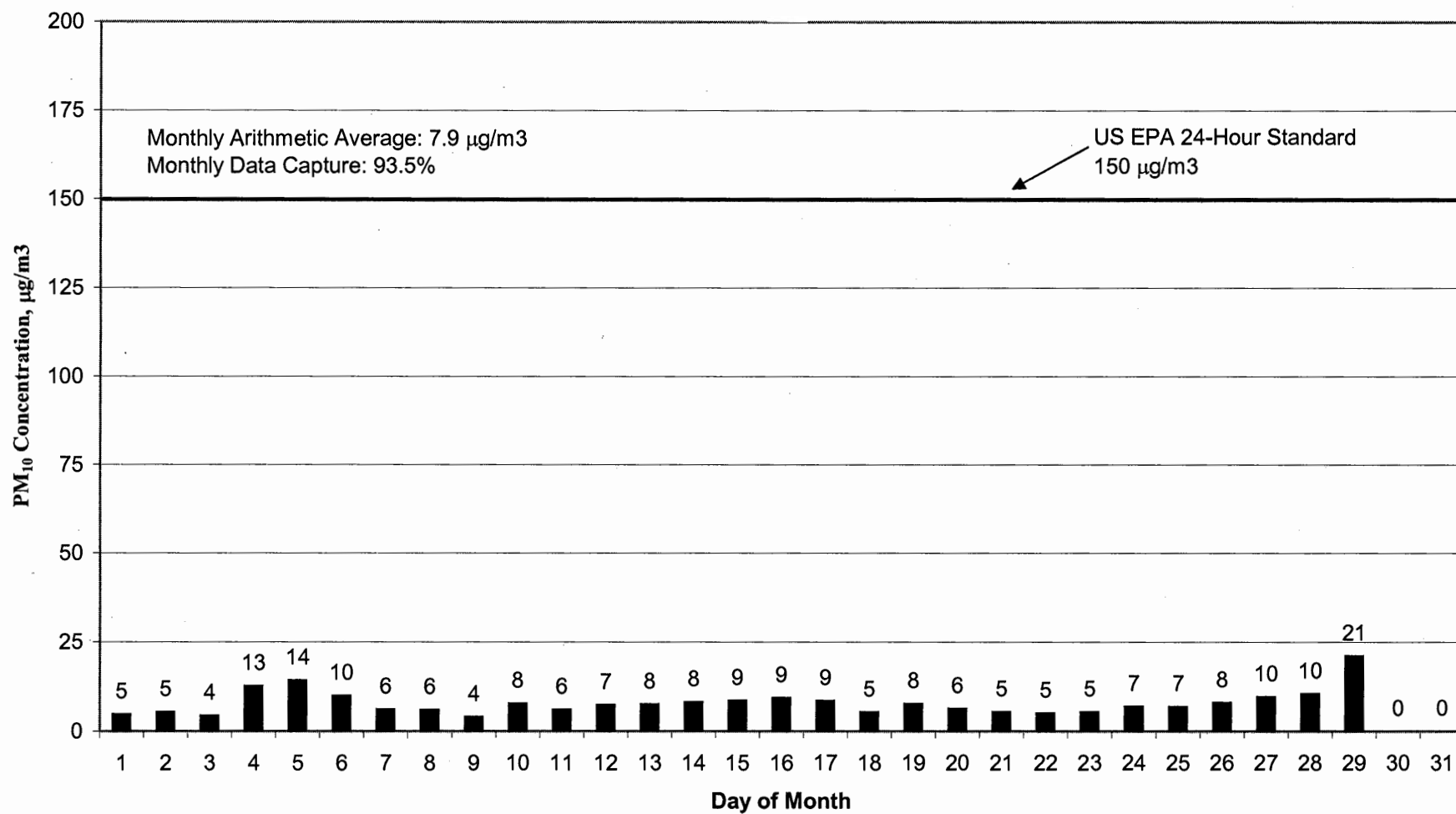
System Codes:

NA - Not Available = 2
 RNG - Range = 0
 Cal - Calibration = 0
 MISS - Data Not Collected = 0

AUD - Audit = 0
 M&R - Maintenance & Repair = 0
 MCAL - Manual Calibration = 0

ACAL - Auto Cal = 0
 INOP - InOperative = 0
 PF - Power Fail = 0

**Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
MARCH 2005**



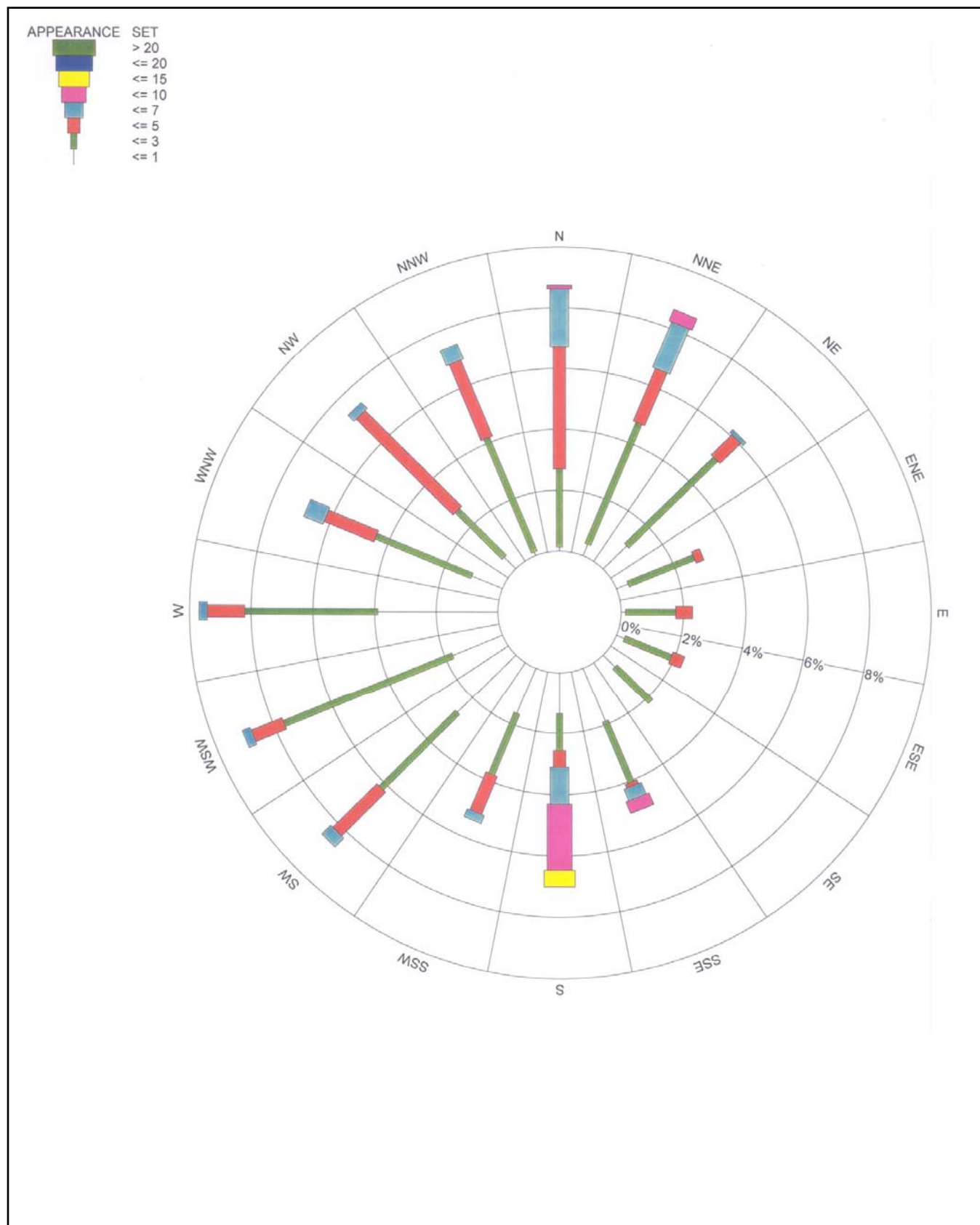


Figure 2
Wind Speed, 1-Hour Average, m/s, KMC Eagle Station
(Discluding Invalid Data) Overall Average: 2.75693

Source: Golder, 2005.

Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
MARCH 2005

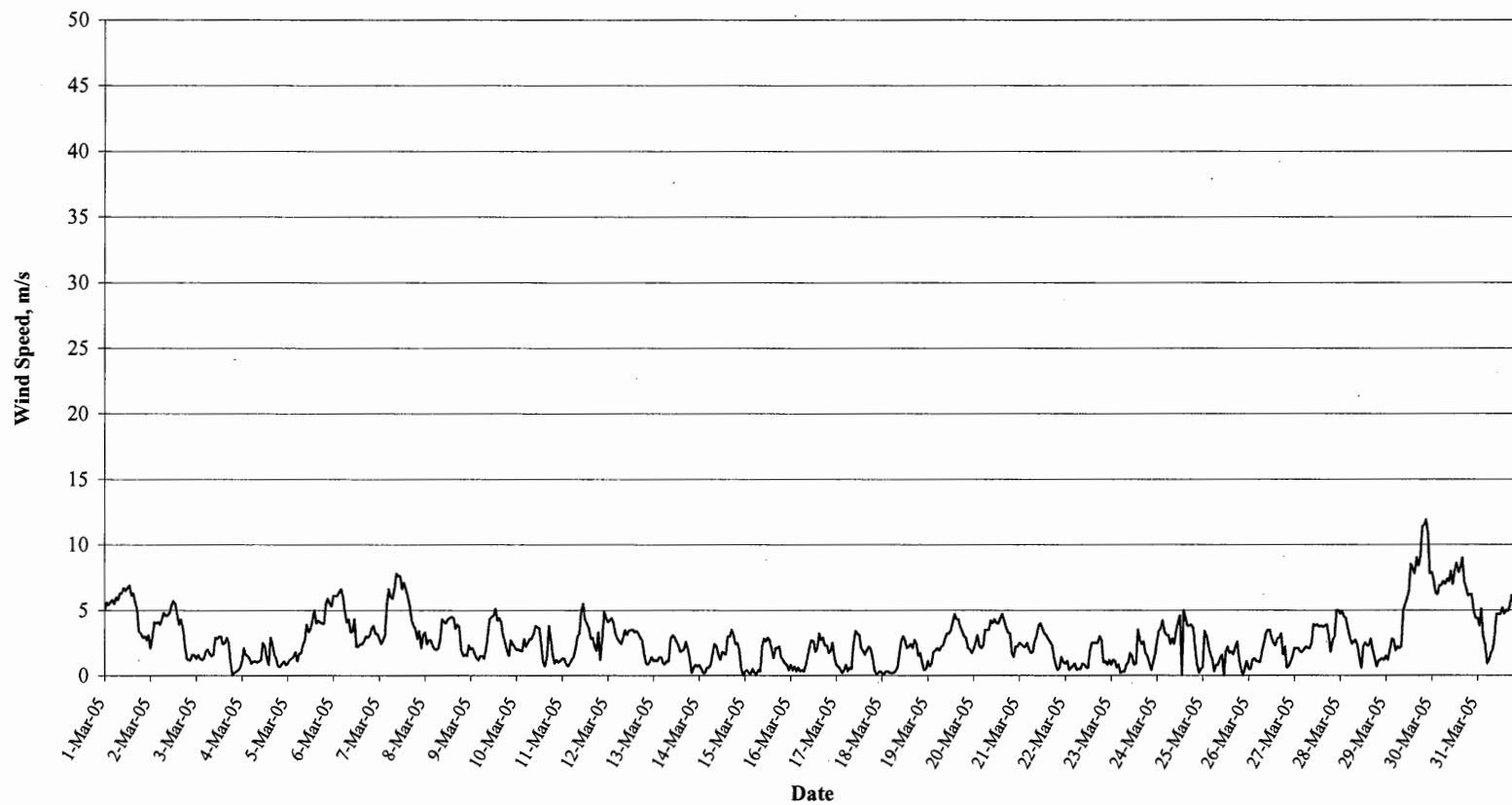


**Figure 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELIN4
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
MARCH 2005**

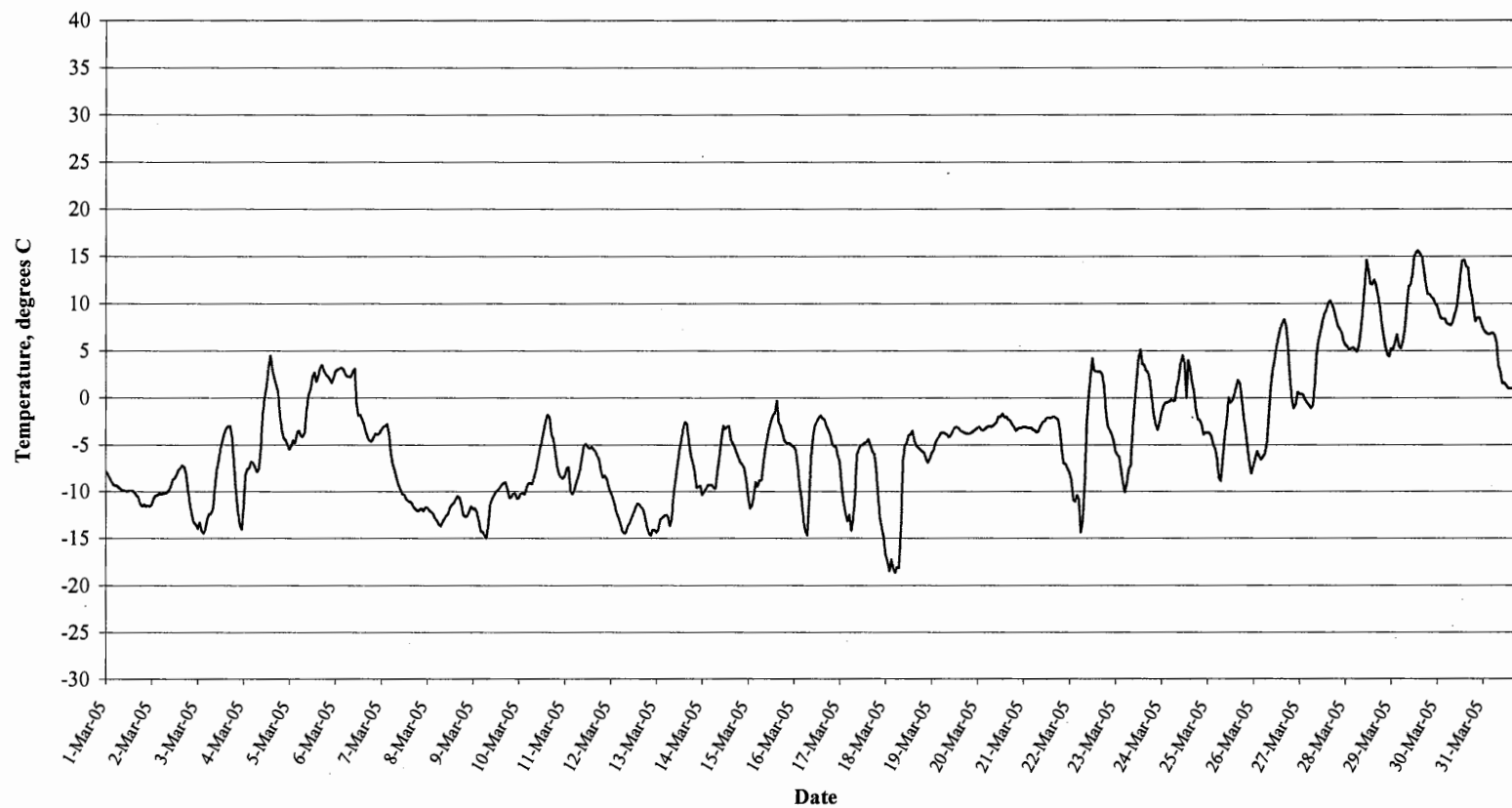


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
MARCH 2005

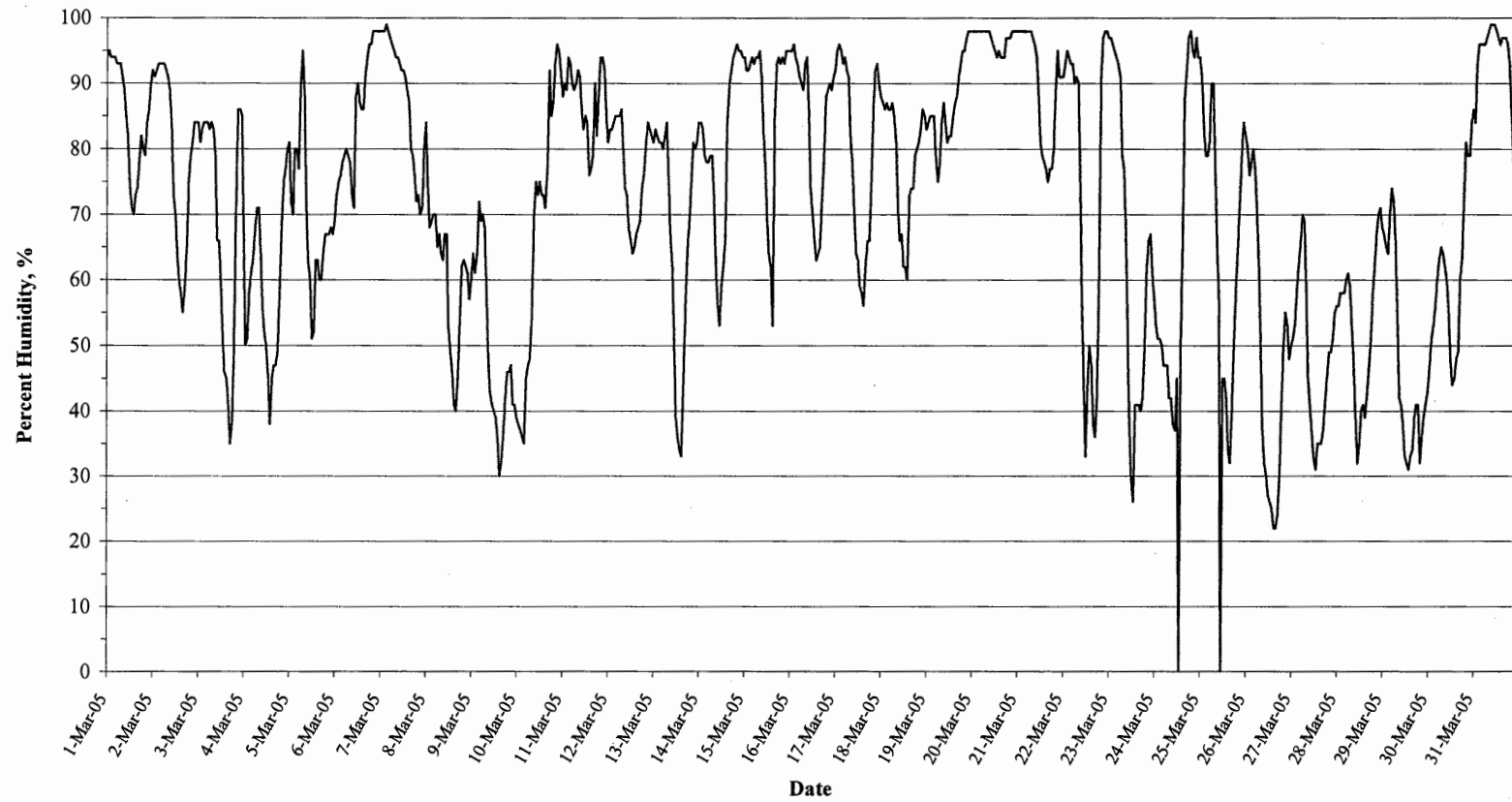


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
MARCH 2005

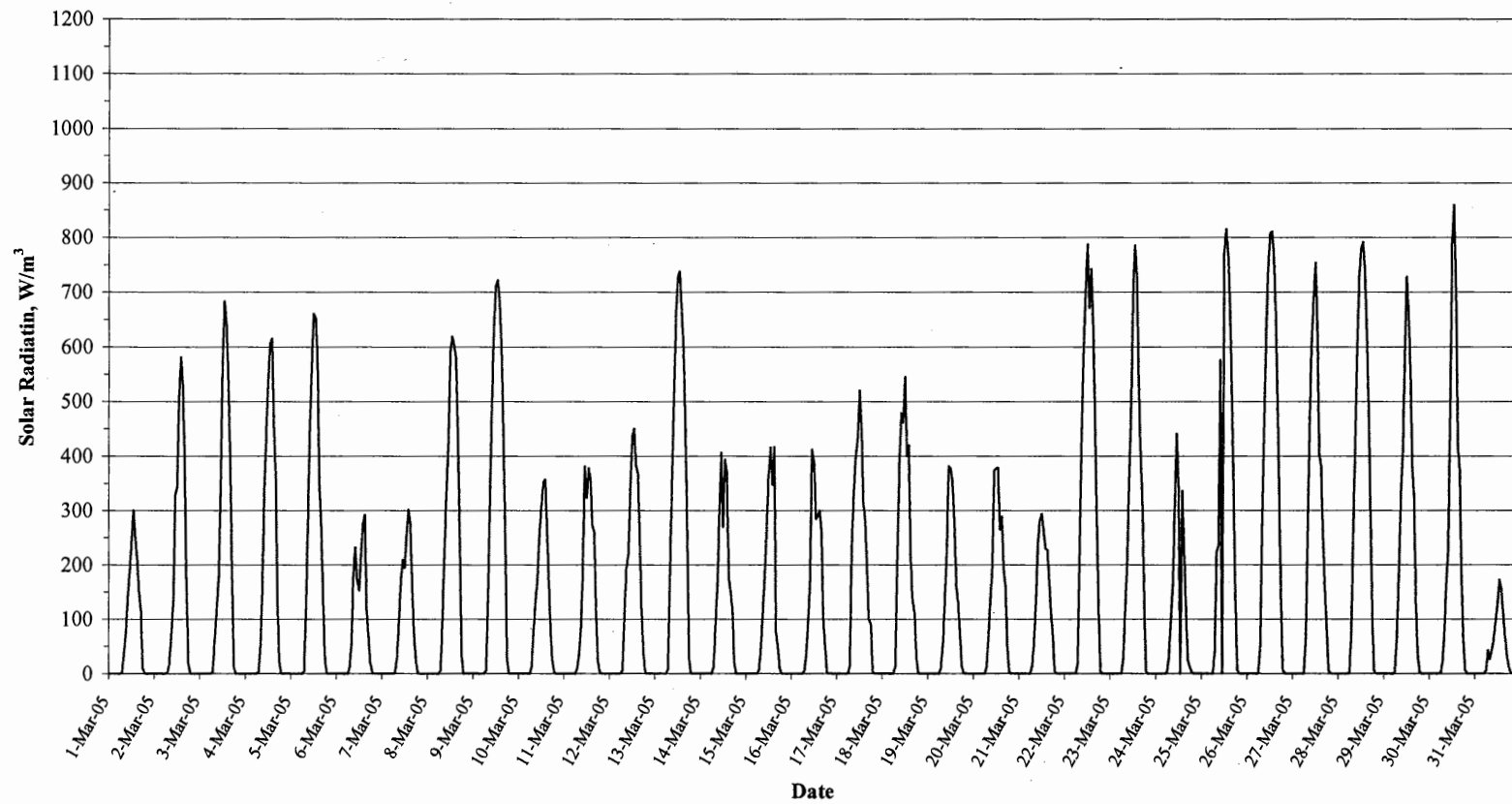
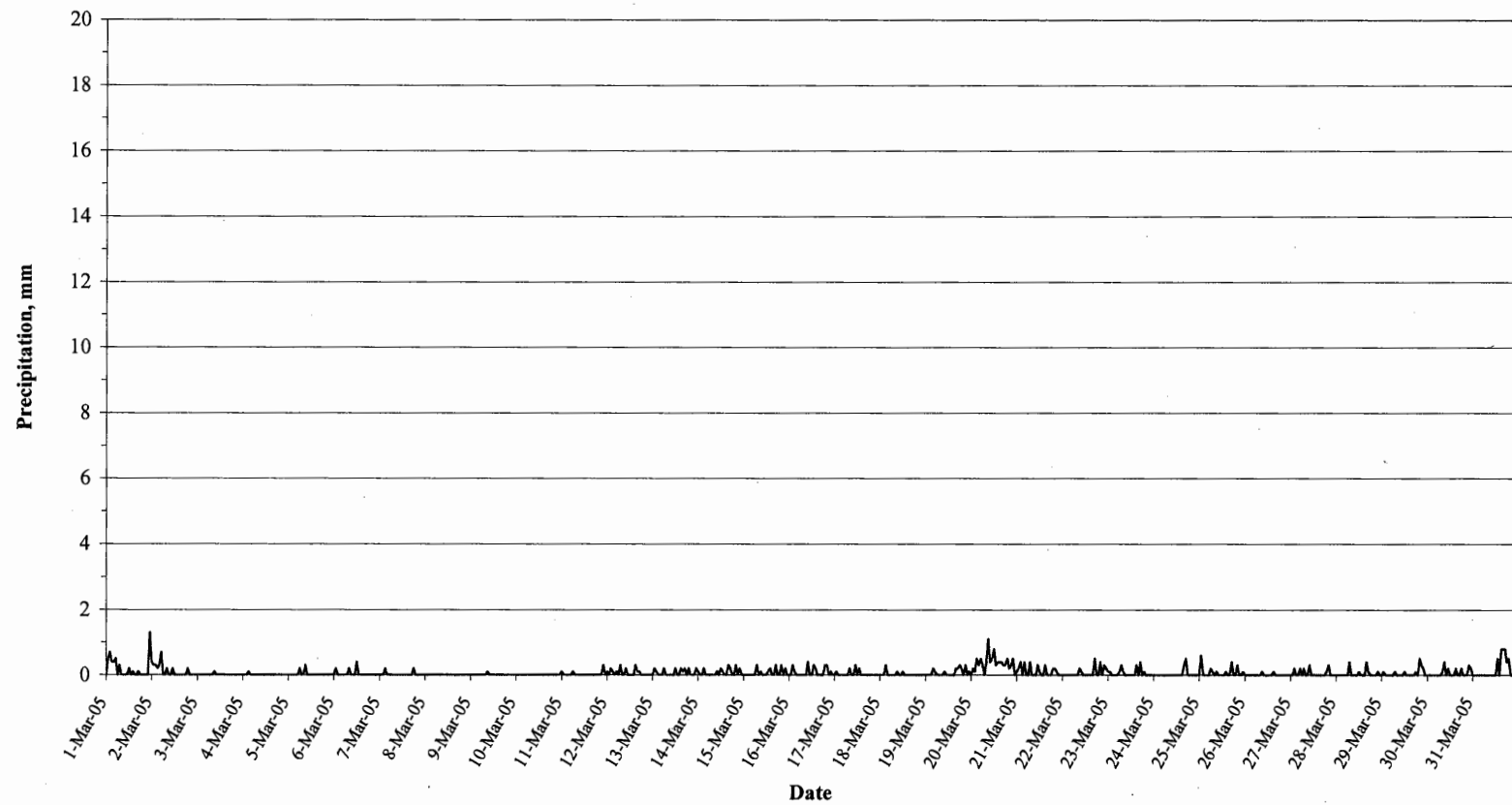


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
MARCH 2005**



Appendix K

April 2005 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
April 2005**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	25	µg/m ³	19-Apr-05
Second Maximum 24-Hour (Daily) Concentration ² :	21	µg/m ³	16-Apr-05
Monthly Data Collection Efficiency:	54.9	%	
Monthly Arithmetic Average:	8	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - April 2005)	12	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	NNE
Average Wind Direction Horizontal Deviation:	24 degrees
Average Wind Speed:	2.9 m/s
Average Temperature:	5.9 °C
Average Relative Humidity:	60 %
Average Solar Radiation:	215 W/m ²
Total Rain Fall:	37.5 mm
Monthly Data Collection Efficiency:	99.9 %

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 ug/m ³ :	16.6 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 ug/m ³ :	23.7 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

$M_{10} (\mu\text{g}/\text{m}^3)$

April 2005

395

0

INOP - InOperative ==

LF - Low Flow =

**Table 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
(One Hour Averages)**

April 2005																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	280	287	290	278	269	266	239	232	257	265	256	217	42	25	26	34	30	17	8	1	351	281	341	282	24
2	336	345	291	262	258	288	307	348	357	13	14	15	6	5	23	17	14	12	21	28	218	204	238	274	24
3	226	239	194	266	273	206	179	229	251	288	311	327	2	357	324	338	338	330	334	338	303	263	275	245	24
4	262	274	218	188	239	198	189	178	173	161	147	138	143	141	138	117	119	126	145	131	154	156	167	167	24
5	139	136	167	179	181	165	172	80	11	49	152	2	26	26	4	38	97	121	29	69	55	69	151	225	24
6	35	78	118	121	118	128	107	132	19	154	87	62	74	75	92	70	95	83	38	10	6	359	1	294	24
7	239	270	274	281	262	293	275	275	277	275	283	307	293	322	347	348	343	353	8	9	289	248	267	284	24
8	232	203	249	219	207	176	187	179	180	148	138	117	132	153	142	95	104	121	111	128	152	172	185	187	24
9	181	183	189	200	201	206	200	200	200	201	199	206	208	186	214	186	175	171	169	175	183	198	202	205	24
10	202	197	192	141	170	144	176	171	169	172	160	138	140	87	122	141	145	134	121	109	133	129	140	144	24
11	154	155	152	149	144	144	143	150	150	152	148	140	145	141	138	144	140	150	132	131	126	134	147	149	24
12	147	148	148	145	141	145	151	146	153	148	141	138	93	81	93	87	89	84	95	103	161	208	214	134	24
13	65	270	300	270	268	276	279	259	4	36	64	46	27	31	30	37	23	37	15	355	205	249	254	269	24
14	263	212	219	228	244	249	275	217	79	NA	69	38	27	40	35	32	43	59	65	101	122	143	155	171	23
15	163	156	154	179	192	197	201	200	192	193	189	199	211	199	194	186	189	189	186	178	185	191	195	201	24
16	204	205	204	204	210	217	235	235	204	208	227	223	247	259	304	45	33	61	95	130	203	238	239	238	24
17	240	248	240	243	242	238	201	237	259	278	184	16	41	35	35	28	50	57	85	118	134	141	166	180	24
18	179	176	185	191	187	188	191	192	201	189	201	207	195	178	173	194	202	198	188	191	188	189	194	202	24
19	211	211	220	238	234	241	240	243	245	248	271	252	240	341	3	246	27	55	56	36	30	12	8	2	24
20	28	38	36	46	25	16	15	18	16	17	22	16	15	8	13	19	24	16	7	1	310	264	266	265	24
21	275	241	183	214	243	176	200	205	150	158	179	211	184	39	40	36	29	74	108	126	146	260	239	200	24
22	207	212	230	231	268	330	353	6	14	23	22	19	16	11	8	10	11	15	14	19	16	10	19	25	24
23	26	23	21	17	20	17	11	11	14	8	8	4	3	353	357	356	4	1	359	6	6	14	13	15	24
24	11	12	7	7	6	358	360	358	355	355	350	347	343	350	350	351	345	345	341	327	313	324	307	299	24
25	298	282	287	306	307	320	307	301	306	333	336	332	344	15	4	6	26	26	16	3	343	287	318	331	24
26	329	308	319	305	285	289	285	280	283	276	286	290	296	288	309	328	343	30	65	88	353	355	358	345	24
27	308	305	239	148	257	279	316	319	333	327	326	297	314	338	328	298	310	310	295	287	285	279	259	244	24
28	240	239	266	279	266	254	248	236	265	281	288	271	250	250	251	220	57	81	57	81	97	176	226	253	24
29	189	236	273	302	274	190	210	260	262	4	280	266	276	281	297	262	294	297	80	138	167	219	230	217	24
30	214	173	215	235	236	243	249	253	272	293	294	298	279	284	306	270	240	275	282	286	291	262	245	231	24
Readings	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	

Data Capture: 99.9 %

Total Valid Hours = 719

			Hours				Hours				Hours
System Codes:	NA	- Not Available =	1	AUD	- Audit =	0	ACAL	- Auto Cal =	0		
	RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative =	0		
	Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail =	0		
	MISS	- Data Not Collected =	0								

**Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)**

April 2005																								Daily Avg.	Total Readings																							
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																								
1	20	19	22	18	15	16	23	26	19	22	47	59	18	16	17	24	19	18	19	9	22	72	23	36	25	24																						
2	18	14	67	49	31	58	36	56	55	14	18	19	17	21	23	24	20	16	15	23	44	33	51	6	30	24																						
3	22	31	37	13	7	66	28	40	25	38	38	37	30	38	34	28	25	24	19	13	28	15	18	40	29	24																						
4	36	21	18	61	34	30	21	15	20	13	24	20	15	17	17	22	18	18	12	19	23	22	18	21	22	24																						
5	47	25	24	21	18	28	23	89	22	41	29	46	23	13	16	28	35	52	31	48	43	45	81	42	36	24																						
6	16	37	17	18	22	16	21	25	59	57	33	25	26	33	28	26	28	36	34	17	15	14	57	48	30	24																						
7	18	17	18	25	28	21	16	13	16	18	22	28	25	35	23	20	18	18	15	10	68	25	30	36	23	24																						
8	17	17	73	23	12	45	18	17	18	43	28	33	46	43	35	29	21	18	18	14	15	13	14	15	26	24																						
9	14	14	17	16	15	14	13	15	16	19	15	19	26	20	21	19	20	15	13	12	16	16	21	21	17	24																						
10	18	17	19	32	71	65	12	13	13	15	16	16	14	26	28	13	16	15	20	19	14	15	13	12	21	24																						
11	15	16	19	16	16	16	16	14	15	18	20	19	20	18	21	21	18	18	14	19	16	14	16	14	17	24																						
12	15	14	13	15	14	14	12	14	14	19	19	23	29	26	26	27	27	23	26	29	55	30	47	39	24	24																						
13	45	42	34	13	29	22	10	19	67	20	29	24	21	16	22	22	22	22	18	14	61	18	16	71	28	24																						
14	62	25	30	53	82	37	57	14	69	NA	40	32	32	21	20	17	29	21	24	21	10	10	10	10	32	23																						
15	10	16	16	18	17	17	18	19	17	17	17	22	21	23	26	20	21	16	13	14	13	15	16	19	18	24																						
16	20	22	15	15	15	16	19	19	13	13	27	34	32	35	74	51	32	21	25	16	29	14	14	14	24	24																						
17	17	17	12	14	11	16	32	23	23	55	58	85	24	20	18	19	23	22	24	21	10	13	12	13	24	24																						
18	17	17	11	10	14	18	15	21	16	16	20	19	25	21	18	17	19	16	12	11	11	12	12	11	16	24																						
19	11	10	14	15	15	15	14	17	19	26	24	26	23	43	98	51	63	63	68	19	23	11	13	14	29	24																						
20	15	15	15	18	16	14	13	14	14	14	17	17	17	19	16	20	16	19	19	13	39	37	15	12	18	24																						
21	12	38	36	26	37	15	16	15	23	25	59	67	69	81	23	21	18	26	25	16	12	33	27	8	30	24																						
22	13	12	26	18	65	25	17	14	16	18	16	15	13	15	14	13	14	13	14	14	13	13	15	15	18	24																						
23	14	14	14	14	15	14	14	14	15	16	16	17	16	17	16	17	16	15	15	14	14	13	14	14	15	24																						
24	16	15	16	15	15	14	14	15	14	15	16	17	20	18	18	16	18	18	19	23	26	26	26	23	18	24																						
25	25	28	28	23	23	26	24	24	27	25	26	28	24	22	24	24	17	15	16	14	27	32	25	24	24	24																						
26	23	24	24	26	17	20	20	18	19	21	26	32	34	28	30	32	23	44	24	83	28	16	14	22	27	24																						
27	30	26	32	33	27	16	25	23	22	27	28	26	31	28	37	29	28	29	22	21	21	18	15	14	25	24																						
28	14	16	17	17	17	17	17	15	27	25	33	30	24	30	39	50	57	25	21	31	24	23	51	48	28	24																						
29	14	58	31	22	25	21	12	18	21	0	26	24	26	31	41	39	46	58	89	19	14	29	21	14	29	24																						
30	13	26	28	12	18	13	16	18	20	26	26	26	27	31	29	48	35	26	21	23	22	23	14	13	23	24																						
Hour Avg.:	20.9	22.1	24.8	22.3	24.7	24.2	19.7	21.9	24.5	23.3	27.1	29.5	25.6	26.8	28.4	26.2	25.4	24.7	23.5	20.6	25.2	22.3	24.0	23.0																								
Readings	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30																								
Monthly Avg.:	24 °		Standard Deviation:				13.9		Data Capture:		99.9 %												Total Valid Hours =		719																							
											Hours										Hours										Hours																	
System Codes:	NA - Not Available =								1								AUD - Audit =								0								ACAL - Auto Cal =								0							
	RNG - Range =								0								M&R - Maintenance & Repair =								0								INOP - InOperative =								0							
	Cal - Calibration =								0								MCAL - Manual Calibration =								0								PF - Power Fail =								0							
	MISS - Data Not Collected =								0																																							

April 2005

Monthly Avg.:	2.9 m/s	Standard Deviation:	1.8	Data Capture:	99.9 %	Total Valid Hours =	719
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		Hours			Hours			Hours
System Codes:	NA - Not Available =	1	AUD - Audit =		0	ACAL - Auto Cal =		0
	RNG - Range =	0	M&R - Maintenance & Repair =		0	INOP - InOperative =		0
	Cal - Calibration =	0	MCAL - Manual Calibration =		0	PF - Power Fail =		0
	MISS - Data Not Collected =	0						

(One Hour Averages)

April 2005

April 2005																									Daily Avg.	Daily Max.	Total Readings					
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
1	4.2	5.5	5.2	4.4	3.7	3.0	2.4	2.8	5.4	7.2	9.6	10.3	8.4	7.4	6.7	6.9	6.1	5.8	4.6	3.0	1.5	0.6	0.4	-0.7	4.8	10.3	24					
2	0.5	0.9	-0.3	-1.6	-2.8	-3.5	-3.7	-1.0	1.3	3.2	4.1	4.6	4.8	5.1	5.5	5.7	6.0	5.7	4.9	3.0	0.3	-1.4	-2.0	-1.9	1.6	6.0	24					
3	-3.0	-3.9	-4.6	-3.2	-1.6	-1.7	-2.9	-2.1	2.9	7.0	8.4	9.3	10.2	10.4	10.3	10.5	10.4	10.4	9.5	7.7	5.8	3.5	1.9	-1.1	3.9	10.5	24					
4	1.0	-0.8	-1.4	-1.1	-2.1	-3.1	-3.0	-1.5	3.3	8.1	9.4	10.6	11.4	11.9	12.2	11.8	11.5	10.6	9.7	9.5	8.7	8.4	8.0	8.0	5.9	12.2	24					
5	7.8	7.8	8.0	7.9	8.5	8.3	7.1	7.2	6.1	9.7	12.7	15.4	15.7	13.3	8.2	8.3	6.9	6.6	3.8	1.8	1.9	2.0	2.6	2.6	7.5	15.7	24					
6	2.9	2.5	2.5	2.8	3.0	3.1	3.2	3.2	3.0	2.2	2.5	2.2	2.1	1.8	2.0	2.2	2.0	1.9	1.8	1.7	1.7	2.1	2.6	2.5	2.4	3.2	24					
7	1.6	1.1	0.4	1.2	0.8	1.0	1.0	2.0	4.4	7.1	8.8	9.9	11.0	12.5	12.8	12.6	12.3	11.7	10.8	9.1	6.4	4.3	2.3	0.9	6.1	12.8	24					
8	-0.1	-1.0	-0.8	-1.8	-2.1	-2.5	-2.0	-0.7	5.6	11.4	11.8	12.3	13.2	13.5	14.0	13.4	12.6	11.9	10.3	8.1	7.8	8.0	7.9	7.8	6.6	14.0	24					
9	7.4	7.2	7.0	6.7	6.6	6.6	6.7	7.4	9.7	11.4	13.3	14.9	16.6	18.1	18.5	18.7	18.5	18.1	16.5	14.6	13.2	12.0	11.4	11.2	12.2	18.7	24					
10	10.6	9.9	9.5	8.9	8.1	7.5	8.0	8.5	10.8	13.0	15.4	16.6	16.8	16.2	15.9	16.2	16.8	16.9	16.0	13.4	11.5	11.5	10.9	10.7	12.5	16.9	24					
11	10.5	9.9	9.1	8.5	7.8	6.9	6.2	6.1	6.4	8.1	9.5	12.3	13.3	13.9	15.3	16.2	16.3	15.6	14.1	11.7	9.7	8.0	7.2	6.3	10.4	16.3	24					
12	5.9	4.8	3.9	3.7	3.8	3.8	3.3	3.6	5.0	7.4	9.1	10.6	11.0	10.5	9.7	8.9	8.5	8.4	7.7	6.5	4.4	3.1	2.2	2.7	6.2	11.0	24					
13	4.0	0.4	-1.3	-2.4	-2.5	-2.9	-2.5	0.5	5.7	7.6	9.0	9.8	10.3	10.4	10.7	10.8	10.5	10.3	9.2	7.4	4.3	2.5	2.0	1.5	4.8	10.8	24					
14	-0.2	-0.6	-0.2	-1.4	-0.9	-1.9	-1.7	-0.2	5.5	NA	9.0	10.7	11.3	10.8	10.3	9.9	9.7	8.5	8.1	6.3	3.5	3.5	4.4	4.7	4.7	11.3	23					
15	5.4	6.4	6.8	6.6	6.9	6.5	6.2	7.1	8.4	9.9	12.2	14.4	16.0	17.2	18.3	18.9	19.0	18.8	17.7	15.1	12.5	11.1	10.1	9.6	11.7	19.0	24					
16	9.8	9.3	8.6	8.1	8.6	9.2	9.4	9.6	10.3	11.2	13.3	14.9	16.2	16.3	16.5	16.0	15.8	15.3	14.6	13.2	12.8	12.2	11.4	10.2	12.2	16.5	24					
17	9.5	8.8	7.7	7.0	6.9	6.7	6.9	9.1	12.2	14.9	17.0	17.9	17.2	17.0	17.1	17.1	16.3	15.3	14.6	13.0	10.9	10.4	10.7	11.5	12.3	17.9	24					
18	11.5	10.4	9.7	9.5	9.4	9.8	10.5	11.7	12.6	12.3	15.2	17.5	16.9	14.0	19.5	23.5	24.8	24.5	24.1	22.6	20.6	19.2	18.1	17.3	16.1	24.8	24					
19	17.0	17.3	17.3	17.3	17.2	16.8	16.1	17.5	19.0	21.0	22.7	23.4	23.2	19.6	17.3	18.5	16.2	13.9	12.9	12.0	10.6	7.7	6.8	5.3	16.1	23.4	24					
20	4.7	5.1	4.4	4.5	3.8	2.6	1.5	1.0	0.4	0.3	0.7	0.9	1.0	1.2	1.4	1.5	1.2	1.0	0.8	0.1	-1.2	-1.9	-2.3	-2.2	1.3	5.1	24					
21	-2.2	-2.8	-2.9	-3.7	-4.1	-4.4	-4.6	-1.4	4.1	7.0	8.6	10.1	11.4	12.3	12.0	11.8	11.1	10.2	10.1	8.7	6.5	5.4	6.8	6.7	4.9	12.3	24					
22	7.3	6.6	5.7	5.2	4.3	3.5	2.2	2.8	3.1	3.0	1.2	0.1	-0.7	-0.9	-1.3	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-0.9	-0.5	-0.8	1.3	7.3	24					
23	-1.2	-1.5	-1.9	-2.4	-2.7	-3.0	-3.2	-3.3	-3.4	-3.3	-2.9	-2.8	-2.7	-2.3	-1.8	-1.3	-0.8	-0.4	-0.1	-0.5	-0.8	-1.0	-1.1	-1.1	-1.9	-0.1	24					
24	-1.5	-1.7	-2.0	-2.2	-1.9	-1.8	-1.6	-1.4	-1.1	-0.6	-0.1	0.7	1.9	2.9	4.6	5.4	6.0	6.4	6.4	5.0	3.6	2.8	2.7	2.5	1.5	6.4	24					
25	2.2	1.8	1.1	1.6	1.3	1.0	1.1	1.3	2.8	5.0	6.7	7.8	7.2	6.1	6.9	7.0	5.9	4.4	3.0	1.8	0.9	0.3	0.3	0.2	3.2	7.8	24					
26	0.3	0.1	-0.1	0.0	0.0	0.0	0.1	0.3	0.8	1.6	2.4	2.7	3.1	3.1	3.9	3.5	3.2	2.2	1.2	0.9	0.6	0.4	0.3	-0.1	1.3	3.9	24					
27	-0.4	-0.5	-0.9	-1.3	-1.1	-1.1	-0.6	-0.5	-0.3	0.4	0.7	0.1	1.5	1.7	1.9	1.4	0.8	0.9	0.5	0.4	0.1	-0.2	-0.7	-1.2	0.1	1.9	24					
28	-1.5	-1.5	-1.0	-0.5	-0.5	-1.0	-1.2	-0.1	1.6	2.4	3.0	3.5	4.0	4.6	5.0	5.2	4.6	4.3	4.0	3.5	2.9	1.9	1.1	0.4	1.9	5.2	24					
29	0.1	0.3	0.4	0.7	0.6	0.4	0.5	2.3	3.5	0.0	4.9	4.8	4.9	5.5	6.1	6.4	6.3	6.2	5.4	3.8	2.8	2.1	1.9	2.1	3.0	6.4	24					
30	1.4	0.9	-0.2	-0.7	-1.1	-1.2	-0.7	1.5	3.1	4.3	5.1	5.3	4.7	4.9	4.5	4.3	3.8	4.6	4.8	4.8	3.8	2.5	2.2	2.3	2.7	5.3	24					
Hour Avg.:	3.9	3.4	3.0	2.7	2.6	2.3	2.2	3.1	5.1	6.6	8.1	9.0	9.4	9.3	9.5	9.7	9.4	9.0	8.2	6.9	5.5	4.7	4.3	3.9								
Hour Max.:	17.0	17.3	17.3	17.3	17.2	16.8	16.1	17.5	19.0	21.0	22.7	23.4	23.2	19.6	19.5	23.5	24.8	24.5	24.1	22.6	20.6	19.2	18.1	17.3								
Readings	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30								
Monthly Avg.:	5.9 °C		Standard Deviation:				6.1		Data Capture:				99.9 %														Total Valid Hours =	719				
System Codes:									Hours												Hours								Hours			
	NA	- Not Available =						1				AUD	- Audit =				0				ACAL	- Auto Cal =				0						
	RNG	- Range =						0				M&R	- Maintenance & Repair =				0				INOP	- InOperative =				0						
	Cal	- Calibration =						0				MCAL	- Manual Calibration =				0				PF	- Power Fail =				0						
	MISS	- Data Not Collected =						0																								

KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT

April 2005

		April 2005																							Daily Avg.	Daily Max.	Total Readings
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	66	57	57	60	62	64	66	64	54	47	38	31	49	53	56	54	57	58	67	81	90	91	86	90	62	91	24
2	80	73	77	83	91	93	94	86	73	59	53	47	44	42	40	38	36	35	41	48	60	70	76	75	63	94	24
3	80	85	90	84	68	68	78	77	48	36	30	30	29	29	29	31	32	31	33	40	47	56	63	78	53	90	24
4	71	78	82	77	84	87	86	75	55	31	29	27	22	20	21	23	21	23	27	23	24	18	15	15	43	87	24
5	15	17	20	26	35	41	47	48	49	41	37	33	32	36	48	48	57	60	91	98	99	99	99	98	53	99	24
6	98	98	96	93	90	84	82	84	87	96	96	97	98	99	99	99	99	99	99	99	100	100	100	100	96	100	24
7	100	100	100	100	100	100	99	92	78	63	51	48	44	35	30	27	28	31	33	37	47	57	69	76	64	100	24
8	81	87	84	89	89	90	86	75	55	27	24	24	23	22	22	29	30	32	36	43	40	36	34	35	50	90	24
9	37	38	38	36	36	37	40	39	37	37	33	29	24	23	23	25	26	27	32	37	38	40	40	39	34	40	24
10	40	42	39	42	46	43	36	36	33	30	29	28	29	34	35	32	30	30	38	43	37	35	36	36	46	24	
11	37	39	41	38	34	33	30	31	31	28	26	24	25	26	26	23	14	12	17	24	28	30	26	22	28	41	24
12	16	19	26	29	29	29	32	32	30	27	24	22	29	30	29	30	30	29	30	33	39	45	47	42	30	47	24
13	32	49	69	77	80	82	77	61	41	32	23	20	17	16	16	16	16	16	18	19	29	35	39	44	39	82	24
14	61	69	61	73	68	77	72	68	48	NA	40	36	34	38	37	37	39	42	48	58	70	60	56	58	54	77	23
15	47	29	23	26	28	29	36	33	29	26	25	24	21	19	18	15	15	15	16	25	32	33	37	44	27	47	24
16	46	47	48	49	47	46	47	48	48	47	48	46	48	48	47	50	52	55	56	60	72	78	80	83	54	83	24
17	85	89	92	94	93	93	91	82	68	51	32	27	49	50	46	44	46	47	46	48	53	56	61	53	62	94	24
18	48	54	64	71	72	73	70	65	62	68	60	56	60	84	64	42	36	37	38	43	51	57	60	62	58	84	24
19	62	59	59	59	59	62	64	59	55	50	46	44	44	58	71	68	85	90	93	96	98	98	98	99	70	99	24
20	99	99	99	99	99	99	100	100	100	100	98	96	93	89	85	81	82	82	78	79	87	92	94	94	93	100	24
21	91	92	94	96	97	97	95	88	66	42	39	32	30	35	44	43	42	43	39	43	53	62	57	62	62	97	24
22	59	64	69	69	72	73	75	69	72	79	96	96	98	98	98	96	92	89	84	82	83	84	71	64	81	98	24
23	64	67	68	70	71	74	73	72	70	70	68	68	69	66	62	63	63	64	65	69	75	78	78	76	69	78	24
24	79	80	82	83	83	84	83	82	82	81	78	76	73	67	57	51	46	44	45	53	59	62	60	60	69	84	24
25	61	63	67	68	71	74	74	75	68	54	43	36	36	47	36	37	53	64	74	84	88	90	92	91	64	92	24
26	90	94	97	98	98	99	99	99	97	93	86	84	81	81	75	80	81	87	96	97	98	99	99	99	92	99	24
27	97	94	94	97	97	98	99	99	98	93	89	93	82	79	84	87	97	95	95	95	95	94	93	94	93	99	24
28	95	94	90	91	93	91	89	85	73	64	58	53	50	47	47	47	54	57	59	61	63	69	74	80	70	95	24
29	85	83	83	83	92	94	93	80	67	0	46	51	47	48	46	43	42	43	47	65	76	80	80	77	65	94	24
30	89	92	96	97	95	94	91	84	75	60	51	48	53	54	59	62	70	59	56	48	51	57	60	61	69	97	24
Hour Avg.:	67.0	68.4	70.2	71.9	72.6	73.6	73.5	69.6	61.6	52.8	49.9	47.5	47.8	49.1	48.3	47.4	49.0	49.9	53.0	57.5	62.9	65.4	66.0	66.9			
Hour Max.:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	97.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	100.0	100.0	100.0	100.0			
Readings	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30			

Monthly Avg.:	60 %	Standard Deviation:	25.5	Data Capture:	99.9 %	Total Valid Hours =	719
---------------	------	---------------------	------	---------------	--------	---------------------	-----

Monthly Avg:	SD %	Standard Deviation	Hours	Data Capture:	SD %	Hours	Total Time and Hours	
System Codes:	NA	- Not Available =	1	AUD	- Audit =	0	ACAL	- Auto Cal = 0
	RNG	- Range =	0	M&R	- Maintenance & Repair =	0	INOP	- InOperative = 0
	Cal	- Calibration =	0	MCAL	- Manual Calibration =	0	PF	- Power Fail = 0
	MISS	- Data Not Collected =	0					

Table 8. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

Solar Radiation (W/m2)

(One Hour Averages)

April 2005

April 2025																														
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
	1	0	0	0	0	0	2	103	298	485	433	583	275	626	499	697	502	326	75	9	53	0	0	0	207	697	24			
2	0	0	0	0	0	0	3	120	315	493	649	771	836	840	800	698	550	366	131	13	7	0	0	0	275	840	24			
3	0	0	0	0	0	0	3	53	312	484	639	753	817	816	751	658	516	336	150	15	0	0	0	0	263	817	24			
4	0	0	0	0	0	0	6	120	309	492	646	737	781	817	516	476	422	199	46	4	0	0	0	0	232	817	24			
5	0	0	0	0	0	0	6	74	187	387	505	592	722	774	729	595	114	24	7	0	0	0	0	0	197	774	24			
6	0	0	0	0	0	0	3	11	6	6	35	55	62	42	66	62	42	46	22	2	0	0	0	0	19	66	24			
7	0	0	0	0	0	0	8	181	343	505	668	780	843	695	468	391	270	294	187	36	26	0	0	0	237	843	24			
8	0	0	0	0	0	0	7	162	341	522	675	788	848	848	804	701	546	357	158	13	0	0	0	0	282	848	24			
9	0	0	0	0	0	0	8	137	335	516	663	781	849	829	644	565	407	276	79	8	0	0	0	0	254	849	24			
10	0	0	0	0	0	0	12	138	320	505	592	413	299	338	198	235	382	367	154	23	60	18	0	0	169	592	24			
11	0	0	0	NA	0	0	9	69	209	361	417	554	833	797	783	654	459	274	111	23	53	NA	NA	0	267	833	21			
12	0	0	0	0	0	0	19	133	291	511	684	804	764	871	824	722	571	386	204	34	0	0	0	0	284	871	24			
13	0	0	0	0	0	0	18	194	363	547	701	807	869	869	819	715	571	392	203	35	0	0	0	0	296	869	24			
14	0	0	0	0	0	0	20	181	369	NA	706	815	880	883	838	737	585	404	211	39	0	0	0	0	290	883	23			
15	0	0	0	0	0	0	20	183	376	558	710	817	878	871	831	696	505	369	134	38	0	0	0	0	291	878	24			
16	0	0	0	0	0	0	7	58	82	149	337	573	562	283	329	339	303	151	70	8	0	0	0	0	135	573	24			
17	0	0	0	0	0	0	44	192	361	539	708	815	868	862	805	713	567	393	207	43	0	0	0	0	297	868	24			
18	0	0	0	0	0	0	24	127	190	165	487	283	200	136	684	682	518	213	157	32	0	0	0	0	162	684	24			
19	0	0	0	0	0	0	26	146	325	507	577	690	410	242	198	127	73	40	18	5	0	0	0	0	141	690	24			
20	0	0	0	0	0	0	2	15	39	100	171	216	267	299	316	228	173	157	156	53	0	0	0	0	91	316	24			
21	0	0	0	0	0	0	29	180	405	583	733	839	901	896	837	740	495	376	237	55	0	0	0	0	304	901	24			
22	0	0	0	0	0	0	34	192	396	274	85	114	165	268	217	123	70	44	28	14	0	0	0	0	84	396	24			
23	0	0	0	0	0	0	6	32	79	157	289	299	282	390	379	297	221	199	214	37	1	NA	NA	NA	137	390	21			
24	NA	NA	0	0	0	0	9	31	50	146	234	352	595	740	840	747	599	429	231	65	NA	NA	NA	NA	282	840	18			
25	NA	NA	NA	0	0	0	30	72	219	510	764	725	508	698	837	774	614	338	217	NA	NA	NA	NA	NA	NA	837	16			
26	NA	NA	NA	NA	NA	NA	NA	242	220	235	259	281	280	280	334	255	112	37	NA	NA	NA	0	0	NA	NA	334	13			
27	NA	NA	NA	NA	NA	NA	129	160	226	270	241	241	361	304	337	272	171	112	86	NA	NA	0	0	NA	NA	361	15			
28	NA	NA	NA	NA	NA	NA	83	218	391	351	474	281	307	272	276	215	149	104	63	17	1	NA	NA	0	NA	474	16			
29	0	0	0	0	0	0	28	180	201	NA	304	351	253	637	430	312	191	159	65	32	1	NA	NA	0	150	637	21			
30	0	0	0	0	0	1	79	253	243	390	487	333	213	219	156	206	182	151	86	42	NA	NA	NA	0	145	487	21			
Hour Avg.:	0	0	0	0	0	0	23	132	260	384	496	548	558	581	552	488	363	244	128	26	8	1	0	0						
Hour Max.:	0	0	0	0	0	1	129	253	405	583	764	839	901	896	840	774	614	429	237	65	60	18	0	0						
Readings	25	25	26	26	27	27	29	30	30	28	30	30	30	30	30	30	30	30	29	27	25	23	23	25						
Monthly Avg.:	215 W/m2		Standard Deviation:				271.5		Data Capture:				92.4 %				Total Valid Hours =												665	
System Codes:	NA - Not Available =		55				AUD - Audit =				0				ACAL - Auto Cal =				0											
	RNG - Range =		0				M&R - Maintenance & Repair =				0				INOP - InOperative =				0											
	Cal - Calibration =		0				MCAL - Manual Calibration =				0				PF - Power Fail =				0											
	MISS - Data Not Collected =		0																											

**Table 9. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION**

**Rain Fall (mm)
(One Hour Averages)**

April 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings
DAY																										
1	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	NA	0.1	0.0	NA	NA	0.5	NA	NA	NA	0.5	0.0	NA	0.1	1.8	16
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	0.6	NA	0.1	0.0	0.0	0.0	0.0	0.7	21
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.1	NA	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.6	22
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	NA	0.1	0.0	NA	0.5	0.0	0.6	0.6	0.0	0.0	0.0	1.9	22
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	7.1	4.8	1.9	0.4	0.8	1.1	0.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	19.7	24
7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	NA	0.1	0.0	NA	0.0	NA	0.3	NA	1.2	20
8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	NA	0.1	NA	NA	0.6	0.0	0.0	NA	0.0	0.0	0.0	0.9	20
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	NA	0.1	0.0	NA	0.1	0.0	0.1	NA	0.0	0.0	0.4	21
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	0.1	0.1	0.0	NA	0.0	0.0	0.3	21
11	0.0	0.0	NA	NA	0.1	NA	0.1	NA	0.0	NA	0.0	NA	NA	NA	0.0	NA	NA	NA	0.0	NA	0.3	NA	NA	0.2	0.7	10
12	NA	0.0	0.0	0.0	0.0	NA	0.0	NA	0.0	NA	0.0	0.0	0.0	0.0	NA	NA	0.0	NA	NA	NA	0.0	0.5	0.0	0.0	0.5	15
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	NA	NA	NA	0.0	0.0	0.0	NA	NA	NA	0.4	0.0	0.1	0.0	0.5	17
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	0.0	NA	0.1	0.0	0.0	0.0	0.1	NA	NA	0.6	NA	0.0	0.0	0.8	16
15	0.0	NA	NA	NA	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	NA	0.0	0.0	NA	NA	NA	NA	NA	0.0	0.0	NA	NA	0.0	10
16	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	NA	0.1	NA	0.1	0.0	0.0	0.2	19
17	NA	0.1	NA	0.0	0.0	0.0	NA	NA	0.0	0.0	NA	NA	0.1	NA	0.1	NA	NA	0.1	NA	NA	0.4	0.0	0.0	0.0	0.8	13
18	NA	0.0	0.1	NA	NA	0.0	0.0	0.0	NA	NA	NA	NA	0.0	0.0	0.0	NA	0.2	NA	0.1	0.1	0.0	NA	NA	0.0	0.5	13
19	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	NA	NA	0.1	0.1	0.0	0.0	0.0	NA	0.0	0.0	0.5	0.0	0.0	1.3	21
20	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	NA	0.0	0.3	0.0	0.1	0.0	NA	0.2	1.3	22
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.2	NA	0.0	0.0	0.0	0.0	0.1	NA	0.0	0.0	0.0	0.0	1.0	22
22	0.0	0.0	0.0	0.0	0.1	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.1	NA	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.1	0.0	0.0	0.0	0.0	0.1	23
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	23
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.2	0.0	0.0	0.0	0.1	0.2	NA	0.1	0.6	22
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	NA	0.2	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.4	22
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.1	23
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	NA	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.2	22
Hour Avg.:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	NA	0.0	NA	0.1	NA	NA	NA	NA	NA	0.1	0.1	0.0	0.0		
Hour Max.:	0.4	0.1	0.1	0.4	0.1	0.0	0.1	0.5	2.3	7.1	4.8	1.9	0.4	0.8	1.1	0.4	0.5	0.6	0.3	0.6	0.8	0.5	0.3	0.2		
Readings	26	29	26	27	28	28	29	24	27	24	27	22	25	22	26	19	22	19	20	20	28	24	24	28		

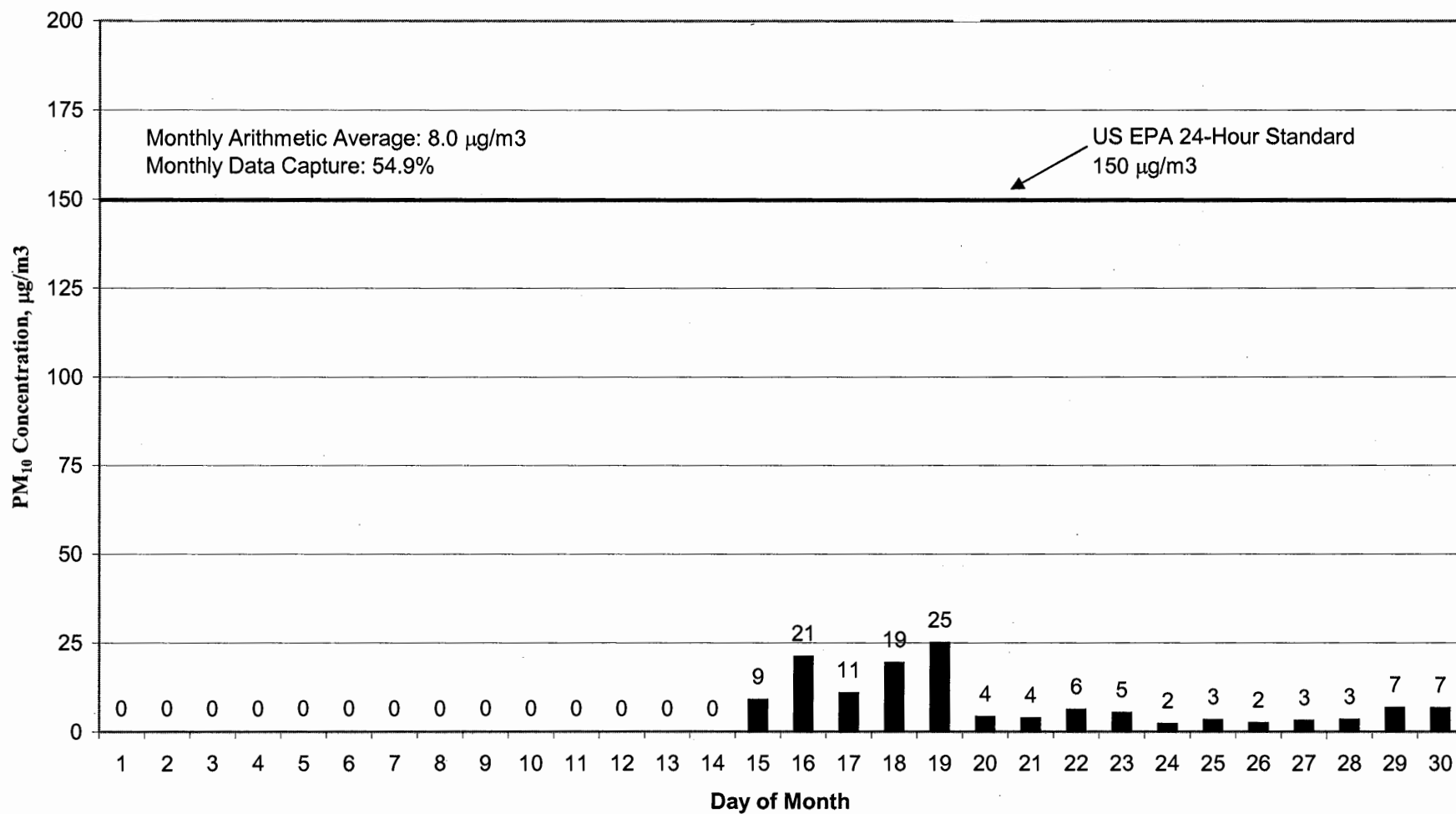
Monthly Total: 37.5 mm

Data Capture: 79.8 %

Total Valid Hours = 594

System Codes:	NA - Not Available =	126	AUD - Audit =	0	ACAL - Auto Cal =	0
	RNG - Range =	0	M&R - Maintenance & Repair =	0	INOP - InOperative =	0
	Cal - Calibration =	0	MCAL - Manual Calibration =	0	PF - Power Fail =	0
	MISS - Data Not Collected =	0				

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
April 2005



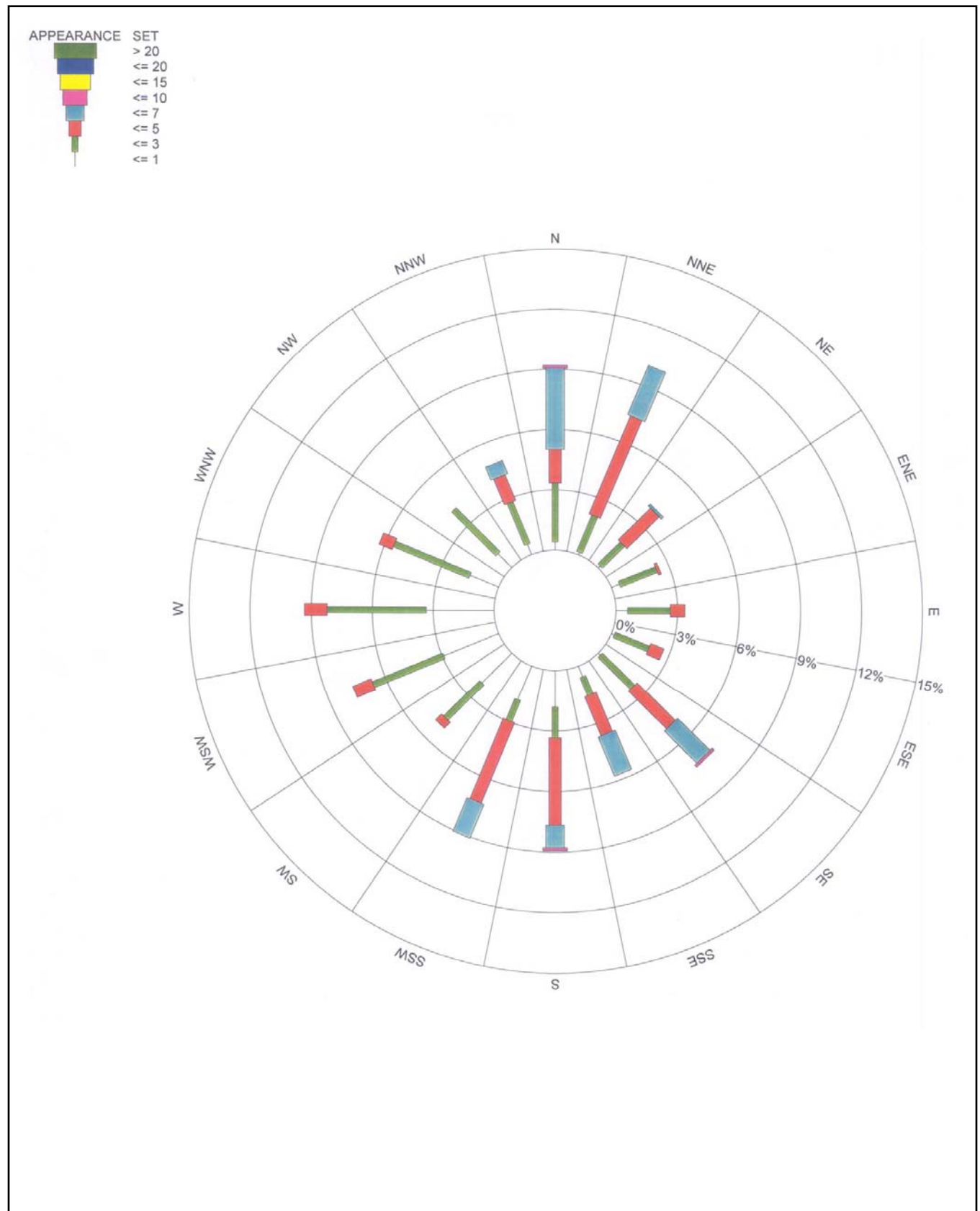


Figure 2
Wind Speed, 1-Hour Average, m/s, KMC Eagle Station
(Discluding Invalid Data) Overall Average: 2.91866

Source: Golder, 2005.

Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
APRIL 2005

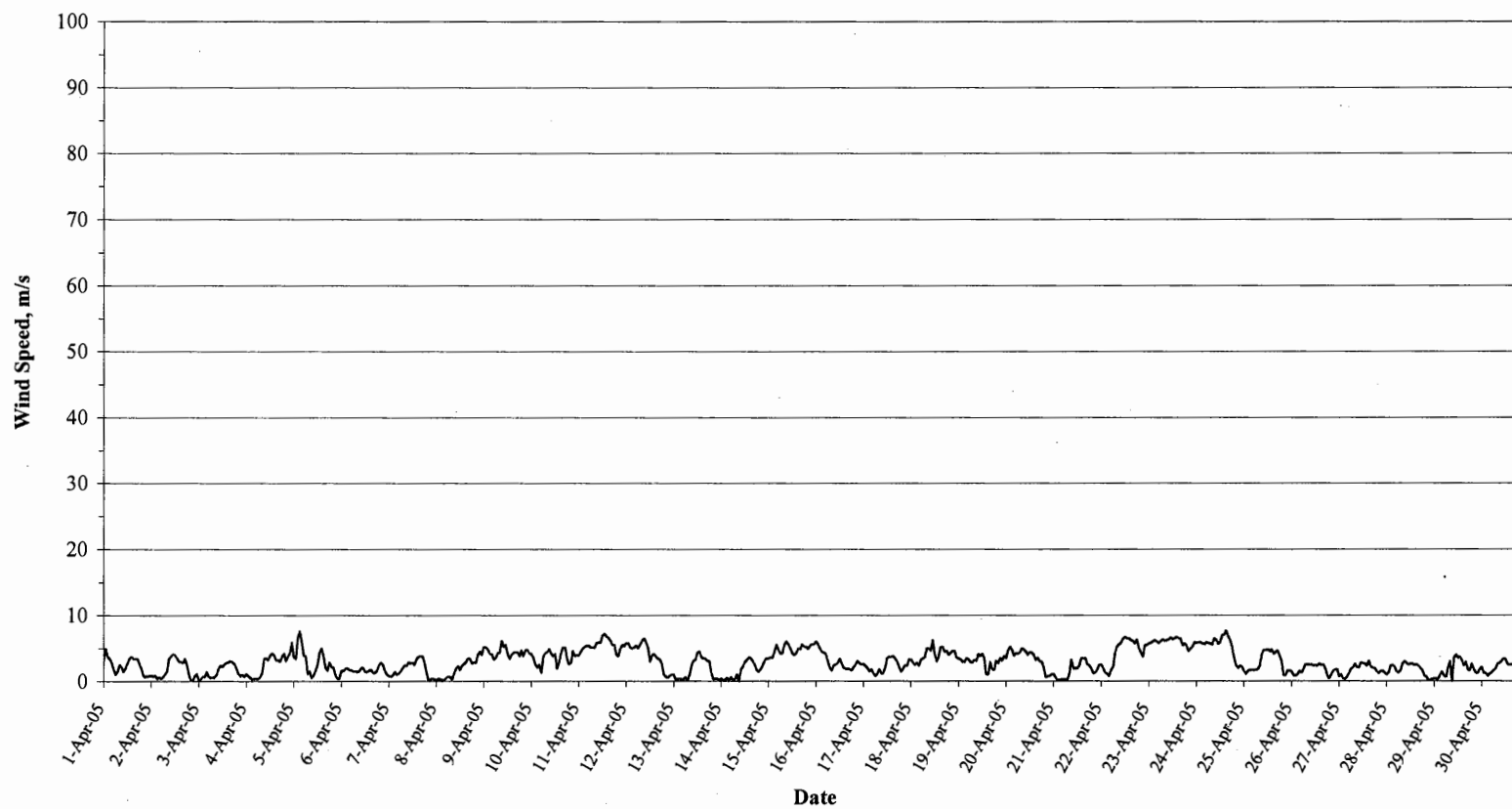


**Figure 4. KENNECOTT MINERAL CORPORATION AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
APRIL 2005**

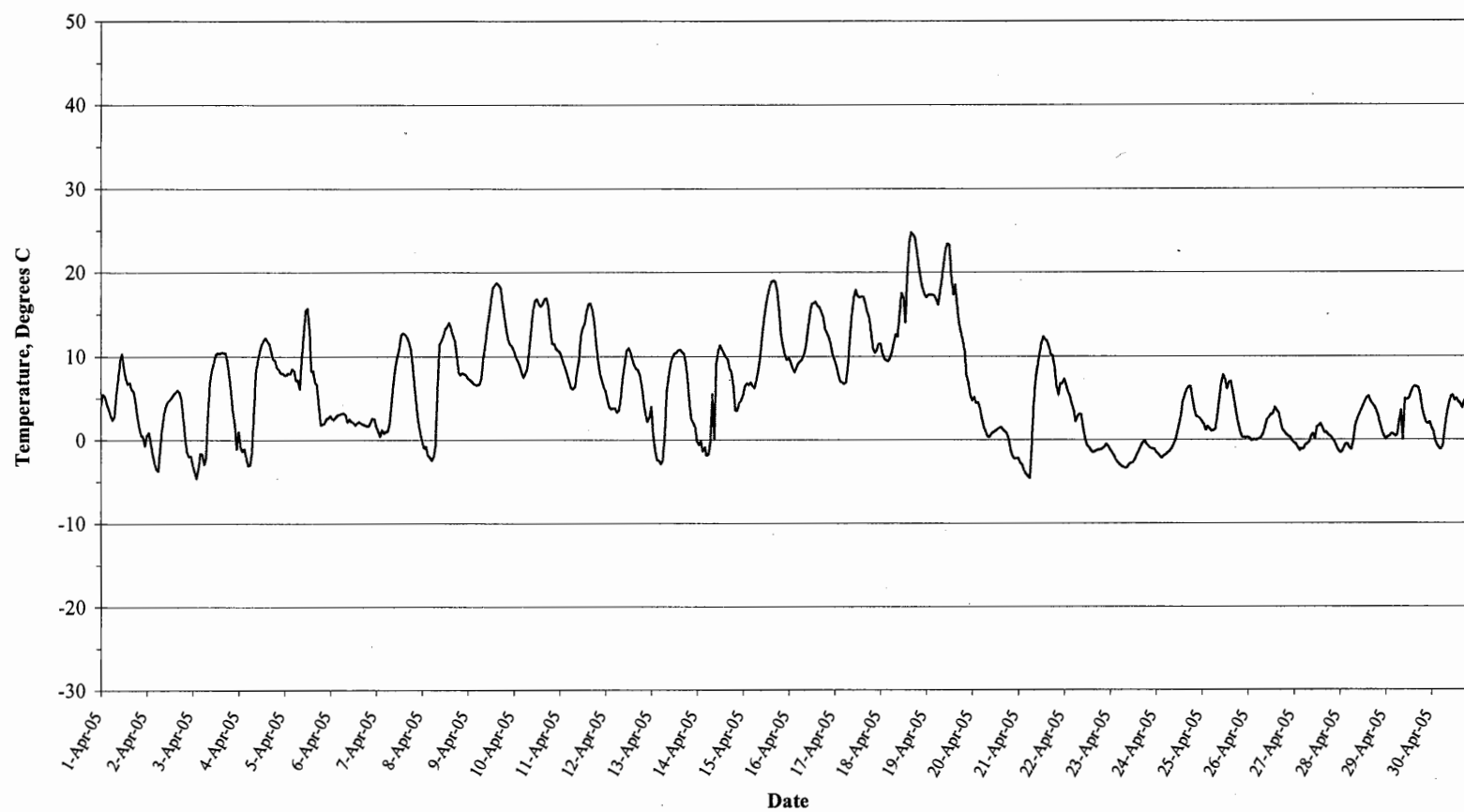


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
APRIL 2005

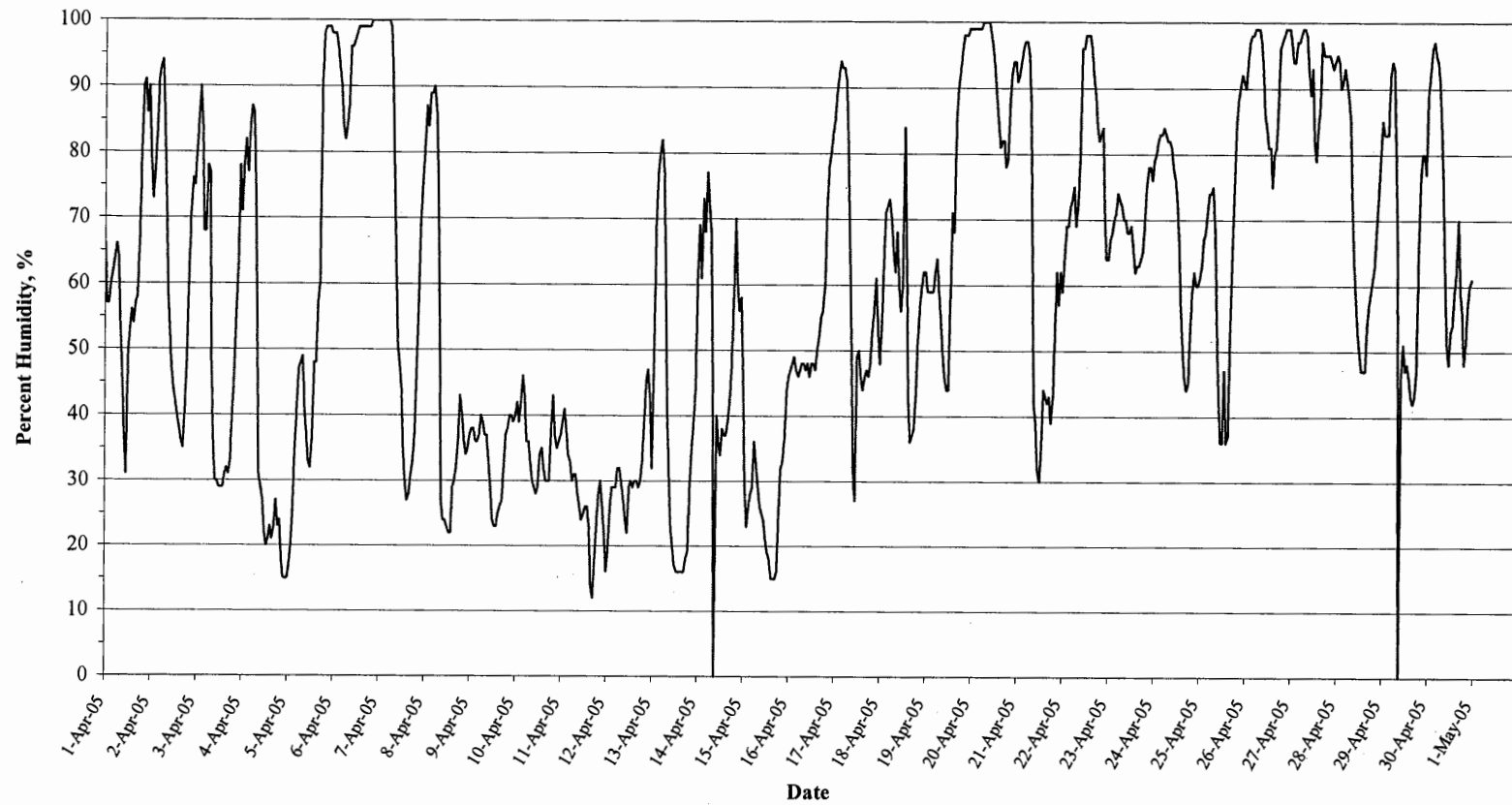


**Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
APRIL 2005**

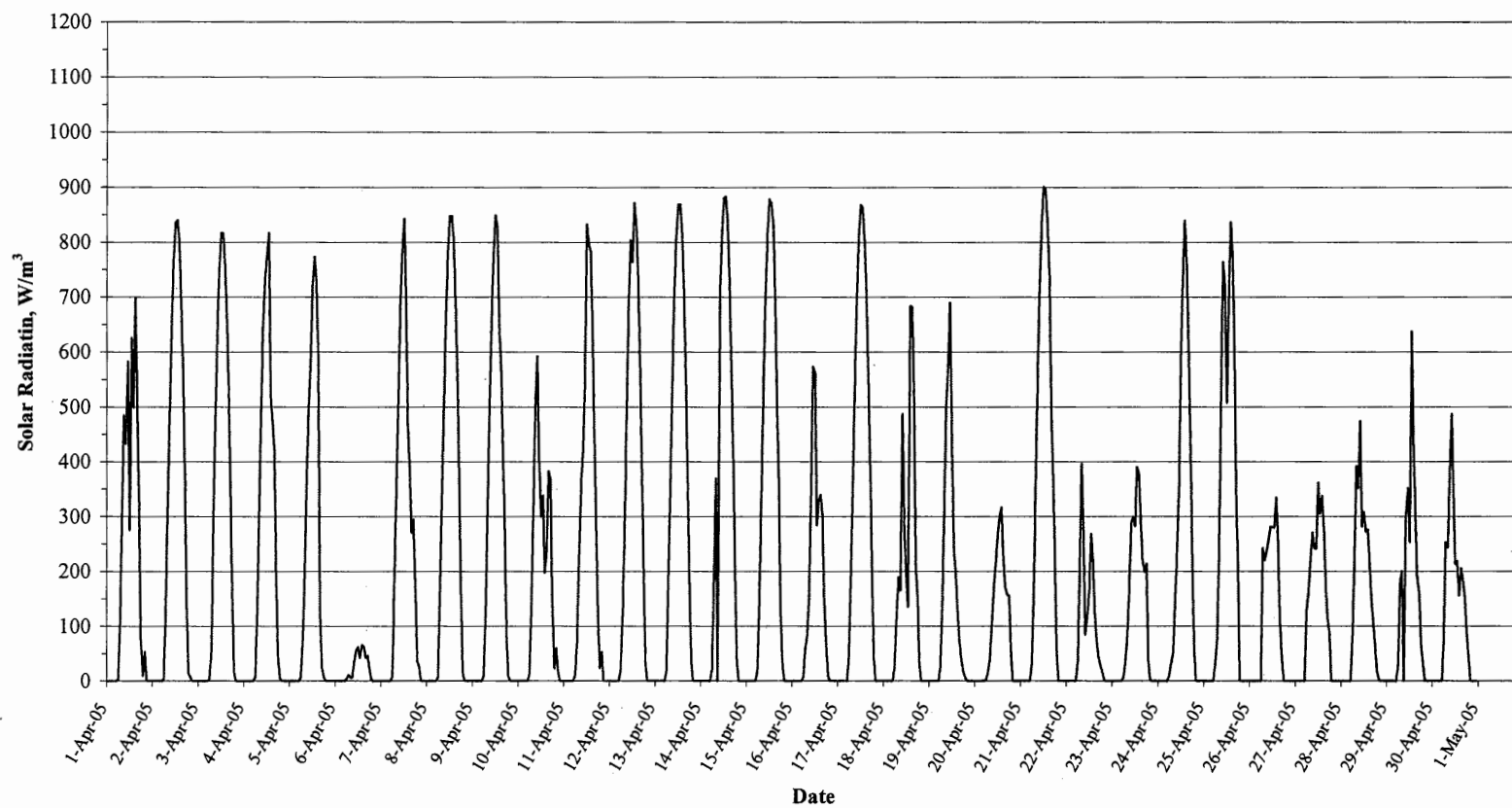
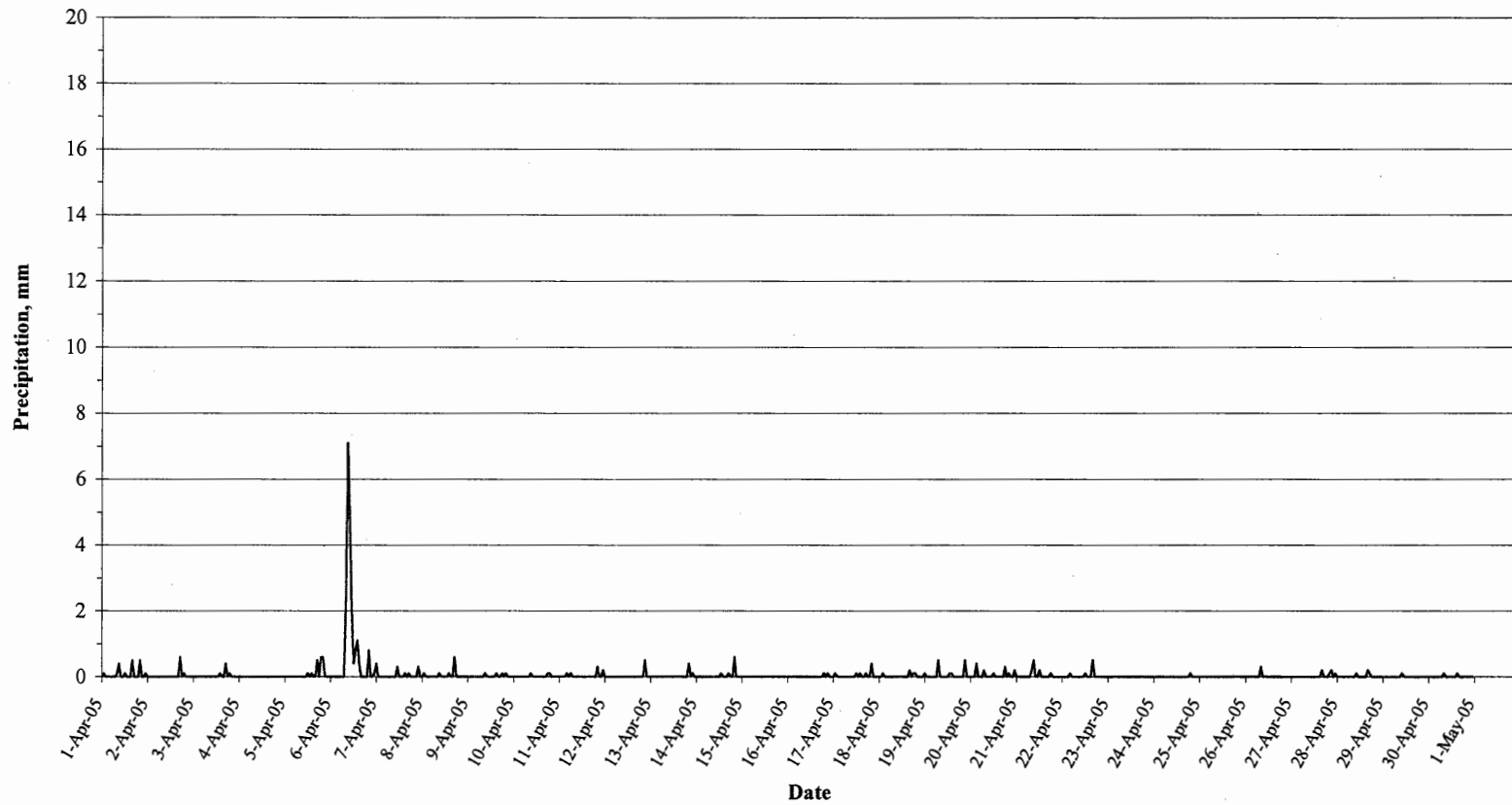


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
APRIL 2005**



Appendix L

May 2005 Monthly Data Report with Windrose

**Table 1. DATA SUMMARY FOR
KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
May 2005**

Inhalable Particulates - KMC Eagle Station

Maximum 24-Hour (Daily) Concentration ¹ :	24	µg/m ³	5-May-05
Second Maximum 24-Hour (Daily) Concentration ² :	20	µg/m ³	9-May-05
Monthly Data Collection Efficiency:	99.6	%	
Monthly Arithmetic Average:	10	µg/m ³	
Reporting Period Arithmetic Average: (June 2004 - May 2005)	12	µg/m ³	

Meteorological Parameters

Prominent Monthly Wind Direction:	SSW	
Average Wind Direction Horizontal Deviation:	24	degrees
Average Wind Speed:	2.9	m/s
Average Temperature:	9.9	°C
Average Relative Humidity:	67	%
Average Solar Radiation:	224	W/m ²
Total Rain Fall:	43.4	mm
Monthly Data Collection Efficiency:	99.6	%

National Ambient Air Quality Standards Comparison

PM ₁₀ 24-Hour Standard of 150 µg/m ³ :	16.0 % (Daily Average)
PM ₁₀ Annual Arithmetic Mean of 50 µg/m ³ :	23.2 % (Annual Average)

¹24-Hour averages are equal to the daily arithmetic average per EPA reporting protocol.

²Second maximum averages do not overlap the time period of the maximum running average.

Table 2. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PM₁₀ (µg/m3)
(One Hour Averages)

May 2005																														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings			
DAY	1	6	4	1	3	6	5	6	3	5	7	4	3	2	3	2	1	1	0	0	0	2	7	9	5	4	9	24		
	2	2	5	5	1	4	0	0	0	2	3	0	0	1	0	0	3	2	0	1	1	4	8	8	7	2	8	24		
	3	8	7	4	0	2	8	7	4	1	0	0	1	1	4	5	3	2	4	5	7	0	16	13	15	5	16	24		
	4	8	10	12	8	6	11	11	9	4	0	0	0	0	2	5	3	1	5	9	30	15	14	19	19	8	30	24		
	5	24	19	22	20	22	24	27	33	24	21	25	20	16	19	14	19	18	19	19	24	37	33	39	39	24	39	24		
	6	37	39	35	31	30	25	23	25	15	12	12	9	7	15	14	14	12	5	6	12	14	23	20	12	19	39	24		
	7	10	6	6	7	5	5	4	4	5	4	3	1	0	0	0	3	5	4	19	20	20	32	26	20	9	32	24		
	8	20	22	24	26	21	25	18	17	10	11	11	11	12	9	16	18	18	16	16	11	18	25	32	24	18	32	24		
	9	24	25	26	28	21	21	24	21	22	26	15	3	4	7	10	11	9	8	21	27	30	31	37	31	20	37	24		
	10	32	16	14	15	14	14	15	5	1	0	0	1	7	10	7	7	9	6	7	5	4	1	3	17	9	32	24		
	11	11	10	5	0	1	7	6	2	3	3	3	2	3	5	1	0	0	0	0	0	4	8	6	8	4	11	24		
	12	11	7	5	3	0	0	0	2	0	0	0	1	3	1	0	5	7	5	4	3	5	6	7	2	3	11	24		
	13	0	3	4	6	7	9	9	4	3	7	9	7	4	2	2	0	0	0	5	8	8	8	9	10	5	10	24		
	14	10	6	5	6	7	7	7	7	5	5	3	1	2	3	2	0	6	7	8	6	3	4	5	3	5	10	24		
	15	2	4	2	2	1	1	5	7	3	0	1	4	4	4	3	1	2	2	0	3	6	5	3	2	3	7	24		
	16	3	2	2	6	5	4	4	2	0	0	0	0	3	2	0	3	3	0	0	1	4	7	9	9	3	9	24		
	17	9	11	7	2	4	4	4	7	5	1	0	3	4	3	5	8	AUD	AUD	15	1	5	9	6	8	6	15	22		
	18	12	12	16	13	15	16	14	12	9	6	PF	PF	17	23	16	25	45	24	21	20	25	22	25	25	19	45	22		
	19	18	24	23	16	25	16	16	21	25	17	17	18	14	17	12	12	12	11	8	17	12	17	17	19	17	25	24		
	20	15	19	14	19	13	13	11	9	8	8	6	7	9	9	21	11	6	16	23	16	15	17	28	22	14	28	24		
	21	15	14	10	8	10	18	13	12	10	7	4	21	14	19	12	16	11	29	23	25	40	28	22	18	17	40	24		
	22	13	11	11	17	15	19	21	20	22	21	22	25	15	21	16	12	13	11	9	17	19	18	18	16	17	25	24		
	23	19	20	18	17	11	11	15	6	7	11	10	6	7	3	1	3	2	2	4	7	16	13	16	16	10	20	24		
	24	8	15	12	12	11	10	11	7	4	4	3	2	4	5	4	5	4	3	2	3	6	9	8	10	7	15	24		
	25	12	10	7	6	6	6	5	5	5	0	0	0	0	0	2	8	7	6	6	8	10	10	7	6	6	12	24		
	26	8	7	9	10	15	11	12	9	3	1	1	3	5	6	7	6	3	0	0	6	5	9	12	11	7	15	24		
	27	11	10	9	6	6	0	0	3	4	3	3	5	5	2	0	0	0	0	1	3	4	6	9	11	4	11	24		
	28	11	5	3	4	3	4	7	5	0	2	2	0	0	5	2	0	1	4	7	9	10	83	30	16	9	83	24		
	29	10	11	11	8	3	3	2	2	0	0	0	0	0	0	0	4	5	6	11	9	7	19	14	85	9	85	24		
	30	48	21	22	14	10	10	11	6	0	0	0	2	2	3	5	4	2	5	4	3	7	42	43	55	13	55	24		
	31	35	11	9	9	7	7	9	4	0	0	0	1	10	10	7	7	9	6	5	9	10	12	28	23	10	35	24		
Hour Avg.:	15	12	11	10	10	10	10	9	7	6	5	5	6	7	6	7	7	7	8	10	12	17	17	18						
Hour Max.:	48	39	35	31	30	25	27	33	25	26	25	25	17	23	21	25	45	29	23	30	40	83	43	85						
Readings	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	30	30	31	31	31	31	31	31						
Monthly Avg.:	9.7 µg/m³		Standard Deviation:				9.6		Data Capture:				99.5 %				Total Valid Hours =												740	
System Codes:	NA		- Not Available =						0		AUD				- Audit =				2		ACAL				- Auto Cal =				0	
	RNG		- Range =						0		M&R				- Maintenance & Repair =				0		INOP				- InOperative =				0	
	Cal		- Calibration =						0		MCAL				- Manual Calibration =				0		LF				- Low Flow =				0	
	MISS		- Data Not Collected =						0		PF				- Power Fail =				2											

KMC EAGLE STATION
WIND DIRECTION - BASED ON TRUE NORTH
 (One Hour Averages)

May 2005

May 2008																								Total Readings	
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	228	225	236	263	252	261	264	282	278	281	283	326	308	295	292	303	308	316	298	299	305	272	270	278	24
2	293	321	308	299	294	291	308	309	314	315	328	324	326	310	310	307	301	308	300	291	289	284	274	274	24
3	282	285	275	252	257	252	249	275	281	287	299	305	300	291	291	293	303	314	311	271	226	206	204	195	24
4	209	219	215	222	220	235	241	242	249	256	236	246	244	205	244	96	72	77	108	107	88	238	163	177	24
5	195	198	204	213	214	213	213	211	209	205	217	206	210	228	232	192	201	203	195	182	233	202	191	195	24
6	196	193	185	226	213	210	176	188	202	204	228	319	19	11	6	350	355	19	41	21	350	299	331	15	24
7	355	31	22	9	22	39	19	47	116	132	128	154	116	102	100	105	94	108	117	118	156	161	162	177	24
8	168	176	189	187	192	197	200	202	199	192	201	208	211	213	37	143	329	351	199	172	172	191	191	183	24
9	197	199	203	209	204	200	191	201	214	211	209	204	182	194	197	202	201	194	183	182	184	191	193	197	24
10	203	205	205	204	198	201	213	224	239	253	259	270	297	275	324	321	325	326	335	353	358	351	356	18	24
11	2	11	18	31	31	34	27	29	29	21	22	23	18	20	19	19	19	16	22	34	25	34	50	13	24
12	100	131	81	89	77	92	91	94	88	99	104	103	104	99	84	83	102	109	122	128	111	123	135	141	24
13	155	157	150	143	157	154	120	122	144	155	158	165	177	180	176	197	203	218	220	216	215	163	179	197	24
14	193	187	190	186	198	207	215	236	252	258	263	268	285	290	295	309	300	308	309	306	302	315	309	314	24
15	318	307	313	317	324	324	326	326	330	335	335	337	335	332	331	336	340	333	317	319	321	316	297		24
16	269	276	275	281	275	265	279	302	349	342	5	5	21	1	23	58	74	69	64	94	108	125	135	134	24
17	138	148	132	126	125	106	127	160	177	211	204	240	48	50	56	49	AUD	AUD	78	91	104	107	112	150	22
18	137	181	191	182	180	186	185	178	176	171	4	70	97	AUD	188	4	177	167	172	189	171	174	173	175	23
19	173	167	166	171	156	167	163	164	157	147	137	141	134	138	147	148	153	161	144	146	156	143	169	143	24
20	101	116	121	117	174	266	188	152	129	60	137	119	140	184	168	188	35	24	50	59	104	128	135	168	24
21	172	178	210	218	214	230	226	228	240	215	16	193	214	66	66	149	178	182	171	187	174	180	164	184	24
22	191	188	184	192	222	219	208	208	198	202	187	166	186	180	333	271	187	195	74	43	39	75	126	169	24
23	191	221	5	341	21	32	27	31	29	35	19	7	15	36	21	11	20	28	30	12	329	282	275	283	24
24	243	245	271	253	248	230	164	291	79	11	26	67	72	82	69	71	58	63	61	94	112	148	195	222	24
25	215	203	215	203	182	185	196	192	207	217	212	165	168	159	149	117	103	115	106	164	162	162	167	177	24
26	185	187	187	190	185	184	214	225	220	226	245	226	223	249	272	273	274	259	273	183	143	162	279	167	24
27	143	202	201	226	261	239	261	255	256	4	287	277	319	328	328	327	117	115	92	131	160	234	238	199	24
28	252	334	235	199	172	227	265	280	273	328	336	12	16	30	22	23	20	72	44	45	49	200	231	231	24
29	261	234	252	241	240	232	222	236	260	289	294	303	325	359	2	6	29	56	29	32	60	70	126	183	24
30	235	214	278	234	289	267	262	273	304	335	336	359	356	354	358	19	18	12	13	14	351	294	268	213	24
31	248	249	257	257	228	256	245	241	274	354	34	35	35	44	70	61	56	53	67	85	107	125	154	183	24
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	30	31	31	31	31	31	31	

Data Capture: 99.6 %

Total Valid Hours = 741

		Hours
System Codes:	NA - Not Available =	0
	RNG - Range =	0
	Cal - Calibration =	0
	MISS - Data Not Collected =	0

	Hours
AUD - Audit =	3
M&R - Maintenance & Repair =	0
MCAL - Manual Calibration =	0

	Hours
ACAL - Auto Cal =	0
INOP - InOperative =	0
PF - Power Fail =	0

Table 4. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND DIRECTION HORIZONTAL DEVIATION
(One Hour Averages)

May 2005																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Total Readings	
DAY	1	15	15	20	17	16	18	19	20	18	20	22	28	39	27	26	30	30	29	25	24	23	22	14	15	22	24
	2	25	26	24	24	21	20	26	25	29	27	31	28	26	28	26	27	25	26	24	24	20	18	17	17	24	24
	3	17	19	16	17	13	14	14	19	21	26	31	34	34	38	35	32	32	29	21	19	4	6	17	23	24	
	4	11	12	11	15	14	13	14	17	20	28	31	35	41	38	44	75	27	27	25	23	69	63	9	13	28	24
	5	11	12	13	13	12	12	14	18	19	20	23	22	21	21	22	21	26	18	16	21	64	19	14	14	19	24
	6	15	17	17	35	21	16	16	18	19	22	27	51	23	20	19	18	22	21	20	16	21	41	29	11	22	24
	7	44	17	24	13	15	16	29	44	36	30	36	45	36	36	29	32	24	18	19	17	17	15	18	18	26	24
	8	23	23	21	22	21	18	20	20	16	16	18	22	21	18	85	60	68	55	20	19	11	13	13	12	26	24
	9	14	13	15	13	13	15	17	14	16	18	17	17	22	22	21	24	20	16	17	13	14	13	15	15	16	24
	10	16	14	13	13	12	13	14	15	18	19	19	26	25	17	33	26	24	23	20	19	16	14	16	14	18	24
	11	15	16	14	14	15	15	16	16	14	15	15	16	15	17	17	17	19	20	19	17	16	13	21	19	16	24
	12	79	81	37	43	37	30	27	25	28	26	26	28	29	28	25	24	23	24	19	15	19	18	14	16	30	24
	13	16	15	15	17	20	23	18	17	16	14	14	14	15	16	16	21	16	16	17	15	22	27	33	13	18	24
	14	12	14	14	23	13	15	13	17	18	20	18	19	20	23	23	25	25	25	24	23	24	26	25	25	20	24
	15	24	26	25	24	23	24	23	23	24	21	22	20	19	20	22	22	19	18	21	22	23	24	24	26	22	24
	16	14	17	15	18	22	20	15	24	17	26	33	21	34	41	30	29	55	33	25	21	17	12	9	8	23	24
	17	11	17	13	12	15	20	23	19	30	55	50	68	26	26	26	23	AUD	AUD	24	24	20	16	34	20	26	22
	18	19	11	12	15	19	13	14	18	18	19	0	73	72	AUD	21	0	21	18	17	20	16	17	17	16	20	23
	19	16	17	15	17	13	15	16	16	15	15	14	15	16	16	16	20	19	18	19	16	15	15	11	17	16	24
	20	17	72	26	17	65	10	75	9	23	48	98	49	49	39	33	53	27	15	23	24	23	12	9	14	35	24
	21	22	12	10	13	12	18	14	14	16	59	101	47	48	31	51	67	26	22	17	16	14	13	16	16	28	24
	22	12	13	15	15	36	22	16	15	14	16	19	16	17	15	84	39	35	25	34	17	15	33	18	16	23	24
	23	14	98	45	31	17	13	18	15	14	16	22	18	27	28	28	23	28	18	17	26	16	79	25	20	27	24
	24	32	14	9	11	26	50	31	84	33	28	32	43	36	39	29	25	22	27	22	23	20	44	15	10	29	24
	25	13	14	15	13	18	13	11	17	16	18	22	27	29	21	29	24	23	29	23	29	14	16	16	20	20	24
	26	20	17	18	20	19	18	24	17	20	22	21	19	23	24	25	28	27	26	25	51	11	55	87	21	27	24
	27	62	34	19	30	30	20	10	21	15	0	20	16	29	30	36	44	32	54	54	24	17	23	27	27	28	24
	28	17	65	74	26	39	20	26	39	23	30	36	41	24	21	28	29	28	55	29	15	45	15	50	41	34	24
	29	29	28	7	12	12	10	16	17	32	20	30	41	38	30	23	21	33	38	24	19	16	17	34	28	24	24
	30	36	48	53	49	50	32	40	7	32	22	31	19	21	35	29	19	21	22	20	16	18	26	27	5	28	24
	31	23	16	26	31	25	51	24	23	68	46	28	22	22	25	32	25	26	29	27	27	21	21	12	11	28	24
Hour Avg.:	22.4	26.2	21.0	20.4	22.1	19.6	21.1	21.4	22.5	24.6	29.3	30.3	28.9	26.2	31.2	29.9	27.4	26.6	23.1	21.2	21.8	24.0	21.8	17.3			
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	30	31	31	31	31	31	31			
Monthly Avg.:	24 °	Standard Deviation:					13.7	Data Capture:					99.6 %	Total Valid Hours =					741								
							Hours						Hours						Hours								
System Codes:	NA	- Not Available =					0	AUD	- Audit =					3	ACAL	- Auto Cal =						0					
	RNG	- Range =					0	M&R	- Maintenance & Repair =					0	INOP	- InOperative =						0					
	Cal	- Calibration =					0	MCAL	- Manual Calibration =					0	PF	- Power Fail =						0					
	MISS	- Data Not Collected =					0																				

Table 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

WIND SPEED - m/s

(One Hour Averages)

May 2005

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
1	1.4	1.4	1.7	2.7	2.4	2.8	2.7	3.1	3.6	3.8	3.1	2.4	2.4	3.2	2.9	3.0	3.4	3.8	3.7	2.6	1.3	1.3	1.9	2.7	2.6	3.8	24
2	2.3	2.4	1.6	2.4	2.4	2.6	2.4	2.6	2.5	3.4	3.4	3.9	4.0	3.7	4.0	3.7	4.2	3.2	3.2	3.6	2.5	2.6	2.5	2.3	3.0	4.2	24
3	2.2	1.9	1.8	1.4	1.0	1.4	1.4	2.7	3.8	3.8	3.7	4.1	3.5	3.7	4.0	3.4	3.8	3.5	2.6	2.0	1.1	1.7	1.7	1.5	2.6	4.1	24
4	1.9	2.1	2.7	1.7	2.1	2.1	2.0	1.9	2.5	3.2	3.6	3.8	3.4	3.8	3.3	2.6	3.4	3.3	2.7	1.6	0.7	0.6	1.3	2.6	2.5	3.8	24
5	3.7	3.8	3.8	3.6	3.5	3.4	3.8	4.6	5.0	6.2	6.1	5.1	5.8	5.0	5.2	6.6	7.4	6.8	5.7	5.6	2.7	3.3	5.6	6.0	4.9	7.4	24
6	5.8	6.2	6.8	4.3	1.9	1.9	2.7	3.6	3.0	3.2	2.8	2.7	3.7	4.5	4.6	5.4	5.3	4.2	3.2	3.0	1.3	0.6	1.3	1.7	3.5	6.8	24
7	0.6	2.1	1.3	1.6	1.8	1.7	1.2	0.7	1.5	1.7	2.4	2.3	2.7	3.0	3.2	3.2	3.3	3.4	3.4	2.5	4.0	4.0	4.2	3.8	2.5	4.2	24
8	3.5	5.9	7.4	7.5	7.4	6.8	7.0	6.5	5.2	5.0	4.4	4.2	4.7	4.3	0.7	2.9	2.4	0.9	1.3	3.0	2.4	3.4	4.3	3.3	4.4	7.5	24
9	3.7	5.0	4.8	3.7	3.4	2.8	1.8	2.1	3.1	2.8	3.9	3.9	6.0	7.8	7.6	7.4	6.6	5.6	6.4	5.3	5.6	5.0	4.9	4.7	4.7	7.8	24
10	5.2	5.2	4.7	3.9	4.1	3.6	3.0	2.9	3.4	4.4	4.1	3.3	3.6	4.2	3.7	3.0	3.6	2.4	2.3	3.1	3.4	3.8	3.2	3.1	3.6	5.2	24
11	1.7	2.4	3.8	3.9	3.8	4.1	4.1	4.9	4.7	5.1	5.3	5.6	6.3	6.1	5.6	5.7	5.6	5.4	4.8	3.3	2.1	1.6	0.9	0.9	4.1	6.3	24
12	0.4	0.6	0.7	0.9	0.7	1.3	2.2	3.5	3.9	4.1	4.0	4.1	4.1	3.8	3.6	3.4	3.2	3.0	3.1	3.3	2.2	2.6	3.8	4.1	2.8	4.1	24
13	5.6	5.1	5.0	5.3	5.3	3.6	2.6	2.9	4.1	4.1	4.2	4.7	4.7	4.3	4.9	3.8	3.3	2.5	2.0	1.5	1.2	1.1	1.0	1.6	3.5	5.6	24
14	1.9	1.9	1.6	1.8	1.6	1.8	2.3	2.4	2.7	3.4	3.8	4.4	4.6	4.4	3.7	3.0	3.2	2.9	2.3	2.6	2.8	2.4	3.1	3.0	2.8	4.6	24
15	3.1	3.1	2.9	3.4	3.5	3.3	3.7	3.9	3.7	3.9	4.0	4.0	4.3	4.5	3.7	3.4	3.5	2.8	2.4	1.5	1.6	1.5	1.4	1.2	3.1	4.5	24
16	1.2	1.1	1.1	0.8	0.7	0.7	1.5	1.6	3.1	2.6	2.6	2.7	2.0	1.7	2.2	1.9	2.0	2.2	2.6	2.1	1.6	1.5	1.7	1.5	1.8	3.1	24
17	1.5	2.0	2.5	2.8	3.1	1.7	1.2	2.5	2.0	1.5	1.6	1.7	2.8	3.1	2.9	3.7	AUD	AUD	3.1	2.5	2.4	1.9	1.3	1.7	2.3	3.7	22
18	1.5	2.8	3.0	2.9	3.4	2.6	3.5	3.0	3.1	2.9	0.0	1.2	0.7	AUD	4.8	0.0	4.6	4.3	5.3	5.8	4.4	5.3	5.5	5.4	3.3	5.8	23
19	5.5	5.8	4.6	4.6	3.6	4.0	4.5	5.1	4.8	4.7	4.3	4.4	5.4	5.3	5.7	6.4	6.3	6.2	5.1	4.4	3.5	2.0	1.6	1.4	4.6	6.4	24
20	1.1	0.9	1.8	1.8	1.1	1.1	0.2	0.2	0.9	1.1	1.1	1.6	2.2	2.7	2.9	2.4	3.9	4.1	2.7	2.0	1.2	1.1	1.8	2.0	1.7	4.1	24
21	2.2	2.7	2.7	2.8	3.1	2.4	1.9	1.4	1.8	1.1	1.6	2.5	2.4	2.4	2.4	2.5	4.0	4.8	4.3	4.1	3.4	3.7	2.9	4.1	2.8	4.8	24
22	5.1	5.1	5.9	5.3	3.5	3.9	4.4	3.7	3.6	3.7	4.5	5.1	5.3	3.8	2.0	0.8	1.4	1.5	2.0	2.3	2.1	1.7	1.7	1.0	3.3	5.9	24
23	1.0	0.6	0.8	1.2	1.9	2.1	2.4	2.6	2.8	2.2	1.9	2.7	2.7	3.5	3.2	3.1	3.2	3.4	3.3	1.8	0.8	0.4	0.8	0.8	2.1	3.5	24
24	0.6	0.8	1.0	0.5	0.5	0.4	0.4	0.2	1.2	1.8	2.1	2.1	3.1	2.8	3.2	3.9	4.3	3.3	3.2	2.6	1.5	0.8	0.8	1.7	1.8	4.3	24
25	1.8	2.1	2.0	1.7	2.4	2.6	2.9	2.8	3.3	3.6	3.3	3.5	4.2	3.9	3.6	3.3	3.3	3.0	2.6	4.3	5.0	5.2	5.5	7.2	3.5	7.2	24
26	7.9	6.3	6.5	7.4	6.7	5.4	4.9	3.9	4.4	5.5	4.8	4.1	4.5	4.4	4.1	4.1	3.6	3.0	2.7	1.6	1.7	1.6	1.0	1.2	4.2	7.9	24
27	0.6	0.7	1.5	0.8	0.6	0.8	1.2	1.1	1.8	0.0	2.0	2.5	2.1	2.4	2.5	1.5	1.6	1.4	1.0	2.0	2.1	1.4	1.2	0.9	1.4	2.5	24
28	0.6	0.8	0.8	0.4	0.2	0.2	0.5	0.5	1.1	1.8	1.8	1.9	3.0	3.9	3.8	3.7	2.3	1.0	1.6	1.8	0.4	0.3	0.5	0.8	1.4	3.9	24
29	0.6	0.7	1.3	1.3	1.0	1.1	1.0	1.1	1.6	2.8	2.6	2.5	2.5	2.5	2.8	3.6	2.9	2.5	2.7	2.6	1.7	0.8	0.8	0.4	1.8	3.6	24
30	0.3	0.4	0.5	0.5	0.4	0.8	0.8	1.4	1.2	2.3	2.8	3.2	3.3	3.1	3.7	3.9	3.6	3.2	2.9	3.0	1.8	0.9	0.8	0.0	1.9	3.9	24
31	0.5	0.3	0.5	0.2	0.3	0.1	0.2	0.2	0.4	1.1	1.9	3.1	3.6	3.5	3.0	3.7	3.2	3.0	2.6	2.1	1.6	0.9	1.1	1.0	1.6	3.7	24
Hour Avg.:	2.4	2.7	2.8	2.7	2.5	2.4	2.4	2.6	2.9	3.1	3.2	3.3	3.7	3.8	3.7	3.5	3.7	3.4	3.1	2.9	2.3	2.1	2.3	2.4			
Hour Max.:	7.9	6.3	7.4	7.5	7.4	6.8	7.0	6.5	5.2	6.2	6.1	5.6	6.3	7.8	7.6	7.4	7.4	6.8	6.4	5.8	5.6	5.3	5.6	7.2			
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	30	31	31	31	31	31	31			

Monthly Avg.: 2.9 m/s

Standard Deviation:

1.6

Data Capture: 99.6 %

Total Valid Hours =

741

System Codes: NA - Not Available = 0
 RNG - Range = 0
 Cal - Calibration = 0
 MISS - Data Not Collected = 0

Hours

AUD - Audit = 3
 M&R - Maintenance & Repair = 0
 MCAL - Manual Calibration = 0

Hours

ACAL - Auto Cal = 0
 INOP - InOperative = 0
 PF - Power Fail = 0

Hours

(One Hour Averages)

May 2005

		May 2005																							Daily Avg.	Daily Max.	Total Readings			
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23						
1	2.1	2.1	2.0	2.2	1.7	1.5	1.4	1.6	1.8	2.4	2.3	1.6	2.2	2.9	3.4	5.1	5.4	5.4	5.0	4.2	2.7	1.3	0.8	1.1	2.6	5.4	24			
2	0.8	0.0	-0.4	-0.5	-0.7	-1.0	-1.3	-1.5	-1.3	-1.1	-0.8	-0.5	0.0	0.4	0.6	0.5	0.4	0.3	0.3	0.2	-0.5	-1.1	-1.4	-1.5	-0.4	0.8	24			
3	-1.3	-1.4	-1.7	-2.0	-2.5	-3.0	-2.5	0.3	2.0	3.2	4.2	4.9	5.6	6.2	6.8	7.6	7.7	7.5	7.3	6.7	5.0	3.2	2.6	2.3	2.9	7.7	24			
4	2.0	2.2	2.3	2.4	2.6	3.0	3.5	6.0	8.8	10.8	11.6	12.5	13.4	14.4	15.3	14.7	13.0	12.5	11.9	10.9	8.8	6.0	3.9	6.4	8.3	15.3	24			
5	7.2	7.0	6.9	6.6	6.3	6.5	7.8	8.8	11.2	14.5	16.4	16.9	18.9	18.9	18.6	19.4	20.0	19.9	19.3	17.1	15.9	14.8	13.9	13.5	13.6	20.0	24			
6	12.9	12.0	10.3	10.7	9.9	9.7	9.0	9.1	11.0	13.2	15.2	15.6	15.3	14.9	15.6	15.7	15.7	14.5	12.7	11.3	9.4	8.6	8.0	7.1	12.0	15.7	24			
7	6.3	6.6	5.9	5.1	5.0	4.9	4.9	5.2	6.0	7.1	8.2	10.4	13.0	14.9	15.8	16.8	15.8	14.4	15.1	13.4	13.0	12.8	12.5	11.9	10.2	16.8	24			
8	10.0	10.3	10.9	11.0	11.0	11.3	11.6	12.5	13.2	15.2	18.4	21.0	22.6	21.6	18.9	22.0	20.1	19.1	21.5	21.7	19.5	18.8	18.5	18.0	16.6	22.6	24			
9	18.2	18.1	18.1	17.6	17.3	17.3	16.7	17.1	17.8	18.4	19.6	18.3	19.9	21.3	22.5	23.1	23.2	22.6	18.9	17.3	17.0	16.7	16.7	16.5	18.8	23.2	24			
10	16.2	15.6	15.1	14.8	14.8	14.8	14.2	14.5	15.4	16.2	16.5	16.0	14.8	14.5	12.3	9.8	8.9	8.4	8.6	8.4	7.7	6.7	6.0	5.2	12.3	16.5	24			
11	5.1	4.9	4.6	3.9	3.2	2.7	2.4	1.9	1.6	1.3	0.8	0.4	0.1	0.3	0.3	-0.1	0.0	0.3	0.1	-0.3	-1.6	-1.9	-2.2	-2.8	1.0	5.1	24			
12	-3.8	-3.8	-2.2	-2.2	-2.5	-2.6	-1.6	-0.6	0.1	0.8	1.5	2.1	3.0	4.0	4.0	3.7	3.4	3.2	3.3	3.4	2.9	2.9	4.0	4.6	1.2	4.6	24			
13	5.0	4.9	4.8	4.7	4.3	1.1	0.9	1.1	1.7	2.0	2.6	3.2	3.3	4.0	4.5	4.9	5.2	5.3	5.1	5.4	5.3	5.1	4.9	4.9	3.9	5.4	24			
14	4.9	5.0	5.0	5.1	5.1	5.3	5.5	5.7	5.9	6.1	6.4	5.8	5.6	5.6	4.6	4.6	4.1	4.2	3.9	3.5	3.2	2.9	3.0	2.8	4.7	6.4	24			
15	2.6	2.6	2.6	2.6	2.6	2.5	2.3	2.0	1.7	1.7	1.8	1.8	2.0	2.1	2.1	2.5	2.4	2.7	2.5	2.9	2.8	2.7	2.7	2.6	2.4	2.9	24			
16	2.3	1.7	1.5	1.6	1.4	1.0	2.2	4.4	5.4	6.0	7.0	6.5	6.8	7.0	7.0	6.8	7.7	7.9	7.4	6.2	4.1	2.7	2.0	1.8	4.5	7.9	24			
17	1.9	2.1	2.9	3.1	3.4	3.6	4.0	5.5	7.2	9.2	10.7	12.1	12.5	12.5	12.8	12.7	AUD	AUD	11.5	9.8	8.6	7.3	6.1	6.5	7.5	12.8	22			
18	8.1	8.7	8.7	8.6	8.0	7.4	7.9	8.6	10.8	12.9	0.0	22.4	24.5	AUD	20.8	0.0	19.4	20.0	19.2	17.7	16.7	15.3	14.6	14.1	12.8	24.5	23			
19	13.3	12.6	12.6	12.1	11.4	11.6	11.8	11.4	11.2	11.2	11.0	11.4	12.2	12.1	12.0	11.6	11.1	11.3	11.7	11.7	11.5	10.7	10.0	9.7	11.6	13.3	24			
20	9.2	8.2	6.9	7.1	6.7	5.3	4.4	5.2	10.4	13.4	14.3	15.6	17.2	18.3	19.7	20.6	19.7	18.4	17.9	17.8	16.6	15.1	13.7	14.2	13.2	20.6	24			
21	14.1	13.4	13.7	13.7	14.6	14.2	13.1	13.7	16.4	19.0	20.8	21.5	22.0	21.0	22.4	23.7	24.3	23.9	23.9	23.0	21.9	20.9	19.3	18.1	18.9	24.3	24			
22	17.5	17.2	16.6	15.4	14.8	12.8	12.6	12.7	13.0	14.1	15.4	16.4	17.5	16.2	13.6	12.5	12.7	13.9	13.8	12.1	11.6	11.3	10.6	10.4	13.9	17.5	24			
23	10.6	10.8	10.4	10.3	10.1	9.5	8.2	7.1	6.6	6.8	8.1	9.4	12.1	14.4	15.3	14.8	14.9	15.8	14.8	14.0	14.1	13.1	11.4	10.5	11.4	15.8	24			
24	9.8	9.0	9.0	8.6	8.4	8.0	8.4	10.6	12.9	14.3	15.7	16.3	16.9	17.7	18.2	18.0	17.7	18.0	17.3	17.0	16.2	14.4	11.9	12.6	13.6	18.2	24			
25	12.6	13.3	13.5	13.5	11.9	11.0	11.9	12.9	16.0	18.4	20.0	21.0	21.3	21.8	21.2	20.9	20.3	19.5	20.9	19.8	18.4	17.4	16.7	17.3	21.8	24				
26	16.0	15.6	15.3	14.0	12.1	11.9	12.2	11.5	12.5	13.3	13.9	14.3	15.7	16.5	16.1	16.0	16.4	16.2	16.3	16.0	15.7	13.6	12.4	11.5	14.4	16.5	24			
27	10.2	9.0	9.3	9.6	8.5	7.5	7.5	8.3	8.8	0.0	8.7	9.5	11.1	12.7	12.2	11.1	11.6	12.6	13.1	12.6	12.7	11.3	10.0	9.2	9.9	13.1	24			
28	8.0	7.9	7.4	7.1	6.7	6.4	6.7	7.5	9.1	10.5	11.8	13.3	14.2	14.1	15.0	15.0	15.0	15.1	15.0	14.0	13.5	11.9	9.5	7.7	10.9	15.1	24			
29	7.1	5.8	7.0	7.7	7.9	7.9	8.0	9.5	12.3	14.0	15.0	16.2	17.2	17.1	17.3	17.4	17.6	17.2	17.0	16.6	14.9	12.1	10.3	8.5	12.6	17.6	24			
30	7.3	6.2	5.6	4.4	4.8	4.0	4.3	6.9	9.8	11.2	10.8	9.7	11.4	13.0	14.7	14.3	14.6	15.1	15.7	15.1	14.3	12.9	10.3	8.7	10.2	15.7	24			
31	7.5	6.6	6.6	6.2	5.0	5.0	5.4	8.6	14.6	17.3	19.0	20.2	20.1	20.5	20.6	20.4	20.4	20.4	20.1	19.6	18.6	16.3	13.3	12.2	14.4	20.6	24			
Hour Avg.:	7.9	7.6	7.5	7.3	6.9	6.5	6.6	7.4	8.8	9.8	10.5	11.8	12.7	12.7	13.1	12.5	13.0	12.9	12.6	11.9	11.0	9.9	8.9	8.5						
Hour Max.:	18.2	18.1	18.1	17.6	17.3	17.3	16.7	17.1	17.8	19.0	20.8	22.4	24.5	21.8	22.5	23.7	24.3	23.9	23.9	23.0	21.9	20.9	19.3	18.1						
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	30	31	31	31	31	31	31						
Monthly Avg.:	9.9 °C		Standard Deviation:				6.4		Data Capture:				99.6 %														Total Valid Hours =	741		
System Codes:							Hours								Hours								Hours							
	NA	- Not Available =					0				AUD				- Audit =	3				ACAL				- Auto Cal =	0					
	RNG	- Range =					0				M&R				- Maintenance & Repair =	0				INOP				- InOperative =	0					
	Cal	- Calibration =					0				MCAL				- Manual Calibration =	0				PF				- Power Fail =	0					
	MISS	- Data Not Collected =					0																							

Table 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY - PERCENT
(One Hour Averages)

May 2005																																				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings									
	1	63	65	69	72	76	80	82	83	82	77	84	93	90	83	79	61	54	51	50	51	57	63	67	69	71	93	24								
2	78	93	96	95	93	91	89	88	88	86	87	84	78	77	74	72	75	75	73	67	68	73	75	77	81	96	24									
3	76	80	87	91	92	91	83	67	52	39	34	32	32	29	29	29	28	28	28	31	37	44	46	47	51	92	24									
4	53	59	58	55	51	48	45	40	32	25	25	24	22	20	18	21	25	24	25	27	32	42	53	45	36	59	24									
5	46	48	47	48	48	47	41	38	33	28	28	29	27	28	28	27	23	22	22	26	29	30	31	31	34	48	24									
6	32	41	56	54	58	59	70	77	72	64	56	57	62	64	61	58	53	59	67	70	80	81	81	84	63	84	24									
7	87	86	89	93	94	96	96	96	92	85	78	67	58	53	51	47	52	58	56	63	59	57	58	64	72	96	24									
8	81	82	77	75	75	66	56	49	50	50	48	44	41	49	70	53	60	65	54	50	57	60	62	65	60	82	24									
9	63	63	64	69	68	68	69	68	66	66	59	72	63	57	52	49	49	52	75	88	87	88	87	87	68	88	24									
10	85	84	88	89	89	88	91	91	86	80	77	83	90	92	95	97	96	94	93	92	93	95	93	96	90	97	24									
11	96	95	95	95	95	94	93	90	88	87	91	87	80	76	75	75	69	65	63	67	72	75	77	81	83	96	24									
12	88	89	81	78	74	76	72	68	63	60	57	52	44	39	43	44	43	47	45	45	50	55	46	36	58	89	24									
13	34	35	36	31	34	80	91	94	93	94	94	93	92	90	89	88	88	89	91	91	92	94	94	94	79	94	24									
14	95	95	95	94	95	95	95	93	89	86	83	88	89	87	93	93	94	90	92	94	95	96	96	96	92	96	24									
15	97	97	97	98	98	98	99	98	98	97	97	95	95	93	93	92	93	92	93	91	89	90	89	90	95	99	24									
16	92	93	92	91	91	91	85	77	71	67	58	62	61	59	61	60	57	54	49	49	56	65	64	63	70	93	24									
17	63	64	59	57	57	63	65	65	63	60	60	60	52	52	51	51	AUD	AUD	54	59	61	65	69	71	60	71	22									
18	70	69	70	72	74	75	72	70	63	57	0	34	36	AUD	37	0	42	41	40	40	45	53	55	57	51	75	23									
19	62	67	64	72	75	76	81	87	90	93	94	93	90	90	90	89	89	87	84	84	85	88	91	89	84	94	24									
20	89	92	96	98	98	98	98	98	91	61	57	50	41	32	27	24	32	37	38	37	41	45	52	50	62	98	24									
21	45	46	42	41	42	48	54	55	49	45	41	37	35	41	35	30	27	28	27	27	28	32	40	45	39	55	24									
22	43	43	49	57	64	87	92	92	91	87	80	77	70	75	81	87	89	85	88	95	97	97	97	98	80	98	24									
23	98	98	98	98	98	98	98	98	99	99	98	97	82	64	58	58	58	55	62	70	71	78	88	88	84	99	24									
24	89	93	92	93	92	93	91	84	72	67	61	55	50	47	44	45	45	44	44	44	47	55	69	62	66	93	24									
25	62	61	64	64	70	74	71	68	58	49	44	41	39	38	39	45	46	47	48	36	37	40	38	43	51	74	24									
26	49	52	56	70	87	89	84	76	68	66	62	61	56	48	49	47	41	41	40	43	48	61	65	69	60	89	24									
27	76	82	79	77	82	86	86	85	87	0	91	90	81	69	70	81	80	72	70	73	65	74	78	82	76	91	24									
28	88	87	90	92	93	95	94	92	88	77	69	64	62	61	52	50	52	53	54	59	60	72	83	91	74	95	24									
29	94	95	92	89	86	80	79	76	71	62	55	46	42	47	47	45	47	49	49	52	60	71	78	86	67	95	24									
30	91	95	95	96	97	97	97	97	96	92	93	85	75	66	56	50	47	48	47	48	51	56	69	77	76	97	24									
31	83	87	87	89	92	94	93	80	57	48	46	42	40	32	27	26	26	27	28	29	31	39	54	56	55	94	24									
Hour Avg.:	73.2	75.4	76.1	77.2	78.6	81.3	81.0	78.7	74.1	66.3	64.7	64.3	60.5	58.6	57.2	54.6	56.0	56.0	56.4	58.0	60.6	65.6	69.2	70.6												
Hour Max.:	98.0	98.0	98.0	98.0	98.0	98.0	99.0	98.0	99.0	99.0	98.0	97.0	95.0	93.0	95.0	97.0	96.0	94.0	93.0	95.0	97.0	97.0	97.0	98.0												
Readings	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	30	31	31	31	31	31	31												
Monthly Avg.:	67 %	Standard Deviation:					22.1	Data Capture:					99.6 %	Total Valid Hours =										741												
							Hours									Hours											Hours									
System Codes:	NA	- Not Available =					0	AUD					- Audit =					3	ACAL					- Auto Cal =					0							
	RNG	- Range =					0	M&R					- Maintenance & Repair =					0	INOP					- InOperative =					0							
	Cal	- Calibration =					0	MCAL					- Manual Calibration =					0	PF					- Power Fail =					0							
	MISS	- Data Not Collected =					0																													

Table 8. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE

KMC EAGLE STATION

Solar Radiation (W/m2)

(One Hour Averages)

May 2005

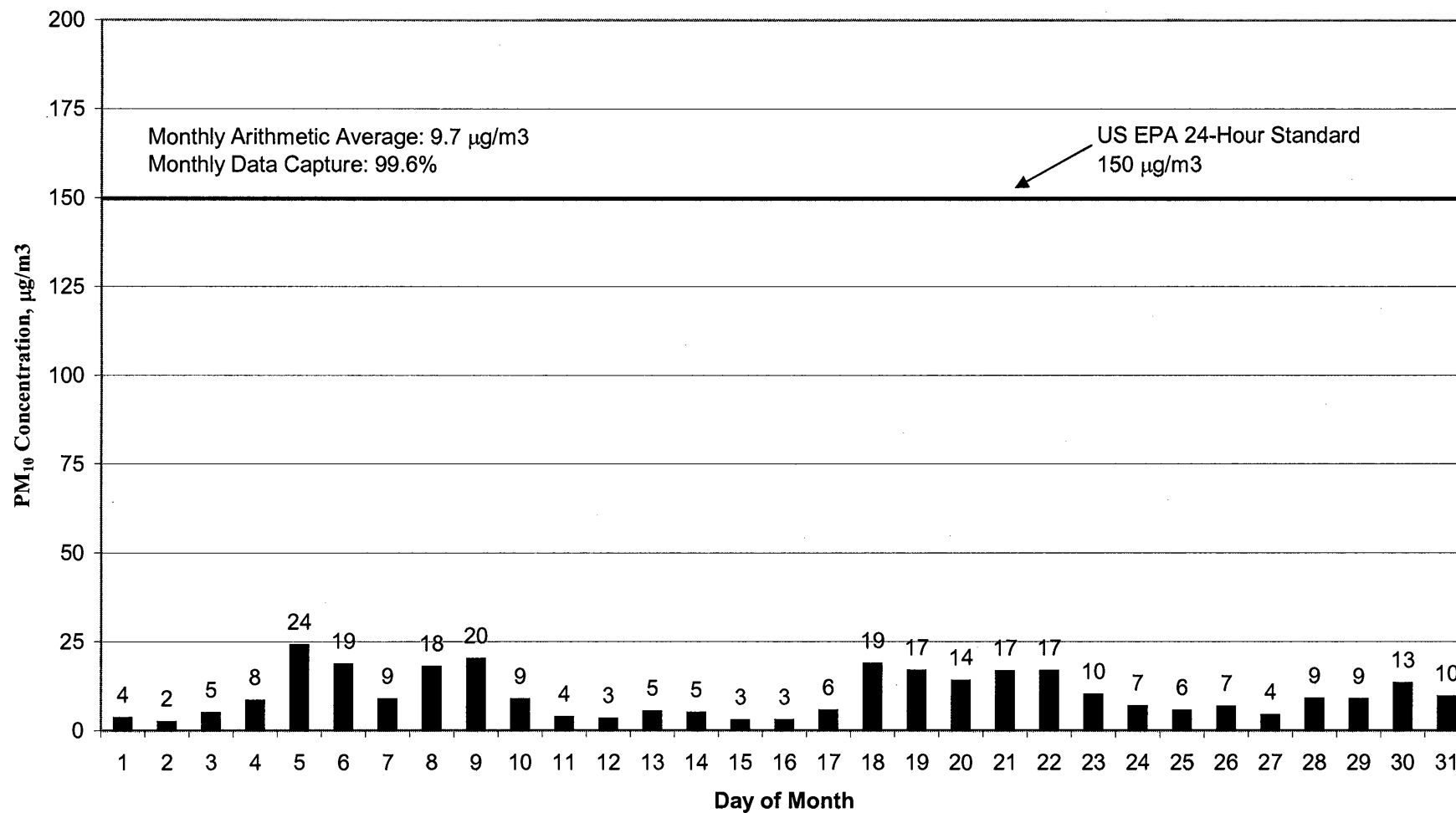
May 2005																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Avg.	Daily Max.	Total Readings
DAY																											
1	0	0	0	0	0	0	23	73	109	211	268	274	276	336	431	428	259	308	219	64	2	NA	NA	NA	156	431	21
2	NA	NA	NA	NA	NA	NA	NA	NA	NA	358	338	276	299	283	280	279	275	268	237	259	269	22	0	NA	NA	358	14
3	NA	NA	NA	NA	NA	3	85	274	401	586	601	641	808	839	707	739	614	447	237	94	19	NA	NA	NA	NA	839	16
4	NA	NA	NA	NA	NA	NA	NA	NA	449	636	780	879	934	936	886	727	324	428	247	80	72	NA	NA	NA	NA	936	13
5	NA	NA	NA	NA	NA	263	265	258	345	541	668	339	717	262	204	635	601	313	127	45	0	0	NA	1	310	717	18
6	0	0	0	0	0	0	14	137	201	413	505	316	314	413	531	666	635	410	263	172	NA	NA	0	NA	238	666	21
7	NA	NA	NA	NA	NA	NA	204	222	246	231	304	690	782	936	869	745	545	419	489	228	NA	NA	NA	NA	NA	936	14
8	NA	0	0	0	0	4	47	99	191	438	312	368	410	360	233	412	253	123	226	401	38	0	0	0	170	438	23
9	0	0	0	0	0	1	21	87	152	152	256	249	634	773	794	711	615	277	50	207	2	0	0	0	208	794	24
10	0	0	0	0	0	2	17	124	244	321	317	301	186	296	217	162	74	70	60	22	1	0	0	NA	105	321	23
11	NA	NA	NA	NA	NA	0	11	38	80	137	146	205	330	456	319	288	375	488	298	125	5	NA	NA	NA	NA	488	16
12	NA	NA	NA	NA	NA	NA	173	231	306	499	645	735	829	729	521	424	265	168	104	117	195	0	0	0	330	829	18
13	0	0	0	0	0	13	5	27	44	39	95	214	271	274	275	231	123	74	58	38	2	0	0	0	74	275	24
14	0	0	0	0	0	0	9	44	98	163	200	202	336	318	99	94	50	84	30	15	1	0	0	0	73	336	24
15	0	0	0	0	0	0	8	22	64	92	123	133	171	171	141	149	133	60	48	14	1	0	0	0	55	171	24
16	0	0	0	0	0	12	130	294	347	536	537	247	311	261	237	253	497	382	302	123	35	NA	NA	NA	214	537	21
17	NA	NA	NA	NA	NA	NA	NA	249	331	518	376	617	402	379	374	426	AUD	AUD	471	129	65	7	0	0	NA	617	15
18	0	0	0	0	0	0	8	63	223	357	0	531	213	AUD	451	0	287	250	103	83	36	2	0	0	113	531	23
19	0	0	0	0	0	0	3	20	36	56	84	168	230	214	212	248	214	342	197	80	28	4	0	0	89	342	24
20	0	0	0	0	0	0	21	161	342	419	446	577	917	717	923	821	757	525	429	266	78	5	0	0	311	923	24
21	0	0	0	0	0	0	23	163	280	407	663	702	652	410	808	817	650	422	378	115	33	5	0	0	272	817	24
22	0	0	0	0	0	0	1	18	101	271	581	761	449	59	71	84	157	249	112	23	12	3	0	0	123	761	24
23	0	0	0	0	0	0	3	8	24	68	262	289	790	941	684	455	697	573	253	97	75	5	0	0	218	941	24
24	0	0	0	0	0	0	22	159	340	534	699	721	908	944	941	879	773	628	455	275	85	6	0	0	349	944	24
25	0	0	0	0	0	1	42	153	359	536	664	678	641	682	455	352	355	320	242	188	54	5	0	0	239	682	24
26	0	0	0	0	0	0	11	88	352	475	501	230	717	501	365	309	402	243	209	200	103	5	0	0	196	717	24
27	0	0	0	0	0	0	18	28	51	0	97	186	392	592	365	342	358	299	292	200	150	8	0	0	141	592	24
28	0	0	0	0	0	0	14	62	139	290	407	606	703	818	1024	696	274	239	163	124	62	9	0	0	235	1024	24
29	0	0	0	0	0	0	13	199	314	397	460	718	789	374	359	560	492	444	325	286	118	6	0	0	244	789	24
30	0	0	0	0	0	0	9	46	86	137	169	321	608	911	944	882	779	638	466	287	121	6	0	0	267	944	24
31	0	0	0	0	0	0	44	200	364	542	705	832	919	962	964	903	796	652	480	296	125	7	0	0	366	964	24
Hour Avg.:	NA	0	0	0	0	12	44	122	221	334	394	452	546	540	506	475	421	338	244	150	62	4	0	NA			
Hour Max.:	0	0	0	0	0	263	265	294	449	636	780	879	934	962	1024	903	796	652	489	401	269	22	0	1			
Readings	22	23	23	23	23	26	28	29	30	31	31	31	31	30	31	31	30	30	31	31	29	24	24	22			
Monthly Avg.:	224 W/m2		Standard Deviation:		261.0		Data Capture:		89.2 %		Total Valid Hours =		664														
System Codes:	NA - Not Available =		77		AUD - Audit =		3		ACAL - Auto Cal =		0																
	RNG - Range =		0		M&R - Maintenance & Repair =		0		INOP - InOperative =		0																
	Cal - Calibration =		0		MCAL - Manual Calibration =		0		PF - Power Fail =		0																
	MISS - Data Not Collected =		0																								

Rain Fall (mm)
(One Hour Averages)

May 2005

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Sum	Total Readings		
DAY																												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0	0.0	0.0	0.0	0.1	0	0.0	0.0	0.0	0.0	0.2	22	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0	0.1	0	0.0	0.0	0.0	1.1	22	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.4	0.0	0.1	0.0	0.0	0.0	1.0	23	
4	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0.1	22	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.5	0.2	0.0	0.0	0	0.0	0.0	0.8	22	
6	0.0	0	0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.1	0	0	0	0.0	0.0	0.2	17	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.1	0	0.1	0.0	0	0	0	0.2	0.1	0.0	0	0	0.0	0.7	17	
8	0.2	0	0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0	0.0	0	0.1	0.0	0	0.1	0.0	0.0	0.1	0.0	0.0	0.5	15	
9	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0	0.1	0	0.0	0.3	0.1	0.0	0.5	16	
10	0.0	0.0	0	0.0	0.0	0.5	0.1	0	0.4	0.0	0	0.0	0.0	0	0.5	0	0.5	0.0	0.0	0	0	0.0	0.0	0.5	2.5	17		
11	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.3	0	0.3	0	0.1	0	0.5	0.0	0	1.2	17		
12	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.2	0.0	0	0.0	0.0	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	21	
13	0	0.0	0.0	0	0	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.2	0	0.3	0.0	0.0	0.7	18	
14	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.1	0	0.3	0.1	0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	21	
15	0.4	0.1	0.8	1.2	0.3	0.8	0.4	0.2	0.5	0.3	1.2	0.5	0.8	0.0	0.0	0.3	0.6	0.3	0.5	0.0	0.0	0	0.0	0.0	0.0	9.2	23	
16	0	0.7	0.0	0.0	0.0	0.0	0	0.3	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.5	0	0	0.4	0	0.5	0.0	0.0	2.4	17		
17	0.0	0.0	0	0.3	0.2	0.0	0.0	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	0.3	AUD	AUD	0	0	0.0	0.0	0.0	0.0	0.0	0.9	18	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	AUD	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0	0.0	0.0	0.2	1.7	1.3	0.0	0.0	0.0	1.7	2.4	1.5	0.0	0.0	0.0	9.0	23	
23	0.0	0.5	0.0	0.0	0.0	0.4	0	1.5	0.5	0.0	0.3	0.2	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	22	
24	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0	0.0	0.2	0.0	0.0	0.8	21	
25	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0	0.0	0.2	0	0.2	0.0	0	0.0	0.8	19	
26	0.2	0	0.0	0.0	0.0	0.0	0.2	0	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0	0.0	0.0	0.8	20	
27	0	0.2	0.0	0.0	0	0.3	0	0.0	0.0	0.2	0.2	0	0.0	0.0	2.0	0	0.1	0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.1	18	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.6	22	
29	0	0.0	0	0	0.2	0	0.0	0.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	20		
30	0.0	0.0	0.0	0.0	0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	23	
31	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	22	
Hour Avg.:	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.0	NA	0.1	0.1	0.1	0.0	0.0				
Hour Max.:	0.4	0.7	0.8	1.2	0.3	0.8	0.4	1.5	0.5	0.3	1.2	0.7	0.8	0.2	2.0	1.3	0.6	0.3	0.5	1.7	2.4	1.5	0.3	0.5				
Readings	26	27	24	27	27	29	26	27	29	27	27	24	27	24	29	24	28	25	22	27	23	27	27	28				
Monthly Total:	43.4 mm																							Data Capture:	84.8 %		Total Valid Hours =	631
System Codes:	NA	- Not Available =						0	AUD	- Audit =						3	ACAL	- Auto Cal =						0				
	RNG	- Range =						0	M&R	- Maintenance & Repair =						0	INOP	- InOperative =						0				
	Cal	- Calibration =						0	MCAL	- Manual Calibration =						0	PF	- Power Fail =						0				
	MISS	- Data Not Collected =						0																				

Figure 1. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
DAILY AVERAGE PM₁₀ CONCENTRATIONS
May 2005



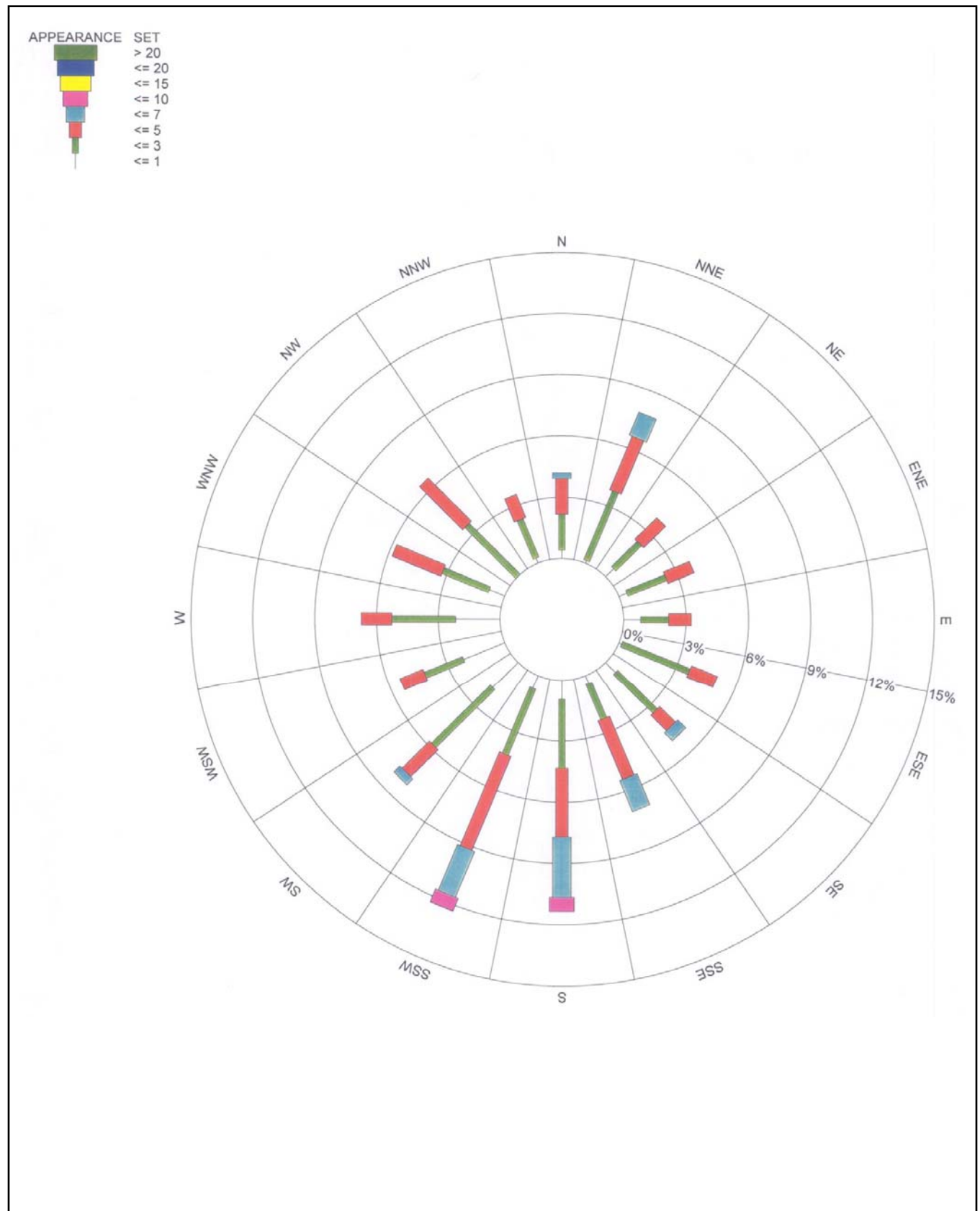


Figure 2
Wind Speed, 1-Hour Average, m/s, KMC Eagle Station
(Discluding Invalid Data) Overall Average: 2.90013

Source: Golder, 2005.

Figure 3. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
WIND SPEED HOURLY AVERAGES
MAY 2005

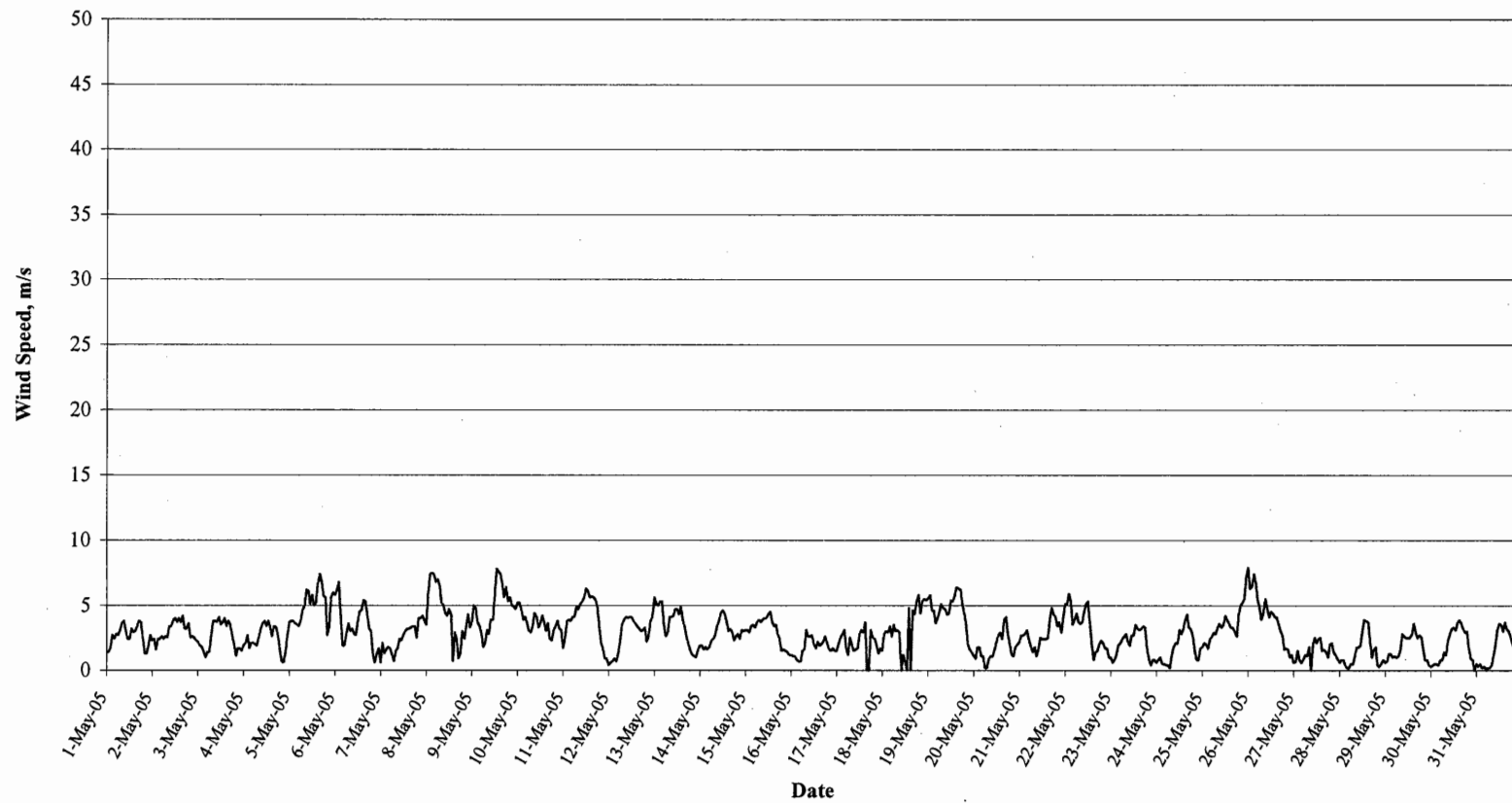


Figure 4. KENNECOTT MINERAL CORPORATION AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
TEMPERATURE HOURLY AVERAGES
MAY 2005

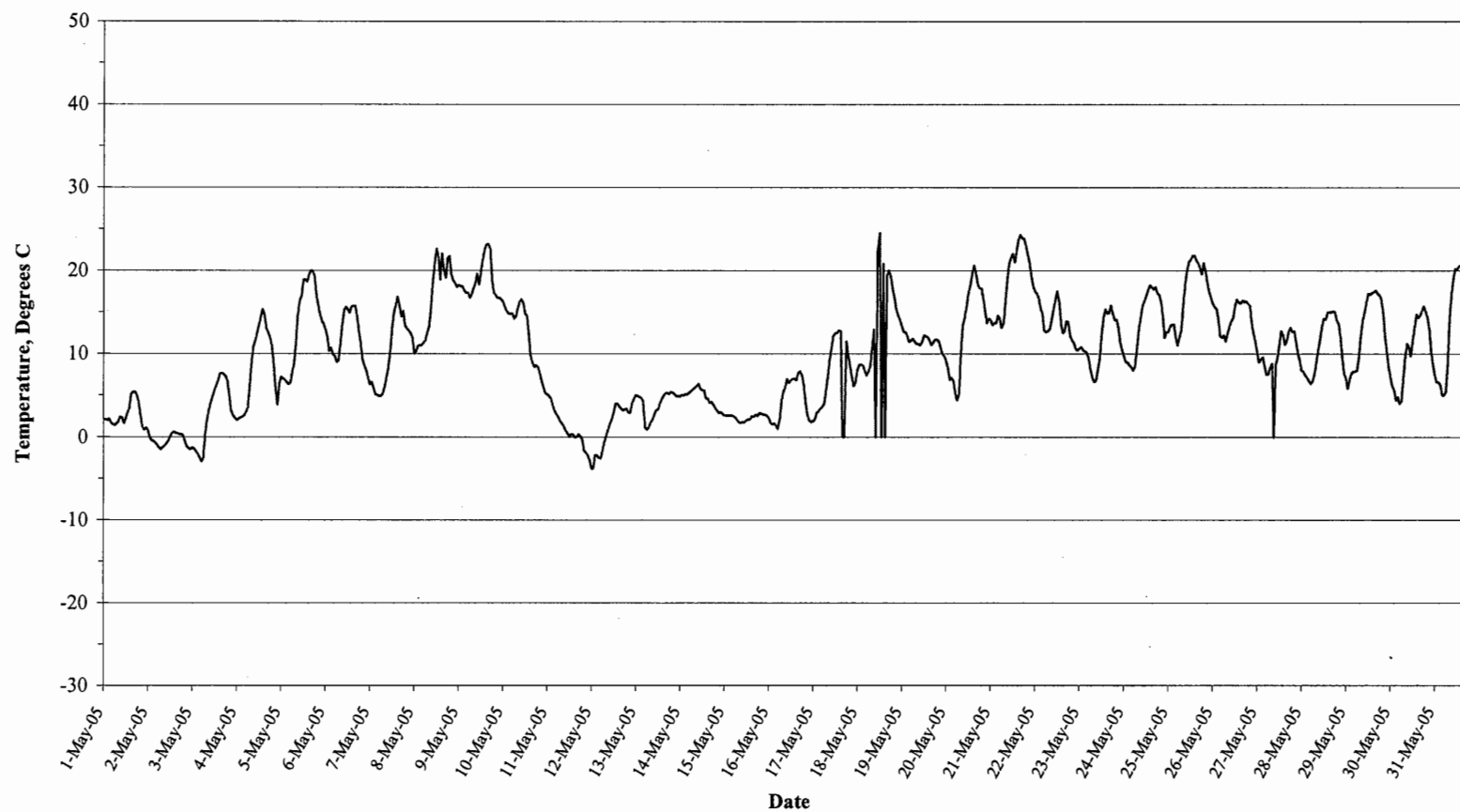


Figure 5. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
RELATIVE HUMIDITY HOURLY AVERAGES
MAY 2005

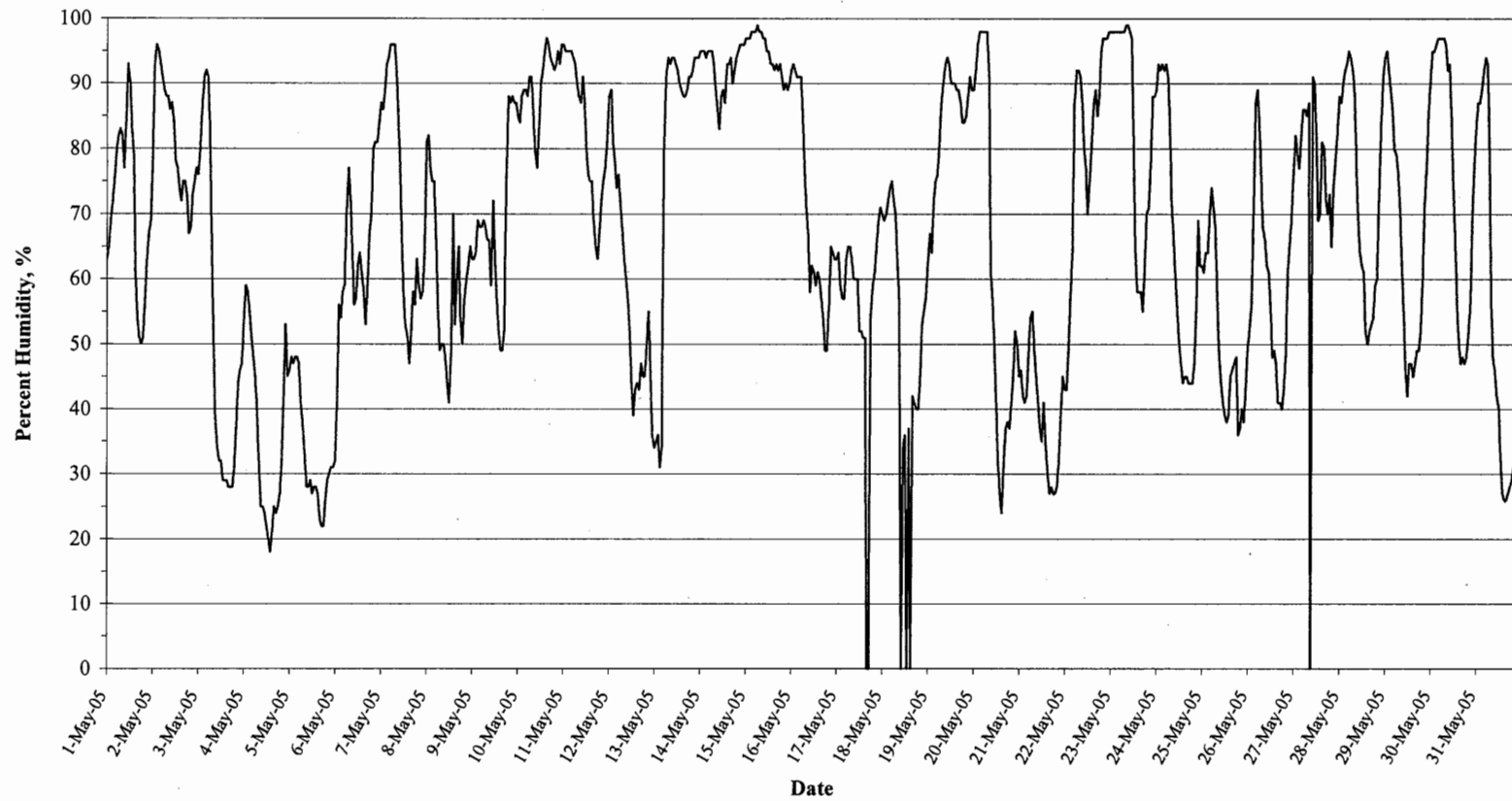


Figure 6. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
SOLAR RADIATION HOURLY AVERAGES
MAY 2005

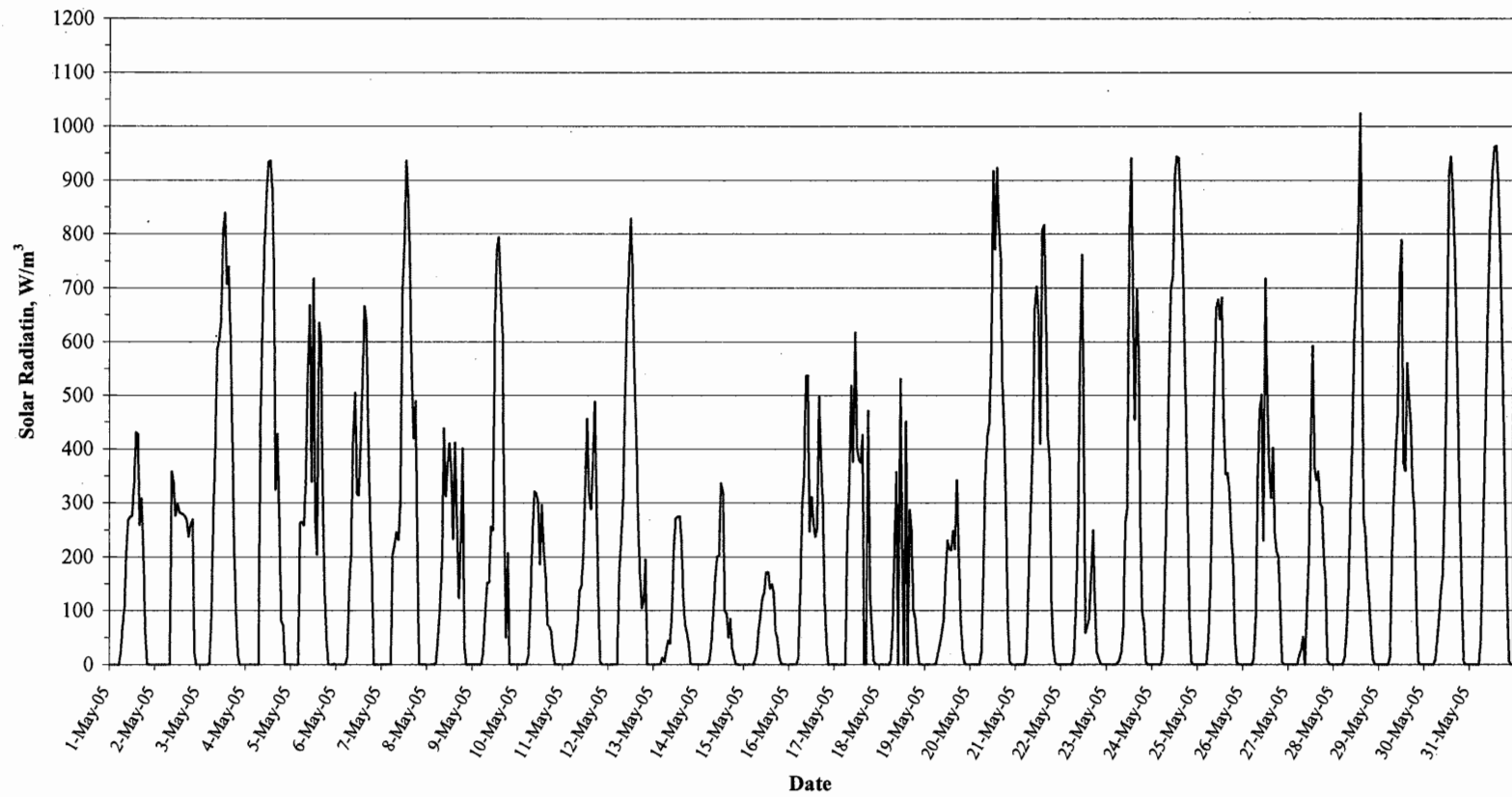
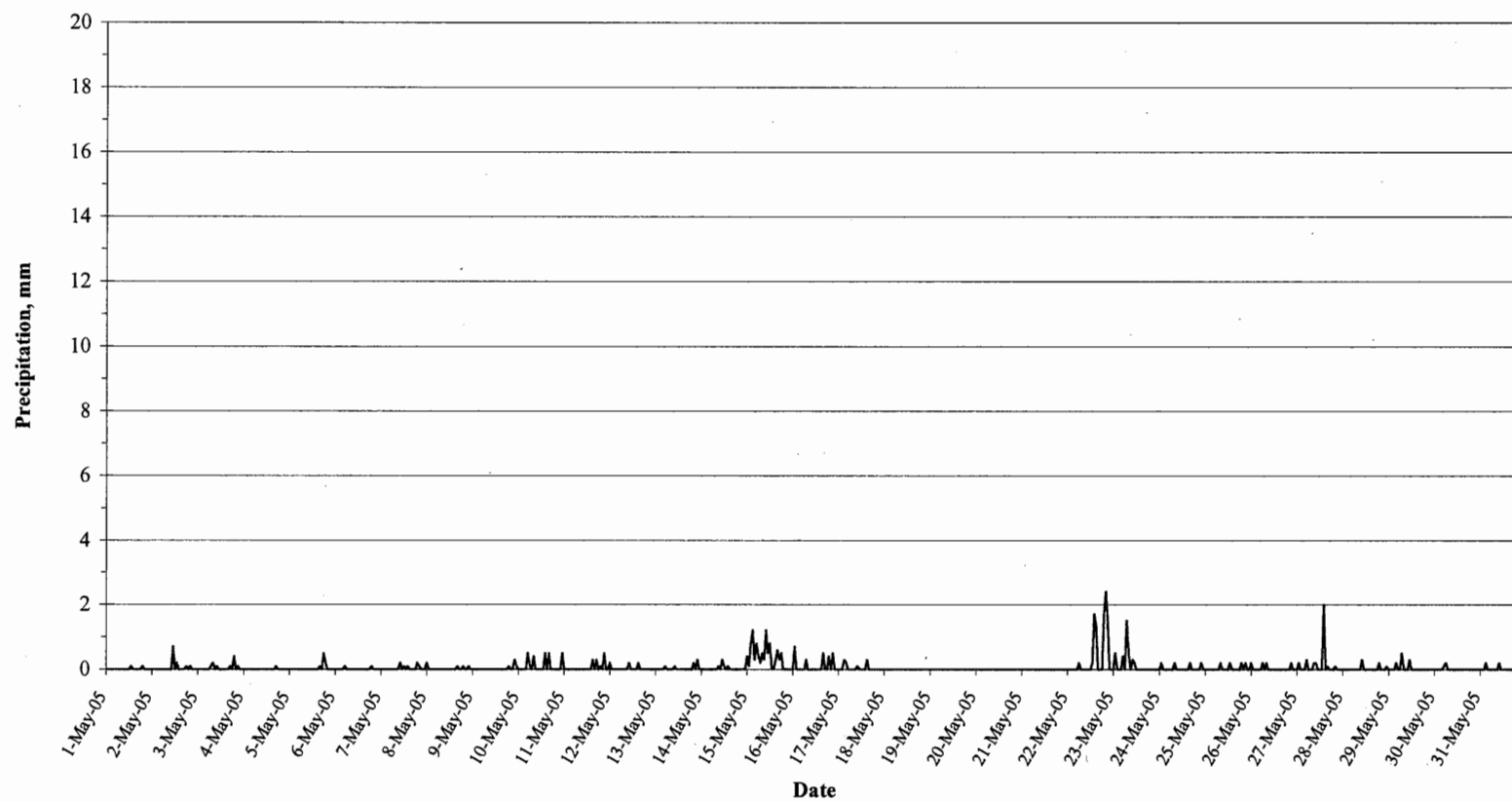


**Figure 7. KENNECOTT MINERAL CORPORATION EAGLE AMBIENT AIR/MET BASELINE
KMC EAGLE STATION
PRECIPITATION HOURLY ACCUMULATIONS
MAY 2005**



Appendix M

Fourth Quarter 2004 Performance Audit Report

**SECOND BI-ANNUAL AUDIT OF
AIR/MET NETWORK FOR
2004 RESOURCE BASELINE
DATA COLLECTION
EAGLE MINE PROJECT
MARQUETTE, MICHIGAN**

Prepared For:

**Kennecott Minerals Company
1004 Harbor Hills Drive, Suite 103
Marquette, MI 49855**

Prepared By:

**Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

**November 2004
0332516**

DISTRIBUTION:

**1 Hardcopy and 1 CD – Mr. Jon Cherry, Kennecott Minerals Company
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Executive Summary

A comprehensive system and performance audits were performed on the Air Quality and Meteorological Monitoring Station of the Kennecott Minerals Company's (KMC) Eagle Project, Marquette, Michigan by Golder Associates Inc (Golder). The air quality and the meteorological audits were performed November 10 and 11, 2004. The results of the audits indicate that the air quality and meteorological data collected by the KMC monitoring station are valid.

The air quality equipment that was included in this audit was the Met One Inc. Model BAM 1020 Continuous PM₁₀ Particulate Monitor. The R.M. Young Inc. meteorological parameters included in the audit were, wind direction, wind speed, temperature, precipitation, and solar radiation.

As part of the Stage 1 and Stage 2 work plans for resource baseline data collection, Golder is to perform bi-annual audits on the air quality and meteorological station. Independent auditing is vital to insure quality assurance (QA) for air and meteorological monitoring stations. The audit is used to assess the precision and accuracy of the data measured and recorded by the total measurement system (sample collection, sample analysis, and data processing). The total measurement system was validated and qualified by the performance audits. The attached tables provide the audit results for each piece of equipment or sensor.

The performance audit was successful and all the instrumentation passed the performance audit with the following exception and the reasons are noted. The BAM 1020 flow check audit was not acceptable due to dirt causing a leak at the pump nozzle. The nozzle was cleaned and the flow rate was audited and found acceptable.

It is recommended that the data be summarized monthly in tabular form with graphs so that the data from the station can be reviewed to determine both proper equipment operations as well as data completeness (an example will be provided in the Operations and Maintenance Manual). The project specific Operations and Maintenance Manual Appendices provide lists of spare parts for each sensor or component in the monitoring station.

EAGLE PROJECT

The KMC mine site is located in a rural area of the Yellow Dog plains in Michigamme Township of Marquette County in the Upper Peninsula of Michigan. The site is remote and has no electrical power (utility based) to the site. Therefore, the monitoring equipment is powered by a robust, stand alone solar power system consisting of 16 solar-panel arrays and batteries, which continuously provide sufficient power to all sensors and components of the data monitoring system. Since the network is designed to monitor baseline air quality, a hybrid system (solar and generator power) which would produce air pollution products was eliminated as a choice of providing remote power. Golder chose to use a solar power design and supply company based in Michigan that has vast experience with providing solar powered energy systems in remote northern climates. Additionally, the meteorological monitoring equipment manufacturer is also located in Michigan and has, as well, vast experience in providing robust meteorological monitoring systems to operate long-term and unattended in northern climates.

The air quality equipment consists of a continuous PM₁₀ sampler that operates using beta attenuation to determine mass loadings and concentrations of particulate matter. The meteorological monitoring station consists of a wind speed anemometer, wind direction sensor, relative humidity sensor, pyranometer to measure solar radiation and temperature sensor mounted on a 10-meter (m) tower with lightning protection. A weighing bucket rain gauge, at ground level, was installed within the monitoring enclosure. Station installation was completed by the end of March 2004.

Golder performed a performance audit of the air quality equipment and meteorological sensors associated with air/met station at the Eagle Project Monitoring Station in April and May of 2004 and then again in November 2004. This report presents the results of the November 2004 audit. The performance criteria for the audit are provided in Table 1.

Table 1

Measurement	Audit Performance Criteria
PM ₁₀	± 6 % difference in value
Wind Speed	± 3 MPH difference
Wind Direction	± 5.0 ° difference
Temperature	± 1.0 °C difference
Relative Humidity	± 5.0 % difference
Solar Radiation	± 5.0 % difference
Precipitation	± 0.1 inch difference

AUDITED EQUIPMENT

Air Quality Monitoring Equipment

The BAM 1020 is a truly portable continuous reporting beta attenuation monitor (BAM). A measurement of the mass concentration of dust particles is made using the principle of beta attenuation. Beta attenuation is a proven technology that has been used for particulate monitoring for over 40 years. A small C-14 source emits a constant 60 microcurie of high-energy electrons known as beta particles. These beta particles are efficiently detected by an ultra sensitive scintillation detector and counter positioned near the source. The filter paper is located between the source and the detector. Both the beta source and detector are mounted in a special aerodynamic flow chamber. The vacuum pump pulls a measured amount of air through the flow chamber, depositing the dust particles on the filter tape. As the build-up of dust particles increases the attenuation of the beta increases and changes the detector output. This sampling method provides a continuous output of particle concentration.

The BAM 1020 (serial number D1205) was audited using an independent calibration orifice from BGI Inc. Model DeltaCal (serial number 0316). This orifice determines the flow rate during sampling with the resulting flow rates calculated and compared with the values that the BAM 1020 records. The flow rate audit reading for the sampler was 16.6 liters per minute (LPM) and the flow rate audit for the calibrator was 13.3 LPM. The percent difference was 24.8, which is not within the criteria of a successful flow check percent difference requirement of +/- four percent. A leak check was then performed and did not pass, the nozzle was cleaned and the flow was then calibrated. A BAM 1020 PM₁₀ Calibration form is included with the audit sheets showing that the flow calibration passes.

Several check and test were performed along with the above audit parameters including and analyzer self test, a zero calibration audit, and a leak check. Only the leak check failed at first. Once the nozzle was cleaned the leak check passed.

The weather conditions during the audit overcast with a light rain. Temperatures were in the single digits with moderate winds.

Meteorological Monitoring Equipment

Meteorological data is collected at a remotely powered monitoring station located adjacent to the BAM 1020 site and is used to describe the local and regional meteorology. The specific location for

the station was selected based on USEPA standard guidelines for to ensure collection of representative data, such as permissible distance from buildings, allowable heights of nearby obstructions, proximity to areas prone to windblown dust, etc. Meteorological sensors on the towers are used to gather horizontal wind speed/direction, relative humidity, ambient temperature, solar radiation and relative humidity data. Precipitation and snowfall are measured with a Belfort universal precipitation gauge.

The meteorological monitoring station will include:

- R.M. Young Model 05103V High Performance Wind Monitor;
- R.M. Young Model 41372VC Temperature/Relative Humidity Sensor;
- R.M. Young Model 41003P Multi-plate Radiation Shield;
- R.M. Young Model 70090 LiCor Solar Radiation Sensor;
- Belfort Instruments Model 5915-20 Universal Precipitation Gauge;
- R.M. Young Model 26700 Programmable Translator with Weatherproof Enclosure; and
- Aluma Tower Model M-10M-PT 10-Meter Aluminum Tower and Base.

The KEX monitoring stations measure hourly observations of wind direction, wind speed, temperature, relative humidity and solar radiation.

The integrated wind speed and direction sensor is highly rugged and dependable. The Model 05103V wind speed sensor is a four blade helicoids propeller. Propeller rotation produces an AC sine wave voltage signal with frequency directly proportional to wind speed. Slip rings and brushes are eliminated for increased reliability. The wind direction sensor is a rugged yet lightweight vane with a sufficiently low aspect ratio to assure good fidelity in fluctuating wind conditions. Vane angle is sensed by a precision potentiometer housed in a sealed chamber. With a known excitation voltage applied to the potentiometer, the output voltage is directly proportional to vane angle. A mounting orientation ring assures correct realignment of the wind direction reference when the instrument is removed for maintenance. The instrument is made of UV stabilized plastic with stainless steel and anodized aluminum fittings. Precision grade, stainless steel ball bearings are used. Transient protection and cable terminations are in a convenient junction box. The unit is designed to operate at temperatures ranging from -50°C to +50°C.

The Model 41372 Relative Humidity/Temperature Probe combines a high accuracy, capacitance type humidity sensor and 1,000 ohm Platinum RTD temperature sensor in one probe. The sensor output is

0-1 VDC for both temperature and relative humidity. The sensors operate at temperatures ranging from -50°C to +50°C. The probes are easily installed in the R.M. Young naturally ventilated (multi-plate) radiation shield. A junction box is provided for cable terminations.

The Model 41003P Multi-Plate Radiation Shield protects the temperature and relative humidity sensors from error-producing solar radiation and precipitation. Its compact size and light weight make this shield useful for many applications. The multiple discs have a unique profile that blocks direct and reflected solar radiation, yet permits easy passage of air. The disc material is specially formulated for high reflectivity, low thermal conductivity, and maximum weather resistance.

A Model 70090 LiCor Solar Radiation Sensor incorporates a multi-junction differential thermopile and a precision ground optical glass hemisphere that is transparent to wavelengths 280 to 2,800 nanometers. It is used for high precision, broad bandwidth measurements of global sun plus sky radiation. It features a rapid response time, highly stable, silicon photodiode detector (blue enhanced). The detector element is made of a silicon photodiode housed in a weatherproof anodized aluminum case with an acrylic diffuser.

The Belfort Model 5915 Universal Precipitation Gauge is designed to provide accurate measurement of all forms of precipitation, over extended periods, without frequent maintenance. This sensor incorporates an improved collector design, and higher capacity, while making use of special low drift transducer technology. The weighing mechanism's design significantly reduces wind induced errors and wetting losses common to other types of accumulating precipitation sensors. Precipitation (rainfall or snow fall) is collected through a large 12" (305 mm) diameter orifice designed to limit snow build-up. The large 20" (500 mm) capacity permits long term monitoring of snowfall in the area's cold climate, where a substantial pre-charge of anti-freeze solution is required. Potentiometric output for the purpose of transmitting data is used. A precision gear train produces a resistance change proportional to the amount of rainfall received.

The entire meteorological monitoring system is small, self-contained, and provides continuous recording and storage of the collected weather information. The DAS is the central "brain" of the monitoring station in which the data collected by the sensors are recorded, manipulated, and stored for future use and analysis. All meteorological data are recorded continuously.

The audit results indicate that the R.M. Young meteorological monitoring system at that station is operating properly. All of the sensor inputs were compared to known constants and a percent error

was calculated. The Model 5103 wind speed sensor was audited using an R.M. Young Selectable Speed Calibrator Model 18801. This calibrator rotates the sensor at a known rotation per minute (RPM) to produce a known wind speed. The percent error between the known wind speed and the recorded wind speed from the data logger was less than 1 meter per second or less than 2 percent overall. The unit passed the audit.

The wind direction sensor Model 5103 is aligned to true north and was compared to a Trekker Model 420 compass. Percent error was less than 1 percent or 1 degree difference. The unit passed the audit.

The temperature sensor Model 41372VC/VF was audited using calibrated Brooklyn Thermometer 436205. The sensor and audit thermometer were compared in three environments: First, the sensors were isolated in a cooler at a low temperature; next the sensors were isolated underneath a winter coat and warmed to close to body temperature; and lastly, the sensors were compared under the ambient conditions. The error was less than 5 percent or less than 1 degree. The unit passed the audit.

The Belfort Model 9654-6 weighing bucket precipitation gauge was audited using ten ~29 ounce weights (the weight of one inch of water). The percent error was less than 4 percent and the difference was less than 2 millimeters. The unit passed the audit.

The Model 70090 solar radiation sensor was compared with a calibrated LiCor Model LI-189 pyranometer. The percent error was 6 percent, but it was only that high because of the low solar radiation readings caused by the overcast conditions. The absolute error was only 2 Watts per meter squared. The unit passed the audit.

Local meteorological conditions were windy and overcast during the audit with a light rain and temperatures in the single digits.

BAM 1020 PM10 AUDIT

Project Name: Kennecott Mineral Station Name: Eagle
Date: 10-Nov-04 Start Time: 2:00 PM Stop Time: 3:45 PM

Instrument Information					
Manufacturer: <u>Met One Inc.</u>		Model Number: <u>BAM 1020 - PM10</u>			
S/N: <u>D1205</u>					
Audit Equipment Information					
Manufacturer: <u>BGI Inc.</u>		Model Number: <u>deltaCal</u>			
S/N: <u>0316</u>		Calibration Date: <u>8-Nov-04</u>			
Flow Rate Audit					
Sampler:	16.6	LPM	% Difference	24.8	%
deltaCal:	13.3	LPM	Allowed % difference:	+/- 4	%
Unusual Conditions: Cold and windy with light rain			PASS/FAIL:	FAIL	
Ambient Temperature Audit					
Sampler:	5.7	°C	Difference:	0.0	°C
deltaCal:	5.7	°C	Allowed difference:	+/- 2	°C
Unusual Conditions: Cold and windy with light rain			PASS/FAIL:	PASS	
Barometric Pressure Audit					
Sampler:	723	mmHg	Difference:	4	mmHg
deltaCal:	719	mmHg	Allowed difference:	+/- 10	mmHg
Unusual Conditions: Cold and windy with light rain			PASS/FAIL:	PASS	
Analyzer Self Test					
Manufacturer: <u>Met One Inc.</u>		Self Test: <u>PASS</u>			
S/N: <u>D1205</u>					
Followed audit procedures outlined in the BAM 1020 Operational Manual.					
Zero Calibration Audit					
Manufacturer: <u>Met One Inc.</u>		Start Time: <u>2:30 PM</u>	Stop Time: <u>3:45 PM</u>		
		Real time concentration:	<u>0.00</u>	<u>µg/m3</u>	
Part Number: <u>BX-302</u>	PASS/FAIL:		PASS		
Leak Check					
Manufacturer: <u>Met One Inc.</u>		Flow:	<u>1</u>	<u>LPM</u>	
Part Number <u>BX-305</u>	Allowable Flow:		<u>< 2.0</u>	<u>LPM</u>	
PASS/FAIL:			PASS		

BAM 1020 PM10 Calibration

Project Name: Kennecott Mineral Station Name: Eagle
Date: 10-Nov-04 Start Time: 2:20 PM Stop Time: 3:00 PM

Instrument Information					
Manufacturer: <u>Met One Inc.</u>		Model Number: <u>BAM 1020 - PM10</u>			
S/N: <u>D1205</u>					
Audit Equipment Information					
Manufacturer: <u>BGI Inc.</u>		Model Number: <u>deltaCal</u>			
S/N: <u>0316</u>		Calibration Date: <u>8-Nov-04</u>			
Flow Rate Calibration Run 1					
Sampler:	16.7	LPM	% Difference:	5.7	%
deltaCal:	15.8	LPM	Allowed % difference:	+/- 4	%
Unusual Conditions: <u>Cold and windy with light rain</u>			PASS/FAIL: <u>FAIL</u>		
Flow Rate Calibration Run 2					
Sampler:	16.8	LPM	% Difference:	0.6	%
deltaCal:	16.7	LPM	Allowed % difference:	+/- 4	%
Unusual Conditions: <u>Cold and windy with light rain</u>			PASS/FAIL: <u>PASS</u>		

Comments: After the Audit, the nozzle was cleaned and a leak check was performed (see BAM
1020 PM10 Audit sheet) and another flow calibration was performed (see results in Run 1 above). The
flow then needed to be manually adjusted to the flow standard (see results in Run 2 above).

Technician: *Greg B. Niles* Date: 18-Nov-04

QA Review: *Danif M. Niles* Date: 18-Nov-04

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral
Site: Eagle
Meteorological Parameter: Wind Speed
Calibration Time: Start: 11:42 AM

Project Number: 033-2156-01B0
Date: 10-Nov-04
Sensor Height: 10 meters
End: 11:48 AM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	5103	NUWM59120	17-May-04	1
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Selectable Speed Calibrator</u>				Certification Date: <u>3-Mar-04</u>	

CALIBRATION DATA

Calibrator RPM	Theoretical (m/s)	DAS (m/s)	Difference	% Error	
0	0.0	0	0.00	0.00	
1000	4.9	5	0.10	2.04	
2000	9.8	10	0.20	2.04	
3000	14.7	15	0.30	2.04	
4000	19.6	20	0.40	2.04	
5000	24.5	25	0.50	2.04	
6000	29.4	29	-0.40	-1.36	
7000	34.3	34	-0.30	-0.87	
8000	39.2	39	-0.20	-0.51	
9000	44.1	44	-0.10	-0.23	
9500	46.6	47	0.40	0.86	

Mean Absolute Error: 0.26 1.28

Comments: Light rain with winds ~3 m/s. There is no required maintenance at this time.

Technician: Greg B. Niles

Date: 18-Nov-04

QA Review: Janet A. M...

Date: 18-Nov-04

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral
Site: Eagle
Meteorological Parameter: Wind Direction
Calibration Time: Start: 11:54 AM

Project Number: 033-2156-01B0
Date: 10-Nov-04
Sensor Height: 10 meters
End: 12:00 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	5103	NUWM59120	17-May-04	2
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Trekker Model 420 compass</u>			Certification Date: <u>NA</u>		

CALIBRATION DATA

General Direction	Theoretical	DAS (Degrees)	Difference	% Error	
East	0/360	0.0	0.00	0.00	
South	90.0	91.0	1.00	1.11	
West	180.0	179.0	-1.00	-0.56	
North	270.0	268.0	-2.00	-0.74	

Mean Absolute Error: 1.00 0.60

Comments: Light rain with winds ~3 m/s. There is no required maintenace at this time.

Technician: *Yogee B. Niles*

Date: 18-Nov-04

QA Review: *David H. Muz*

Date: 18-Nov-04

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 10-Nov-04
Meteorological Parameter: Temperature Sensor Height: 10 meters
Calibration Time: Start: 11:49 AM End: 3:00 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	41372VC/VF	NUTS8536	17-May-04	3
DAS	RM Young	26700	NUPT5856	Dec-03	
DVM (Optional)					
Calibration Equipment: <u>Brooklyn Thermometer 436205</u>			Certification Date: <u>19-Feb-04</u>		

CALIBRATION DATA

Data Point	Theoretical (°C)	DAS (°C)	Difference	% Error	
Ambient 1	8.3	8.8	0.50	6.02	
Ambient 2	9.0	9.3	0.30	3.33	
Heated 1	25.0	25.2	0.20	0.80	
Chilled 1	5.3	5.7	0.40	7.55	

Mean Absolute Error: 0.35 4.43

Comments: Cleaned sensor. Chilled temperature obtained by suspending sensors over ice

bath. Heated temperature obtained by placing sensors underneath winter jacket. There is no

required maintenace at this time.

Technician: *Greg B. Miles*

Date: 18-Nov-04

QA Review: *David P. Miles*

Date: 12/17/04

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 10-Nov-04
Meteorological Parameter: Solar Radiation Sensor Height: 2 Meters
Calibration Time: Start: 1:20 PM End: 2:30 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	70090	NUSRPY46331	17-May-04	6
DAS	RM Young	26700	NUPT5856	Dec-03	
DVM (Optional)					
Calibration Equipment: <u>Light Meter LI-189 and PY-20412</u>			Certification Date: <u>22-Sep-93</u>		

CALIBRATION DATA

Data Point	Theoretical (W/m2)	DAS (W/m2)	Difference	% Error	
1	21	19	-2	-9.52	
2	22	21	-1	-4.55	
3	102	98	-4	-3.92	

Mean Absolute Error: 2 6.00

Comments: Light rain and very cloudy. There is no required maintenance at this
time.

Technician: *Greg B. Niles*

Date: 18-Nov-04

QA Review: *David J. Niles*

Date: 18-Nov-04

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 10-Nov-04
Meteorological Parameter: Rain Gauge Sensor Height: 0.5 Meters
Calibration Time: Start: 12:20 PM End: 12:50 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	Belfort	9654-6	-	12-Dec-03	5
DAS	RM Young	26700	NUPT5856	Dec-03	
DVM (Optional)					
Calibration Equipment: <u>~29oz weights</u>				Certification Date: <u>NA</u>	

CALIBRATION DATA

# of weights	Adjusted Value (mm)	DAS (cc)	Difference	% Error	
0	11.4	11.4	0.00	0.00	
0.5	24.1	25.3	1.20	4.98	
1	36.8	36.2	-0.60	-1.63	
2	62.2	64.1	1.90	3.05	
3	87.6	87.9	0.30	0.34	
4	113.0	112.9	-0.10	-0.09	
5	138.4	135.7	-2.70	-1.95	
6	163.8	161.9	-1.94	-1.18	
7	189.2	186.1	-3.10	-1.64	
8	214.6	212.5	-2.10	-0.98	
9	240.0	236.5	-3.50	-1.46	
10	265.4	262.9	-2.50	-0.94	
9	240.0	240.5	0.50	0.21	
8	214.6	214.3	-0.30	-0.14	
7	189.2	189.6	0.40	0.21	
6	163.8	165.40	1.60	0.98	
5	138.4	139.20	0.80	0.58	
4	113.0	116.10	3.10	2.74	
3	87.6	89.70	2.10	2.40	
2	62.2	65.40	3.20	5.14	
1	36.8	39.80	3.00	8.15	
0	12.4	14.60	2.20	17.74	

Mean Absolute Error: 1.70 3.47

Comments: Upon arriving to the station there was ice already forming in the bucket. After the
bucket was cleaned after the audit and about 1/2 gallon of antifreeze was added. The new
zero was 61.1 mm after adding the antifreeze.

Technician: *Bob Niles* Date: 18-Nov-04

QA Review: *Samuel* Date: 18-Nov-04

Appendix N

Second Quarter 2005 Performance Audit Report

*Privileged and Confidential
Attorney-Client Work Product*

**SECOND QUARTER AUDIT OF
AIR/MET NETWORK FOR
2005 RESOURCE BASELINE
DATA COLLECTION
EAGLE MINE PROJECT
MARQUETTE, MICHIGAN**

Prepared For:

**Kennecott Minerals Company
1004 Harbor Hills Drive, Suite 103
Marquette, MI 49855**

Prepared By:

**Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

**May 2005
0332516**

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Golder performed a performance audit of the air quality equipment and meteorological sensors associated with air/met station at the Eagle Project Monitoring Station

Air Quality Monitoring Equipment

The BAM 1020 is a truly portable continuous reporting beta attenuation monitor (BAM). A measurement of the mass concentration of dust particles is made using the principle of beta attenuation. Beta attenuation is a proven technology that has been used for particulate monitoring for over 40 years. A small C-14 source emits a constant 60 microcuries of high-energy electrons known as beta particles. These beta articles are efficiently detected by an ultra sensitive scintillation detector and counter positioned near the source. The filter paper is located between the source and the detector. Both the beta source and detector are mounted in a special aerodynamic flow chamber. The vacuum pump pulls a measured amount of air through the flow chamber, depositing the dust particles on the filter tape.

As the build-up of dust particles increases the attenuation of the beta increases and changes the detector output. This sampling method provides a continuous output of particle concentration.

The BAM 1020 (serial number D1205) was audited using an independent calibration orifice from BGI Inc. Model DeltaCal (serial number 0316). This orifice determines the flow rate during sampling with the resulting flow rates calculated and compared with the values that the BAM 1020 records. The flow rate audit reading for the sampler was 16.7 liters per minute (LPM) and the flow rate audit for the calibrator was 16.9 LPM. The percent difference was 1.2, which is within the criteria of a successful flow check percent difference requirement of $\pm$ four percent. The ambient temperature audit reading for the sampler was 13.9 degrees Celsius ($^{\circ}\text{C}$) and the audit temperature for the calibrator was 14.2 $^{\circ}\text{C}$. The difference was 0.33 $^{\circ}\text{C}$, which is within the criteria of a successful temperature audit difference of $\pm$ 2 $^{\circ}\text{C}$. The barometric pressure audit reading for the sampler was 725 millimeters of Mercury (mmHg) and the audit pressure for the calibrator was 722 mmHg. The difference was 3 mmHg, which is within the criteria of a successful pressure audit difference of $\pm$ 10 mmHg.

Several successful checks and tests were performed along with the above audit parameters including an analyzer self test, a zero calibration audit, and a leak check.

The weather conditions during the air quality audit were sunny with temperatures in the mid teens and moderate winds.

Meteorological Monitoring Equipment

Meteorological data is collected at a remotely powered monitoring station located adjacent to the BAM 1020 site and is used to describe the local and regional meteorology. The specific location for the station was selected based on USEPA standard guidelines for to ensure collection of representative data, such as permissible distance from buildings, allowable heights of nearby obstructions, proximity to areas prone to windblown dust, etc. Meteorological sensors on the towers are used to gather horizontal wind speed/direction, relative humidity, ambient temperature, solar radiation and relative humidity data. Precipitation and snowfall are measured with a Belfort universal precipitation gauge.

The meteorological monitoring station includes the following:

- R. M. Young Model 05103V High Performance Wind Monitor
- R. M. Young Model 41372VC Temperature/Relative Humidity Sensor
- R. M. Young Model 41003P Multi-plate Radiation Shield
- R. M. Young Model 70090 LiCor Solar Radiation Sensor
- Belfort Instruments Model 5915-20 Universal Precipitation Gauge
- R. M. Young Model 26700 Programmable Translator with Weatherproof Enclosure
- Aluma Tower Model M-10M-PT 10-Meter Aluminum Tower and Base

The KEX monitoring stations measure hourly observations of wind direction, wind speed, temperature, relative humidity and solar radiation.

The integrated wind speed and direction sensor is highly rugged and dependable. The Model 05103V wind speed sensor is a four blade helicoids propeller. Propeller rotation produces an AC sine wave voltage signal with frequency directly proportional to wind speed. Slip rings and brushes are eliminated for increased reliability. The wind direction sensor is a rugged yet lightweight vane with a sufficiently low aspect ratio to assure good fidelity in fluctuating wind conditions. Vane angle is sensed by a precision potentiometer housed in a sealed chamber. With a known excitation voltage applied to the potentiometer, the output voltage is directly proportional to vane angle. A mounting orientation ring assures correct realignment of the wind direction reference when the instrument is removed for maintenance. The instrument is made of UV stabilized plastic with stainless steel and anodized aluminum fittings. Precision grade, stainless steel ball bearings are used. Transient protection and cable terminations are in a convenient junction box. The unit is designed to operate at temperatures ranging from -50 °C to +50 °C.

The Model 41372 Relative Humidity/Temperature Probe combines a high accuracy, capacitance type humidity sensor and 1000 ohm Platinum RTD temperature sensor in one probe. The sensor output is 0-1 VDC for both temperature and relative humidity. The sensors operate at temperatures ranging from -50 °C to +50 °C. The probes are easily installed in the R. M. Young naturally ventilated (multi-plate) radiation shield. A junction box is provided for cable terminations.

The Model 41003P Multi-Plate Radiation Shield protects the temperature and relative humidity sensors from error-producing solar radiation and precipitation. Its compact size and light weight make this shield useful for many applications. The multiple discs have a unique profile that blocks direct

and reflected solar radiation, yet permits easy passage of air. The disc material is specially formulated for high reflectivity, low thermal conductivity, and maximum weather resistance.

A Model 70090 LiCor Solar Radiation Sensor incorporates a multi-junction differential thermopile and a precision ground optical glass hemisphere that is transparent to wavelengths 280 to 2800 nanometers. It is used for high precision, broad bandwidth measurements of global sun plus sky radiation. It features a rapid response time, highly stable, silicon photodiode detector (blue enhanced). The detector element is made of a silicon photodiode housed in a weatherproof anodized aluminum case with an acrylic diffuser.

The Belfort Model 5915 Universal Precipitation Gauge is designed to provide accurate measurement of all forms of precipitation, over extended periods, without frequent maintenance. This sensor incorporates an improved collector design, and higher capacity, while making use of special low drift transducer technology. The weighing mechanism's design significantly reduces wind induced errors and wetting losses common to other types of accumulating precipitation sensors. Precipitation (rainfall or snow fall) is collected through a large 12" (305mm) diameter orifice designed to limit snow build-up. The large 20" (500mm) capacity permits long term monitoring of snowfall in the area's cold climate, where a substantial pre-charge of anti-freeze solution is required. Potentiometric output for the purpose of transmitting data is used. A precision gear train produces a resistance change proportional to the amount of rainfall received.

The entire meteorological monitoring system is small, self-contained, and provides continuous recording and storage of the collected weather information. The DAS is the central "brain" of the monitoring station in which the data collected by the sensors are recorded, manipulated, and stored for future use and analysis. All meteorological data are recorded continuously.

The audit results indicate that the R.M. Young meteorological monitoring system at that station is operating properly. All of the sensor inputs were compared to known constants and a percent error was calculated. The Model 5103 wind speed sensor was audited using an RM Young Selectable Speed Calibrator Model 18801. This calibrator rotates the sensor at a known rotation per minute (RPM) to produce a known wind speed. The percent error between the known wind speed and the recorded wind speed from the data logger was less than 1 meter per second or less than 3 percent overall. The unit passed the audit.

The wind direction sensor Model 5103 is aligned to true north and was compared to a Trekker Model 420 compass. Percent error was less than 1 percent or 1 degree difference. The unit passed the audit.

The temperature sensor Model 41372VC/VF was audited using a calibrated Oakton Thermohygrometer. The sensor and audit thermometer were compared in two environments: First, the sensors were isolated in a cooler at a low temperature. Next the sensors were compared under the ambient conditions. The error was less than 2 percent or less than 1 degree. The unit passed the audit.

The relative humidity sensor Model 41372VC/VF was audited using a calibrated Oakton Thermohygrometer. The sensor and audit calibrator were compared in two environments: First, the sensors were isolated in a cooler at a low temperature. Next the sensors were compared under the ambient conditions. The error was less than 4 percent and the absolute error was 1. The unit passed the audit.

The Belfort Model 9654-6 weighing bucket precipitation gauge was audited using ten ~29 ounce weights (the weight of one inch of water). The percent error was less than 3 percent and the difference was less than 2 millimeters. The unit passed the audit.

The Model 70090 solar radiation sensor was compared with a calibrated LiCor Model LI-189 pyranometer. The percent error was less than 2 percent and the absolute error less than 10 Watts per square meter. The unit passed the audit.

Local meteorological conditions during the meteorological equipment audit were windy and overcast, with sporadic light rain and temperatures in the single digits.

BAM 1020 PM10 AUDIT

Project Name: Kennecott Mineral Station Name: Eagle

Date: 17-May-05 Start Time: 3:40 PM Stop Time: 5:15 PM

Instrument Information

Manufacturer: Met One Inc. Model Number: BAM 1020 - PM10

S/N: D1205

Audit Equipment Information

Manufacturer: BGI Inc. Model Number: deltaCal

S/N: 0316 Calibration Date: 8-Nov-04

Flow Rate Audit

Sampler: 16.7 LPM % Difference -1.2 %

deltaCal: 16.9 LPM Allowed % difference: +/- 4 %

Unusual Conditions: PASS/FAIL: PASS

Ambient Temperature Audit

Sampler: 13.9 °C Difference: -0.3 °C

deltaCal: 14.2 °C Allowed difference: +/- 2 °C

Unusual Conditions: PASS/FAIL: PASS

Barometric Pressure Audit

Sampler: 725 mmHg Difference: 3 mmHg

deltaCal: 722 mmHg Allowed difference: +/- 10 mmHg

Unusual Conditions: PASS/FAIL: PASS

Analyzer Self Test

Manufacturer: Met One Inc. Self Test: PASS

S/N: D1205

Followed audit procedures outlined in the BAM 1020 Operational Manual.

Zero Calibration Audit

Start Time: 5:00 PM Stop Time: 5:20 PM

Manufacturer: Met One Inc. Real time concentration: 0.00 µg/m3

Part Number: BX-302 PASS/FAIL: PASS

Leak Check

Manufacturer: Met One Inc. Flow: 0.5 LPM

Part Number BX-305 Allowable Flow: < 1.5 LPM

PASS/FAIL: PASS

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral
Site: Eagle
Meteorological Parameter: Wind Speed
Calibration Time: Start: 11:15 AM

Project Number: 033-2156-01B0
Date: 18-May-05
Sensor Height: 10 meters
End: 11:30 AM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	5103	NUWM59120	10-Nov-04	1
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Selectable Speed Calibrator</u>			Certification Date: <u>3-Mar-04</u>		

CALIBRATION DATA

Calibrator RPM	Theoretical (m/s)	DAS (m/s)	Difference	% Error	
0	0.0	0	0.00	NA	
600	3.0	3	0.00	0.00	
1200	6.0	6	0.00	0.00	
1800	9.0	9	0.00	0.00	
2500	13.0	12	-1.00	-7.69	
3500	18.0	17	-1.00	-5.56	
2500	13.0	12	-1.00	-7.69	
1800	9.0	9	0.00	0.00	
1200	6.0	6	0.00	0.00	
600	3.0	3	0.00	0.00	
0	0.0	0	0.00	NA	

Mean Absolute Error: 0.27 2.33

Comments: Bearings are in good condition. There is no required maintenance at this time.

Technician: *Greg B. Ni*

Date: 25-May-05

QA Review: *DA MUK*

Date: 25MAY05

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral
Site: Eagle
Meteorological Parameter: Wind Direction
Calibration Time: Start: 11:30 AM

Project Number: 033-2156-01B0
Date: 18-May-05
Sensor Height: 10 meters
End: 11:45 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	5103	NUWM59120	10-Nov-04	2
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Trekker Model 420 compass</u>			Certification Date: <u>NA</u>		

CALIBRATION DATA

General Direction	Theoretical	DAS (Degrees)	Difference	% Error	
North	360	363	3	0.83	
East	90	90	0	0.00	
South	180	180	0	0.00	
West	270	271	1	0.37	

Mean Absolute Error: 1.00 0.30

Comments: Bearings are in good conditon. There is no required maintenance at this time.

Technician: Yong B. Lin

Date: 25-May-05

QA Review: DA Mike

Date: 25MAY05

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 18-May-05
Meteorological Parameter: Temperature Sensor Height: 10 meters
Calibration Time: Start: 11:00 AM End: 1:05 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	41372VC/VF	NUTS8536	10-Nov-04	3
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Oakton Thermohygrometer - 9010847</u> Certification Date: <u>13-May-05</u>					

CALIBRATION DATA

Data Point	Theoretical (°C)	DAS (°C)	Difference	% Error	
Ambient 1	23.7	23.8	0.10	0.42	
Chilled 1	24.7	23.9	-0.80	-3.24	
Chilled 2	22.5	22.5	0.00	0.00	

Mean Absolute Error: 0.30 1.22

Comments: Cleaned sensor. Chilled temperature obtained by suspending sensors over ice

bath. There is no required maintenance at this time.

Technician: *Greg B. Wi*

Date: 25-May-05

QA Review: *[Signature]*

Date: 25MAY05

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 18-May-05
Meteorological Parameter: Relative Humidity Sensor Height: 10 meters
Calibration Time: Start: 11:00 AM End: 1:05 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	5103	NUWM59120	10-Nov-04	4
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Oakton Thermohygrometer-9010847</u> Certification Date: <u>13-May-05</u>					

CALIBRATION DATA

Data Point	Theoretical (%)	DAS (%)	Difference	% Error	
Ambient	32.0	31.0	-1.00	-3.13	
Ice 1	30.7	29.7	-1.00	-3.26	
Ice 2	32.0	31.0	-1.00	-3.13	

Mean Absolute Error: 1.00 3.17

Comments: Cleaned sensor. Chilled temperature obtained by suspending sensors over ice bath. There is no required maintenance at this time.

Technician: Gary B. Lin

Date: 25-May-05

QA Review: [Signature]

Date: 25 May 05

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral
Site: Eagle
Meteorological Parameter: Solar Radiation
Calibration Time: Start: 11:00 AM

Project Number: 033-2156-01B0
Date: 18-May-05
Sensor Height: 2 Meters
End: 11:56 AM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	RM Young	70090	NUSRPY46331	10-Nov-05	6
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: <u>Light Meter LI-189 and PY-20412</u>			Certification Date: <u>22-Sep-93</u>		

CALIBRATION DATA

Data Point	Theoretical (W/m ²)	DAS (W/m ²)	Difference	% Error	
1	0	1	1	NA	
2	401	391	-10	-2.49	
3	509	496	-13	-2.55	
4	565	594	29	5.13	
5	508	500	-8	-1.57	
6	739	740	1	0.14	
7	827	822	-5	-0.60	

Mean Absolute Error: 9.54 2.08

Comments: There is no required maintenance at this time.

Technician: *Harold B. Lin*

Date: 25-May-05

QA Review: *[Signature]*

Date: 25-May-05

METEOROLOGICAL AUDIT FORM

Project Name: Kennecott Mineral Project Number: 033-2156-01B0
Site: Eagle Date: 18-May-05
Meteorological Parameter: Rain Gauge Sensor Height: 0.5 Meters
Calibration Time: Start: 12:00 PM End: 12:35 PM

CALIBRATION EQUIPMENT

	Manufacturer	Model	Serial Number	Last Cal./Cert. Date	Channel Number
Met. Instrument	Belfort	9654-6	-	10-Nov-04	5
DAS	RM Young	26700	NUPT5856	Dec-03	-
DVM (Optional)					
Calibration Equipment: ~29 oz weights			Certification Date: NA		

CALIBRATION DATA

# of weights	Adjusted Value (mm)	DAS (cc)	Difference	% Error	
0	0.0	0.0	0.0	NA	
1	25.4	25.0	-0.4	-1.57	
2	50.8	48.5	-2.3	-4.53	
3	76.2	71.7	-4.5	-5.91	
4	101.6	98.6	-3.0	-2.95	
5	127.0	125.8	-1.2	-0.94	
6	152.4	148.5	-3.9	-2.56	
7	177.8	176.2	-1.6	-0.90	
8	203.2	201.4	-1.8	-0.89	
9	228.6	225.5	-3.1	-1.36	
10	254.0	255.1	1.1	0.43	
9	228.6	229.1	0.5	0.22	
8	203.2	198.0	-5.2	-2.56	
7	177.8	175.9	-1.9	-1.07	
6	152.4	152.1	-0.3	-0.20	
5	127.0	125.3	-1.7	-1.34	
4	101.6	99.7	-1.9	-1.87	
3	76.2	76.0	-0.2	-0.26	
2	50.8	49.9	-0.9	-1.77	
1	25.4	23.8	-1.6	-6.30	
0	0.0	0.00	0.0	NA	

Mean Absolute Error: 1.76 2.03

Comments: Bucket was emptied prior to starting the audit. There is no required maintenance at this time.

Technician: *Greg B. Lin*

Date: 25-May-05

QA Review: *JAM*

Date: 25 MAY 05