SUMMARY OF METEOROLOGICAL DATA COLLECTED DURING THE THIRD QUARTER 2009 AT THE RESOLUTION COPPER MINE MONITORING SITES SUPERIOR, ARIZONA

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TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

1. INTRODUCTION

This report summarizes meteorological measurements collected at the Resolution Copper Mine monitoring system. The meteorological monitoring system is comprised of two separate monitoring stations, one at the location of the east plant (KC1) near the main entrance to the mine and one at the location of the west plant (KC2), near the town of Superior. Monitoring is conducted at two sites due to the difference in topography between the two sites. The area around KC1 is at an elevated mountainous area; KC2 is located at the base of the mountains. The Resolution Copper Mine is a previously decomissioned underground copper and molybdenum mine that will be re-opened by Resolution Copper Company (Resolution), a member of Rio Tinto Group. The Resolution Mine is located just east of Superior, Arizona in Pinal County as shown in Figure 1.1.

The Resolution Project is located in the historic Pioneer Mining District three miles East of Superior, Arizona (See Figure 1.2). Elevations in the area range from to 2,763 feet above sea level in the town of Superior, while nearby Apache Leap Mountain reaches over 4,700 feet above sea level. Terrain east of the property is highly mountainous. Terrain to the west is less mountainous and becomes relatively flat approximately 10 miles west of Superior and into Phoenix.

The purpose of the monitoring program is to provide the measurements necessary to establish existing meteorological conditions at the proposed site of the Resolution Mine in support of a future air quality permit application for the facility. The monitoring program, including instrument audits, calibrations, maintenance and data processing, is being conducted by Applied Environmental Consultants (AEC). A full complement of meteorological monitoring comprised of measurements of wind speed, wind direction, differential temperature (delta-T), temperature, relative humidity, barometric pressure, solar radiation, evaporation, and precipitation, began at the West Met Site (KC2) on March 26, 2009. The East Met Site (KC1), which measures the same variables, began operation on April 17, 2009. This document summarizes the monitoring data collected during the third quarter of 2009 (July, August and September).

The ensuing sections of this report summarize the measurements made during the quarter. A description of the monitoring program is presented in Section 2. This is followed by a summary of the meteorological data presented in Section 3, data recovery statistics presented in Section 4, and quality assurance data presented in Section 5. Complete listings of the meteorological data, along with associated audit reports, are presented in the appendices.

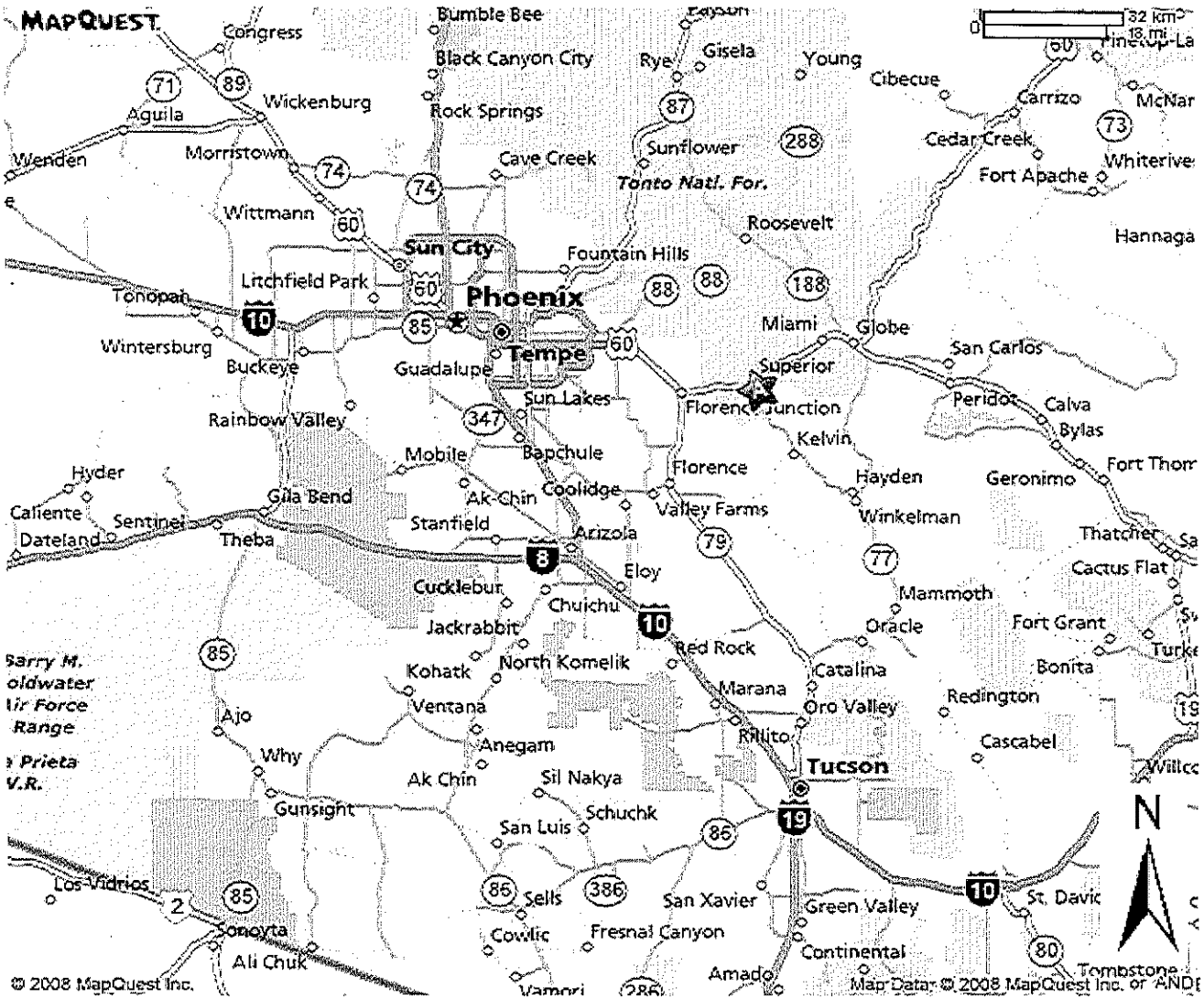


Figure 1.1 Map showing location of proposed Resolution Copper Mine (denoted by A) in Pinal County, Arizona.

Figure 1.2 Map showing locations of KC1 and KC2 monitoring sites.

2. MONITORING PROGRAM

Meteorological parameters being measured at the KC1 and KC2 monitoring stations include wind speed and wind direction at 10 meters, differential temperature between 2 and 10 meters, ambient temperature at 2 meters, relative humidity, barometric pressure, solar radiation, pan evaporation and precipitation. Measurements of sigma theta (standard deviation of the horizontal wind direction fluctuations) are also being made as a backup for stability data. Sigma theta data are not summarized in Section 3 below but are presented in Appendix A. A listing of the meteorological instruments is provided in Table 2.1. The instruments used at both monitoring sites are identical

All monitoring equipment, siting, operations and data processing conform to the criteria specified in the following EPA documents: *Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)*, EPA-450/4-87-007, 1987; *Meteorological Program Guidance for Regulatory Modeling Applications*, EPA-450/4-87-013, Revised February, 2000; and *Volume IV: Meteorological Measurements Versions 2.0,* EPA-454/B-08-002, March 2008.

Table 2.1 Listing of Meteorological Equipment at KC1 and KC2

Instrument Description	Parameter Measured
Campbell Scientific CR1000 Data Logger with Compact Flash Module and Enclosure	Data Acquisition and Storage
Met One 014A Wind Speed Sensor	Horizontal Wind Speed
Met One 024A Wind Direction Sensor	Wind Direction
RM Young 43347-L Differential Temperature Sensor with Radiation Shield	Differential Temperature
Campbell Scientific HMP50-L Relative Humidity Sensor	Relative Humidity and Temperature
Campbell Scientific CS100 Barometric Pressure Sensor	Barometric Pressure
Li-Cor LI-200X Silicon Pyranometer	Solar Radiation
NovaLynx 255-100 Evaporation Pan	Evaporation
Met One 970 Precipitation Gauge	Precipitation

3. METEOROLOGICAL DATA SUMMARIES

Meteorological measurements for each parameter, except humidity, were reduced to one-hour averages and are expressed as hour ending averages. The relative humidity data were collected at the end of each hour. Hourly listings for each of the measured parameters are presented in Appendix A. Data for monitoring sites KC1 and KC2 are presented in separate tables.

3.1 Wind Speed/Wind Direction

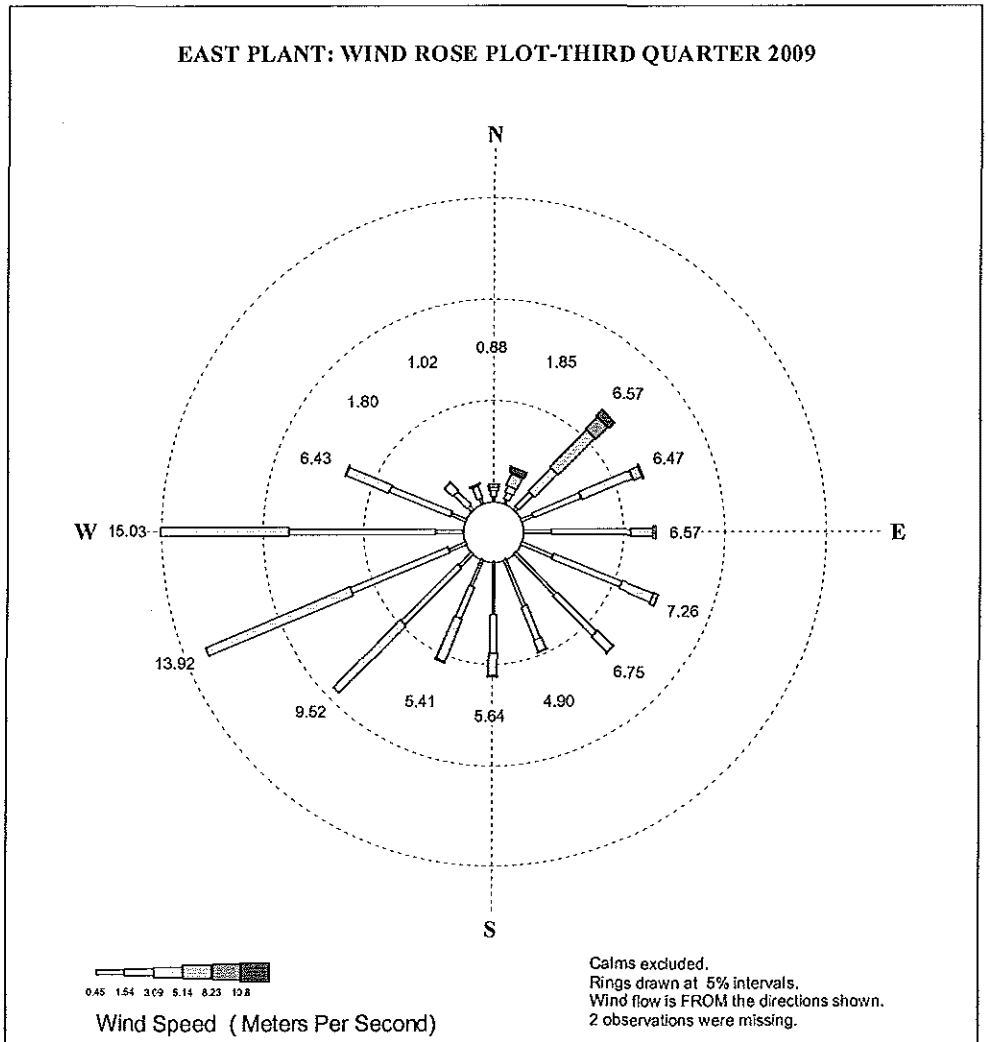
Wind speed statistics for the quarter are presented in Tables 3.1 and 3.2. Wind roses from each monitoring site for the quarter are presented in Figures 3.1 and 3.2.

Table 3.1 KC1: Monthly Wind Speed (m/s) Summary for the Third Quarter 2009

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	2.7	11.7	0.2
August	2.6	8.0	0.0
September	3.2	13.5	0.1

Table 3.2 KC2: Monthly Wind Speed (m/s) Summary for the Third Quarter 2009

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	3.0	12.9	0.1
August	2.9	10.7	0.2
September	3.5	14.0	0.1



PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
N	0.28	0.28	0.18	0.14	0.00	0.00
NNE	0.23	0.32	0.32	0.65	0.05	0.28
NE	0.18	0.97	1.62	2.54	0.83	0.42
ENE	0.65	2.54	2.73	0.46	0.09	0.00
E	1.43	3.88	1.11	0.14	0.00	0.00
ESE	1.71	3.65	1.66	0.23	0.00	0.00
SE	2.87	2.77	1.06	0.05	0.00	0.00
SSE	2.50	1.76	0.60	0.05	0.00	0.00

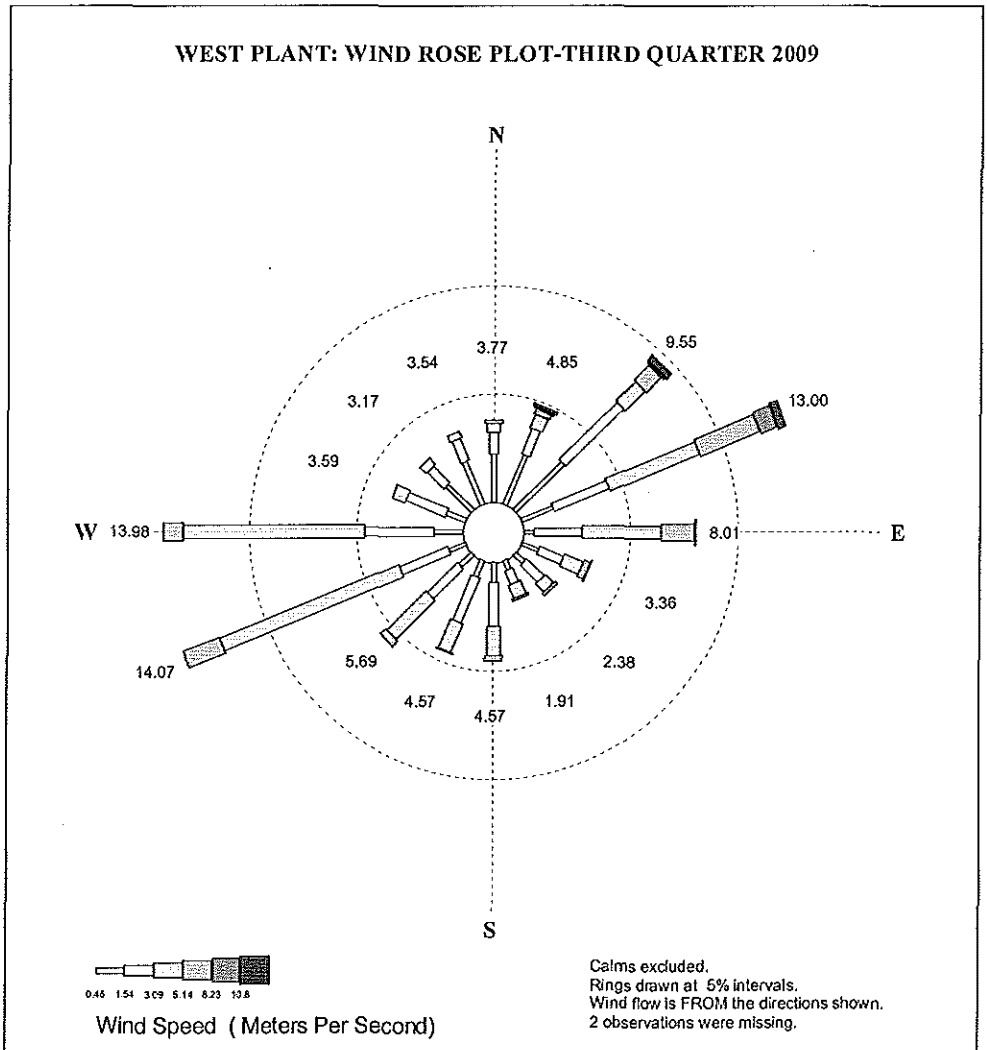
TOTAL OBS = 2206 MISSING OBS = 2

PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
S	2.64	1.85	1.11	0.05	0.00	0.00
SSW	1.43	1.66	2.27	0.05	0.00	0.00
SW	0.92	3.93	4.67	0.00	0.00	0.00
WSW	0.92	5.22	7.77	0.00	0.00	0.00
W	1.43	7.26	6.33	0.00	0.00	0.00
WNW	0.79	3.28	2.31	0.05	0.00	0.00
NW	0.28	0.92	0.60	0.00	0.00	0.00
NNW	0.32	0.60	0.05	0.05	0.00	0.00

CALM OBS = 43

Figure 3.1 Wind rose for the KC1 (East Plant) monitoring site for the Third Quarter 2009.



PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
N	2.24	0.98	0.42	0.14	0.00	0.00
NNE	2.47	1.26	0.65	0.23	0.09	0.14
NE	3.12	3.73	1.30	0.98	0.09	0.33
ENE	1.58	2.75	4.47	2.98	0.84	0.37
E	0.47	2.28	3.63	1.58	0.00	0.05
ESE	0.84	1.21	0.93	0.33	0.05	0.00
SE	0.56	1.12	0.56	0.14	0.00	0.00
SSE	0.47	0.70	0.65	0.09	0.00	0.00

TOTAL OBS = 2206 MISSING OBS = 2

PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
S	0.93	2.00	1.40	0.23	0.00	0.00
SSW	0.84	2.24	1.44	0.05	0.00	0.00
SW	0.79	1.96	2.56	0.37	0.00	0.00
WSW	0.84	2.42	9.04	1.77	0.00	0.00
W	1.40	3.22	8.43	0.93	0.00	0.00
WNW	0.98	1.96	0.65	0.00	0.00	0.00
NW	1.68	1.07	0.42	0.00	0.00	0.00
NNW	2.14	1.07	0.33	0.00	0.00	0.00

CALM OBS = 60

Figure 3.2 Wind rose for the KC2 (West Plant) monitoring site for the Third Quarter 2009.

3.2 *Differential Temperature*

The differential temperatures were calculated based on the 10 meter sensor reading minus the 2-meter sensor reading. The differential temperature statistics for the quarter are presented in Tables 3.3 and 3.4.

Table 3.3 KC1: Monthly Differential Temperature Summary for the Third Quarter 2009

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
July	-0.128	0.006	0.074	0.119	0.183	0.211
August	-0.125	0.029	0.111	0.175	0.223	0.253
September	0.071	0.136	0.266	0.307	0.350	0.301
	1	2	3	4	5	6
July	0.196	0.219	0.223	0.285	0.266	0.286
August	0.306	0.384	0.417	0.374	0.377	0.416
September	0.318	0.355	0.310	0.316	0.340	0.320
	Daytime Hours					
Month	7	8	9	10	11	12
July	0.013	-0.329	-0.605	-0.762	-0.890	-0.992
August	0.165	-0.387	-0.655	-0.828	-0.929	-1.069
September	0.220	-0.282	-0.630	-0.798	-0.921	-1.034
	13	14	15	16	17	18
July	-1.006	-1.055	-0.998	-0.856	-0.658	-0.453
August	-1.090	-1.094	-0.980	-0.792	-0.643	-0.419
September	-1.054	-1.115	-0.965	-0.786	-0.529	-0.198

[a] Differential temperatures based on 10-meter temperature minus 2-meter temperature.

Table 3.4 KC2: Monthly Differential Temperature Summary for the Third Quarter 2009

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
July	-0.364	-0.065	0.073	0.226	0.331	0.336
August	-0.254	0.041	0.206	0.371	0.403	0.488
September	-0.037	0.200	0.375	0.382	0.462	0.516
	1	2	3	4	5	6
July	0.291	0.363	0.447	0.453	0.492	0.406
August	0.557	0.605	0.555	0.528	0.609	0.519
September	0.438	0.398	0.393	0.434	0.374	0.363
	Daytime Hours					
Month	7	8	9	10	11	12
July	0.121	-0.343	-0.617	-0.830	-1.026	-1.147
August	0.333	-0.356	-0.641	-0.886	-1.019	-1.203
September	0.296	-0.158	-0.581	-0.834	-1.041	-1.168
	13	14	15	16	17	18
July	-1.212	-1.233	-1.251	-1.120	-0.910	-0.706
August	-1.260	-1.251	-1.190	-1.086	-0.851	-0.589
September	-1.218	-1.166	-1.112	-0.989	-0.758	-0.386

[a] Differential temperatures based on 10-meter temperature minus 2-meter temperature.

3.3 Temperature

Ambient 2-meter temperature statistics for the quarter from both sites are presented in Tables 3.5 and 3.6.

Table 3.5 KC1: Monthly Temperature (°C) Summary for the Third Quarter 2009

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	28.4	31.8	24.9	37.1	18.1
August	27.7	31.3	22.1	35.7	18.2
September	24.1	27.1	19.8	32.7	15.2

Table 3.6 KC2: Monthly Temperature (°C) Summary for the Third Quarter 2009

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	31.9	34.8	28.7	40.4	22.6
August	31.2	34.5	25.5	39.3	21.7
September	28.1	30.7	24.3	36.4	19.8

3.4 *Relative Humidity*

Relative humidity statistics for the quarter are presented in Tables 3.7 and 3.8.

Table 3.7 KC1: Monthly Relative Humidity (%) Summary for the Third Quarter 2009

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	43.2	35.5	23.3	34.9
August	36.2	27.5	22.0	27.5
September	42.4	34.5	25.2	35.2
Quarter	Max: 92.0		Min: 7.5	

Table 3.8 KC2: Monthly Relative Humidity (%) Summary for the Third Quarter 2009

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	38.0	29.3	19.2	30.0
August	30.7	24.0	17.6	23.6
September	33.1	28.5	20.4	28.5
Quarter	Max: 91.7		Min: 6.5	

3.5 *Barometric Pressure*

Barometric pressure statistics for the quarter are presented in Tables 3.9 and 3.10.

Table 3.9 KC1: Monthly Barometric Pressure (in Hg) Summary for the Third Quarter 2009

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	25.81	25.86	25.78	25.81
August	25.81	25.86	25.78	25.80
September	25.80	25.84	25.76	25.80
Quarter	Max: 25.95		Min: 25.65	

Table 3.10 KC2: Monthly Barometric Pressure (in Hg) Summary for the Third Quarter 2009

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	26.93	26.98	26.90	26.92
August	26.94	26.99	26.90	26.92
September	26.93	26.98	26.89	26.92
Quarter	Max: 27.10		Min: 26.76	

3.6 Solar Radiation

Solar radiation statistics for the quarter are presented in Tables 3.11 and 3.12

Table 3.11 KC1: Monthly Solar Radiation (watts/m^2) Summary for the Third Quarter 2009

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	440.7	502.3	297.2	919.0	0.8
August	419.1	488.7	100.8	932.0	0.0
September	420.2	476.4	230.5	838.0	1.7

Note: All statistics based on daylight hours.

Table 3.12 KC2: Monthly Solar Radiation (watts/m^2) Summary for the Third Quarter 2009

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	420.1	480.4	279.6	932.0	0.9
August	408.5	462.0	93.1	955.0	0.0
September	432.9	489.6	209.3	884.0	1.9

Note: All statistics based on daylight hours.

3.7 *Pan Evaporation*

Evaporation statistics for the quarter are presented in Tables 3.13 and 3.14.

Table 3.13 KC1: Monthly Evaporation (inches) Summary for the Third Quarter 2009

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
July	0.560	0.159	0.373	11.557
August	2.475	0.231	0.646	20.034
September	1.378	0.111	0.337	10.113

Table 3.14 KC2: Monthly Evaporation (inches) Summary for the Third Quarter 2009

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
July	0.676	0.263	0.522	16.169
August	0.717	0.149	0.501	15.537
September	0.790	0.146	0.445	13.354

3.8 Precipitation

Precipitation events for the quarter are summarized in Tables 3.15 and 3.16. Precipitation at site KC1 was 1.38 inch in July, 0.19 inch in August and 0.99 inch in September. Precipitation at site KC2 was 0.63 inch in July, 0.12 inch in August and 0.23 inch in September.

Table 3.15 KC1: Monthly Precipitation (inch) Summary for the Third Quarter 2009

Month	Day	Precipitation (in)	Duration (hours)
July	1	0.37	6
	2	0.04	4
	17	0.03	2
	18	0.21	1
	20	0.10	3
	21	0.05	3
	23	0.23	3
	24	0.06	1
	25	0.29	2
	Monthly Total	1.38	25
August	13	0.01	1
	21	0.13	2
	25	0.04	1
	31	0.01	1
	Monthly Total	0.19	5
September	1	0.01	1
	3	0.25	6
	5	0.09	5
	8	0.31	1
	11	0.03	1
	13	0.16	1
	19	0.14	1
	Monthly Total	0.99	16
Quarter	**Total**	**2.56**	**46**

Table 3.16 KC2: Monthly Precipitation (inch) Summary for the Third Quarter 2009

Month	Day	Precipitation (in)	Duration (hours)
July	1	0.03	1
	2	0.02	2
	18	0.17	1
	20	0.01	1
	21	0.08	2
	23	0.08	2
	24	0.02	1
	25	0.22	1
	Monthly Total	0.63	11
August	21	0.12	4
	Monthly Total	0.12	4
September	3	0.13	3
	5	0.10	3
	Monthly Total	0.23	6
Quarter	**Total**	**0.98**	**21**

4. DATA RECOVERY

Data recovery statistics for the quarter are summarized for each site in Tables 4.1 and 4.2. Missing meteorological data on September 28 and 29 were due to instrument audits. The evaporation data were invalidated due to the precipitation and pan refills.

Table 4.1 Monitoring Site KC1 Data Completeness for the Third Quarter 2009

Parameters	July	August	September	Quarter
Wind Speed	100%	100%	99.7%	99.9%
Wind Direction	100%	100%	99.7%	99.9%
2-meter Temperature	100%	100%	99.7%	99.9%
10-meter Temperature	100%	100%	99.7%	99.9%
Temperature	100%	100%	99.7%	99.9%
Relative Humidity	100%	100%	99.7%	99.9%
Barometric Pressure	100%	100%	99.7%	99.9%
Solar Radiation	100%	100%	100%	100%
Evaporation	98.5%	98.0%	97.4%	98.0%
Precipitation	100%	100%	99.7%	99.9%

Table 4.2 Monitoring Site KC2 Data Completeness for the Third Quarter 2009

Parameters	July	August	September	Quarter
Wind Speed	100%	100%	99.7%	99.9%
Wind Direction	100%	100%	99.7%	99.9%
2-meter Temperature	100%	100%	99.7%	99.9%
10-meter Temperature	100%	100%	99.7%	99.9%
Temperature	100%	100%	99.7%	99.9%
Relative Humidity	100%	100%	99.7%	99.9%
Barometric Pressure	100%	100%	99.7%	99.9%
Solar Radiation	100%	100%	99.9%	100%
Evaporation	96.6%	97.6%	95.8%	96.7%
Precipitation	100%	100%	99.7%	99.9%

5. QUALITY ASSURANCE

Routine quality assurance (QA) procedures were employed to check the meteorological data collected during the quarter.

5.1 Meteorological Measurements

Quality assurance procedures utilized to verify the integrity of the measured meteorological data include the following:

- review of the data to evaluate values and changes from one hour to the next
- performance audits of the field sensors conducted twice per year

5.1.1 Review of Data

The individual meteorological observations were screened according to the criteria listed in Table 5.1. Any data outside of the quality control limits were investigated by the Project Manager and the QA Officer for possible invalidation. The final validity determination was made after comparing the suspect data with other pertinent data to determine whether the data were invalid or whether an unusual meteorological event occurred. No data were invalidated during the quarter based on these screening procedures.

5.1.2 Audit of Field Sensors

Performance audits of the meteorological sensors of the KC1 and KC2 monitoring sites were conducted on September 29 and 28, 2009, respectively. Performance audits were performed to determine if the instruments were operating within acceptable limits. The audit consisted of physical challenges of the field sensors and comparison of the sensor responses to known values. Results of the audits are summarized in Table 5.2 for site KC1 and Table 5.3 for site KC2. A complete meteorological audit report is presented in Appendix B.

Table 5.1 Meteorological Data Screening Criteria

Meteorological Variable	Screening Criteria
	Flag the data if the value:
Temperature (ambient and 2-meter and 10-meter differential temperature readings)	- is less than avg. monthly low or greater than avg. monthly high - is greater than a 5 °C change from the previous hour - does not vary by more than 1 °C for 12 consecutive hours
Differential Temperature	- is less than -0.1 °C/m during nighttime - is greater than 0.1 °C/m during daytime - is less than -3 °C or greater than 5 °C
Wind Speed	- is less than zero or greater than 5 m/s - does not vary by more than 0.1 m/s for 3 consecutive hours - does not vary by more than 0.5 m/s for 12 consecutive hours
Wind Direction	- is less than 0° or greater than 360° - does not vary by more than 1° for 3 consecutive hours - does not vary by more than 10° for 18 consecutive hours
Sigma Theta	- is less than 0° or greater than 90°
Precipitation	- is greater than 1 inch in one hour - is greater than 3 inches in 24 hours
Relative Humidity	- is less than 0% or greater than 100% - does not vary by more than 5% for 18 consecutive hours - normal diurnal patterns exist
Barometric Pressure	- is greater than 25.5 in Hg (based on elevation of site) - is less than 23.5 in Hg (based on elevation of site) - changes by more than 0.2 in Hg in three hours
Solar Radiation	- is greater than zero at night - is greater than the maximum possible for date and latitude - normal diurnal patterns exist
Evaporation	- is greater than 0.5 inches per day - monthly total exceeds monthly average for area

Table 5.2 KC1 Monitoring Site: Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.2 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	0.96 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 6.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.0°	Pass
	Sensor = 1.30°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.01 °C	Pass
Relative Humidity	Mean Dew Point Error = -1.5 °C	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.01 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.43 %	Pass
Evaporation	Mean Absolute Percent Error = -2.50 %	Pass
Precipitation	Mean Absolute Percent Error = 1.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

Table 5.3 KC2 Monitoring Site: Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	0.97 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 6.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.8°	Pass
	Sensor = 0.8°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.01 °C	Pass
Relative Humidity	Mean Dew Point Error = -1.4 °C	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.01 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 1.41 %	Pass
Evaporation	Mean Absolute Percent Error = 3.00 %	Pass
Precipitation	Mean Absolute Percent Error = 5.00 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

APPENDIX A

METEOROLOGICAL DATA

METEOROLOGICAL MEASUREMENTS

KC1 SITE

APPENDIX KC1-A: HOURLY WIND SPEED/DIRECTION DATA
APPENDIX KC1-B: HOURLY SIGMA THETA DATA
APPENDIX KC1-C: HOURLY DIFFERENTIAL TEMPERATURE DATA
APPENDIX KC1-D: HOURLY TEMPERATURE DATA
APPENDIX KC1-E: HOURLY RELATIVE HUMIDITY
APPENDIX KC1-F: HOURLY BAROMETRIC PRESSURE DATA
APPENDIX KC1-G: HOURLY SOLAR RADIATION DATA
APPENDIX KC1-H: HOURLY EVAPORATION DATA
APPENDIX KC1-I: HOURLY PRECIPITATION DATA

APPENDIX KC1-A

HOURLY WIND SPEED/DIRECTION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	2.7	2.4	2.5	4.3	6.3	4.4	3.0	1.5	1.7	2.2	2.9	3.2	2.9	2.3	3.1	2.5	2.9	2.2	3.1	2.7	4.2	2.6	2.2	2.0	6.3	1.5	2.9
07/02/09	2.7	0.8	0.9	1.5	1.9	2.6	2.3	2.4	2.0	3.0	4.3	3.5	3.3	2.2	2.4	2.8	3.0	3.2	2.8	2.5	2.1	1.8	2.2	2.5	4.3	0.8	2.4
07/03/09	2.6	2.1	1.9	1.6	1.4	1.9	1.7	2.3	3.0	2.4	2.3	2.0	2.5	2.3	3.0	3.2	3.5	5.8	11.7	7.1	4.2	3.8	3.1	2.1	11.7	1.4	3.2
07/04/09	2.1	0.9	1.2	0.9	0.6	1.1	1.3	2.3	3.1	3.3	3.7	3.9	4.0	3.7	4.2	3.8	3.6	3.3	2.7	2.2	2.2	1.9	1.9	1.4	4.2	0.6	2.5
07/05/09	0.8	0.7	1.2	0.9	0.8	0.2	0.6	1.1	2.3	3.0	3.3	3.6	3.6	3.3	3.8	4.3	3.7	3.7	3.7	3.8	3.3	1.6	0.7	1.0	4.3	0.2	2.3
07/06/09	1.7	1.2	0.8	0.7	1.6	0.9	1.0	1.5	2.2	2.9	2.9	3.4	3.1	3.7	3.6	3.6	3.8	3.6	3.1	4.0	2.8	1.9	1.8	1.3	4.0	0.7	2.4
07/07/09	2.2	2.4	2.1	3.2	2.8	1.6	1.4	1.6	2.2	2.7	2.5	2.8	3.0	3.7	3.7	3.9	4.5	3.1	4.2	2.2	1.7	2.3	4.1	4.6	4.6	1.4	2.8
07/08/09	3.3	2.4	2.5	1.0	1.7	2.2	2.3	1.6	2.7	2.8	3.2	3.1	3.0	3.2	3.2	3.4	3.3	3.4	2.8	1.6	3.9	7.4	4.2	2.2	7.4	1.0	2.9
07/09/09	1.3	1.4	1.6	0.6	0.9	0.4	0.2	2.0	1.6	2.2	2.0	2.9	3.0	3.5	3.2	3.6	3.2	3.2	2.9	2.2	1.0	0.6	0.6	1.5	3.6	0.2	1.9
07/10/09	1.3	0.7	1.1	1.3	0.7	0.8	1.4	2.0	2.8	3.2	3.2	2.8	2.8	3.1	3.4	3.5	3.2	3.1	2.5	2.2	2.7	2.4	2.3	1.2	3.5	0.7	2.2
07/11/09	1.5	1.6	1.7	2.2	3.3	2.5	1.5	2.2	1.9	2.2	2.0	2.9	2.9	3.2	3.7	2.8	3.7	2.7	2.1	2.0	2.1	2.0	2.7	1.8	3.7	1.5	2.4
07/12/09	2.2	3.1	2.5	1.0	1.2	2.0	2.8	1.5	1.7	2.5	3.0	3.4	3.4	3.8	3.1	3.6	3.9	3.2	2.9	2.6	2.5	2.4	2.7	2.9	3.9	1.0	2.7
07/13/09	2.8	2.5	2.0	1.1	1.0	0.7	0.2	1.2	2.5	3.4	3.6	3.6	3.3	3.1	3.7	3.8	3.5	3.4	3.3	2.3	2.6	2.5	2.5	1.6	3.8	0.2	2.5
07/14/09	0.5	1.0	0.6	1.5	0.9	0.3	0.4	1.4	2.9	2.9	3.0	3.4	3.6	4.0	4.0	4.3	3.9	3.4	3.5	2.9	3.1	1.6	2.0	3.4	4.3	0.3	2.5
07/15/09	2.9	0.6	0.9	0.7	2.2	3.7	3.5	1.9	2.1	2.3	3.4	3.1	3.4	3.2	3.1	2.8	3.2	3.3	5.7	7.1	6.9	7.7	7.5	3.9	7.7	0.6	3.5
07/16/09	1.7	1.6	0.9	0.5	0.9	0.9	0.6	0.9	2.1	2.8	3.1	4.0	4.0	3.9	4.0	3.6	3.8	3.7	4.0	8.3	7.0	2.7	1.3	1.1	8.3	0.5	2.8
07/17/09	2.6	0.9	1.5	1.3	0.5	0.7	2.4	3.0	3.7	2.1	2.2	3.0	3.2	2.8	3.4	3.7	6.5	5.7	4.3	6.4	3.3	1.8	1.5	1.9	6.5	0.5	2.9
07/18/09	1.8	2.3	2.5	2.5	1.8	1.9	2.2	3.8	3.7	2.9	3.9	3.2	3.9	3.2	3.3	3.5	2.6	2.6	6.0	2.6	5.2	2.8	2.5	2.8	6.0	1.8	3.1
07/19/09	2.4	2.3	1.2	1.2	1.5	1.7	1.9	2.8	4.0	3.1	3.2	3.5	2.9	2.9	3.4	3.7	3.4	3.1	2.6	4.0	2.9	2.8	2.4	3.3	4.0	1.2	2.8
07/20/09	3.3	4.1	2.9	5.9	3.9	2.5	1.6	1.6	1.3	2.7	3.4	3.2	3.9	3.6	4.1	4.7	4.5	3.8	5.5	6.0	3.6	2.6	2.0	1.3	6.0	1.3	3.4
07/21/09	1.5	1.3	2.1	2.1	0.9	1.3	2.6	2.4	2.1	2.9	2.4	1.4	3.5	2.9	3.8	3.2	3.1	2.8	2.2	2.9	2.6	3.1	1.5	1.1	3.8	0.9	2.3
07/22/09	3.9	3.0	1.2	1.3	1.7	1.6	0.9	1.4	1.8	2.2	2.6	2.4	3.7	3.3	3.5	3.9	8.9	9.7	5.9	5.5	3.4	4.8	3.7	3.0	9.7	0.9	3.5
07/23/09	3.3	2.9	2.0	1.9	2.0	2.8	2.5	2.7	3.7	3.7	3.3	3.7	3.3	3.9	3.6	2.9	3.0	3.0	3.1	2.8	2.5	3.7	4.4	4.3	4.4	1.9	3.1
07/24/09	2.8	2.3	2.1	2.2	2.2	1.5	0.9	0.8	1.3	1.8	3.0	2.4	3.0	3.3	3.4	3.2	2.5	2.5	1.9	1.6	1.0	0.6	0.8	1.0	3.4	0.6	2.0
07/25/09	0.6	0.7	0.3	1.5	0.9	1.2	1.8	2.5	2.1	2.1	3.4	4.7	5.5	1.9	1.5	2.6	2.4	4.0	2.6	2.4	0.6	1.3	1.8	1.4	5.5	0.3	2.1
07/26/09	1.5	1.0	1.0	2.6	2.0	1.1	0.2	1.0	3.1	3.8	3.7	3.4	3.5	3.7	3.7	3.6	3.6	3.6	2.8	2.1	2.3	2.3	2.2	2.1	3.8	0.2	2.5
07/27/09	2.9	2.9	3.0	2.7	2.7	2.5	2.5	1.8	2.8	2.9	3.4	3.5	3.7	3.6	3.9	3.8	3.5	3.7	2.4	2.1	2.3	2.7	2.4	2.7	3.9	1.8	2.9
07/28/09	2.5	3.8	3.5	1.9	2.0	1.6	0.4	1.4	2.3	2.5	3.2	3.2	3.5	4.1	4.8	4.8	4.3	4.3	4.6	4.7	3.3	3.7	1.8	2.2	4.8	0.4	3.1
07/29/09	2.0	2.7	2.9	2.5	3.1	1.7	1.8	2.2	2.4	2.6	3.6	4.1	3.8	3.8	3.7	4.2	5.4	4.2	3.8	4.4	4.4	4.6	2.7	1.9	5.4	1.7	3.3
07/30/09	3.7	3.7	3.3	4.1	3.8	1.6	1.9	2.5	2.9	2.8	3.3	3.4	3.1	3.7	4.0	3.5	3.5	3.0	3.1	2.6	1.2	1.2	1.0	0.5	4.1	0.5	2.8
07/31/09	0.7	1.7	2.0	2.1	1.9	0.7	0.5	1.3	1.9	3.1	2.8	3.0	2.9	3.2	3.4	3.2	2.9	3.6	3.5	3.4	2.1	1.3	0.8	0.6	3.6	0.5	2.2
Hourly Averages																											
	2.2	2.0	1.8	1.9	1.9	1.6	1.6	1.9	2.4	2.7	3.1	3.2	3.4	3.3	3.5	3.5	3.8	3.7	3.7	3.5	3.0	2.7	2.4	2.1			

Maximum Hourly Wind Speed: 11.7 **Minimum Hourly Wind Speed:** 0.2 **Average Monthly Wind Speed:** 2.7

Maximum 24-Hour Mean: 3.5 **Minimum 24-Hour Mean:** 1.9

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
07/01/09	211	224	203	103	106	73	78	224	165	78	53	31	295	291	277	265	296	279	246	123	103	259	360	140
07/02/09	236	88	122	153	128	108	109	110	125	58	51	52	57	43	343	303	251	263	252	223	81	93	95	115
07/03/09	72	73	78	90	113	100	84	94	131	139	104	107	276	202	224	269	264	2	41	42	104	128	105	135
07/04/09	126	351	86	118	175	219	306	285	260	249	256	253	266	257	247	256	237	242	253	241	278	281	263	269
07/05/09	210	244	254	204	199	132	99	74	272	267	249	235	246	251	239	225	245	289	297	305	289	301	74	297
07/06/09	295	300	329	171	202	72	108	89	137	224	255	259	280	262	225	296	274	267	167	308	301	293	285	266
07/07/09	255	218	206	248	219	216	210	247	250	259	275	254	235	270	242	262	275	312	298	141	234	216	205	215
07/08/09	219	224	220	259	232	265	273	252	267	248	251	280	275	265	284	232	240	253	290	223	159	125	88	80
07/09/09	157	216	131	64	185	134	113	107	291	52	116	208	217	267	248	263	255	260	272	307	273	194	203	179
07/10/09	110	157	172	181	124	125	121	74	118	124	122	130	313	278	254	240	241	248	255	256	285	234	259	351
07/11/09	137	133	111	124	113	125	275	189	95	99	265	256	141	151	173	205	272	295	232	256	269	283	331	325
07/12/09	299	277	268	166	188	251	279	262	327	281	264	254	245	266	252	235	241	233	129	141	295	292	259	269
07/13/09	274	266	275	279	281	50	93	266	274	271	268	254	267	270	228	280	236	239	259	243	283	266	239	267
07/14/09	266	262	147	254	125	192	97	346	248	282	275	243	269	219	257	228	262	255	288	281	293	289	277	240
07/15/09	230	209	196	205	227	209	220	232	296	255	259	258	237	228	278	259	272	267	360	33	35	14	26	78
07/16/09	134	137	85	268	140	190	154	143	206	259	250	245	247	250	255	258	250	243	224	34	30	262	91	125
07/17/09	194	108	63	93	133	105	118	102	113	105	41	261	252	256	269	231	64	347	128	180	65	98	78	92
07/18/09	123	107	103	110	128	94	98	71	64	52	47	57	130	151	140	152	179	120	36	296	165	123	25	111
07/19/09	115	90	87	168	121	116	116	80	53	120	132	146	209	260	280	231	225	236	237	221	265	181	95	51
07/20/09	78	67	82	47	88	149	151	150	97	255	252	257	257	268	275	296	284	291	9	17	348	331	264	146
07/21/09	83	132	237	274	260	216	273	261	188	118	126	194	268	273	269	255	264	238	220	275	283	2	113	184
07/22/09	257	269	99	180	184	186	156	265	288	128	291	308	227	276	231	321	21	36	69	105	97	66	79	103
07/23/09	75	69	98	98	99	118	72	73	52	104	128	144	149	187	235	263	258	258	266	224	250	128	97	62
07/24/09	130	127	104	109	109	116	183	125	70	273	235	256	265	253	253	254	246	250	195	275	6	175	152	151
07/25/09	176	161	141	241	141	84	71	110	114	273	237	293	28	123	133	57	90	286	279	256	27	183	248	132
07/26/09	245	161	268	261	261	271	209	261	266	266	261	245	245	238	231	237	267	243	246	280	285	279	272	279
07/27/09	279	277	277	278	266	265	270	282	263	262	270	251	265	243	242	258	234	277	231	274	306	307	291	272
07/28/09	283	305	292	285	285	276	197	239	252	258	240	221	230	234	221	208	192	248	299	295	306	299	276	176
07/29/09	179	230	227	221	221	223	241	230	245	211	229	194	220	266	223	207	212	189	172	208	208	197	292	246
07/30/09	225	225	224	225	233	188	222	240	185	221	200	256	231	237	222	244	249	245	277	306	116	203	193	220
07/31/09	217	267	291	266	245	25	125	78	312	276	266	249	259	249	231	273	251	293	290	297	290	329	140	148
Hourly Averages																								
	190	193	177	185	178	158	165	179	194	196	202	214	229	235	241	244	231	242	220	215	204	207	186	185

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	1.1	1.1	1.9	1.0	0.9	1.8	1.4	1.5	3.5	4.0	3.4	3.6	3.7	3.4	3.8	3.5	3.3	3.7	3.3	3.2	3.5	3.3	4.1	3.5	4.1	0.9	2.8
08/02/09	3.2	2.4	1.4	1.1	1.4	1.1	1.2	1.3	2.1	1.8	1.9	2.5	2.8	3.4	3.4	3.7	4.0	3.7	3.3	3.1	3.1	2.5	2.1	1.7	4.0	1.1	2.4
08/03/09	0.8	1.0	1.4	0.8	0.5	0.8	1.2	1.5	1.8	1.6	2.5	3.1	3.2	3.4	3.8	3.7	3.7	3.0	3.0	3.2	3.9	3.3	3.1	2.5	3.9	0.5	2.4
08/04/09	2.9	3.1	3.3	2.3	2.3	2.1	1.8	2.3	3.2	3.1	3.9	3.7	3.6	4.2	3.7	3.7	3.4	3.6	3.1	3.2	3.4	5.6	4.6	5.0	5.6	1.8	3.4
08/05/09	2.8	2.1	1.2	1.1	2.8	2.5	0.7	0.7	1.9	2.7	3.0	3.2	3.3	3.4	3.2	3.7	4.1	3.1	2.0	3.2	3.7	3.7	2.2	1.6	4.1	0.7	2.6
08/06/09	1.9	5.4	6.9	5.8	5.6	3.0	2.6	3.1	3.3	3.5	2.9	3.4	4.0	4.1	4.3	3.8	4.0	3.8	3.7	2.9	2.6	3.1	1.2	1.3	6.9	1.2	3.6
08/07/09	1.0	0.6	1.9	2.1	2.1	2.1	2.2	3.3	3.1	3.7	4.5	4.8	4.1	4.0	4.4	4.4	3.6	3.5	3.1	2.1	2.4	1.8	0.9	0.8	4.8	0.6	2.8
08/08/09	0.5	0.5	0.4	0.3	0.8	0.8	0.9	1.3	1.8	3.5	3.6	3.8	3.5	4.2	3.5	3.9	3.7	3.2	2.8	1.5	0.4	1.2	1.2	1.4	4.2	0.3	2.0
08/09/09	1.3	0.8	0.8	0.5	0.7	0.1	0.0	0.7	2.3	2.2	3.2	3.3	3.2	3.3	3.9	3.6	2.8	2.8	2.5	1.9	0.8	0.8	1.5	1.6	3.9	0.0	1.9
08/10/09	1.5	1.1	0.1	2.1	1.0	0.6	0.6	0.7	2.0	2.5	2.8	2.8	2.7	3.0	3.5	3.1	3.8	3.2	3.0	3.3	3.2	2.7	2.2	2.4	3.8	0.1	2.2
08/11/09	2.5	2.1	2.0	2.1	1.7	0.7	0.4	1.3	2.6	2.5	3.2	3.3	3.7	4.0	4.4	4.0	4.1	3.3	3.7	3.9	2.3	0.2	0.5	0.5	4.4	0.2	2.5
08/12/09	0.7	0.8	0.4	0.5	1.0	0.4	0.9	0.7	2.5	3.3	3.0	3.4	3.3	3.7	4.0	3.5	5.8	7.8	8.0	6.1	3.0	2.3	2.4	2.9	8.0	0.4	2.9
08/13/09	1.4	0.7	2.9	2.7	1.6	3.7	2.3	2.4	2.5	3.4	3.9	3.5	3.6	2.2	3.5	2.7	2.2	2.5	2.0	2.3	2.2	1.4	1.6	1.6	3.9	0.7	2.4
08/14/09	1.4	1.3	0.9	1.0	1.6	1.2	0.6	1.7	2.1	1.9	2.2	2.9	3.3	3.1	3.3	3.3	3.4	3.5	2.4	2.2	0.9	0.3	0.6	1.9	3.5	0.3	2.0
08/15/09	1.7	0.6	0.9	1.6	2.1	2.0	1.7	2.1	3.3	2.9	2.9	3.4	4.5	4.0	4.4	4.4	3.6	3.0	2.8	2.1	1.6	0.5	1.4	0.1	4.5	0.1	2.4
08/16/09	1.0	0.8	0.2	0.8	1.1	0.6	0.3	0.8	2.6	3.3	3.0	4.0	3.7	3.3	3.6	3.1	3.2	3.4	2.3	2.0	0.7	1.5	1.4	1.6	4.0	0.2	2.0
08/17/09	1.2	0.6	0.9	2.4	0.7	1.7	1.8	1.3	2.5	2.2	2.2	2.7	3.2	3.3	3.2	3.7	3.3	3.2	2.4	2.3	1.3	1.2	1.3	1.0	3.7	0.6	2.1
08/18/09	1.4	2.2	1.4	1.2	0.8	0.1	0.6	0.7	2.4	3.3	3.0	2.8	3.3	3.2	3.3	3.4	3.9	3.8	3.8	2.9	2.7	3.6	3.0	2.6	3.9	0.1	2.5
08/19/09	1.6	2.6	2.9	2.6	2.5	1.7	1.6	2.0	2.6	2.7	2.8	3.1	3.5	3.4	3.8	3.5	3.9	3.2	3.5	3.8	3.8	3.5	3.9	2.9	3.9	1.6	3.0
08/20/09	2.0	2.7	3.6	4.4	3.4	3.5	3.1	2.2	2.8	3.3	3.2	3.5	3.7	4.1	4.0	3.9	3.9	3.5	3.7	3.6	3.8	3.6	3.0	3.1	4.4	2.0	3.4
08/21/09	4.1	2.6	2.3	1.6	1.1	0.1	0.4	1.1	2.2	3.0	2.9	2.8	3.1	3.1	3.5	4.4	3.1	3.2	3.3	1.2	3.5	3.0	1.7	1.7	4.4	0.1	2.4
08/22/09	3.0	1.8	1.0	1.8	1.9	1.8	1.6	2.5	4.1	4.0	4.7	3.9	4.4	2.5	1.9	2.5	2.5	2.2	2.3	2.5	1.2	1.3	0.9	1.5	4.7	0.9	2.4
08/23/09	1.4	1.2	1.3	1.2	1.2	1.6	1.8	3.2	3.4	2.8	2.0	2.4	3.1	3.8	3.8	3.5	3.5	3.1	2.4	2.5	2.1	2.3	1.4	1.5	3.8	1.2	2.3
08/24/09	1.0	2.0	1.6	1.8	2.1	1.9	1.8	3.0	3.8	3.0	2.1	3.0	2.9	2.8	3.1	3.6	2.5	2.5	2.7	1.7	1.7	3.5	2.0	1.7	3.8	1.0	2.4
08/25/09	1.5	0.8	0.4	0.9	1.3	1.7	2.0	3.2	2.6	2.2	2.4	3.1	2.1	2.8	3.7	3.3	4.0	3.9	3.3	3.6	2.0	2.1	1.8	1.2	4.0	0.4	2.3
08/26/09	1.5	1.4	1.7	2.5	2.6	2.0	2.6	3.6	3.8	2.7	3.4	4.0	2.8	2.7	3.0	3.2	3.1	2.8	2.8	2.5	2.8	2.8	2.1	4.0	4.0	1.4	2.8
08/27/09	2.6	2.2	0.9	0.4	1.4	1.7	1.6	2.2	2.7	3.3	2.4	2.9	3.0	3.8	3.9	3.7	3.6	3.2	3.3	2.9	3.2	4.5	4.0	3.7	4.5	0.4	2.8
08/28/09	3.4	1.8	3.2	4.2	3.9	4.0	3.9	4.5	5.3	6.2	5.6	5.3	4.6	4.0	2.7	2.2	3.4	4.8	1.8	1.2	1.1	1.3	1.4	1.7	6.2	1.1	3.4
08/29/09	3.1	1.3	1.1	1.0	1.3	1.8	2.2	3.1	3.4	4.4	4.0	3.9	3.5	2.8	2.9	2.9	3.2	2.9	2.6	2.2	1.6	1.1	1.1	1.2	4.4	1.0	2.4
08/30/09	0.7	1.0	1.4	1.2	1.6	1.5	0.5	0.9	1.7	2.2	2.9	2.7	2.9	3.3	3.5	3.3	3.4	3.0	3.9	4.6	3.3	1.8	1.5	2.5	4.6	0.5	2.3
08/31/09	2.2	2.1	1.5	1.6	1.7	2.0	2.7	4.3	4.7	4.6	4.3	3.6	2.9	3.3	3.0	2.4	2.8	2.6	2.4	4.7	2.6	2.8	2.5	1.5	4.7	1.5	2.9
Hourly Averages	1.8	1.6	1.7	1.8	1.8	1.6	1.5	2.0	2.9	3.1	3.2	3.4	3.4	3.4	3.5	3.5	3.5	3.4	3.1	2.9	2.4	2.3	2.0	2.0			

Maximum Hourly Wind Speed: 8.0 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 2.6

Maximum 24-Hour Mean: 3.6 **Minimum 24-Hour Mean:** 1.9

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
08/01/09	190	188	254	179	187	266	261	248	271	265	261	247	251	254	250	238	267	236	272	259	281	284	287	289
08/02/09	292	315	201	167	211	198	166	116	80	98	97	278	231	233	275	254	248	241	247	268	243	91	67	66
08/03/09	87	215	139	213	153	146	152	85	85	214	268	241	277	238	231	253	224	214	221	275	278	277	277	282
08/04/09	250	228	221	215	206	188	57	266	269	258	247	248	252	258	264	256	261	258	272	260	238	114	126	220
08/05/09	239	226	13	273	272	268	10	127	245	242	252	252	218	294	240	272	245	223	179	195	202	207	176	146
08/06/09	114	48	40	42	40	71	86	70	105	181	168	174	199	214	203	216	188	294	141	302	295	291	65	90
08/07/09	45	62	237	222	234	231	211	199	220	197	214	221	197	223	197	187	183	164	118	150	267	270	272	126
08/08/09	158	249	147	148	171	178	150	116	99	203	221	220	223	221	214	232	242	188	162	60	117	191	177	176
08/09/09	190	155	163	156	143	74	106	81	96	171	190	235	225	238	248	310	145	231	233	326	340	176	169	187
08/10/09	197	244	130	257	243	193	147	83	258	258	270	275	269	249	270	278	246	236	253	271	270	264	276	278
08/11/09	247	241	230	252	254	295	120	297	293	284	270	249	268	259	248	253	254	241	266	265	259	270	94	215
08/12/09	268	245	138	157	242	137	179	113	255	266	262	228	234	252	232	234	287	50	33	51	73	173	253	209
08/13/09	296	239	273	264	276	268	262	95	86	71	70	103	116	75	23	127	101	132	85	63	77	83	80	85
08/14/09	149	132	153	130	133	129	128	105	130	79	259	242	289	248	286	258	262	250	202	235	292	154	188	203
08/15/09	289	251	249	231	235	236	221	211	205	230	237	240	211	185	219	188	176	167	169	136	292	299	301	250
08/16/09	351	191	115	223	236	165	94	121	190	190	205	223	209	252	237	250	270	264	292	338	320	179	189	190
08/17/09	193	174	176	259	133	187	184	114	123	140	120	225	232	222	264	271	291	270	231	291	338	169	204	196
08/18/09	283	352	144	217	213	154	181	152	252	251	262	255	263	281	231	277	262	282	292	300	324	319	301	284
08/19/09	275	279	272	265	235	249	278	267	222	250	248	238	243	245	260	258	275	289	266	274	284	294	297	311
08/20/09	283	291	271	274	272	265	274	268	258	261	259	260	252	252	257	248	243	260	264	264	277	290	276	242
08/21/09	231	247	244	230	143	147	52	123	290	264	269	239	291	295	254	231	279	274	305	87	195	256	279	278
08/22/09	282	286	171	110	155	106	85	100	121	130	134	122	124	147	214	268	253	282	283	39	99	146	163	109
08/23/09	99	142	110	141	127	109	124	73	56	49	297	280	251	263	263	266	227	233	212	221	218	215	221	280
08/24/09	77	123	96	89	77	62	78	91	120	127	158	226	226	328	79	72	109	227	263	250	198	100	92	91
08/25/09	104	106	120	127	109	101	82	87	94	78	201	235	162	259	42	76	3	319	349	35	97	119	78	127
08/26/09	142	133	153	105	116	133	141	108	74	69	67	56	357	341	308	243	253	263	277	257	276	271	280	317
08/27/09	299	290	333	180	175	180	150	90	87	48	320	259	241	233	243	214	256	240	244	286	300	315	303	283
08/28/09	307	151	92	68	75	71	69	80	97	96	114	120	126	160	58	58	169	86	78	98	109	136	133	111
08/29/09	111	103	351	115	109	81	89	73	89	114	123	128	108	60	299	231	263	200	199	157	100	103	135	138
08/30/09	163	154	140	111	100	151	139	89	102	163	266	261	228	274	279	251	263	230	59	140	109	59	156	88
08/31/09	100	104	85	82	122	92	74	51	50	111	122	152	150	155	162	332	328	122	197	56	4	49	75	74
Hourly Averages	204	199	176	177	174	165	140	132	159	173	208	217	223	233	221	229	228	225	215	200	218	199	193	192

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	1.3	1.9	3.2	5.0	4.4	2.9	2.9	2.8	2.1	3.4	3.9	3.8	3.5	3.2	3.3	3.1	2.3	3.1	3.7	2.9	2.5	2.5	3.6	3.8	5.0	1.3	3.1
09/02/09	3.6	3.1	2.2	1.0	0.7	0.4	0.7	0.4	1.3	2.2	3.2	3.2	3.2	3.7	3.5	4.0	3.0	3.2	3.3	2.2	2.4	3.3	3.4	2.3	4.0	0.4	2.5
09/03/09	2.1	2.0	1.8	1.4	2.7	3.7	4.4	4.5	3.1	3.7	3.8	4.5	3.8	4.0	3.5	4.2	6.1	4.6	2.3	3.6	3.2	1.6	1.3	2.0	6.1	1.3	3.2
09/04/09	3.3	1.3	2.1	1.9	1.3	0.6	1.2	0.5	2.8	3.3	3.1	3.3	3.3	3.2	4.0	3.5	3.2	5.4	3.8	3.3	1.3	2.5	3.2	3.2	5.4	0.5	2.7
09/05/09	1.9	0.5	2.2	1.8	2.2	3.8	4.2	3.7	2.5	2.2	1.4	2.7	4.6	4.5	3.8	4.0	2.6	2.2	2.9	1.4	1.2	1.3	1.4	1.1	4.6	0.5	2.5
09/06/09	0.7	0.6	1.3	1.8	1.4	1.4	1.2	1.3	1.9	2.4	2.9	3.4	3.2	2.7	2.8	2.6	3.0	3.0	3.2	2.0	1.5	1.2	1.1	3.6	3.6	0.6	2.1
09/07/09	1.7	0.6	0.5	1.3	1.6	1.3	1.6	1.3	1.7	2.4	3.1	3.2	2.8	3.5	2.5	2.8	3.0	2.8	2.2	2.2	2.2	1.6	1.3	1.5	3.5	0.5	2.0
09/08/09	1.0	0.5	1.0	1.3	1.5	0.4	0.3	0.8	1.5	2.8	3.3	3.3	3.1	3.5	3.9	3.1	3.0	3.0	4.9	4.9	3.7	2.1	2.8	3.1	4.9	0.3	2.4
09/09/09	2.7	1.6	1.6	1.8	1.4	1.8	1.6	0.9	2.8	3.1	3.6	3.3	3.5	3.5	3.5	3.6	3.5	2.6	5.3	3.7	2.2	3.2	5.2	2.5	5.3	0.9	2.9
09/10/09	2.7	2.3	2.0	2.8	2.0	2.3	2.0	3.3	4.0	3.3	2.3	2.2	2.5	3.7	3.4	3.4	2.6	3.1	2.4	0.6	1.5	1.5	1.5	2.9	4.0	0.6	2.5
09/11/09	2.2	3.1	3.4	3.8	3.8	3.9	4.0	5.2	5.7	4.8	4.0	2.9	2.0	2.2	2.3	1.9	3.0	2.5	2.9	3.8	3.2	4.1	4.3	3.8	5.7	1.9	3.5
09/12/09	4.4	3.8	3.5	4.5	5.3	4.7	4.2	4.4	4.6	4.9	4.3	3.6	3.2	2.5	3.5	3.2	2.8	2.9	2.3	2.4	2.1	2.3	2.4	2.9	5.3	2.1	3.5
09/13/09	2.5	2.6	2.0	1.6	1.6	2.2	3.5	4.2	3.8	3.5	3.2	2.1	2.7	3.1	3.1	2.5	3.0	3.1	2.1	3.4	2.0	3.7	4.1	1.3	4.2	1.3	2.8
09/14/09	0.6	0.8	0.2	0.1	0.9	0.3	0.7	1.0	1.8	3.0	4.3	4.1	4.4	4.1	4.3	4.1	4.7	3.7	4.8	4.3	4.4	2.5	1.6	0.9	4.8	0.1	2.6
09/15/09	1.3	3.7	3.3	2.9	1.7	0.9	0.2	0.8	2.4	3.1	3.3	3.7	4.0	3.4	4.0	3.4	3.1	3.4	2.8	4.0	3.5	1.2	1.1	0.9	4.0	0.2	2.6
09/16/09	1.5	1.0	0.5	0.6	0.5	0.8	0.8	0.1	1.8	3.2	3.7	3.5	3.8	3.5	3.9	3.5	3.0	2.4	2.5	1.5	1.2	0.6	1.3	1.4	3.9	0.1	1.9
09/17/09	2.0	2.0	2.6	2.1	2.3	2.2	3.0	5.5	5.6	4.3	3.9	3.1	2.9	3.2	3.0	8.2	8.0	7.1	6.7	6.6	8.2	6.1	6.7	7.0	8.2	2.0	4.7
09/18/09	6.3	6.4	6.8	5.7	6.5	6.3	7.2	7.7	7.9	8.4	8.3	7.8	5.3	5.6	4.7	3.4	2.3	1.8	2.1	0.7	1.1	1.9	1.7	1.7	8.4	0.7	4.9
09/19/09	1.8	1.8	3.2	3.0	2.7	4.2	5.1	5.2	4.2	3.7	3.2	2.2	3.5	4.2	1.5	5.9	12.3	10.0	6.3	2.4	4.1	3.9	2.8	2.7	12.3	1.5	4.2
09/20/09	2.9	2.3	2.0	1.6	1.6	1.5	1.7	1.7	2.3	1.3	2.3	2.6	3.7	3.3	3.3	3.7	3.1	2.8	2.8	2.5	1.3	2.1	1.3	1.5	3.7	1.3	2.3
09/21/09	1.7	2.3	2.2	2.0	0.9	0.8	1.3	0.7	1.1	2.4	2.9	3.0	3.6	3.7	3.7	3.6	3.3	3.2	2.9	3.1	2.2	1.9	0.5	0.2	3.7	0.2	2.2
09/22/09	1.2	2.0	5.7	10.3	11.2	12.6	13.1	13.5	13.3	11.9	11.3	9.8	8.1	6.3	4.7	5.8	5.9	6.0	7.4	7.7	7.1	10.9	8.2	11.0	13.5	1.2	8.5
09/23/09	11.2	9.6	7.6	9.4	11.6	10.7	11.3	10.5	12.0	10.4	10.8	9.9	9.3	8.5	6.5	6.3	5.1	4.3	2.9	1.6	2.8	1.9	1.5	2.8	12.0	1.5	7.4
09/24/09	3.1	2.9	2.8	7.0	6.4	5.0	6.5	5.7	7.4	8.3	8.9	8.7	6.9	5.3	4.2	2.5	2.1	1.8	0.3	0.3	1.3	2.1	6.0	7.3	8.9	0.3	4.7
09/25/09	5.4	3.7	3.2	3.6	4.0	4.5	4.7	5.4	6.8	6.8	6.3	5.8	2.7	3.5	2.4	2.8	2.5	2.5	1.6	2.2	0.3	1.1	1.5	1.8	6.8	0.3	3.5
09/26/09	2.2	1.9	2.4	2.3	2.4	2.5	2.3	3.1	4.2	4.9	4.8	2.4	3.1	3.2	2.5	2.9	2.1	1.6	2.2	2.3	0.7	1.5	1.4	1.3	4.9	0.7	2.5
09/27/09	1.1	1.7	1.8	2.1	2.2	2.5	3.3	3.3	5.0	4.0	2.7	2.7	3.0	3.0	3.2	3.7	3.0	3.0	2.4	2.3	1.1	0.9	0.8	0.7	5.0	0.7	2.5
09/28/09	0.7	0.7	0.7	0.6	1.3	1.0	1.2	1.5	2.2	3.2	2.8	2.4	3.5	3.6	2.6	3.1	2.7	1.9	1.4	0.8	1.2	3.3	0.5	0.6	3.6	0.5	1.8
09/29/09	0.5	1.1	0.8	1.4	1.2	1.4	1.2	1.5	2.4	3.3	3.3	INV	INV	3.2	2.9	3.2	2.8	2.4	1.8	0.4	0.1	0.8	1.2	1.1	3.3	0.1	1.7
09/30/09	2.4	4.0	3.5	2.6	2.4	2.1	1.7	3.0	4.2	3.3	3.7	2.9	3.5	4.3	4.7	4.4	4.4	4.0	3.6	4.5	3.5	2.5	1.4	1.7	4.7	1.4	3.3
Hourly Averages	2.5	2.4	2.5	2.9	3.0	3.0	3.2	3.4	4.1	4.2	4.3	4.0	3.9	3.8	3.5	3.7	3.7	3.4	3.2	2.8	2.4	2.5	2.5	2.6			

Maximum Hourly Wind Speed: 13.5 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 3.2

Maximum 24-Hour Mean: 8.5 **Minimum 24-Hour Mean:** 1.7

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
09/01/09	131	177	82	54	75	87	83	71	107	275	272	262	269	270	266	193	228	257	258	242	260	251	252	264
09/02/09	273	263	245	277	250	141	168	219	31	270	261	255	259	244	267	256	236	229	214	241	277	226	235	217
09/03/09	213	241	235	270	269	278	278	285	263	253	251	245	261	253	257	247	61	293	115	104	70	25	181	240
09/04/09	288	146	142	94	187	235	183	233	251	256	268	258	237	265	282	245	278	27	77	86	127	118	79	97
09/05/09	102	102	100	100	86	114	76	5	107	122	179	52	41	47	269	273	311	332	262	53	137	130	119	145
09/06/09	144	211	170	182	166	192	158	112	101	282	222	268	257	266	259	248	246	252	261	231	268	302	170	149
09/07/09	139	105	54	143	89	135	160	106	114	254	273	280	227	26	201	265	239	252	268	282	267	288	284	280
09/08/09	275	225	284	283	222	169	185	104	273	252	245	248	264	256	259	232	264	257	21	83	73	97	103	140
09/09/09	135	74	158	158	181	226	173	136	263	259	265	261	246	255	250	265	241	268	15	55	102	78	53	108
09/10/09	130	149	122	69	135	122	149	109	48	49	64	78	229	222	235	229	239	261	319	114	175	156	128	126
09/11/09	106	88	67	71	67	66	60	53	46	51	49	28	262	89	92	102	345	27	68	50	68	49	51	61
09/12/09	58	75	72	59	47	60	57	58	61	89	104	130	140	169	224	179	52	356	319	70	90	91	85	75
09/13/09	85	97	116	75	82	85	56	51	70	87	103	17	341	211	245	178	208	244	153	110	110	165	167	100
09/14/09	17	198	152	174	155	127	131	79	184	203	208	196	186	195	185	213	197	200	200	201	206	143	242	267
09/15/09	225	226	216	227	252	242	67	90	190	211	216	174	215	235	246	215	185	181	182	210	209	227	263	221
09/16/09	274	239	213	172	142	155	162	93	310	233	210	183	214	202	217	226	265	33	287	316	180	144	148	144
09/17/09	118	144	127	118	110	133	94	48	46	61	90	125	129	141	255	47	35	32	35	34	34	56	45	44
09/18/09	54	52	52	60	51	51	46	46	46	42	46	33	48	28	25	31	49	55	47	155	64	75	86	98
09/19/09	111	92	61	71	75	51	43	47	52	93	130	153	272	58	80	47	26	34	42	128	91	115	134	111
09/20/09	104	112	133	146	134	134	137	116	81	141	227	227	238	238	256	208	221	227	257	286	293	301	291	304
09/21/09	309	298	287	275	243	190	252	124	94	273	243	277	240	247	235	255	202	255	261	290	282	277	344	126
09/22/09	163	101	62	37	30	28	31	32	32	34	37	45	38	37	28	39	34	30	38	49	44	50	57	45
09/23/09	43	55	62	55	49	50	48	51	49	47	45	47	45	45	53	55	79	81	89	58	52	77	80	67
09/24/09	77	71	66	35	68	58	50	55	57	62	49	48	41	41	42	34	95	55	54	132	161	78	38	31
09/25/09	57	99	77	60	56	51	57	53	47	40	44	36	126	45	348	37	19	52	242	253	124	183	161	175
09/26/09	187	153	156	172	157	156	158	127	84	54	37	55	106	77	47	51	140	179	211	256	285	264	190	194
09/27/09	169	171	172	162	165	148	119	120	86	57	64	181	254	298	256	229	226	215	265	271	266	173	187	185
09/28/09	180	193	190	137	172	143	143	129	126	115	133	78	225	189	166	166	267	230	306	171	154	211	118	181
09/29/09	146	195	160	160	157	165	131	121	103	117	126	INV	INV	251	186	212	173	178	217	248	114	159	214	214
09/30/09	195	201	210	205	216	213	221	210	211	212	223	167	229	215	193	164	359	316	297	289	296	303	308	267
Hourly Averages	150	152	141	137	136	133	122	103	118	150	156	152	195	170	198	171	184	180	179	169	163	160	160	156

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
07/01/09	42	29	31	18	31	25	38	44	94	32	30	34	64	63	49	61	38	53	91	80	31	49	51	35
07/02/09	60	68	19	25	43	42	25	37	28	24	15	20	18	49	60	68	70	66	58	80	32	29	20	27
07/03/09	14	20	22	21	20	28	18	20	22	34	77	54	59	81	67	65	70	91	13	21	26	25	20	30
07/04/09	29	68	31	35	23	24	53	31	21	32	31	34	47	60	56	62	62	65	57	51	52	33	41	30
07/05/09	61	19	26	44	53	31	27	41	20	30	27	42	56	59	60	58	74	66	85	49	37	39	60	36
07/06/09	39	49	48	53	82	28	18	23	77	37	44	61	68	73	75	69	71	86	98	42	40	24	30	46
07/07/09	36	61	52	22	34	50	64	45	57	53	60	66	59	68	63	72	63	76	60	74	95	61	36	17
07/08/09	23	21	18	40	19	25	19	35	29	41	78	74	64	66	75	55	72	67	69	73	44	18	22	23
07/09/09	42	29	53	28	13	24	25	24	70	66	75	58	74	65	75	58	75	65	75	91	24	49	20	33
07/10/09	55	37	35	21	34	17	26	23	24	27	43	35	94	67	64	52	73	66	61	60	28	22	35	81
07/11/09	70	30	35	23	15	53	44	51	45	42	50	62	56	55	40	63	69	71	76	58	42	34	26	30
07/12/09	28	21	22	46	39	29	11	87	71	23	27	42	57	48	76	53	68	86	90	77	68	38	58	41
07/13/09	27	29	25	32	33	70	24	39	31	16	22	38	55	79	54	77	83	83	80	88	39	56	55	40
07/14/09	38	38	39	21	54	26	28	75	26	28	38	46	53	52	66	58	70	84	52	73	27	33	27	27
07/15/09	27	53	53	52	25	16	19	43	43	43	39	55	62	44	68	63	48	44	60	12	13	17	14	57
07/16/09	32	59	64	36	72	26	29	23	70	43	59	38	45	41	39	47	54	50	73	16	24	98	89	55
07/17/09	45	76	15	24	36	16	14	14	19	46	97	47	61	73	58	53	38	48	88	47	26	58	25	30
07/18/09	24	15	31	24	32	32	22	18	19	28	25	53	47	59	42	57	64	62	87	70	62	59	48	36
07/19/09	33	34	41	28	25	22	12	19	16	28	25	39	92	60	54	62	50	68	84	83	66	51	57	18
07/20/09	20	18	23	15	40	30	22	26	62	29	38	59	59	82	59	52	51	49	47	20	87	49	61	23
07/21/09	35	37	28	29	57	33	29	25	47	19	17	51	26	57	49	54	51	70	75	34	16	25	60	44
07/22/09	29	36	53	20	25	18	56	57	42	76	50	39	56	67	65	40	25	11	39	18	18	20	21	15
07/23/09	12	14	25	20	20	13	16	16	15	47	28	28	48	42	72	39	43	52	52	46	47	65	63	44
07/24/09	33	39	23	32	41	53	24	30	36	80	57	38	39	43	35	34	44	56	81	60	45	19	22	19
07/25/09	36	41	13	24	33	18	28	17	39	37	45	82	40	47	51	45	19	49	72	47	38	50	65	64
07/26/09	56	51	21	17	19	22	30	44	16	19	24	29	35	41	56	56	50	63	85	66	35	20	21	25
07/27/09	28	19	17	17	9	13	16	66	21	26	28	38	44	61	60	64	65	70	87	83	42	35	36	19
07/28/09	22	22	20	21	26	51	33	52	31	31	59	48	63	69	70	62	85	80	81	44	26	23	55	54
07/29/09	62	31	22	25	28	51	35	37	31	50	45	36	52	90	81	63	56	58	64	27	22	49	90	60
07/30/09	14	15	16	10	17	60	22	33	30	44	44	58	65	53	68	65	66	64	49	51	75	44	38	18
07/31/09	62	49	24	23	59	55	26	33	73	24	32	33	47	61	65	70	80	64	50	35	40	39	30	42

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
08/01/09	45	67	72	61	37	24	35	84	17	20	28	40	47	49	53	51	78	65	70	41	21	21	18	18
08/02/09	20	54	44	73	43	49	38	26	21	78	89	52	56	51	57	49	50	70	50	37	86	29	21	21
08/03/09	24	58	38	30	22	9	11	18	21	62	45	37	45	55	53	61	66	60	97	47	23	18	20	24
08/04/09	38	30	28	45	34	69	76	23	23	29	29	32	42	35	49	51	54	60	48	33	60	13	17	63
08/05/09	62	25	81	46	27	22	63	20	55	30	33	32	69	55	67	67	64	51	87	32	14	25	44	24
08/06/09	22	16	11	14	13	24	20	19	25	55	71	48	36	47	78	84	77	99	93	83	47	27	78	64
08/07/09	46	51	27	17	21	24	31	20	35	32	34	36	57	75	61	61	72	87	102	87	38	18	41	53
08/08/09	48	32	45	36	29	24	14	28	41	33	41	55	62	68	67	48	69	55	84	75	24	26	28	18
08/09/09	25	27	31	16	30	7	1	15	29	69	48	44	68	66	66	69	100	85	90	67	27	16	20	21
08/10/09	31	30	5	16	73	18	30	36	33	39	40	52	72	65	63	61	44	63	47	34	21	15	21	37
08/11/09	28	31	33	39	40	70	22	45	36	40	19	34	41	46	36	39	44	50	31	17	23	8	57	24
08/12/09	28	57	45	17	18	32	15	40	29	22	42	62	44	57	57	63	91	19	12	35	29	47	45	40
08/13/09	48	50	14	18	32	16	78	58	19	21	21	17	19	22	20	60	27	23	19	20	18	15	21	24
08/14/09	22	51	22	21	19	41	10	27	31	69	44	52	43	67	72	78	77	81	59	76	50	35	32	61
08/15/09	49	20	20	18	17	20	23	36	25	48	50	51	44	79	81	82	89	84	83	97	27	30	20	22
08/16/09	61	58	30	31	21	34	17	65	26	31	42	57	56	70	82	76	61	64	84	77	58	23	20	21
08/17/09	13	28	46	20	48	23	14	33	21	40	70	87	64	85	66	67	57	81	71	24	87	25	27	22
08/18/09	19	47	42	67	16	4	13	29	28	22	30	62	68	68	76	86	63	42	38	36	23	18	22	40
08/19/09	30	34	39	61	35	36	76	84	32	40	48	52	44	56	52	59	62	68	54	36	22	23	22	27
08/20/09	33	28	34	24	20	18	18	28	23	25	35	38	44	43	52	46	56	58	38	33	22	24	33	32
08/21/09	27	24	24	36	28	12	30	46	47	27	34	45	40	39	50	48	52	56	67	72	45	63	36	26
08/22/09	20	43	22	22	61	35	21	20	13	19	24	24	22	58	69	34	54	37	26	46	31	43	39	21
08/23/09	28	37	25	25	35	34	23	35	21	41	51	73	51	61	60	53	57	53	65	58	35	45	58	84
08/24/09	41	44	24	16	16	11	13	21	18	30	71	62	82	81	52	46	58	68	67	63	84	22	15	9
08/25/09	20	25	33	39	32	13	20	19	26	47	57	40	93	76	84	47	43	24	23	43	39	28	26	25
08/26/09	17	27	21	25	15	36	20	21	17	34	35	28	61	73	92	61	74	71	66	50	22	17	28	10
08/27/09	24	25	68	15	27	20	24	22	20	36	67	59	59	56	54	60	65	72	69	40	22	16	16	14
08/28/09	27	46	38	26	17	18	17	19	16	20	22	23	37	36	71	75	40	12	20	22	24	20	11	27
08/29/09	24	45	57	33	27	17	25	16	24	20	22	32	43	97	71	73	58	54	47	29	41	32	11	9
08/30/09	25	30	29	20	10	22	13	16	39	68	53	62	63	63	67	50	53	70	37	18	36	16	33	16
08/31/09	17	18	33	61	33	22	24	14	14	19	25	30	53	45	37	67	50	64	72	60	89	31	29	39

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
09/01/09	35	34	55	15	21	18	19	17	91	17	15	22	29	43	39	60	67	40	25	36	34	51	29	17
09/02/09	25	24	39	56	51	38	22	21	56	80	23	33	42	61	58	62	66	52	33	69	25	39	27	39
09/03/09	39	29	31	22	20	20	22	21	34	26	33	30	53	51	56	81	19	75	78	20	65	91	69	82
09/04/09	25	34	30	34	46	20	38	34	23	19	21	28	37	48	54	67	55	50	40	19	25	26	17	18
09/05/09	36	39	22	17	25	25	51	61	23	24	58	34	16	20	86	20	31	54	18	80	38	36	20	30
09/06/09	30	17	27	15	22	14	21	23	42	40	67	32	47	70	66	50	44	37	33	46	38	38	65	20
09/07/09	34	20	19	20	30	30	19	25	34	41	22	41	76	37	53	40	58	68	50	43	27	26	30	22
09/08/09	24	44	24	19	56	31	22	16	75	26	34	45	68	62	65	83	84	73	54	35	30	33	27	13
09/09/09	26	56	32	21	29	68	27	47	39	22	20	38	49	48	45	58	52	58	41	33	27	38	22	30
09/10/09	15	32	62	31	29	20	19	23	18	26	44	51	61	68	65	60	68	54	68	51	27	23	35	16
09/11/09	23	19	21	19	17	20	18	15	11	16	24	38	73	43	31	79	23	30	30	21	26	27	17	18
09/12/09	19	18	17	17	14	20	18	16	19	23	27	30	48	75	70	48	69	92	42	32	25	23	25	22
09/13/09	39	16	31	20	18	20	18	15	25	29	34	84	84	62	60	69	54	67	67	14	31	37	69	33
09/14/09	27	71	19	18	36	16	23	20	51	34	20	28	36	37	44	57	41	62	39	33	27	97	55	59
09/15/09	24	15	17	18	34	12	26	22	42	43	45	45	57	87	73	80	72	49	64	26	20	32	29	42
09/16/09	36	70	31	28	20	18	19	9	55	33	32	42	68	75	86	80	86	94	51	42	34	45	39	25
09/17/09	31	17	14	25	22	16	37	16	14	23	39	44	60	79	92	20	12	11	12	11	12	18	11	11
09/18/09	14	16	14	18	14	14	11	11	10	11	11	13	28	18	15	26	30	19	36	50	39	32	23	18
09/19/09	17	16	18	19	18	15	12	13	16	28	26	69	61	57	34	23	13	11	29	25	21	18	21	24
09/20/09	24	25	29	20	20	18	22	28	20	41	61	46	50	54	72	69	81	72	54	30	46	25	57	22
09/21/09	23	27	20	21	66	38	38	28	32	33	33	48	43	62	67	65	56	80	67	28	26	25	41	32
09/22/09	50	27	37	11	12	11	11	11	12	12	14	16	17	16	18	14	15	12	15	12	13	13	12	11
09/23/09	11	16	18	13	9	10	10	13	11	11	9	12	14	14	17	19	25	20	19	19	17	28	27	23
09/24/09	24	25	25	11	27	17	16	16	18	19	14	13	16	17	28	40	53	28	21	21	25	34	13	12
09/25/09	39	25	21	20	18	15	18	15	13	12	14	25	57	40	74	66	36	24	66	14	20	24	21	23
09/26/09	16	16	15	15	14	15	13	17	16	18	15	78	59	61	78	43	76	64	29	20	47	57	29	24
09/27/09	26	20	25	18	13	17	15	24	10	17	52	51	65	88	75	47	70	65	53	23	44	28	16	14
09/28/09	21	15	33	18	23	12	7	23	15	14	28	91	63	57	79	74	77	73	49	33	29	17	45	31
09/29/09	32	19	13	13	21	23	18	15	22	18	60	INV	INV	74	96	75	89	92	91	32	5	40	58	35
09/30/09	27	18	20	19	21	34	43	38	24	35	47	78	89	69	78	89	101	88	80	29	45	59	89	69

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	25.4	24.9	24.7	24.0	19.4	18.7	20.4	22.5	23.8	24.0	26.1	28.0	27.8	28.3	29.2	29.8	30.6	31.1	30.2	29.2	26.3	23.3	22.2	21.4	31.1	18.7	25.5
07/02/09	21.8	21.6	20.7	20.7	20.7	20.9	21.0	21.8	22.2	23.8	24.4	25.7	26.8	28.2	29.7	30.5	30.7	30.5	29.6	28.4	26.5	25.6	24.8	24.1	30.7	20.7	25.0
07/03/09	23.3	23.3	23.3	22.7	22.0	21.6	21.8	23.6	25.2	26.5	27.4	28.5	29.2	29.9	30.7	31.2	31.4	30.1	23.5	24.0	25.2	22.3	21.4	21.8	31.4	21.4	25.4
07/04/09	21.7	21.6	21.3	21.1	21.4	22.1	23.5	24.4	24.8	25.5	26.0	26.7	27.3	28.2	28.8	29.5	29.8	29.8	29.6	29.1	28.6	28.3	28.1	27.9	29.8	21.1	26.0
07/05/09	27.2	27.4	26.8	26.1	25.2	24.3	24.3	25.7	27.1	28.1	29.3	30.5	31.4	32.2	32.5	32.8	32.9	32.7	32.3	31.6	31.1	30.3	29.2	29.6	32.9	24.3	29.2
07/06/09	29.3	28.9	28.4	27.6	26.3	24.3	24.9	25.8	27.2	27.8	29.0	30.0	30.7	31.4	31.9	32.1	32.3	32.2	31.7	31.1	30.7	30.2	29.5	28.8	32.3	24.3	29.2
07/07/09	27.9	26.8	25.6	24.5	23.9	23.1	23.1	23.7	24.7	25.6	26.7	28.1	29.1	30.1	30.8	31.3	31.5	31.4	30.9	30.5	30.0	29.5	27.2	27.1	31.5	23.1	27.6
07/08/09	26.6	26.1	25.6	25.4	24.9	24.4	24.6	25.6	26.2	27.2	28.2	28.9	29.6	30.2	30.8	31.3	31.5	31.4	31.3	30.8	29.3	24.7	24.0	24.4	31.5	24.0	27.6
07/09/09	24.9	26.1	24.4	23.2	23.6	23.0	23.6	25.1	26.5	27.8	29.3	30.6	31.2	31.7	32.4	32.2	32.5	32.4	32.2	31.5	31.2	29.9	29.5	28.7	32.5	23.0	28.5
07/10/09	28.0	28.0	27.3	26.7	25.7	25.8	26.3	27.7	29.1	30.1	31.3	32.1	32.9	33.8	34.4	34.7	34.5	34.4	34.0	33.3	33.1	32.7	31.3	30.2	34.7	25.7	30.7
07/11/09	28.6	28.0	27.3	26.5	26.4	26.4	27.6	27.9	29.2	30.3	31.2	32.3	34.3	35.0	35.3	35.4	35.1	34.5	34.1	33.7	33.1	32.7	32.8	32.4	35.4	26.4	31.3
07/12/09	31.9	31.4	30.9	29.1	28.2	28.8	28.9	29.5	30.7	31.5	32.8	33.3	33.3	33.7	34.4	35.0	35.0	34.9	34.5	33.7	32.6	31.5	30.7	29.6	35.0	28.2	31.9
07/13/09	28.8	28.3	28.0	27.7	27.2	26.4	26.5	28.2	29.6	30.3	31.8	32.9	33.8	34.4	34.9	35.1	35.1	34.8	34.4	33.6	32.9	32.2	29.7	29.4	35.1	26.4	31.1
07/14/09	29.3	29.4	28.1	28.5	26.5	26.7	26.6	28.1	29.3	30.1	31.4	32.9	33.5	34.1	34.4	34.8	34.7	34.5	34.2	33.6	33.2	32.7	32.2	31.3	34.8	26.5	31.2
07/15/09	29.7	29.0	28.6	28.1	27.7	27.0	26.1	26.0	26.3	27.6	29.1	29.8	30.4	31.1	31.8	31.8	31.5	31.1	30.0	28.1	28.0	27.7	27.5	27.0	31.8	26.0	28.8
07/16/09	26.3	26.7	26.7	26.6	25.9	25.9	24.6	26.0	28.4	28.9	29.8	30.5	31.8	32.7	33.2	33.7	33.7	33.6	33.2	30.2	31.4	31.0	30.9	30.2	33.7	24.6	29.7
07/17/09	29.9	29.2	27.3	27.0	27.2	26.6	26.7	27.1	27.9	29.7	31.0	32.2	33.1	34.3	34.8	35.1	27.3	29.2	27.9	27.6	26.8	27.3	27.2	27.2	35.1	26.6	29.1
07/18/09	26.7	26.3	27.2	27.2	25.2	24.2	24.9	27.4	29.0	30.6	32.3	33.4	34.4	35.0	35.6	35.7	36.1	36.2	29.0	28.4	26.8	26.9	27.3	26.3	36.2	24.2	29.7
07/19/09	26.3	26.4	27.0	25.6	25.1	24.6	25.6	27.9	30.2	31.3	32.1	32.9	33.7	34.5	35.1	35.4	35.4	35.1	34.7	33.1	30.1	29.0	28.5	27.5	35.4	24.6	30.3
07/20/09	26.5	26.1	25.3	25.5	25.0	25.2	25.0	25.4	27.6	29.1	30.2	31.1	31.9	32.5	32.9	33.1	33.4	32.9	30.0	28.7	25.7	25.8	25.8	24.4	33.4	24.4	28.3
07/21/09	24.0	23.5	24.8	24.4	22.8	23.3	23.6	21.8	21.5	20.5	20.9	23.2	26.1	27.5	28.5	29.1	29.7	29.7	29.3	28.7	28.4	28.0	26.4	26.5	29.7	20.5	25.5
07/22/09	25.0	23.6	22.9	23.8	23.7	23.9	23.7	25.1	26.4	27.7	28.2	29.6	30.8	31.6	32.1	31.1	28.4	25.1	26.2	23.9	23.7	23.9	24.3	24.0	32.1	22.9	26.2
07/23/09	23.6	23.0	22.8	22.4	22.2	22.4	22.3	23.2	24.3	26.8	27.9	29.1	29.3	30.1	29.7	29.1	29.6	29.9	29.6	29.2	28.6	27.3	21.0	20.9	30.1	20.9	26.0
07/24/09	19.5	20.2	19.9	21.5	21.8	20.8	20.8	22.0	24.0	25.5	25.8	26.1	26.8	27.3	27.7	28.3	28.5	28.7	28.5	28.2	27.9	27.1	26.3	26.1	28.7	19.5	25.0
07/25/09	25.8	25.7	25.5	26.3	25.0	24.4	24.7	25.1	26.2	27.6	28.4	28.0	23.3	22.6	27.8	30.1	29.6	27.4	25.2	26.1	25.5	25.3	25.3	24.6	30.1	22.6	26.1
07/26/09	25.1	24.5	25.8	25.6	24.8	24.8	24.3	25.6	26.6	27.0	28.1	29.2	30.2	31.1	32.1	32.4	32.7	32.7	32.4	31.9	31.3	31.0	30.8	30.7	32.7	24.3	28.8
07/27/09	30.5	29.7	29.3	29.3	28.4	27.9	27.9	28.3	29.4	30.4	31.3	32.2	32.9	33.8	34.3	34.7	35.0	34.9	34.5	33.9	33.3	33.1	32.8	32.1	35.0	27.9	31.7
07/28/09	31.7	31.7	31.4	30.7	29.7	28.7	27.8	28.8	29.3	30.3	31.6	32.5	33.2	33.7	34.5	34.8	35.1	34.9	34.5	33.8	33.1	32.6	31.8	30.6	35.1	27.8	31.9
07/29/09	29.6	29.1	28.5	27.3	26.6	26.0	26.1	26.2	26.9	27.7	28.5	29.5	30.5	31.3	31.8	32.0	32.5	32.5	32.2	31.6	31.1	29.8	28.7	28.1	32.5	26.0	29.3
07/30/09	27.7	27.0	26.4	26.1	25.5	24.7	24.7	24.9	25.4	26.5	27.6	28.5	29.8	30.4	31.0	31.3	31.2	31.3	31.3	30.7	29.9	28.1	26.9	28.0	31.3	24.7	28.1
07/31/09	27.6	27.1	27.2	26.8	25.5	24.2	23.9	25.4	27.3	27.9	28.9	30.5	31.5	32.1	32.5	32.7	32.8	32.7	32.2	31.6	31.1	30.6	28.9	28.6	32.8	23.9	29.2
Hourly Averages	26.8	26.5	26.1	25.7	24.9	24.5	24.7	25.7	26.8	27.9	28.9	30.0	30.7	31.4	32.1	32.5	32.3	32.0	31.1	30.3	29.6	28.7	27.8	27.4			

Maximum Hourly Temperature: 36.2 **Minimum Hourly Temperature:** 18.7 **Average Monthly Temperature:** 28.5

Maximum 24-Hour Mean: 31.9 **Minimum 24-Hour Mean:** 25.0

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	25.4	24.9	24.7	24.0	19.5	18.7	20.0	21.8	23.9	24.5	27.1	29.0	28.4	29.2	30.2	30.9	31.5	31.7	30.3	29.2	26.4	23.1	21.7	21.2	31.7	18.7	25.7
07/02/09	21.5	21.4	20.7	20.6	20.5	20.7	21.0	21.7	22.3	23.9	24.8	26.3	27.7	29.3	30.8	31.5	31.5	31.0	29.7	28.4	26.3	25.4	24.6	24.0	31.5	20.5	25.2
07/03/09	23.2	23.0	23.0	22.5	21.8	21.5	21.9	24.1	25.8	27.4	28.4	29.6	30.0	31.0	31.8	32.1	32.1	30.6	24.0	24.2	25.3	22.5	21.6	21.9	32.1	21.5	25.8
07/04/09	21.8	21.7	21.3	21.1	21.3	21.8	23.3	24.8	25.3	26.2	26.8	27.6	28.2	29.3	29.9	30.4	30.5	30.3	29.9	29.2	28.6	28.2	28.1	27.8	30.5	21.1	26.4
07/05/09	27.0	27.0	26.6	25.6	24.7	23.9	24.5	26.3	27.6	28.7	30.1	31.7	32.5	33.3	33.5	33.7	33.6	33.2	32.5	31.7	31.1	30.2	28.7	29.1	33.7	23.9	29.4
07/06/09	29.1	28.7	27.9	26.8	25.8	23.8	25.1	26.4	28.1	28.7	29.9	31.1	31.8	32.5	33.0	33.0	33.1	32.6	31.8	31.1	30.6	30.1	29.4	28.6	33.1	23.8	29.5
07/07/09	27.8	26.8	25.6	24.6	23.9	23.2	23.4	24.1	25.4	26.5	27.7	29.2	30.2	31.1	31.8	32.2	32.3	31.9	31.2	30.5	30.0	29.4	27.3	27.2	32.3	23.2	28.1
07/08/09	26.7	26.0	25.6	25.3	24.6	24.3	24.7	26.0	26.8	28.0	29.3	30.0	30.8	31.3	32.0	32.4	32.3	32.0	31.6	30.8	29.3	24.9	24.1	24.4	32.4	24.1	28.0
07/09/09	24.6	25.5	24.2	23.0	23.1	22.5	23.8	25.7	27.2	29.0	30.4	31.8	32.4	32.9	33.6	33.1	33.3	33.0	32.4	31.5	31.0	29.7	29.1	28.2	33.6	22.5	28.8
07/10/09	27.6	27.3	26.6	26.1	25.4	25.3	26.5	28.4	29.9	31.2	32.5	33.1	34.1	35.0	35.4	35.6	35.2	35.0	34.3	33.4	33.0	32.6	31.2	29.9	35.6	25.3	31.0
07/11/09	28.1	27.6	27.0	26.2	26.3	26.3	27.4	28.3	30.1	31.5	32.3	33.5	35.8	36.3	36.3	36.2	35.9	34.9	34.3	33.8	33.0	32.6	32.6	32.2	36.3	26.2	31.6
07/12/09	31.7	31.3	30.7	28.1	27.6	28.4	28.9	29.9	31.5	32.3	33.5	34.2	34.3	34.5	35.3	36.0	35.7	35.5	34.7	33.8	32.5	31.5	30.7	29.6	36.0	27.6	32.2
07/13/09	28.7	28.3	28.0	27.6	26.8	25.7	26.4	28.6	30.2	30.9	32.5	33.9	34.9	35.7	36.0	36.0	35.8	35.2	34.6	33.6	32.8	32.2	29.7	29.4	36.0	25.7	31.4
07/14/09	29.1	28.9	27.7	27.9	26.1	26.2	26.5	28.6	29.9	30.8	32.3	34.0	34.5	35.1	35.4	35.7	35.3	35.0	34.4	33.7	33.1	32.6	32.0	31.2	35.7	26.1	31.5
07/15/09	29.7	28.8	28.4	27.8	27.5	27.0	26.2	26.2	26.8	28.3	29.9	30.5	31.2	32.2	32.8	32.4	31.8	31.3	30.2	28.2	28.0	27.7	27.5	27.1	32.8	26.2	29.1
07/16/09	26.3	26.5	26.6	26.4	25.7	25.4	24.5	26.3	29.0	29.6	30.7	31.5	33.0	33.7	34.2	34.5	34.3	34.1	33.4	30.4	31.2	30.8	30.7	29.9	34.5	24.5	29.9
07/17/09	29.7	28.9	27.0	26.7	26.9	26.5	26.9	27.7	28.8	30.9	32.1	33.3	34.3	35.5	35.9	36.1	27.0	28.7	27.6	27.5	26.6	27.0	26.8	26.8	36.1	26.5	29.4
07/18/09	26.3	25.9	26.8	26.8	25.0	23.7	24.8	28.0	30.0	32.0	34.0	35.1	35.6	36.2	36.7	36.9	37.1	36.9	28.1	27.7	26.6	26.5	26.6	26.0	37.1	23.7	30.0
07/19/09	26.0	25.9	26.0	24.7	24.5	24.1	25.4	28.2	31.0	32.2	33.1	34.0	34.8	35.6	36.1	36.3	36.1	35.6	34.9	33.1	30.1	29.0	28.4	27.4	36.3	24.1	30.5
07/20/09	26.5	26.1	25.3	25.5	24.9	25.1	25.0	25.6	28.3	29.7	31.0	32.0	32.9	33.6	33.8	33.9	34.0	33.3	29.8	28.5	25.1	25.5	25.7	24.2	34.0	24.2	28.5
07/21/09	23.9	23.3	24.5	24.2	22.5	22.8	23.6	21.7	21.6	20.6	21.1	23.6	26.6	28.2	29.3	29.8	30.4	30.2	29.5	28.7	28.3	27.8	26.1	26.0	30.4	20.6	25.6
07/22/09	24.9	23.6	22.7	23.3	23.2	23.5	23.7	25.5	26.9	28.6	28.9	30.6	31.9	32.9	33.3	31.9	29.2	25.9	26.5	24.2	23.9	24.1	24.4	24.0	33.3	22.7	26.6
07/23/09	23.6	23.1	22.7	22.3	22.1	22.4	22.4	23.5	25.1	27.9	29.0	30.3	30.7	31.4	30.6	29.9	30.2	30.5	29.8	29.3	28.6	27.3	20.9	20.3	31.4	20.3	26.4
07/24/09	19.3	20.0	19.8	21.2	21.6	20.8	20.8	22.1	24.7	26.2	26.3	26.7	27.7	28.3	28.6	29.1	29.1	29.3	28.7	28.3	27.9	26.9	26.1	25.8	29.3	19.3	25.2
07/25/09	25.6	25.4	25.2	25.9	24.6	24.2	24.9	25.6	27.0	28.2	29.3	28.7	23.5	22.8	28.5	30.6	29.7	27.4	24.9	25.8	25.2	25.0	25.1	24.4	30.6	22.8	26.1
07/26/09	24.7	24.1	25.5	25.4	24.7	24.5	23.8	25.7	26.9	27.4	28.7	30.0	31.2	32.1	32.9	33.2	33.4	33.1	32.5	31.9	31.2	30.8	30.6	30.6	33.4	23.8	29.0
07/27/09	30.4	29.7	29.2	29.2	28.0	27.5	27.8	28.6	29.7	30.9	32.0	33.1	33.8	34.7	35.2	35.5	35.6	35.3	34.6	33.8	33.2	33.0	32.7	32.0	35.6	27.5	31.9
07/28/09	31.5	31.6	31.3	30.5	29.6	28.4	27.7	29.0	29.7	30.9	32.4	33.5	34.2	34.6	35.4	35.5	35.7	35.3	34.6	33.8	33.0	32.5	31.7	30.4	35.7	27.7	32.2
07/29/09	29.4	28.9	28.2	27.1	26.5	25.8	26.0	26.5	27.4	28.5	29.4	30.6	31.6	32.4	32.8	32.6	33.0	32.9	32.3	31.6	31.0	29.8	28.8	28.1	33.0	25.8	29.6
07/30/09	27.6	26.9	26.3	25.9	25.3	24.5	24.6	25.2	26.1	27.4	28.6	29.6	30.8	31.5	31.9	32.2	31.9	31.8	31.5	30.7	29.7	27.7	26.6	27.4	32.2	24.5	28.4
07/31/09	26.4	26.7	27.0	26.6	25.2	23.7	23.8	25.9	28.0	28.4	29.7	31.5	32.6	33.3	33.6	33.6	33.6	33.2	32.4	31.6	31.0	30.2	28.1	27.7	33.6	23.7	29.3
Hourly Averages	26.6	26.2	25.9	25.5	24.7	24.3	24.7	26.0	27.4	28.6	29.8	30.9	31.7	32.4	33.1	33.3	32.9	32.5	31.2	30.3	29.5	28.6	27.7	27.2			

Maximum Hourly Temperature: 37.1 **Minimum Hourly Temperature:** 18.7 **Average Monthly Temperature:** 28.8

Maximum 24-Hour Mean: 32.2 **Minimum 24-Hour Mean:** 25.2

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	-0.067	-0.041	-0.053	-0.086	-0.115	0.031	0.358	0.764	-0.106	-0.503	-1.044	-0.976	-0.600	-0.909	-0.981	-1.040	-0.941	-0.643	-0.151	-0.056	-0.084	0.174	0.491	0.189	0.764	-1.044	-0.266
07/02/09	0.239	0.154	0.051	0.154	0.175	0.162	0.088	0.068	-0.125	-0.188	-0.398	-0.587	-0.866	-1.086	-1.041	-0.942	-0.733	-0.478	-0.174	0.021	0.157	0.220	0.181	0.098	0.239	-1.086	-0.202
07/03/09	0.100	0.214	0.243	0.204	0.160	0.098	-0.084	-0.524	-0.676	-0.911	-1.011	-1.103	-0.842	-1.035	-1.074	-0.928	-0.733	-0.545	-0.415	-0.206	-0.097	-0.232	-0.186	-0.159	0.243	-1.103	-0.406
07/04/09	-0.117	-0.056	0.013	-0.003	0.143	0.263	0.128	-0.317	-0.498	-0.688	-0.742	-0.899	-0.919	-1.146	-1.059	-0.972	-0.706	-0.519	-0.298	-0.073	0.001	0.025	0.041	0.070	0.263	-1.146	-0.347
07/05/09	0.244	0.487	0.174	0.428	0.423	0.330	-0.199	-0.625	-0.466	-0.673	-0.795	-1.186	-1.087	-1.109	-1.035	-0.883	-0.690	-0.525	-0.179	-0.034	0.033	0.159	0.499	0.514	0.514	-1.186	-0.258
07/06/09	0.233	0.249	0.510	0.777	0.539	0.514	-0.162	-0.587	-0.806	-0.847	-0.946	-1.068	-1.067	-1.081	-1.160	-0.896	-0.774	-0.456	-0.137	-0.021	0.041	0.085	0.125	0.131	0.777	-1.160	-0.283
07/07/09	0.071	0.001	0.019	-0.031	-0.009	-0.044	-0.254	-0.426	-0.689	-0.863	-1.001	-1.162	-1.124	-1.087	-1.057	-0.898	-0.771	-0.549	-0.294	-0.062	0.013	0.037	-0.097	-0.088	0.071	-1.162	-0.432
07/08/09	-0.026	0.071	0.087	0.081	0.349	0.079	-0.108	-0.401	-0.573	-0.808	-1.077	-1.139	-1.225	-1.149	-1.203	-1.040	-0.884	-0.587	-0.299	-0.015	-0.027	-0.222	-0.097	0.037	0.349	-1.225	-0.424
07/09/09	0.276	0.665	0.181	0.137	0.524	0.506	-0.130	-0.634	-0.757	-1.177	-1.167	-1.188	-1.240	-1.185	-1.206	-0.911	-0.801	-0.590	-0.267	0.022	0.163	0.246	0.425	0.437	0.665	-1.240	-0.320
07/10/09	0.455	0.605	0.623	0.602	0.358	0.546	-0.202	-0.755	-0.798	-1.098	-1.198	-0.994	-1.184	-1.156	-1.010	-0.944	-0.704	-0.585	-0.309	-0.079	0.011	0.076	0.080	0.281	0.623	-1.198	-0.307
07/11/09	0.542	0.381	0.242	0.279	0.096	0.180	0.148	-0.434	-0.927	-1.134	-1.097	-1.128	-1.526	-1.332	-0.994	-0.805	-0.787	-0.446	-0.211	-0.019	0.083	0.068	0.154	0.252	0.542	-1.526	-0.351
07/12/09	0.229	0.107	0.243	0.986	0.616	0.360	-0.049	-0.438	-0.744	-0.758	-0.765	-0.855	-0.973	-0.866	-0.943	-0.994	-0.697	-0.510	-0.157	-0.004	0.040	0.060	0.028	0.018	0.986	-0.994	-0.253
07/13/09	0.028	0.051	0.049	0.165	0.405	0.672	0.071	-0.412	-0.567	-0.560	-0.713	-0.974	-1.084	-1.325	-1.109	-0.879	-0.734	-0.456	-0.204	-0.012	0.025	0.036	-0.048	0.004	0.672	-1.325	-0.315
07/14/09	0.153	0.484	0.383	0.546	0.378	0.448	0.070	-0.498	-0.581	-0.674	-0.929	-1.084	-0.976	-1.016	-1.022	-0.947	-0.654	-0.479	-0.212	-0.026	0.047	0.134	0.185	0.108	0.546	-1.084	-0.257
07/15/09	0.040	0.162	0.238	0.363	0.222	0.047	-0.073	-0.251	-0.487	-0.750	-0.830	-0.704	-0.797	-1.075	-0.985	-0.604	-0.315	-0.192	-0.165	-0.109	-0.030	-0.059	-0.034	-0.033	0.363	-1.075	-0.268
07/16/09	-0.030	0.198	0.127	0.174	0.190	0.501	0.030	-0.333	-0.667	-0.737	-0.926	-1.023	-1.192	-0.974	-0.974	-0.758	-0.609	-0.465	-0.208	-0.222	0.111	0.202	0.198	0.294	0.501	-1.192	-0.296
07/17/09	0.224	0.282	0.363	0.281	0.234	0.161	-0.257	-0.606	-0.871	-1.210	-1.144	-1.082	-1.193	-1.157	-1.091	-1.017	0.297	0.518	0.321	0.102	0.237	0.308	0.412	0.404	0.518	-1.210	-0.228
07/18/09	0.435	0.384	0.330	0.383	0.233	0.516	0.017	-0.550	-1.071	-1.411	-1.728	-1.648	-1.195	-1.254	-1.150	-1.129	-0.953	-0.682	0.923	0.724	0.254	0.422	0.693	0.256	0.923	-1.728	-0.300
07/19/09	0.261	0.464	1.030	0.883	0.618	0.519	0.255	-0.335	-0.796	-0.887	-0.973	-1.143	-1.079	-1.068	-1.028	-0.841	-0.708	-0.491	-0.163	0.010	-0.022	-0.016	0.125	0.062	1.030	-1.143	-0.222
07/20/09	0.031	0.019	0.006	0.043	0.043	0.089	-0.011	-0.143	-0.745	-0.579	-0.805	-0.909	-0.970	-1.087	-0.844	-0.796	-0.656	-0.343	0.246	0.205	0.624	0.278	0.124	0.190	0.624	-1.087	-0.250
07/21/09	0.161	0.189	0.286	0.208	0.290	0.531	0.000	0.050	-0.093	-0.123	-0.208	-0.356	-0.457	-0.733	-0.784	-0.682	-0.733	-0.454	-0.188	-0.010	0.071	0.173	0.311	0.495	0.531	-0.784	-0.086
07/22/09	0.102	-0.037	0.201	0.456	0.503	0.416	0.014	-0.402	-0.523	-0.878	-0.671	-0.988	-1.080	-1.269	-1.163	-0.767	-0.751	-0.780	-0.309	-0.244	-0.138	-0.138	-0.077	-0.038	0.503	-1.269	-0.357
07/23/09	-0.056	-0.051	0.094	0.049	0.028	-0.021	-0.103	-0.253	-0.780	-1.106	-1.163	-1.282	-1.412	-1.280	-0.858	-0.797	-0.661	-0.559	-0.264	-0.118	-0.025	-0.060	0.153	0.603	0.603	-1.412	-0.413
07/24/09	0.178	0.254	0.166	0.247	0.190	0.044	-0.027	-0.115	-0.716	-0.630	-0.517	-0.597	-0.888	-1.005	-0.864	-0.886	-0.673	-0.531	-0.170	-0.050	0.011	0.177	0.197	0.234	0.254	-1.005	-0.249
07/25/09	0.228	0.244	0.273	0.382	0.421	0.195	-0.208	-0.492	-0.800	-0.682	-0.922	-0.777	-0.143	-0.158	-0.729	-0.470	-0.127	-0.013	0.233	0.357	0.288	0.286	0.231	0.285	0.421	-0.922	-0.087
07/26/09	0.414	0.366	0.287	0.192	0.146	0.279	0.586	-0.062	-0.280	-0.427	-0.589	-0.824	-0.961	-0.985	-0.873	-0.803	-0.706	-0.425	-0.140	0.034	0.065	0.149	0.209	0.156	0.586	-0.985	-0.175
07/27/09	0.115	0.095	0.112	0.167	0.370	0.326	0.070	-0.276	-0.306	-0.578	-0.667	-0.859	-0.864	-0.901	-0.889	-0.799	-0.601	-0.415	-0.123	0.033	0.095	0.125	0.111	0.082	0.370	-0.901	-0.232
07/28/09	0.131	0.111	0.076	0.187	0.156	0.233	0.134	-0.213	-0.413	-0.592	-0.823	-1.045	-0.949	-0.842	-0.847	-0.679	-0.594	-0.370	-0.122	-0.007	0.094	0.060	0.153	0.139	0.233	-1.045	-0.251
07/29/09	0.211	0.246	0.231	0.229	0.157	0.209	0.069	-0.223	-0.547	-0.750	-0.966	-1.093	-1.125	-1.086	-0.969	-0.648	-0.587	-0.434	-0.122	-0.015	0.049	-0.024	-0.039	0.011	0.246	-1.125	-0.301
07/30/09	0.060	0.118	0.144	0.165	0.111	0.143	0.136	-0.233	-0.658	-0.868	-1.064	-1.053	-1.049	-1.123	-0.917	-0.881	-0.655	-0.490	-0.231	0.044	0.151	0.494	0.368	0.585	0.585	-1.123	-0.279
07/31/09	1.224	0.366	0.198	0.174	0.298	0.520	0.095	-0.539	-0.677	-0.524	-0.709	-1.015	-1.107	-1.213	-1.087	-0.892	-0.759	-0.542	-0.188	0.016	0.055	0.434	0.771	0.921	1.224	-1.213	-0.174
Hourly Averages	0.196	0.219	0.223	0.285	0.266	0.286	0.013	-0.329	-0.605	-0.762	-0.890	-0.992	-1.006	-1.055	-0.998	-0.856	-0.658	-0.453	-0.128	0.006	0.074	0.119	0.183	0.211			

Maximum Hourly Differential Temperature: 1.224 **Minimum Hourly Differential Temperature:** -1.728

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	27.7	28.0	28.3	26.3	25.9	27.0	26.1	26.1	27.0	28.0	29.5	31.0	32.1	33.0	33.6	33.8	33.9	33.6	33.0	32.0	31.4	31.2	31.1	30.9	33.9	25.9	30.0
08/02/09	30.7	30.1	28.2	26.9	26.2	26.4	25.7	26.2	28.2	29.8	31.4	32.4	33.2	33.9	34.7	34.8	34.7	34.5	33.9	33.0	32.0	29.6	28.6	28.4	34.8	25.7	30.6
08/03/09	28.0	28.0	26.6	27.4	26.8	26.4	26.3	27.3	28.4	29.6	30.6	32.1	32.9	34.0	34.6	35.0	35.1	35.0	34.4	33.5	32.9	32.2	31.9	31.5	35.1	26.3	30.9
08/04/09	31.0	27.8	26.7	26.1	25.5	24.9	24.9	25.1	26.3	27.8	29.1	30.3	31.8	32.5	33.3	33.8	34.1	33.9	33.4	32.9	32.4	30.2	29.7	30.5	34.1	24.9	29.7
08/05/09	30.3	29.6	28.8	29.0	29.1	28.7	28.0	27.6	29.6	30.6	31.9	33.1	34.0	34.2	34.9	34.7	34.8	34.5	34.1	33.3	32.6	31.6	29.2	28.6	34.9	27.6	31.4
08/06/09	28.4	26.7	24.4	24.6	24.7	24.7	24.6	25.4	27.3	28.7	28.7	29.8	31.0	31.8	32.3	32.3	32.5	32.2	31.3	30.5	29.7	29.2	28.3	27.9	32.5	24.4	28.6
08/07/09	27.3	27.0	26.6	25.7	25.1	24.8	24.8	25.0	25.4	26.3	27.1	27.8	28.5	28.8	29.5	30.1	29.9	29.4	28.4	27.4	26.4	25.9	25.2	22.7	30.1	22.7	26.9
08/08/09	22.4	23.4	22.3	21.6	20.9	20.7	20.8	22.3	24.8	25.9	26.6	27.4	28.2	28.7	29.2	29.5	29.6	29.4	28.9	28.3	27.5	25.9	25.3	24.9	29.6	20.7	25.6
08/09/09	24.9	24.1	23.2	22.7	22.4	22.0	21.9	23.2	25.1	26.6	27.7	28.4	29.0	29.9	30.1	30.2	30.4	30.4	29.9	29.3	28.5	26.6	25.8	25.7	30.4	21.9	26.6
08/10/09	25.9	26.3	24.9	25.4	24.2	22.8	22.6	24.3	26.3	27.0	27.9	28.5	29.4	30.3	31.1	31.5	31.7	31.6	31.1	30.2	29.5	29.3	29.1	29.0	31.7	22.6	27.9
08/11/09	27.1	25.0	24.1	23.3	23.1	22.9	22.9	23.8	25.1	26.7	27.7	29.0	30.1	30.3	29.7	30.1	30.5	29.6	28.9	28.6	28.4	28.0	27.5	27.0	30.5	22.9	27.0
08/12/09	27.9	27.4	26.9	26.1	26.9	25.2	25.6	27.2	28.7	29.2	30.5	31.1	31.9	32.4	32.8	32.6	31.7	28.9	28.3	27.4	26.9	27.2	26.8	25.7	32.8	25.2	28.6
08/13/09	24.9	23.1	23.1	22.6	22.0	20.9	21.3	22.5	22.5	22.6	22.6	22.6	23.5	23.7	24.1	23.2	22.4	22.1	21.8	21.6	21.1	21.1	21.1	20.8	24.9	20.8	22.4
08/14/09	20.4	20.0	19.9	19.6	19.3	19.1	19.4	21.1	23.2	24.6	26.1	27.3	28.1	28.8	29.6	29.6	30.0	29.7	29.2	29.0	28.6	27.4	26.1	25.9	30.0	19.1	25.1
08/15/09	26.4	25.9	25.6	25.0	24.6	24.2	24.4	25.2	26.0	26.8	27.6	28.8	29.6	29.9	30.4	31.0	31.1	31.0	30.9	30.1	29.5	28.7	28.5	27.2	31.1	24.2	27.8
08/16/09	26.8	26.1	25.3	25.1	25.4	23.6	23.6	25.1	26.7	27.6	28.6	29.4	30.2	30.9	31.2	31.5	31.3	31.1	30.6	30.0	28.7	26.6	26.1	25.8	31.5	23.6	27.8
08/17/09	26.3	25.4	25.5	26.2	24.9	23.1	22.7	25.0	27.3	29.0	30.6	31.3	31.8	32.3	32.6	32.7	32.5	32.5	32.1	31.4	29.8	27.9	27.9	27.6	32.7	22.7	28.7
08/18/09	29.0	28.8	26.7	26.7	25.3	24.9	25.3	26.8	29.1	29.3	30.2	31.6	32.3	32.6	32.9	32.8	32.7	32.5	31.9	31.3	30.8	30.4	30.3	29.9	32.9	24.9	29.8
08/19/09	29.1	28.7	27.4	26.1	25.1	24.2	24.0	23.9	24.2	25.1	26.5	28.0	28.9	30.0	30.3	30.8	31.1	31.0	30.4	29.7	29.3	29.0	28.9	28.8	31.1	23.9	27.9
08/20/09	28.4	28.1	26.9	26.4	25.9	25.4	24.8	24.7	25.3	26.5	28.2	29.4	30.7	31.6	32.2	32.7	33.0	32.8	32.3	31.6	31.0	31.0	30.9	30.2	33.0	24.7	29.2
08/21/09	27.6	26.0	25.6	25.5	25.0	24.2	24.3	25.5	26.8	27.3	28.6	30.0	30.7	31.6	32.3	31.6	28.5	29.7	27.4	27.2	26.1	22.3	22.6	22.3	32.3	22.3	27.0
08/22/09	21.4	21.2	21.0	21.4	21.5	20.6	20.3	21.0	22.1	22.8	23.7	24.5	25.0	25.5	25.5	25.6	25.2	25.4	25.0	24.0	22.9	22.4	22.2	21.5	25.6	20.3	23.0
08/23/09	21.9	21.5	21.1	20.4	20.6	20.5	20.7	22.4	23.8	25.4	26.3	27.4	28.3	28.8	29.1	29.5	29.7	29.4	28.6	27.9	27.3	26.9	26.1	25.7	29.7	20.4	25.4
08/24/09	24.0	23.6	22.2	21.9	21.8	21.2	21.3	22.2	23.2	24.3	25.8	26.9	27.9	28.8	29.1	28.6	29.0	29.5	29.0	28.4	27.9	25.5	24.2	23.7	29.5	21.2	25.4
08/25/09	23.3	23.1	22.8	22.0	21.4	21.1	21.5	22.3	23.8	25.3	26.8	27.8	28.3	29.1	28.0	24.7	26.8	28.0	27.8	26.6	24.9	24.6	24.1	24.4	29.1	21.1	24.9
08/26/09	22.8	22.9	22.3	21.9	22.1	22.4	21.5	23.1	25.2	26.7	28.6	29.6	30.8	31.3	32.0	32.4	32.4	32.0	31.0	30.2	29.7	29.5	29.2	29.4	32.4	21.5	27.5
08/27/09	29.2	28.8	27.3	26.4	25.7	25.6	25.0	26.0	28.5	31.2	32.0	32.7	33.3	33.8	34.0	34.3	34.1	34.0	33.2	32.5	32.3	32.2	31.8	31.5	34.3	25.0	30.6
08/28/09	31.3	28.1	27.3	26.1	25.6	25.6	25.3	27.1	28.8	30.3	31.4	32.2	33.1	34.0	33.9	33.9	34.6	33.6	32.5	31.2	30.0	29.5	29.0	28.4	34.6	25.3	30.1
08/29/09	28.6	29.1	28.5	26.7	25.1	25.3	24.9	27.2	29.6	30.4	31.2	32.3	32.9	33.7	34.0	34.6	34.5	34.2	33.5	32.5	31.0	30.3	29.4	29.2	34.6	24.9	30.4
08/30/09	29.1	27.9	27.2	27.3	26.0	26.6	26.4	26.7	27.4	29.6	30.3	31.2	32.1	32.3	32.8	33.1	33.1	33.0	30.7	29.6	28.8	28.3	28.0	26.9	33.1	26.0	29.3
08/31/09	26.2	25.4	25.6	25.4	24.0	24.6	25.4	26.7	27.5	29.3	30.2	31.2	31.9	32.3	32.9	32.5	32.2	31.6	31.0	29.4	27.0	25.5	25.6	25.3	32.9	24.0	28.3
Hourly Averages	26.7	26.0	25.2	24.8	24.3	23.9	23.7	24.8	26.2	27.4	28.5	29.5	30.4	31.0	31.4	31.4	31.4	31.2	30.5	29.7	28.9	27.9	27.4	27.0			

Maximum Hourly Temperature: 35.1 **Minimum Hourly Temperature:** 19.1 **Average Monthly Temperature:** 27.9

Maximum 24-Hour Mean: 31.4 **Minimum 24-Hour Mean:** 22.4

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	27.0	26.5	27.5	25.4	25.4	26.0	25.7	26.4	27.3	28.4	30.2	32.0	33.2	34.0	34.6	34.6	34.6	34.0	33.1	32.0	31.4	31.2	31.1	30.8	34.6	25.4	30.1
08/02/09	30.5	29.8	27.6	26.3	25.3	25.4	25.3	26.6	29.0	30.7	32.6	33.5	34.2	35.0	35.6	35.7	35.3	34.9	34.0	33.0	31.9	29.5	28.4	28.1	35.7	25.3	30.8
08/03/09	27.6	27.3	26.1	26.9	26.4	25.8	25.9	27.7	28.9	30.2	31.5	33.2	33.9	35.3	35.7	35.8	35.7	35.4	34.5	33.5	32.8	32.2	31.8	31.5	35.8	25.8	31.1
08/04/09	31.0	27.8	26.7	26.1	25.5	24.9	24.9	25.3	26.7	28.4	30.0	31.2	32.8	33.4	34.4	34.6	34.8	34.4	33.7	32.9	32.4	30.2	29.8	30.4	34.8	24.9	30.1
08/05/09	30.3	29.5	28.6	28.7	29.1	28.7	27.8	27.9	30.2	31.3	32.8	34.1	35.1	35.3	36.1	35.5	35.5	35.1	34.4	33.4	32.5	31.5	29.2	28.6	36.1	27.8	31.7
08/06/09	28.5	26.8	24.4	24.6	24.8	24.7	24.7	26.0	28.3	29.7	29.4	31.0	32.3	32.9	33.3	33.1	33.2	32.6	31.5	30.5	29.7	29.1	28.2	27.6	33.3	24.4	29.0
08/07/09	27.0	26.7	26.2	25.4	24.7	24.5	24.7	25.3	26.0	27.2	28.1	28.8	29.5	29.7	30.3	30.9	30.6	29.8	28.5	27.3	26.4	25.5	24.6	22.2	30.9	22.2	27.1
08/08/09	21.9	22.3	21.3	20.9	20.4	20.3	20.6	22.9	25.5	26.7	27.6	28.4	29.2	29.8	30.2	30.4	30.2	29.8	29.1	28.2	27.3	25.5	24.9	24.3	30.4	20.3	25.7
08/09/09	24.3	23.5	22.6	22.4	21.6	21.6	21.8	23.7	26.0	27.5	28.7	29.6	30.3	31.0	31.1	31.2	31.3	30.9	30.1	29.3	28.3	26.2	25.2	25.1	31.3	21.6	26.8
08/10/09	25.1	25.4	24.3	24.8	23.1	22.2	22.4	24.8	26.8	27.7	28.8	29.6	30.7	31.5	32.1	32.5	32.4	32.2	31.2	30.2	29.5	29.2	29.0	28.9	32.5	22.2	28.1
08/11/09	27.1	25.0	24.1	23.4	23.2	22.9	22.9	24.1	25.5	27.4	28.3	30.0	31.1	31.2	30.2	30.7	31.1	29.8	29.0	28.6	28.4	27.9	27.0	26.7	31.2	22.9	27.3
08/12/09	26.9	26.7	26.2	25.7	26.4	24.7	25.3	27.5	29.2	29.8	31.3	32.1	32.9	33.7	33.7	33.2	32.4	29.5	28.5	27.5	27.0	27.2	26.9	25.8	33.7	24.7	28.8
08/13/09	24.9	22.9	23.1	22.7	22.0	21.1	21.3	22.8	22.8	23.0	23.0	23.1	24.0	24.1	24.6	23.7	22.9	22.5	22.1	21.8	21.2	21.1	21.0	20.7	24.9	20.7	22.6
08/14/09	20.2	19.7	19.7	19.3	19.1	18.7	19.6	21.7	23.9	25.7	26.9	28.4	29.1	30.0	30.6	30.3	30.7	30.1	29.4	29.0	28.5	27.2	25.8	25.6	30.7	18.7	25.4
08/15/09	26.2	25.6	25.0	24.4	24.0	23.6	24.2	25.4	26.6	27.6	28.6	29.9	30.8	31.0	31.4	31.8	31.8	31.4	30.9	30.1	29.3	28.2	28.3	26.4	31.8	23.6	28.0
08/16/09	26.2	25.6	24.5	24.3	24.7	22.7	23.0	25.5	27.3	28.5	29.7	30.5	31.3	32.0	32.2	32.4	32.1	31.6	30.7	29.8	28.3	26.0	25.7	25.4	32.4	22.7	27.9
08/17/09	25.7	24.7	24.7	25.7	23.8	22.2	22.2	25.4	28.1	30.0	31.9	32.6	33.0	33.5	33.7	33.7	33.2	32.9	32.1	31.3	29.6	27.5	27.3	27.1	33.7	22.2	28.8
08/18/09	28.3	28.2	25.9	25.8	24.7	23.7	24.7	26.9	29.6	29.9	30.9	32.7	33.4	33.7	33.9	33.7	33.4	33.0	32.1	31.3	30.7	30.3	30.2	29.8	33.9	23.7	29.9
08/19/09	28.9	28.5	27.4	26.1	25.0	24.1	24.1	24.3	24.8	25.9	27.4	29.1	29.9	31.1	31.3	31.6	31.7	31.5	30.6	29.7	29.3	29.0	28.9	28.7	31.7	24.1	28.3
08/20/09	28.3	28.0	26.9	26.4	25.9	25.4	24.8	25.0	25.8	27.1	29.0	30.3	31.7	32.5	33.2	33.5	33.6	33.2	32.4	31.6	31.0	31.0	30.9	30.1	33.6	24.8	29.5
08/21/09	27.6	26.0	25.5	25.4	24.9	24.0	24.3	25.9	27.3	27.9	29.5	31.0	31.6	32.6	33.4	32.1	28.2	29.7	27.3	27.0	25.6	22.2	22.5	22.2	33.4	22.2	27.2
08/22/09	21.4	21.2	20.9	21.3	21.5	20.6	20.4	21.1	22.4	23.3	24.6	25.3	25.6	26.3	26.1	26.2	25.5	25.9	25.2	24.1	22.9	22.3	22.1	21.4	26.3	20.4	23.2
08/23/09	21.7	21.2	20.8	20.2	20.3	20.4	20.7	23.0	24.8	26.6	27.2	28.5	29.5	30.1	30.1	30.3	30.4	30.0	28.7	28.0	27.3	26.9	26.1	25.5	30.4	20.2	25.8
08/24/09	23.9	23.4	22.1	21.8	21.7	21.0	21.4	22.8	24.0	25.4	27.0	27.9	29.2	30.2	30.6	29.8	30.0	30.0	29.1	28.4	27.8	25.5	24.1	23.5	30.6	21.0	25.9
08/25/09	23.1	22.9	22.4	21.6	21.0	20.8	21.6	22.9	24.8	26.5	27.9	28.7	29.4	30.3	28.8	24.6	27.2	28.3	27.8	26.4	24.6	24.3	23.7	23.8	30.3	20.8	25.1
08/26/09	22.5	22.4	21.7	21.6	21.8	22.2	21.5	23.6	26.0	28.0	30.0	31.2	32.2	32.6	33.1	33.5	33.2	32.5	31.1	30.2	29.6	29.3	29.0	29.2	33.5	21.5	27.8
08/27/09	29.0	28.7	26.8	25.7	25.1	24.9	24.6	26.4	29.3	32.3	33.0	33.7	34.4	34.9	35.0	35.1	34.7	34.3	33.3	32.5	32.1	32.1	31.6	31.3	35.1	24.6	30.9
08/28/09	31.0	27.6	26.9	25.9	25.3	25.4	25.3	27.5	29.4	31.2	32.5	33.3	34.4	35.2	34.8	34.7	35.4	33.7	32.3	30.8	29.7	29.1	28.6	28.0	35.4	25.3	30.3
08/29/09	28.2	28.6	27.6	26.1	24.6	24.6	24.6	27.6	30.4	31.4	32.4	33.6	34.3	35.1	35.1	35.8	35.3	34.6	33.6	32.3	30.6	29.8	29.0	28.6	35.8	24.6	30.6
08/30/09	28.4	27.1	26.7	26.6	25.6	25.7	25.8	26.9	28.0	30.5	31.0	32.3	33.2	33.4	33.9	33.9	33.7	33.4	31.0	29.8	28.8	28.1	27.6	26.7	33.9	25.6	29.5
08/31/09	26.0	25.2	25.2	24.9	23.7	24.2	25.3	26.9	28.3	30.1	31.3	32.4	33.0	33.5	34.0	33.2	32.8	31.8	31.1	29.4	27.0	25.0	25.4	25.1	34.0	23.7	28.5
Hourly Averages	26.4	25.6	24.8	24.4	23.9	23.4	23.6	25.2	26.9	28.2	29.4	30.6	31.5	32.1	32.4	32.2	32.0	31.6	30.6	29.7	28.7	27.7	27.2	26.7			

Maximum Hourly Temperature: 36.1 **Minimum Hourly Temperature:** 18.7 **Average Monthly Temperature:** 28.1

Maximum 24-Hour Mean: 31.7 **Minimum 24-Hour Mean:** 22.6

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	0.684	1.471	0.862	0.920	0.502	0.968	0.404	-0.289	-0.315	-0.476	-0.735	-0.956	-1.054	-1.035	-0.967	-0.808	-0.677	-0.448	-0.155	0.004	0.020	0.042	0.043	0.097	1.471	-1.054	-0.079
08/02/09	0.147	0.327	0.630	0.618	0.847	0.978	0.458	-0.376	-0.846	-0.936	-1.191	-1.104	-1.067	-1.105	-0.943	-0.871	-0.665	-0.394	-0.158	0.001	0.070	0.117	0.231	0.266	0.978	-1.191	-0.207
08/03/09	0.423	0.640	0.579	0.501	0.404	0.545	0.401	-0.448	-0.493	-0.625	-0.823	-1.083	-0.988	-1.212	-1.065	-0.847	-0.661	-0.436	-0.130	-0.011	0.029	0.038	0.100	0.095	0.640	-1.212	-0.211
08/04/09	0.034	-0.053	-0.051	-0.004	0.012	0.034	-0.080	-0.237	-0.408	-0.680	-0.867	-0.929	-1.008	-0.913	-1.014	-0.820	-0.744	-0.528	-0.212	-0.016	0.016	-0.040	-0.050	0.034	0.034	-1.014	-0.355
08/05/09	0.017	0.026	0.152	0.246	-0.005	0.015	0.167	-0.235	-0.595	-0.730	-0.900	-1.052	-1.137	-1.064	-1.204	-0.795	-0.707	-0.541	-0.252	-0.058	0.068	0.050	-0.043	0.012	0.246	-1.204	-0.357
08/06/09	-0.022	-0.112	0.021	-0.078	-0.061	-0.049	-0.139	-0.577	-0.920	-0.996	-0.651	-1.193	-1.250	-1.097	-0.963	-0.787	-0.718	-0.400	-0.136	0.003	0.031	0.056	0.163	0.272	0.272	-1.250	-0.400
08/07/09	0.285	0.275	0.330	0.310	0.372	0.374	0.161	-0.289	-0.570	-0.873	-1.041	-1.008	-0.985	-0.870	-0.820	-0.862	-0.683	-0.450	-0.156	0.057	0.045	0.326	0.603	0.537	0.603	-1.041	-0.205
08/08/09	0.492	1.058	0.944	0.704	0.485	0.433	0.223	-0.548	-0.751	-0.829	-1.007	-1.032	-1.053	-1.096	-1.055	-0.915	-0.655	-0.438	-0.167	0.119	0.190	0.388	0.446	0.594	1.058	-1.096	-0.145
08/09/09	0.571	0.633	0.645	0.276	0.768	0.411	0.047	-0.577	-0.904	-0.906	-0.966	-1.149	-1.228	-1.095	-1.058	-0.951	-0.808	-0.541	-0.152	0.085	0.197	0.371	0.650	0.555	0.768	-1.228	-0.214
08/10/09	0.794	0.965	0.648	0.598	1.051	0.524	0.243	-0.558	-0.440	-0.740	-0.927	-1.133	-1.266	-1.247	-0.977	-1.009	-0.717	-0.526	-0.171	-0.013	0.016	0.076	0.119	0.110	1.051	-1.266	-0.191
08/11/09	0.043	0.007	-0.028	-0.030	-0.044	0.060	0.016	-0.291	-0.395	-0.758	-0.563	-0.995	-1.068	-0.924	-0.535	-0.602	-0.587	-0.224	-0.138	-0.094	0.028	0.152	0.433	0.265	0.433	-1.068	-0.261
08/12/09	1.002	0.677	0.736	0.444	0.469	0.500	0.379	-0.296	-0.521	-0.576	-0.751	-1.001	-1.091	-1.296	-0.951	-0.642	-0.726	-0.546	-0.213	-0.122	-0.103	-0.055	-0.095	-0.112	1.002	-1.296	-0.204
08/13/09	-0.020	0.129	-0.050	-0.051	-0.057	-0.130	-0.025	-0.232	-0.310	-0.413	-0.399	-0.496	-0.502	-0.428	-0.532	-0.493	-0.512	-0.399	-0.254	-0.139	-0.053	0.019	0.046	0.112	0.129	-0.532	-0.216
08/14/09	0.136	0.290	0.187	0.242	0.236	0.395	-0.135	-0.636	-0.791	-1.122	-0.838	-1.116	-0.970	-1.113	-1.043	-0.676	-0.638	-0.384	-0.146	-0.013	0.107	0.164	0.311	0.299	0.395	-1.122	-0.302
08/15/09	0.126	0.350	0.669	0.623	0.625	0.556	0.250	-0.260	-0.584	-0.770	-0.988	-1.091	-1.158	-1.076	-1.054	-0.829	-0.690	-0.406	-0.077	0.041	0.143	0.459	0.222	0.765	0.765	-1.158	-0.173
08/16/09	0.606	0.498	0.815	0.742	0.698	0.933	0.553	-0.416	-0.618	-0.921	-1.049	-1.049	-1.074	-1.185	-0.987	-0.900	-0.806	-0.463	-0.078	0.164	0.352	0.547	0.329	0.436	0.933	-1.185	-0.120
08/17/09	0.562	0.631	0.790	0.506	1.066	0.959	0.441	-0.437	-0.861	-0.966	-1.247	-1.333	-1.243	-1.147	-1.047	-0.970	-0.712	-0.474	-0.078	0.083	0.253	0.320	0.670	0.497	1.066	-1.333	-0.156
08/18/09	0.716	0.531	0.861	0.897	0.641	1.145	0.664	-0.128	-0.495	-0.618	-0.732	-1.078	-1.096	-1.064	-1.038	-0.889	-0.681	-0.467	-0.120	0.039	0.182	0.148	0.128	0.110	1.145	-1.096	-0.098
08/19/09	0.211	0.200	0.046	0.046	0.098	0.103	-0.057	-0.372	-0.646	-0.727	-0.893	-1.065	-1.000	-1.106	-1.039	-0.813	-0.677	-0.458	-0.146	-0.010	0.016	0.006	-0.003	0.061	0.211	-1.106	-0.343
08/20/09	0.086	0.085	0.008	0.001	0.024	0.022	-0.013	-0.255	-0.519	-0.626	-0.790	-0.881	-1.033	-0.949	-0.968	-0.816	-0.619	-0.461	-0.118	-0.002	0.025	0.050	0.069	0.084	0.086	-1.033	-0.316
08/21/09	-0.006	0.034	0.046	0.097	0.129	0.226	0.082	-0.436	-0.584	-0.530	-0.844	-1.020	-0.930	-1.048	-1.145	-0.510	0.308	-0.037	0.106	0.140	0.483	0.031	0.118	0.073	0.483	-1.145	-0.217
08/22/09	-0.008	0.000	0.080	0.100	0.063	0.017	-0.074	-0.178	-0.313	-0.532	-0.920	-0.867	-0.618	-0.762	-0.549	-0.601	-0.361	-0.505	-0.202	-0.078	0.002	0.075	0.147	0.077	0.147	-0.920	-0.250
08/23/09	0.206	0.272	0.271	0.200	0.214	0.164	-0.098	-0.598	-1.072	-1.170	-0.937	-1.071	-1.156	-1.277	-0.971	-0.795	-0.673	-0.551	-0.150	-0.061	0.049	0.003	0.012	0.132	0.272	-1.277	-0.377
08/24/09	0.147	0.142	0.082	0.127	0.140	0.185	-0.138	-0.599	-0.862	-1.057	-1.200	-1.015	-1.284	-1.441	-1.539	-1.192	-0.957	-0.534	-0.144	0.050	0.080	-0.013	0.055	0.136	0.185	-1.539	-0.451
08/25/09	0.161	0.149	0.426	0.433	0.458	0.355	-0.032	-0.580	-0.985	-1.230	-1.103	-0.989	-1.095	-1.157	-0.744	0.063	-0.400	-0.312	0.002	0.294	0.305	0.266	0.381	0.547	0.547	-1.230	-0.199
08/26/09	0.375	0.465	0.571	0.331	0.325	0.276	-0.002	-0.463	-0.844	-1.273	-1.352	-1.645	-1.390	-1.301	-1.063	-1.073	-0.787	-0.445	-0.077	0.038	0.113	0.133	0.192	0.220	0.571	-1.645	-0.361
08/27/09	0.158	0.181	0.540	0.724	0.597	0.770	0.402	-0.370	-0.799	-1.149	-0.980	-0.948	-1.090	-1.093	-0.912	-0.743	-0.575	-0.378	-0.055	0.025	0.107	0.138	0.152	0.135	0.770	-1.149	-0.215
08/28/09	0.251	0.492	0.369	0.265	0.230	0.212	-0.005	-0.399	-0.628	-0.811	-1.097	-1.151	-1.289	-1.260	-0.900	-0.793	-0.825	-0.105	0.216	0.388	0.298	0.434	0.347	0.369	0.492	-1.289	-0.225
08/29/09	0.447	0.479	0.841	0.605	0.570	0.709	0.263	-0.422	-0.809	-0.955	-1.150	-1.341	-1.429	-1.382	-1.138	-1.137	-0.776	-0.452	-0.159	0.170	0.324	0.449	0.443	0.646	0.841	-1.429	-0.217
08/30/09	0.670	0.801	0.510	0.674	0.470	0.887	0.612	-0.208	-0.605	-0.881	-0.772	-1.109	-1.122	-1.012	-1.109	-0.817	-0.610	-0.457	-0.302	-0.158	0.008	0.225	0.481	0.211	0.887	-1.122	-0.151
08/31/09	0.204	0.256	0.411	0.514	0.347	0.332	0.162	-0.288	-0.815	-0.794	-1.095	-1.225	-1.105	-1.144	-1.064	-0.670	-0.590	-0.229	-0.063	-0.013	0.041	0.457	0.208	0.201	0.514	-1.225	-0.248
Hourly Averages	0.306	0.384	0.417	0.374	0.377	0.416	0.165	-0.387	-0.655	-0.828	-0.929	-1.069	-1.090	-1.094	-0.980	-0.792	-0.643	-0.419	-0.125	0.029	0.111	0.175	0.223	0.253			

Maximum Hourly Differential Temperature: 1.471 **Minimum Hourly Differential Temperature:** -1.645

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	24.1	23.7	23.7	23.8	23.6	23.7	24.2	25.4	25.5	25.6	26.3	27.5	28.8	30.1	31.0	30.6	31.0	30.8	30.0	29.6	29.3	28.4	27.0	26.5	31.0	23.6	27.1
09/02/09	26.3	25.9	25.1	23.9	23.4	22.4	22.2	22.8	24.7	26.4	27.1	28.7	29.8	30.3	30.7	30.3	30.1	29.8	29.5	29.1	28.8	28.1	26.8	25.9	30.7	22.2	27.0
09/03/09	25.4	25.0	24.6	24.3	24.2	23.9	24.0	24.3	25.3	26.2	27.5	28.4	29.2	29.8	30.3	30.6	22.6	25.1	25.1	23.1	22.0	21.7	21.2	21.1	30.6	21.1	25.2
09/04/09	22.6	20.7	20.3	19.8	20.0	21.7	20.5	21.6	23.0	23.7	25.2	26.2	27.1	27.9	28.0	28.5	28.5	26.8	25.6	22.6	23.4	23.5	22.1	22.0	28.5	19.8	23.8
09/05/09	21.8	22.3	21.2	21.0	21.3	20.6	19.8	19.0	18.9	18.4	19.0	19.7	21.4	23.6	24.1	22.1	24.5	24.6	23.3	22.7	22.5	22.3	22.0	21.9	24.6	18.4	21.6
09/06/09	21.2	21.3	20.5	20.4	20.1	20.5	20.1	21.7	23.7	24.8	25.0	24.1	25.0	26.1	26.5	27.1	27.4	27.2	26.8	26.2	25.7	25.3	24.5	23.2	27.4	20.1	23.9
09/07/09	22.1	21.2	20.9	20.1	20.1	20.5	20.9	22.0	23.5	24.2	25.0	26.4	26.6	25.2	26.6	27.4	27.8	27.7	27.2	26.5	26.2	25.9	25.6	25.3	27.8	20.1	24.4
09/08/09	24.8	24.1	24.7	24.5	23.0	21.8	21.6	22.3	24.2	25.1	26.1	27.0	27.6	28.3	28.4	28.4	28.0	27.7	26.0	23.3	20.1	20.9	19.9	20.4	28.4	19.9	24.5
09/09/09	20.7	21.6	20.0	20.6	20.8	21.3	19.9	21.5	23.7	24.3	25.2	26.3	27.0	27.6	28.2	28.5	28.5	28.5	26.8	25.4	24.3	24.4	24.3	23.3	28.5	19.9	24.3
09/10/09	22.3	22.4	22.8	22.9	22.0	21.6	20.6	22.5	24.6	26.3	27.6	28.8	29.3	30.2	30.5	30.7	30.7	30.3	29.5	28.2	26.9	25.2	25.0	24.4	30.7	20.6	26.1
09/11/09	24.3	23.7	23.2	22.3	21.9	21.4	21.5	22.6	24.0	25.6	27.1	28.1	29.1	26.6	27.8	29.4	28.8	28.1	26.7	26.2	25.6	24.8	23.8	23.0	29.4	21.4	25.2
09/12/09	22.6	22.1	21.7	20.8	20.6	20.3	20.1	21.1	23.0	24.9	26.1	26.9	27.8	28.7	29.4	29.3	28.9	29.1	28.6	26.2	25.1	23.5	22.9	23.2	29.4	20.1	24.7
09/13/09	23.2	22.4	22.1	21.9	21.5	20.7	20.8	21.4	23.2	24.4	25.4	26.2	26.9	27.9	28.2	28.7	29.1	28.7	28.0	25.9	25.3	25.1	23.3	22.5	29.1	20.7	24.7
09/14/09	22.7	21.8	21.7	21.7	20.8	20.9	20.6	21.2	23.0	24.1	24.4	25.9	27.1	27.7	28.5	28.5	28.7	28.3	27.8	27.2	26.5	25.4	24.5	24.0	28.7	20.6	24.7
09/15/09	23.6	23.4	22.6	22.3	22.0	21.4	20.3	20.7	22.9	23.6	24.6	25.8	26.5	27.1	27.4	27.5	27.7	27.6	27.0	26.4	25.7	24.7	23.9	23.0	27.7	20.3	24.5
09/16/09	23.1	22.5	21.3	20.8	20.0	19.9	19.9	20.8	23.1	24.1	24.8	25.9	26.4	26.8	26.9	27.0	26.8	26.5	25.8	25.2	23.3	23.2	22.0	21.3	27.0	19.9	23.6
09/17/09	21.2	20.5	19.5	19.3	19.5	18.4	19.4	20.8	21.9	23.7	24.9	25.9	27.0	27.3	28.0	25.8	24.4	24.4	23.6	23.4	22.7	21.0	20.2	19.6	28.0	18.4	22.6
09/18/09	19.1	18.6	18.0	17.3	17.1	16.9	16.9	18.1	19.5	20.5	21.9	23.2	24.9	25.4	26.0	26.5	26.3	26.4	26.0	25.3	24.8	23.9	22.9	22.2	26.5	16.9	22.0
09/19/09	21.3	21.3	21.3	20.7	20.3	20.2	20.2	21.0	22.7	24.2	25.4	26.4	27.0	22.6	24.3	24.8	21.4	20.0	21.4	21.7	18.2	18.0	18.6	18.9	27.0	18.0	21.7
09/20/09	18.9	18.4	17.7	18.0	18.2	17.1	17.4	19.2	21.5	23.8	25.3	26.5	27.4	28.3	28.6	28.6	28.4	28.0	27.3	26.9	26.5	26.7	26.0	26.2	28.6	17.1	23.8
09/21/09	26.0	26.1	25.5	25.1	23.7	23.1	23.0	21.9	23.9	25.5	26.4	27.4	28.2	28.9	29.4	29.6	29.6	29.2	28.6	27.9	27.6	27.5	27.2	26.1	29.6	21.9	26.6
09/22/09	23.8	23.7	23.2	22.2	20.6	19.5	18.9	19.2	19.9	21.0	22.4	23.6	24.6	25.6	25.9	26.0	25.6	24.9	23.4	22.1	21.5	20.9	19.3	19.2	26.0	18.9	22.4
09/23/09	19.1	18.2	17.7	16.9	16.5	15.9	15.7	16.5	17.0	18.6	19.9	21.4	22.4	23.1	23.7	24.1	24.4	24.2	23.3	22.3	21.2	20.4	20.4	19.6	24.4	15.7	20.1
09/24/09	19.3	18.7	18.3	18.5	17.9	17.7	17.7	18.8	20.0	20.8	21.8	23.0	24.5	25.5	26.1	26.5	26.9	26.6	26.0	24.8	23.1	22.2	23.0	23.3	26.9	17.7	22.1
09/25/09	22.5	20.8	19.7	20.3	20.3	20.0	20.1	21.1	22.5	23.7	25.2	26.7	27.8	28.5	28.9	29.3	29.4	29.0	28.0	27.6	25.8	24.7	24.5	23.7	29.4	19.7	24.6
09/26/09	23.0	23.4	22.5	21.5	20.9	20.7	20.6	22.0	24.4	26.5	28.0	29.2	30.2	30.6	31.3	31.2	31.3	30.9	29.8	29.2	28.0	27.5	25.0	25.0	31.3	20.6	26.4
09/27/09	25.0	23.6	23.4	23.0	22.2	21.3	21.3	22.9	25.2	27.5	29.5	30.7	31.1	31.3	31.6	31.4	31.1	30.4	29.5	28.9	28.3	26.6	25.9	26.0	31.6	21.3	27.0
09/28/09	25.7	25.9	24.4	23.8	23.6	22.6	22.6	22.6	25.5	27.8	29.4	30.8	31.4	31.8	31.9	32.0	31.4	30.9	30.3	28.7	27.6	29.3	27.1	26.1	32.0	22.6	27.6
09/29/09	25.8	24.5	24.2	24.2	23.6	22.0	21.6	22.1	24.8	26.4	28.1	INV	INV	30.2	30.3	30.2	30.0	29.4	28.6	28.1	26.6	25.8	26.5	26.1	30.3	21.6	26.3
09/30/09	25.8	25.2	24.0	23.2	22.7	22.4	22.0	21.9	21.8	22.4	23.2	23.6	24.6	25.4	26.0	26.1	25.7	25.0	24.0	23.3	22.2	21.2	20.4	19.4	26.1	19.4	23.4
Hourly Averages	22.9	22.4	21.8	21.5	21.1	20.7	20.5	21.3	22.9	24.1	25.3	26.2	27.1	27.6	28.1	28.2	27.8	27.5	26.8	25.8	24.8	24.3	23.5	23.1			

Maximum Hourly Temperature: 32.0 **Minimum Hourly Temperature:** 15.7 **Average Monthly Temperature:** 24.4

Maximum 24-Hour Mean: 27.6 **Minimum 24-Hour Mean:** 20.1

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	23.8	23.3	23.4	23.6	23.5	23.5	24.1	25.9	26.2	26.0	26.8	28.2	29.7	31.1	31.9	31.1	31.6	31.2	30.0	29.6	29.2	28.4	27.0	26.5	31.9	23.3	27.3
09/02/09	26.3	25.9	25.1	23.8	22.9	22.1	22.0	22.7	25.5	27.1	27.7	29.6	30.8	31.4	31.8	30.9	30.6	30.1	29.6	29.2	28.8	28.1	26.8	26.0	31.8	22.0	27.3
09/03/09	25.4	25.0	24.6	24.4	24.2	24.0	24.1	24.5	25.7	26.8	28.2	29.4	30.2	30.7	31.2	31.5	22.5	24.0	24.5	23.0	21.9	21.5	20.8	20.7	31.5	20.7	25.4
09/04/09	22.3	20.5	20.1	19.6	19.7	20.9	20.0	21.5	23.3	24.2	25.8	26.9	28.1	28.8	28.7	29.2	29.2	27.5	25.9	22.8	23.4	23.4	22.2	22.0	29.2	19.6	24.0
09/05/09	21.8	22.2	21.2	20.9	21.3	20.7	20.0	18.8	18.9	18.4	18.9	20.0	22.5	24.8	25.0	22.7	25.1	24.8	23.5	22.6	22.2	21.9	21.8	21.5	25.1	18.4	21.7
09/06/09	20.8	20.7	20.1	20.1	19.8	20.2	19.9	22.1	24.5	25.4	25.6	24.7	26.1	27.2	27.5	28.1	28.2	27.7	27.0	26.3	25.7	25.1	24.0	23.3	28.2	19.8	24.2
09/07/09	22.1	21.1	20.6	19.9	19.8	20.2	20.7	22.6	24.3	24.9	25.7	27.2	27.4	26.0	27.3	28.0	28.4	28.1	27.2	26.5	26.1	25.8	25.5	25.1	28.4	19.8	24.6
09/08/09	24.3	23.4	24.0	23.9	22.3	21.3	21.3	22.9	24.9	25.7	26.9	28.1	28.8	29.3	29.3	29.1	28.6	28.1	26.3	23.6	19.7	20.5	19.8	20.1	29.3	19.7	24.7
09/09/09	20.4	21.0	19.6	20.0	20.0	20.4	19.2	21.8	24.0	24.7	25.7	27.0	27.9	28.5	29.0	29.2	29.1	28.9	26.8	25.3	24.2	24.2	24.1	23.2	29.2	19.2	24.3
09/10/09	22.2	22.0	22.4	22.7	21.6	21.4	20.5	22.9	25.4	27.5	28.8	30.3	30.1	31.3	31.5	31.7	31.4	30.6	29.5	28.0	26.5	24.9	24.6	24.2	31.7	20.5	26.3
09/11/09	24.1	23.6	23.1	22.1	21.8	21.3	21.5	23.0	24.9	27.0	28.6	29.4	29.7	26.6	28.5	29.9	28.8	28.0	26.6	26.0	25.5	24.7	23.6	22.9	29.9	21.3	25.5
09/12/09	22.4	22.1	21.7	20.8	20.5	20.2	20.1	21.4	23.8	25.8	27.2	28.1	29.1	29.8	30.5	30.0	30.0	29.6	28.7	26.1	25.0	23.4	22.7	23.0	30.5	20.1	25.1
09/13/09	23.0	22.3	22.1	21.6	21.3	20.5	20.8	21.9	24.0	25.6	26.7	27.3	27.9	29.1	29.1	29.4	29.6	29.0	28.1	26.0	25.1	25.0	22.3	21.8	29.6	20.5	25.0
09/14/09	22.1	21.1	21.2	21.1	20.3	20.5	20.2	21.6	23.4	24.7	25.1	26.8	28.2	28.6	29.4	29.2	29.2	28.5	27.8	27.1	26.5	25.4	24.4	23.8	29.4	20.2	24.8
09/15/09	23.4	23.1	22.4	22.1	21.8	20.8	19.9	21.1	23.4	24.4	25.5	26.9	27.6	28.2	28.3	28.2	28.3	27.8	27.0	26.3	25.5	24.5	23.7	22.5	28.3	19.9	24.7
09/16/09	22.9	22.1	20.9	20.4	19.3	19.5	19.4	21.1	23.6	24.8	25.7	27.1	27.5	27.9	27.8	27.8	27.4	26.8	25.8	25.0	23.0	22.5	21.5	21.1	27.9	19.3	23.8
09/17/09	20.9	20.2	19.3	19.1	19.2	18.2	19.2	21.2	22.7	24.9	26.1	27.2	28.2	28.6	29.1	26.9	25.2	24.9	23.7	23.4	22.8	21.1	20.2	19.6	29.1	18.2	23.0
09/18/09	19.1	18.6	18.0	17.4	17.2	16.9	16.9	18.5	20.3	21.6	23.2	24.6	26.4	26.8	27.1	27.6	26.6	26.7	25.9	25.1	24.4	23.6	22.6	22.0	27.6	16.9	22.4
09/19/09	21.1	20.9	21.0	20.5	20.2	20.0	20.2	21.5	23.7	25.3	26.4	27.4	27.7	22.4	24.4	25.4	21.7	20.3	21.3	21.6	18.3	18.0	18.4	18.7	27.7	18.0	21.9
09/20/09	18.8	18.2	17.5	17.7	17.8	16.9	17.2	19.5	22.2	24.5	26.1	27.4	28.3	29.3	29.5	29.3	28.8	28.2	27.3	26.8	26.2	26.5	25.4	25.9	29.5	16.9	24.0
09/21/09	25.7	25.9	25.3	24.8	23.0	22.3	22.3	21.9	24.5	26.0	27.2	28.3	29.2	29.8	30.2	30.3	30.1	29.4	28.5	27.8	27.4	27.3	26.8	25.5	30.3	21.9	26.6
09/22/09	23.3	23.2	22.9	22.0	20.5	19.4	18.9	19.4	20.4	21.7	23.3	24.7	26.0	27.1	27.2	27.1	26.3	25.0	23.2	21.9	21.2	20.8	19.2	19.1	27.2	18.9	22.7
09/23/09	19.0	18.1	17.6	16.9	16.4	15.9	15.8	16.8	17.7	19.5	21.0	22.7	23.7	24.5	24.9	25.0	24.8	24.3	23.1	21.9	20.7	19.9	19.8	19.2	25.0	15.8	20.4
09/24/09	19.1	18.5	18.0	18.2	17.8	17.5	17.6	19.1	20.7	21.6	23.0	24.3	26.0	27.2	27.5	27.8	27.5	26.7	25.5	24.3	22.6	21.7	22.6	22.9	27.8	17.5	22.4
09/25/09	22.1	20.5	19.5	20.1	20.1	19.8	19.9	21.5	23.2	24.8	26.6	28.1	29.1	30.0	30.1	30.3	30.1	29.2	27.6	27.1	25.2	24.1	23.3	22.9	30.3	19.5	24.8
09/26/09	22.4	22.4	21.8	20.8	20.4	20.2	20.0	22.2	25.0	27.6	29.5	30.4	31.5	32.0	32.5	32.1	31.9	30.9	29.2	28.8	27.0	26.0	24.4	24.4	32.5	20.0	26.4
09/27/09	24.3	22.3	22.3	22.1	21.1	20.8	21.1	23.1	25.7	28.7	30.8	31.8	32.2	32.5	32.5	32.1	31.6	30.5	29.4	28.8	27.9	26.0	25.5	25.1	32.5	20.8	27.0
09/28/09	25.0	25.1	23.3	23.0	22.9	22.0	21.8	22.6	26.2	28.7	30.5	32.1	32.3	32.8	33.0	32.7	31.9	30.9	30.0	28.1	26.7	28.6	26.3	25.4	33.0	21.8	27.6
09/29/09	24.5	24.0	23.5	23.3	22.8	21.0	21.1	22.5	25.6	27.4	29.1	INV	INV	33.2	31.9	30.9	30.4	29.5	28.5	27.7	26.0	24.9	25.8	25.5	33.2	21.0	26.3
09/30/09	25.3	24.9	23.9	23.0	22.6	22.3	22.1	22.1	22.0	22.7	23.6	24.1	25.4	26.2	26.6	26.7	26.0	25.2	24.0	23.3	22.2	21.1	20.3	19.3	26.7	19.3	23.5
Hourly Averages	22.6	22.1	21.5	21.2	20.7	20.3	20.3	21.6	23.5	24.9	26.2	27.2	28.2	28.7	29.1	29.0	28.4	27.7	26.7	25.7	24.6	24.0	23.2	22.8			

Maximum Hourly Temperature: 33.2 **Minimum Hourly Temperature:** 15.8 **Average Monthly Temperature:** 24.6

Maximum 24-Hour Mean: 27.6 **Minimum 24-Hour Mean:** 20.4

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	0.295	0.348	0.258	0.146	0.097	0.164	0.038	-0.506	-0.701	-0.424	-0.525	-0.790	-0.872	-1.030	-0.907	-0.483	-0.557	-0.348	-0.045	0.008	0.055	0.011	-0.013	-0.017	0.348	-1.030	-0.242
09/02/09	-0.008	0.013	0.052	0.186	0.465	0.290	0.153	0.025	-0.802	-0.748	-0.663	-0.971	-0.969	-1.125	-1.101	-0.628	-0.513	-0.269	-0.089	-0.020	-0.017	-0.045	-0.041	-0.031	0.465	-1.125	-0.286
09/03/09	-0.051	-0.010	-0.048	-0.069	-0.069	-0.039	-0.064	-0.172	-0.439	-0.594	-0.749	-0.989	-1.043	-0.926	-0.895	-0.938	0.131	1.046	0.592	0.105	0.069	0.217	0.383	0.392	1.046	-1.043	-0.173
09/04/09	0.297	0.219	0.185	0.235	0.312	0.805	0.419	0.151	-0.338	-0.505	-0.607	-0.764	-0.922	-0.922	-0.767	-0.724	-0.700	-0.693	-0.243	-0.184	-0.005	0.059	-0.080	-0.053	0.805	-0.922	-0.201
09/05/09	0.063	0.066	-0.008	0.055	0.026	-0.153	-0.121	0.180	0.071	-0.001	0.049	-0.358	-1.101	-1.222	-0.871	-0.553	-0.569	-0.195	-0.120	0.094	0.299	0.376	0.235	0.373	0.376	-1.222	-0.141
09/06/09	0.362	0.645	0.463	0.371	0.314	0.302	0.162	-0.417	-0.803	-0.578	-0.617	-0.603	-1.012	-1.116	-1.008	-0.968	-0.768	-0.514	-0.200	-0.047	0.010	0.156	0.458	-0.051	0.645	-1.116	-0.227
09/07/09	0.021	0.098	0.305	0.218	0.215	0.339	0.223	-0.540	-0.849	-0.733	-0.657	-0.831	-0.816	-0.764	-0.657	-0.684	-0.635	-0.361	-0.069	-0.005	0.065	0.164	0.146	0.129	0.339	-0.849	-0.237
09/08/09	0.519	0.728	0.631	0.570	0.697	0.453	0.327	-0.518	-0.627	-0.602	-0.852	-1.019	-1.155	-1.084	-0.862	-0.730	-0.613	-0.361	-0.224	-0.253	0.390	0.481	0.174	0.254	0.728	-1.155	-0.153
09/09/09	0.227	0.630	0.339	0.573	0.757	0.863	0.665	-0.247	-0.243	-0.395	-0.455	-0.683	-0.909	-0.904	-0.814	-0.727	-0.550	-0.339	-0.007	0.108	0.151	0.212	0.195	0.174	0.863	-0.909	-0.057
09/10/09	0.191	0.404	0.326	0.207	0.313	0.283	0.116	-0.361	-0.859	-1.248	-1.223	-1.495	-0.773	-1.076	-1.024	-0.912	-0.755	-0.302	0.037	0.174	0.388	0.339	0.336	0.193	0.404	-1.495	-0.280
09/11/09	0.174	0.181	0.164	0.150	0.135	0.098	-0.015	-0.437	-0.916	-1.325	-1.530	-1.264	-0.636	-0.049	-0.735	-0.526	-0.021	0.137	0.165	0.230	0.088	0.120	0.124	0.093	0.230	-1.530	-0.233
09/12/09	0.137	0.012	0.068	0.045	0.088	0.080	0.022	-0.323	-0.800	-0.865	-1.100	-1.223	-1.329	-1.155	-1.129	-0.740	-1.051	-0.495	-0.073	0.083	0.102	0.048	0.175	0.168	0.175	-1.329	-0.386
09/13/09	0.121	0.081	0.077	0.281	0.225	0.154	-0.022	-0.501	-0.897	-1.140	-1.234	-1.143	-1.069	-1.197	-0.860	-0.691	-0.584	-0.299	-0.065	-0.049	0.173	0.113	1.007	0.626	1.007	-1.234	-0.287
09/14/09	0.650	0.681	0.527	0.564	0.529	0.392	0.477	-0.378	-0.397	-0.580	-0.607	-0.901	-1.066	-0.884	-0.885	-0.672	-0.452	-0.208	-0.017	0.058	0.055	0.064	0.150	0.147	0.681	-1.066	-0.115
09/15/09	0.285	0.229	0.232	0.260	0.195	0.564	0.416	-0.410	-0.538	-0.765	-0.916	-1.144	-1.042	-1.075	-0.878	-0.741	-0.591	-0.246	0.019	0.073	0.132	0.162	0.204	0.417	0.564	-1.144	-0.215
09/16/09	0.233	0.408	0.417	0.456	0.673	0.445	0.501	-0.296	-0.512	-0.673	-0.906	-1.216	-1.066	-1.100	-0.936	-0.784	-0.550	-0.281	-0.013	0.156	0.344	0.764	0.470	0.251	0.764	-1.216	-0.134
09/17/09	0.378	0.283	0.129	0.253	0.293	0.206	0.204	-0.349	-0.843	-1.218	-1.241	-1.287	-1.208	-1.320	-1.123	-1.051	-0.782	-0.480	-0.081	-0.051	-0.066	-0.110	-0.043	-0.010	0.378	-1.320	-0.397
09/18/09	-0.002	-0.007	-0.019	-0.027	-0.014	-0.011	-0.090	-0.457	-0.823	-1.112	-1.346	-1.449	-1.575	-1.419	-1.109	-1.122	-0.229	-0.287	0.115	0.200	0.438	0.303	0.268	0.245	0.438	-1.575	-0.397
09/19/09	0.203	0.379	0.257	0.118	0.130	0.180	0.052	-0.448	-0.964	-1.054	-1.036	-1.077	-0.664	0.285	-0.081	-0.595	-0.315	-0.219	0.090	0.135	-0.051	-0.012	0.157	0.170	0.379	-1.077	-0.182
09/20/09	0.149	0.161	0.193	0.329	0.358	0.280	0.199	-0.225	-0.698	-0.716	-0.765	-0.836	-0.908	-1.028	-0.987	-0.679	-0.480	-0.205	0.013	0.063	0.342	0.181	0.611	0.371	0.611	-1.028	-0.178
09/21/09	0.353	0.198	0.193	0.256	0.711	0.821	0.674	0.011	-0.673	-0.521	-0.823	-0.870	-0.923	-0.951	-0.842	-0.696	-0.479	-0.180	0.039	0.055	0.143	0.190	0.445	0.690	0.821	-0.951	-0.091
09/22/09	0.544	0.512	0.357	0.201	0.139	0.071	0.068	-0.207	-0.486	-0.754	-0.934	-1.096	-1.324	-1.523	-1.298	-1.145	-0.613	-0.096	0.193	0.168	0.240	0.105	0.093	0.120	0.544	-1.523	-0.278
09/23/09	0.122	0.053	0.087	0.053	0.062	0.045	-0.033	-0.307	-0.611	-0.899	-1.080	-1.253	-1.342	-1.344	-1.229	-0.893	-0.475	-0.090	0.161	0.418	0.495	0.461	0.632	0.407	0.632	-1.344	-0.273
09/24/09	0.234	0.263	0.259	0.274	0.123	0.193	0.129	-0.364	-0.638	-0.860	-1.154	-1.301	-1.485	-1.621	-1.361	-1.306	-0.641	-0.112	0.489	0.489	0.536	0.448	0.438	0.338	0.536	-1.621	-0.276
09/25/09	0.347	0.232	0.181	0.276	0.257	0.274	0.127	-0.330	-0.728	-1.110	-1.390	-1.420	-1.272	-1.497	-1.157	-0.931	-0.743	-0.117	0.331	0.535	0.626	0.640	1.211	0.721	1.211	-1.497	-0.206
09/26/09	0.536	1.007	0.654	0.695	0.485	0.438	0.558	-0.211	-0.585	-1.088	-1.454	-1.205	-1.258	-1.427	-1.223	-0.906	-0.636	0.000	0.642	0.375	1.055	1.463	0.642	0.616	1.463	-1.454	-0.034
09/27/09	0.731	1.268	1.073	0.994	1.090	0.478	0.170	-0.205	-0.497	-1.170	-1.275	-1.039	-1.065	-1.199	-0.941	-0.745	-0.459	-0.107	0.108	0.169	0.421	0.607	0.424	0.897	1.268	-1.275	-0.011
09/28/09	0.618	0.791	1.182	0.788	0.726	0.548	0.737	0.004	-0.703	-0.906	-1.095	-1.260	-0.963	-1.051	-1.013	-0.742	-0.440	-0.018	0.280	0.622	0.932	0.673	0.798	0.741	1.182	-1.260	0.052
09/29/09	1.287	0.532	0.643	0.866	0.787	0.933	0.572	-0.419	-0.805	-0.961	-1.040	INV	INV	-2.983	-1.631	-0.691	-0.420	-0.135	0.104	0.374	0.511	0.884	0.709	0.522	1.287	-2.983	-0.016
09/30/09	0.522	0.238	0.137	0.160	0.071	0.089	-0.050	-0.188	-0.209	-0.389	-0.403	-0.505	-0.792	-0.738	-0.628	-0.575	-0.370	-0.158	-0.009	-0.011	0.055	0.129	0.187	0.129	0.522	-0.792	-0.138
Hourly Averages	0.318	0.355	0.310	0.316	0.340	0.320	0.220	-0.282	-0.630	-0.798	-0.921	-1.034	-1.054	-1.115	-0.965	-0.786	-0.529	-0.198	0.071	0.136	0.266	0.307	0.350	0.301			

Maximum Hourly Differential Temperature: 1.463 **Minimum Hourly Differential Temperature:** -2.983

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	24.9	24.4	24.2	23.5	19.0	18.1	19.6	21.4	23.9	24.3	26.9	28.6	28.1	29.1	29.8	30.7	31.2	31.8	29.9	28.8	26.0	22.6	21.4	20.8	31.8	18.1	25.4
07/02/09	21.0	21.0	20.3	20.1	20.0	20.2	20.5	21.3	22.0	23.7	24.4	26.0	27.4	29.2	30.5	31.2	31.3	30.9	29.5	28.0	25.9	25.0	24.2	23.5	31.3	20.0	24.9
07/03/09	22.7	22.6	22.5	22.1	21.4	21.0	21.6	23.9	25.5	27.2	28.1	29.5	29.8	30.7	31.4	31.8	31.8	30.3	23.3	23.6	24.8	22.0	21.1	21.4	31.8	21.0	25.4
07/04/09	21.3	21.3	20.8	20.6	20.8	21.3	23.1	24.5	24.9	25.7	26.2	27.0	27.6	28.8	29.4	30.0	30.2	30.1	29.7	28.7	28.1	27.8	27.6	27.4	30.2	20.6	25.9
07/05/09	26.5	26.3	26.1	25.1	24.3	23.6	24.7	26.8	27.3	28.2	29.6	31.1	31.9	32.8	33.0	33.3	33.3	32.9	32.2	31.1	30.6	29.7	28.2	28.4	33.3	23.6	29.0
07/06/09	28.6	28.1	27.4	26.0	25.4	23.3	25.2	26.7	27.9	28.2	29.4	30.6	31.3	32.0	32.6	32.6	32.7	32.4	31.6	30.6	30.1	29.6	28.9	28.2	32.7	23.3	29.1
07/07/09	27.3	26.3	25.1	24.1	23.5	22.8	23.3	24.0	25.2	26.1	27.3	28.7	29.8	30.7	31.3	31.7	31.9	31.7	30.8	30.0	29.5	28.9	26.8	26.7	31.9	22.8	27.6
07/08/09	26.2	25.5	25.1	24.8	24.1	23.8	24.3	25.8	26.3	27.6	28.8	29.6	30.3	30.8	31.6	32.0	32.0	31.7	31.4	30.4	28.8	24.3	23.6	23.9	32.0	23.6	27.6
07/09/09	24.1	25.0	23.9	22.5	22.5	22.1	24.1	25.7	27.1	28.7	30.1	31.3	32.0	32.4	33.2	32.7	33.0	32.7	32.3	31.0	30.5	29.2	28.5	27.8	33.2	22.1	28.4
07/10/09	27.1	26.8	26.1	25.6	24.9	24.8	26.4	28.4	29.6	30.8	32.0	32.7	33.6	34.6	34.9	35.2	34.9	34.8	34.3	32.9	32.6	32.1	30.7	29.4	35.2	24.8	30.6
07/11/09	27.7	27.2	26.6	25.8	25.8	25.8	27.1	28.0	30.0	31.4	32.2	33.0	35.4	36.0	35.7	36.0	35.6	34.6	34.2	33.3	32.6	32.1	32.2	31.7	36.0	25.8	31.2
07/12/09	31.2	30.8	30.3	27.7	27.2	27.9	28.5	29.8	31.4	31.8	33.0	33.7	33.9	34.0	34.9	35.6	35.4	35.2	34.5	33.3	32.0	31.0	30.2	29.0	35.6	27.2	31.8
07/13/09	28.2	27.8	27.4	27.1	26.3	25.3	26.7	28.5	29.9	30.3	31.9	33.3	34.3	35.3	35.5	35.5	35.5	35.0	34.3	33.1	32.3	31.7	29.2	28.9	35.5	25.3	31.0
07/14/09	28.5	28.4	27.3	27.4	25.6	25.7	26.7	29.0	29.5	30.3	31.7	33.4	34.0	34.7	34.8	35.2	35.0	34.8	34.1	33.1	32.6	32.1	31.5	30.7	35.2	25.6	31.1
07/15/09	29.2	28.2	27.9	27.2	27.0	26.5	25.7	25.9	26.5	28.0	29.4	30.1	30.8	31.8	32.3	32.0	31.3	30.8	29.6	27.7	27.4	27.2	27.0	26.6	32.3	25.7	28.6
07/16/09	25.8	26.0	26.1	25.9	25.2	24.9	24.2	26.2	28.9	29.2	30.2	30.9	32.4	33.2	33.7	34.1	33.9	33.7	33.0	29.8	30.8	30.3	30.3	29.4	34.1	24.2	29.5
07/17/09	29.3	28.4	26.5	26.1	26.4	26.0	26.6	27.3	28.3	30.7	31.8	32.7	33.9	35.0	35.4	35.7	26.8	28.2	27.3	27.0	26.1	26.5	26.3	26.3	35.7	26.0	28.9
07/18/09	25.9	25.4	26.3	26.3	24.6	23.3	24.5	27.6	29.6	31.6	33.3	34.5	35.1	35.8	36.3	36.5	37.1	36.9	27.8	27.4	26.1	26.1	26.3	25.5	37.1	23.3	29.6
07/19/09	25.5	25.5	25.5	24.3	24.1	23.6	25.1	28.0	30.6	31.9	32.6	33.5	34.4	35.2	35.6	35.9	35.8	35.4	34.7	32.6	29.6	28.5	27.9	26.9	35.9	23.6	30.1
07/20/09	26.0	25.6	24.7	25.0	24.4	24.6	24.6	25.2	28.5	29.4	30.5	31.5	32.4	33.1	33.3	33.4	33.6	32.8	29.4	28.0	24.8	25.1	25.3	23.8	33.6	23.8	28.1
07/21/09	23.5	22.9	24.0	23.8	22.1	22.3	23.1	21.3	21.2	20.1	20.7	23.4	26.1	27.8	28.8	29.4	30.1	30.0	29.2	28.2	27.8	27.4	25.7	25.5	30.1	20.1	25.2
07/22/09	24.4	23.1	22.3	22.9	22.8	23.0	23.7	25.6	26.6	28.4	28.5	30.1	31.4	32.4	32.9	31.3	28.5	25.1	25.9	23.6	23.3	23.5	23.9	23.5	32.9	22.3	26.1
07/23/09	23.1	22.6	22.2	21.8	21.6	21.9	22.0	23.1	24.6	27.4	28.5	29.7	30.2	30.9	30.1	29.4	29.9	30.2	29.5	28.7	28.1	26.8	20.4	19.9	30.9	19.9	25.9
07/24/09	18.8	19.5	19.3	20.7	21.1	20.4	20.5	22.0	25.1	26.3	25.9	26.4	27.4	27.9	28.2	28.8	28.9	29.1	28.3	27.8	27.5	26.5	25.7	25.4	29.1	18.8	24.9
07/25/09	25.1	25.0	24.7	25.5	24.2	23.8	24.8	25.3	26.9	28.1	28.8	28.3	22.9	22.5	28.7	30.4	29.4	26.9	24.5	25.2	24.7	24.6	24.6	24.0	30.4	22.5	25.8
07/26/09	24.2	23.7	24.9	25.0	24.3	24.1	23.7	25.8	26.4	26.9	28.2	29.5	30.7	31.6	32.5	32.8	33.0	32.9	32.3	31.4	30.7	30.3	30.2	30.1	33.0	23.7	28.6
07/27/09	29.9	29.2	28.7	28.7	27.5	27.1	27.5	28.6	29.3	30.5	31.5	32.5	33.3	34.2	34.7	35.1	35.4	35.0	34.5	33.3	32.7	32.5	32.2	31.5	35.4	27.1	31.5
07/28/09	31.0	31.1	30.8	30.1	29.1	28.1	27.7	29.0	29.4	30.7	31.9	33.1	33.7	34.0	34.8	35.0	35.4	35.0	34.3	33.3	32.5	32.0	31.2	29.9	35.4	27.7	31.8
07/29/09	28.9	28.4	27.8	26.6	26.0	25.4	25.8	26.2	27.1	28.2	28.9	30.0	31.1	31.8	32.4	32.2	32.5	32.6	31.9	31.1	30.5	29.3	28.3	27.6	32.6	25.4	29.2
07/30/09	27.1	26.4	25.8	25.4	24.9	24.1	24.3	24.8	25.7	27.0	28.1	29.0	30.4	31.0	31.5	31.8	31.6	31.6	31.2	30.2	29.3	27.2	26.0	26.7	31.8	24.1	28.0
07/31/09	26.0	26.2	26.6	26.2	24.8	23.2	24.1	26.1	27.9	28.0	29.2	30.9	32.1	32.9	33.2	33.2	33.4	33.0	32.1	31.1	30.5	29.7	27.5	27.1	33.4	23.2	28.9
Hourly Averages	26.1	25.8	25.4	25.0	24.2	23.8	24.5	25.9	27.2	28.3	29.3	30.5	31.2	32.0	32.7	32.9	32.6	32.2	30.9	29.8	29.0	28.1	27.2	26.7			

Maximum Hourly Temperature: 37.1 **Minimum Hourly Temperature:** 18.1 **Average Monthly Temperature:** 28.4

Maximum 24-Hour Mean: 31.8 **Minimum 24-Hour Mean:** 24.9

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	26.4	26.0	27.0	24.9	24.7	25.6	25.6	26.5	26.9	27.9	29.6	31.4	32.6	33.5	34.1	34.2	34.4	33.8	32.8	31.5	30.9	30.6	30.5	30.3	34.4	24.7	29.7
08/02/09	30.0	29.4	27.0	25.9	24.8	24.9	25.0	26.5	29.0	30.7	32.4	33.1	33.8	34.6	35.2	35.3	34.9	34.7	33.7	32.5	31.4	29.0	27.9	27.6	35.3	24.8	30.4
08/03/09	26.9	26.8	25.6	26.4	25.8	25.3	25.6	27.7	28.8	30.2	31.1	32.7	33.5	34.7	35.2	35.4	35.4	35.2	34.2	33.0	32.3	31.6	31.3	30.9	35.4	25.3	30.6
08/04/09	30.4	27.3	26.2	25.5	24.9	24.4	24.6	25.0	26.2	28.0	29.3	30.6	32.2	32.8	33.8	34.1	34.5	34.1	33.3	32.4	31.8	29.7	29.2	29.9	34.5	24.4	29.6
08/05/09	29.8	29.0	28.2	28.2	28.6	28.2	27.6	27.9	30.2	30.9	32.2	33.6	34.7	34.7	35.7	35.1	35.1	34.8	34.1	32.8	32.0	31.1	28.7	28.1	35.7	27.6	31.3
08/06/09	27.9	26.3	23.9	24.1	24.2	24.2	24.3	25.6	27.8	29.2	28.9	30.5	31.7	32.4	32.7	32.7	32.9	32.4	31.1	29.9	29.2	28.6	27.6	27.0	32.9	23.9	28.5
08/07/09	26.4	26.0	25.7	24.9	24.2	24.0	24.4	24.9	25.5	26.7	27.4	28.1	29.0	29.2	29.9	30.4	30.3	29.6	28.2	26.8	25.9	25.1	24.2	21.5	30.4	21.5	26.6
08/08/09	21.2	21.5	20.7	20.1	19.7	19.6	20.6	22.9	25.7	26.3	27.1	27.9	28.7	29.2	29.8	30.0	29.9	29.6	28.8	27.7	26.7	25.0	24.4	23.8	30.0	19.6	25.3
08/09/09	23.8	22.9	22.0	21.8	21.0	20.7	22.1	24.4	25.9	27.4	28.1	29.0	29.8	30.6	30.7	30.7	31.0	30.8	29.8	28.7	27.8	25.7	24.7	24.6	31.0	20.7	26.4
08/10/09	24.6	25.0	23.6	24.3	22.6	21.6	22.5	25.3	26.5	27.3	28.4	29.2	30.2	31.1	31.6	32.1	32.1	32.0	30.9	29.7	28.9	28.6	28.5	28.4	32.1	21.6	27.7
08/11/09	26.6	24.5	23.6	22.9	22.7	22.4	22.5	24.0	25.0	27.0	27.8	29.5	30.6	30.7	29.7	30.3	30.7	29.3	28.4	28.1	27.8	27.2	26.6	26.1	30.7	22.4	26.8
08/12/09	26.4	26.2	25.6	25.1	25.8	24.2	24.9	27.5	29.0	29.4	30.8	31.7	32.5	33.1	33.3	32.9	32.0	28.8	27.9	27.0	26.4	26.7	26.4	25.2	33.3	24.2	28.3
08/13/09	24.5	22.5	22.6	22.2	21.5	20.5	20.8	22.4	22.4	22.6	22.6	22.6	23.4	23.7	24.0	23.2	22.5	22.0	21.6	21.3	20.6	20.6	20.5	20.2	24.5	20.2	22.1
08/14/09	19.8	19.2	19.2	18.9	18.6	18.2	19.5	21.6	23.7	25.6	26.7	28.0	28.5	29.5	30.2	29.9	30.3	29.7	28.9	28.5	27.9	26.7	25.3	25.1	30.3	18.2	25.0
08/15/09	25.7	25.0	24.4	23.9	23.5	23.2	23.9	25.2	26.1	27.2	28.2	29.4	30.2	30.6	30.9	31.3	31.5	31.3	30.6	29.6	28.8	27.6	27.7	25.8	31.5	23.2	27.6
08/16/09	25.5	25.0	24.0	23.7	24.1	22.2	23.1	25.8	26.5	28.0	29.3	30.0	30.8	31.5	31.8	32.1	31.9	31.4	30.4	29.3	27.9	25.5	25.2	24.9	32.1	22.2	27.5
08/17/09	25.1	24.0	24.1	25.2	23.4	21.7	21.9	25.4	27.8	29.8	31.8	32.3	32.6	33.1	33.2	33.2	32.8	32.8	31.9	30.8	29.1	27.0	26.7	26.4	33.2	21.7	28.4
08/18/09	27.7	27.9	25.4	25.3	24.1	23.1	24.5	27.2	29.4	29.4	30.5	32.3	33.0	33.2	33.5	33.4	33.1	32.6	31.6	30.8	30.2	29.8	29.7	29.3	33.5	23.1	29.4
08/19/09	28.4	28.0	26.9	25.6	24.5	23.6	23.7	24.0	24.5	25.5	27.1	28.6	29.5	30.6	30.8	31.2	31.4	31.2	30.2	29.2	28.7	28.5	28.4	28.2	31.4	23.6	27.8
08/20/09	27.8	27.5	26.4	25.9	25.4	24.9	24.4	24.6	25.4	26.7	28.5	29.8	31.2	32.0	32.7	33.1	33.3	32.9	32.0	31.0	30.5	30.4	30.3	29.6	33.3	24.4	29.0
08/21/09	27.1	25.5	25.0	24.9	24.4	23.3	24.0	26.0	27.1	27.5	29.0	30.6	31.1	32.0	32.9	31.7	27.8	29.4	26.8	26.6	25.1	21.7	22.0	21.8	32.9	21.7	26.8
08/22/09	20.9	20.7	20.5	20.8	21.0	20.1	19.9	20.7	21.9	22.9	24.1	24.8	25.0	25.9	25.8	25.8	25.1	25.7	24.8	23.6	22.4	21.8	21.6	21.0	25.9	19.9	22.8
08/23/09	21.2	20.8	20.4	19.8	19.8	19.9	20.4	22.6	24.5	26.2	26.9	28.2	29.0	29.5	29.6	29.9	30.1	29.8	28.3	27.5	26.8	26.4	25.6	25.1	30.1	19.8	25.3
08/24/09	23.4	23.0	21.7	21.3	21.2	20.5	21.1	22.5	23.6	25.0	26.8	27.4	28.9	29.9	30.3	29.3	29.8	30.0	28.7	27.9	27.3	25.0	23.6	23.0	30.3	20.5	25.5
08/25/09	22.7	22.4	21.8	21.1	20.5	20.3	21.2	22.6	24.6	26.4	27.7	28.3	29.1	29.9	28.2	24.3	26.9	27.9	27.4	25.9	24.1	23.9	23.2	23.2	29.9	20.3	24.7
08/26/09	22.0	21.9	21.3	21.1	21.3	21.7	21.1	23.1	25.7	27.9	29.6	30.7	31.7	32.2	32.7	33.1	32.9	32.4	30.7	29.7	29.1	28.8	28.5	28.7	33.1	21.1	27.4
08/27/09	28.5	28.2	26.3	25.2	24.6	24.4	24.2	26.1	29.0	31.9	32.6	33.3	34.1	34.3	34.4	34.7	34.4	34.2	32.9	32.0	31.6	31.6	31.1	30.8	34.7	24.2	30.4
08/28/09	30.6	27.2	26.4	25.4	24.9	24.9	24.8	27.0	28.9	30.6	31.9	32.7	33.7	34.7	34.4	34.5	35.2	33.2	31.9	30.3	29.0	28.6	28.0	27.5	35.2	24.8	29.8
08/29/09	27.6	28.1	27.2	25.6	24.1	24.1	24.3	27.3	30.1	30.9	31.8	33.1	33.7	34.7	34.6	35.5	35.1	34.4	33.2	31.8	30.1	29.2	28.4	28.0	35.5	24.1	30.1
08/30/09	27.7	26.7	26.1	26.2	25.0	25.2	25.3	27.1	27.9	30.4	30.6	32.0	32.9	32.9	33.4	33.6	33.4	33.3	30.5	29.2	28.3	27.6	27.1	26.2	33.6	25.0	29.1
08/31/09	25.5	24.7	24.7	24.5	23.1	23.7	24.8	26.5	27.8	29.6	30.7	32.0	32.6	33.1	33.5	32.9	32.3	31.3	30.6	28.9	26.5	24.6	24.9	24.6	33.5	23.1	28.0
Hourly Averages	25.9	25.1	24.3	23.9	23.4	22.9	23.3	25.0	26.6	27.9	29.0	30.1	31.0	31.6	31.9	31.8	31.7	31.3	30.2	29.2	28.2	27.2	26.7	26.2			

Maximum Hourly Temperature: 35.7 **Minimum Hourly Temperature:** 18.2 **Average Monthly Temperature:** 27.7

Maximum 24-Hour Mean: 31.3 **Minimum 24-Hour Mean:** 22.1

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	23.3	22.9	22.9	23.2	23.0	23.0	23.7	25.6	26.1	25.5	26.2	27.6	29.1	30.7	31.5	30.8	31.4	30.9	29.5	29.1	28.7	27.9	26.4	26.0	31.5	22.9	26.9
09/02/09	25.8	25.4	24.6	23.3	22.4	21.5	21.8	22.6	25.6	27.1	27.2	29.1	30.3	31.0	31.3	30.5	30.2	29.6	29.0	28.6	28.3	27.6	26.3	25.5	31.3	21.5	26.8
09/03/09	24.9	24.5	24.1	23.9	23.7	23.4	23.5	23.9	25.3	26.3	27.6	28.7	29.7	30.2	30.8	31.2	22.0	23.7	24.2	22.5	21.4	21.1	20.4	20.2	31.2	20.2	24.9
09/04/09	21.8	20.1	19.6	19.2	19.2	20.3	19.7	21.5	23.0	23.7	25.3	26.4	27.7	28.5	28.2	29.0	29.0	27.0	25.4	22.3	22.9	23.0	21.6	21.5	29.0	19.2	23.6
09/05/09	21.3	21.7	20.7	20.4	20.7	20.2	19.4	18.4	18.4	18.0	18.6	19.8	21.9	24.3	24.6	22.1	24.6	24.3	23.0	22.1	21.7	21.4	21.3	21.0	24.6	18.0	21.2
09/06/09	20.3	20.3	19.7	19.6	19.4	19.7	19.6	22.0	24.5	25.1	25.3	24.1	25.6	26.9	27.2	27.9	27.9	27.5	26.5	25.8	25.2	24.7	23.6	22.8	27.9	19.4	23.8
09/07/09	21.7	20.6	20.1	19.4	19.4	19.7	20.4	22.5	24.5	24.6	25.2	26.7	27.0	25.3	26.9	27.8	28.3	27.9	26.8	26.0	25.7	25.3	25.0	24.7	28.3	19.4	24.2
09/08/09	23.8	23.0	23.5	23.6	22.0	20.8	21.1	23.1	25.1	25.3	26.5	27.5	28.4	28.9	28.9	28.8	28.4	27.9	25.8	23.0	19.1	20.0	19.3	19.7	28.9	19.1	24.3
09/09/09	20.0	20.5	19.2	19.6	19.6	20.1	18.8	21.8	23.9	24.3	25.2	26.5	27.4	28.1	28.6	28.9	28.9	28.8	26.4	24.8	23.7	23.8	23.6	22.7	28.9	18.8	24.0
09/10/09	21.6	21.5	21.9	22.2	21.2	20.9	20.0	22.5	25.0	27.1	28.7	30.3	29.8	30.9	31.2	31.4	31.4	30.4	29.1	27.5	26.1	24.5	24.1	23.7	31.4	20.0	25.9
09/11/09	23.6	23.1	22.6	21.6	21.3	20.8	21.0	22.5	24.3	26.3	27.9	28.9	29.4	26.5	28.4	29.9	28.3	27.6	26.2	25.5	25.0	24.2	23.2	22.4	29.9	20.8	25.0
09/12/09	21.9	21.5	21.2	20.2	20.0	19.7	19.6	20.9	23.4	25.3	26.7	27.6	28.6	29.7	30.1	29.6	30.0	29.4	28.3	25.7	24.5	23.0	22.3	22.5	30.1	19.6	24.7
09/13/09	22.5	21.8	21.6	21.1	20.8	20.0	20.3	21.4	23.7	25.2	26.3	27.0	27.6	28.7	28.6	29.1	29.5	28.8	27.6	25.5	24.7	24.5	22.0	21.3	29.5	20.0	24.6
09/14/09	21.6	20.7	20.6	20.7	19.8	20.1	19.8	21.9	23.5	24.4	24.5	26.3	27.7	28.1	28.9	28.8	28.8	28.2	27.3	26.6	26.0	24.9	23.9	23.3	28.9	19.8	24.4
09/15/09	22.8	22.6	21.9	21.6	21.3	20.4	19.5	21.6	23.3	24.0	25.1	26.4	27.1	27.7	27.9	28.0	28.1	27.6	26.5	25.8	25.0	24.0	23.2	22.1	28.1	19.5	24.3
09/16/09	22.3	21.6	20.3	19.8	18.8	18.9	19.1	21.7	23.9	24.3	25.2	26.7	27.0	27.5	27.3	27.5	27.2	26.7	25.3	24.5	22.5	21.9	21.0	20.5	27.5	18.8	23.4
09/17/09	20.4	19.8	18.9	18.5	18.7	17.7	18.7	20.7	22.2	24.4	25.7	26.9	27.8	28.2	28.8	26.2	24.4	24.2	23.2	22.9	22.3	20.5	19.7	19.1	28.8	17.7	22.5
09/18/09	18.6	18.1	17.5	16.8	16.6	16.4	16.4	17.9	19.6	20.8	22.3	23.6	25.6	26.0	26.3	27.1	26.2	26.8	25.5	24.5	23.9	23.1	22.1	21.5	27.1	16.4	21.8
09/19/09	20.6	20.4	20.5	20.0	19.7	19.5	19.7	20.9	23.2	24.9	26.0	27.2	27.2	22.0	24.2	25.0	21.1	19.7	20.8	21.1	17.7	17.5	17.9	18.2	27.2	17.5	21.5
09/20/09	18.3	17.8	17.0	17.2	17.4	16.4	16.8	19.4	22.3	24.9	26.0	27.1	27.8	29.0	29.2	29.0	28.6	27.9	26.8	26.3	25.6	26.0	25.0	25.4	29.2	16.4	23.6
09/21/09	25.2	25.4	24.9	24.4	22.6	21.7	22.0	22.2	25.1	25.7	26.8	27.9	28.7	29.4	29.9	30.0	29.9	29.1	28.0	27.3	26.9	26.8	26.1	24.6	30.0	21.7	26.3
09/22/09	22.8	22.7	22.4	21.5	20.0	18.9	18.4	18.8	19.6	20.9	22.4	23.7	25.0	26.2	26.5	26.5	25.8	24.6	22.8	21.5	20.8	20.3	18.7	18.6	26.5	18.4	22.0
09/23/09	18.5	17.6	17.1	16.4	15.9	15.4	15.2	16.3	17.0	18.6	20.1	21.7	22.8	23.5	24.2	24.5	24.5	24.0	22.7	21.3	20.2	19.4	19.2	18.7	24.5	15.2	19.8
09/24/09	18.6	18.0	17.6	17.8	17.4	17.1	17.1	18.7	20.1	21.0	22.1	23.3	25.0	26.3	26.9	27.7	27.7	26.7	24.8	23.6	22.1	21.2	22.2	22.5	27.7	17.1	21.9
09/25/09	21.7	20.0	19.0	19.6	19.6	19.3	19.5	21.0	22.6	24.0	25.7	27.2	28.8	29.4	29.9	30.1	30.1	29.0	27.1	26.6	24.6	23.6	22.8	22.4	30.1	19.0	24.3
09/26/09	21.9	21.9	21.3	20.4	19.9	19.7	19.6	21.8	24.8	27.0	28.7	30.1	31.1	31.6	32.3	32.0	32.0	31.0	28.8	28.3	26.4	25.7	23.8	23.8	32.3	19.6	26.0
09/27/09	23.8	21.8	21.8	21.6	20.6	20.4	20.6	22.8	25.3	28.2	30.6	31.5	31.8	32.0	32.2	31.8	31.4	30.2	28.9	28.3	27.4	25.4	24.7	24.5	32.2	20.4	26.6
09/28/09	24.3	24.4	22.7	22.3	22.3	21.4	21.3	22.7	26.2	28.4	30.2	31.8	31.9	32.3	32.7	32.5	31.7	30.7	29.5	27.5	26.1	28.2	25.7	24.6	32.7	21.3	27.1
09/29/09	23.9	23.4	22.9	22.7	22.2	20.5	20.7	22.6	25.5	27.0	INV	INV	30.5	30.7	31.0	30.7	30.3	29.2	28.0	27.0	25.4	24.2	25.3	24.9	31.0	20.5	25.8
09/30/09	24.8	24.5	23.4	22.5	22.1	21.8	21.7	21.7	21.4	22.3	23.1	23.7	24.9	25.6	26.0	26.3	25.7	24.7	23.5	22.8	21.7	20.6	19.7	18.7	26.3	18.7	23.0
Hourly Averages	22.1	21.6	21.0	20.7	20.2	19.8	19.8	21.4	23.3	24.5	25.6	26.7	27.8	28.2	28.7	28.7	28.1	27.5	26.2	25.1	24.1	23.5	22.7	22.2			

Maximum Hourly Temperature: 32.7 **Minimum Hourly Temperature:** 15.2 **Average Monthly Temperature:** 24.1

Maximum 24-Hour Mean: 27.1 **Minimum 24-Hour Mean:** 19.8

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	54.4	55.6	59.0	61.1	92.0	86.4	74.8	51.3	65.7	55.2	47.9	38.9	48.4	41.6	36.3	33.7	30.3	32.5	32.2	33.0	66.3	60.5	76.0	81.7	92.0	30.3	54.8
07/02/09	72.6	83.2	88.2	83.9	72.1	77.9	76.1	72.6	66.8	54.7	55.2	48.9	43.1	36.4	29.8	29.3	28.2	29.9	34.0	42.1	47.6	48.8	54.4	59.5	88.2	28.2	55.6
07/03/09	61.1	61.9	62.4	65.4	70.3	70.1	62.8	54.8	45.8	42.2	40.7	37.7	36.0	31.9	30.1	30.8	30.0	47.2	57.7	42.5	50.6	67.8	69.9	67.1	70.3	30.0	51.5
07/04/09	67.5	70.0	71.1	68.7	66.5	51.7	46.1	48.4	51.5	51.8	53.6	51.4	48.2	43.8	39.1	36.1	34.0	34.0	37.4	40.3	41.3	42.4	43.3	44.1	71.1	34.0	49.3
07/05/09	46.4	45.1	48.0	50.2	56.1	56.6	51.0	41.4	43.5	36.5	33.1	29.9	26.6	24.0	20.9	18.2	17.0	17.0	19.9	18.0	18.2	18.4	20.4	17.3	56.6	17.0	32.2
07/06/09	16.1	17.5	21.4	20.2	26.5	26.8	29.5	29.9	25.7	25.7	21.7	21.0	17.6	16.5	15.4	16.1	17.4	17.7	21.0	21.7	22.9	23.6	27.4	31.8	31.8	15.4	22.1
07/07/09	37.2	48.2	53.5	61.5	65.9	70.6	72.1	67.2	62.9	53.0	48.8	39.4	34.0	32.1	29.8	27.2	26.7	28.4	31.4	31.7	32.9	44.8	46.3	46.6	72.1	26.7	45.5
07/08/09	46.1	46.1	47.7	48.2	47.8	40.1	33.4	27.6	27.2	26.2	28.2	30.8	31.5	29.2	27.6	27.6	27.8	27.3	28.2	28.2	52.4	47.5	44.5	43.3	52.4	26.2	36.0
07/09/09	38.4	33.5	48.3	49.4	48.7	49.7	38.3	35.1	32.0	26.5	21.9	23.3	22.1	19.4	18.4	20.0	18.5	17.6	17.4	15.6	15.7	18.8	18.6	20.2	49.7	15.6	27.8
07/10/09	22.5	24.3	27.1	26.6	28.6	30.4	27.6	28.2	27.3	24.9	21.8	22.8	19.9	18.6	15.8	15.4	15.2	15.2	15.7	15.6	16.1	15.6	17.7	18.2	30.4	15.2	21.3
07/11/09	21.9	25.1	30.1	31.7	32.1	31.0	27.7	25.3	24.6	21.3	20.3	19.5	14.1	12.2	13.4	13.1	13.7	14.4	14.5	14.9	14.9	14.4	15.0	14.7	32.1	12.2	20.0
07/12/09	15.1	16.8	20.6	19.4	21.4	20.4	19.1	18.4	17.7	19.0	15.4	18.1	17.8	15.8	14.1	14.2	13.7	14.0	14.7	17.5	19.2	21.3	25.5	27.7	27.7	13.7	18.2
07/13/09	29.0	29.8	30.1	31.0	31.9	33.7	30.1	26.0	27.1	24.5	21.3	20.4	19.5	17.1	15.5	14.6	15.6	15.6	18.0	19.1	20.3	27.1	27.6	27.5	33.7	14.6	23.8
07/14/09	29.7	26.8	29.6	30.5	32.2	31.7	30.7	28.8	27.8	25.3	21.1	17.7	17.0	15.9	15.3	15.4	15.2	15.6	17.5	16.0	15.9	18.7	17.6	24.6	32.2	15.2	22.4
07/15/09	28.1	29.2	30.8	30.4	32.7	39.4	43.7	44.1	41.0	36.5	31.3	29.5	29.5	27.0	26.2	27.2	26.3	26.6	30.0	30.9	32.2	32.5	29.3	36.0	44.1	26.2	32.1
07/16/09	34.9	32.9	34.7	32.8	36.3	36.8	39.0	30.0	29.3	28.5	28.0	24.9	23.8	23.9	22.4	22.0	21.9	22.4	22.7	22.0	20.6	20.6	22.1	23.2	39.0	20.6	27.3
07/17/09	24.1	28.1	31.4	32.9	35.2	36.0	36.2	36.0	33.5	28.6	27.8	23.9	23.7	21.7	19.9	18.4	62.3	15.5	32.2	31.3	29.7	32.5	32.3	28.4	62.3	15.5	30.1
07/18/09	31.3	30.4	26.6	31.2	37.7	37.0	33.1	25.9	22.9	20.1	18.6	15.9	15.2	14.4	13.9	12.6	12.5	14.4	35.8	31.6	37.7	37.4	38.7	35.3	38.7	12.5	26.3
07/19/09	36.7	35.8	33.7	41.1	43.1	36.7	32.6	26.4	23.7	21.9	19.8	17.6	18.0	15.7	15.3	15.3	15.2	14.8	15.6	29.2	28.9	31.0	31.8	36.8	43.1	14.8	26.5
07/20/09	37.5	40.1	37.5	41.0	40.1	40.2	43.1	39.5	26.7	27.5	26.7	23.0	23.6	23.4	21.8	20.4	20.2	24.4	33.2	53.6	48.7	39.0	54.4	55.3	55.3	20.2	35.0
07/21/09	59.9	59.0	47.1	54.5	62.5	55.0	73.3	74.1	82.8	85.1	73.3	40.7	41.5	36.3	32.5	30.6	32.1	32.4	34.0	37.2	37.5	39.4	44.3	49.9	85.1	30.6	50.6
07/22/09	56.0	55.4	60.1	54.4	53.8	55.5	52.8	43.3	35.3	36.7	37.6	31.1	28.7	24.6	25.5	29.3	51.1	40.9	55.2	61.3	56.6	53.3	50.8	55.1	61.3	24.6	46.0
07/23/09	55.6	60.8	59.1	58.1	58.3	61.0	57.6	55.4	46.7	37.3	32.4	33.3	32.4	30.0	37.0	34.8	34.0	33.7	35.0	36.0	39.2	73.2	82.4	77.9	82.4	30.0	48.4
07/24/09	74.7	79.5	74.7	63.4	69.9	79.2	69.5	65.2	52.6	52.1	54.2	51.1	47.6	47.2	44.7	38.7	40.9	40.6	43.1	45.0	49.0	52.0	57.6	57.2	79.5	38.7	56.2
07/25/09	55.4	61.7	55.7	59.5	62.8	62.5	60.2	57.6	48.8	49.4	44.3	54.9	82.0	63.1	42.9	38.1	46.9	48.9	56.3	50.3	53.7	51.6	56.0	60.2	82.0	38.1	55.1
07/26/09	54.5	61.9	51.9	57.1	59.6	65.1	64.8	49.2	48.5	48.2	45.2	41.6	35.5	31.6	32.2	29.0	26.9	28.1	28.7	29.3	30.1	30.2	29.7	30.7	65.1	26.9	42.1
07/27/09	30.1	32.1	29.8	31.2	33.1	32.7	31.9	28.6	26.4	25.7	24.6	23.3	21.6	20.3	20.3	20.4	19.0	20.0	21.2	22.8	23.5	24.1	24.4	25.6	33.1	19.0	25.5
07/28/09	25.7	24.0	24.3	26.3	27.6	34.0	34.1	29.4	28.0	25.0	23.5	18.8	19.6	17.0	15.7	14.5	14.4	14.0	14.4	14.6	15.8	18.4	20.0	20.2	34.1	14.0	21.6
07/29/09	20.6	18.7	22.4	25.2	29.1	30.3	33.7	33.7	32.5	33.9	29.1	26.6	25.2	21.4	25.4	25.4	20.9	22.4	20.0	23.3	24.1	33.4	31.3	29.1	33.9	18.7	26.6
07/30/09	28.5	29.0	27.8	24.1	26.4	30.8	33.8	36.9	39.5	37.9	31.4	23.9	19.6	20.1	19.8	19.0	20.5	20.5	20.0	20.4	25.3	27.2	25.5	24.9	39.5	19.0	26.4
07/31/09	28.4	26.4	25.7	29.4	30.7	33.0	31.0	25.2	18.5	19.3	19.4	17.1	14.2	14.0	11.9	14.0	13.4	13.1	13.8	14.4	14.4	18.0	19.2	21.3	33.0	11.9	20.2
Hourly Averages	40.0	41.6	42.3	43.2	46.2	46.5	44.8	40.5	38.1	35.5	32.8	29.6	28.9	26.0	24.1	23.3	25.2	24.5	28.1	29.3	32.3	34.9	37.2	38.4			

Maximum Hourly Humidity: 92.0 **Minimum Hourly Humidity:** 11.9

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	20.4	20.0	18.9	21.4	19.9	19.3	23.2	18.5	18.3	15.6	14.4	13.7	13.4	12.8	12.4	12.3	12.6	12.8	13.7	14.0	13.9	11.4	11.2	11.6	23.2	11.2	15.7
08/02/09	11.3	14.8	13.4	18.9	15.4	15.5	21.4	20.9	18.5	14.0	14.4	12.9	11.9	12.1	11.9	11.6	11.8	12.6	14.0	15.0	21.8	27.8	28.6	29.2	29.2	11.3	16.7
08/03/09	30.1	29.8	30.0	28.7	28.0	29.4	29.1	27.5	26.1	23.9	20.4	17.6	17.2	14.7	13.8	13.2	13.3	13.3	13.6	14.3	15.2	16.5	17.5	18.3	30.1	13.2	20.9
08/04/09	30.6	45.7	47.0	46.9	49.9	54.4	54.4	51.2	43.1	38.0	32.5	29.8	26.6	25.7	23.5	22.0	21.5	21.6	22.2	21.9	24.3	29.3	28.4	23.5	54.4	21.5	33.9
08/05/09	24.6	28.1	29.8	27.7	29.8	31.5	34.3	29.5	29.2	25.9	21.7	21.0	20.4	19.4	18.6	17.4	19.9	19.1	20.6	23.1	22.8	27.3	31.7	32.7	34.3	17.4	25.2
08/06/09	33.3	50.7	50.5	50.9	49.4	48.2	50.6	42.4	35.3	32.8	32.1	27.0	25.8	22.1	20.6	20.4	18.3	16.7	16.8	17.1	17.2	17.2	17.9	17.2	50.9	16.7	30.4
08/07/09	17.5	19.4	19.0	20.4	19.2	17.6	15.3	14.8	14.0	15.1	17.5	14.8	14.3	11.4	12.0	10.9	10.6	10.6	10.6	10.6	10.7	11.8	14.8	13.7	20.4	10.6	14.4
08/08/09	14.4	12.6	14.4	13.5	13.0	11.7	14.0	11.3	10.4	12.6	19.4	13.4	12.9	11.8	11.8	12.6	12.9	14.1	15.0	15.3	18.1	19.1	19.9	20.5	20.5	10.4	14.4
08/09/09	20.1	21.2	21.5	23.1	25.3	23.8	23.1	22.1	18.3	14.7	12.5	13.3	12.5	10.6	11.4	12.6	12.4	12.1	13.3	13.3	14.7	17.3	18.4	17.7	25.3	10.6	16.9
08/10/09	16.8	19.3	19.6	18.7	23.0	20.2	18.6	20.1	19.5	17.3	21.1	24.8	19.1	17.6	14.1	13.7	14.4	13.9	13.9	15.3	15.7	15.5	15.4	16.7	24.8	13.7	17.7
08/11/09	32.9	52.9	56.0	57.2	54.8	58.6	55.2	44.0	38.5	36.1	31.3	29.0	27.1	28.6	28.8	25.0	24.9	28.5	29.6	28.3	29.5	29.8	32.0	29.6	58.6	24.9	37.0
08/12/09	28.7	30.3	31.2	31.4	30.6	33.9	31.9	25.9	26.8	26.0	22.9	23.0	23.0	20.4	20.8	20.2	31.4	27.2	31.7	34.1	34.1	32.5	47.4	44.9	47.4	20.2	29.6
08/13/09	58.2	69.4	63.1	67.9	67.7	81.1	62.9	63.1	60.8	63.4	68.0	59.9	62.8	54.5	52.1	62.4	66.8	66.9	69.1	74.0	71.8	72.9	72.4	71.6	81.1	52.1	66.0
08/14/09	71.9	71.2	74.3	75.2	75.6	75.7	71.6	66.4	54.7	42.3	36.0	34.0	33.9	28.3	27.5	26.1	23.8	28.5	30.4	31.9	32.9	38.3	40.9	31.7	75.7	23.8	46.8
08/15/09	31.1	32.1	31.0	32.2	33.2	33.0	27.7	23.6	25.4	24.0	22.8	21.9	20.6	19.8	18.8	18.1	17.9	18.1	18.4	20.1	21.6	22.1	21.8	26.3	33.2	17.9	24.2
08/16/09	23.3	24.7	27.7	26.4	26.1	30.8	28.2	23.6	19.6	19.1	19.0	18.7	14.5	12.0	11.5	11.5	10.7	11.4	11.6	11.8	14.2	15.0	15.5	15.5	30.8	10.7	18.4
08/17/09	14.9	15.8	15.2	15.5	20.6	20.9	17.7	15.0	13.3	11.5	12.8	11.6	11.5	11.3	10.3	11.2	11.1	11.0	11.8	12.6	14.8	15.6	15.3	15.2	20.9	10.3	14.0
08/18/09	13.3	14.0	13.3	14.2	13.2	13.2	12.9	10.4	10.1	9.8	10.1	10.0	12.0	12.8	13.4	14.0	13.0	13.2	14.7	14.4	15.0	15.2	15.0	15.6	15.6	9.8	13.0
08/19/09	16.5	14.9	22.3	26.9	27.9	30.6	32.1	41.2	38.4	33.0	28.2	23.6	22.5	20.5	22.0	19.8	19.6	18.0	21.3	22.0	23.1	27.4	29.9	30.7	41.2	14.9	25.5
08/20/09	31.9	32.6	37.4	39.2	40.0	41.9	43.6	45.6	41.8	35.9	30.5	27.7	25.1	22.4	22.8	19.4	18.8	18.4	19.5	20.7	21.1	19.8	20.4	23.1	45.6	18.4	29.1
08/21/09	37.0	39.7	41.5	43.2	44.9	46.7	42.4	36.2	37.3	33.6	30.8	27.7	26.7	24.2	22.3	51.0	31.5	35.9	37.1	54.0	64.3	62.8	61.7	69.0	69.0	22.3	41.7
08/22/09	68.0	72.8	70.2	65.4	68.2	75.9	76.1	69.3	62.9	61.1	56.1	51.9	49.8	48.2	53.1	52.4	57.2	51.4	56.0	65.7	66.7	68.9	70.5	70.4	76.1	48.2	62.9
08/23/09	67.0	68.7	71.7	75.9	74.9	75.7	71.6	60.9	48.3	48.6	37.9	35.3	33.0	33.8	29.8	28.7	27.3	30.9	33.2	36.3	38.5	42.2	44.6	51.6	75.9	27.3	48.6
08/24/09	53.8	58.4	62.0	62.2	63.8	67.1	61.9	60.7	55.4	50.4	44.9	35.3	29.9	30.4	28.7	30.8	26.6	25.5	25.6	26.6	32.0	38.9	44.0	46.6	67.1	25.5	44.2
08/25/09	48.9	48.9	51.7	53.7	56.0	54.9	51.1	46.6	38.7	35.7	35.8	30.8	29.9	28.7	41.8	64.6	22.1	20.6	26.4	31.5	33.4	34.4	35.3	34.3	64.6	20.6	39.8
08/26/09	41.5	37.0	42.4	43.3	43.3	44.4	43.2	36.0	30.3	25.8	21.2	17.7	14.0	12.6	12.5	13.4	14.1	14.5	15.8	16.9	15.9	16.4	18.7	18.1	44.4	12.5	25.4
08/27/09	20.4	20.7	25.0	25.1	24.9	28.2	25.2	23.0	15.0	13.4	13.4	12.7	12.7	12.2	11.9	12.1	11.9	11.6	12.6	12.7	13.0	12.9	13.5	13.0	28.2	11.6	16.5
08/28/09	14.6	16.0	19.4	23.0	25.8	29.0	27.7	23.6	21.5	19.7	18.6	16.8	15.0	14.3	14.6	12.8	11.8	11.8	12.9	14.6	15.2	17.0	17.3	19.4	29.0	11.8	18.0
08/29/09	17.8	18.1	19.8	22.0	22.7	22.6	18.4	14.4	13.1	13.2	12.1	11.2	10.0	10.2	10.0	9.8	9.8	10.9	11.5	14.2	15.3	15.9	17.9	18.3	22.7	9.8	15.0
08/30/09	16.6	20.6	19.1	22.3	21.4	21.1	21.9	20.4	16.4	19.0	17.9	15.6	15.0	15.7	15.2	14.8	14.2	16.3	20.7	23.1	22.7	22.3	22.7	25.7	25.7	14.2	19.2
08/31/09	29.0	28.3	28.3	30.6	30.4	29.7	26.4	26.1	21.6	20.6	18.2	17.5	15.1	14.8	14.5	18.9	17.5	19.5	20.8	27.8	43.0	39.2	36.4	39.4	43.0	14.5	25.6
Hourly Averages	30.8	33.8	35.1	36.2	36.7	38.3	36.6	33.4	29.8	27.5	25.6	23.2	21.9	20.4	20.4	22.0	20.3	20.5	22.1	24.3	26.2	27.5	28.9	29.4			

Maximum Hourly Humidity: 81.1 **Minimum Hourly Humidity:** 9.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	42.3	41.7	39.1	39.6	39.2	39.0	33.2	32.2	36.0	34.8	37.0	30.7	29.0	23.8	24.5	24.1	24.4	25.0	25.5	25.5	25.7	33.6	33.8	36.2	42.3	23.8	32.3
09/02/09	34.2	36.3	39.6	45.7	47.1	49.5	47.8	45.4	34.8	41.4	34.0	29.5	26.1	28.1	27.1	26.9	27.0	29.3	28.7	29.3	29.0	32.5	42.4	45.8	49.5	26.1	35.7
09/03/09	46.3	49.3	51.4	51.5	52.3	53.1	54.4	50.4	44.4	40.5	38.3	36.3	33.5	31.4	30.2	44.9	66.9	37.2	53.5	69.2	66.7	81.1	64.2	75.7	81.1	30.2	50.9
09/04/09	58.1	73.1	74.5	81.3	69.1	56.5	67.4	49.6	52.1	51.8	51.2	45.5	40.3	41.4	37.4	37.0	35.9	45.1	50.3	53.3	51.5	58.7	57.6	61.0	81.3	35.9	54.1
09/05/09	57.3	58.5	65.3	63.8	60.2	67.2	75.2	84.7	81.6	87.8	75.4	79.9	61.2	45.6	73.3	61.8	49.5	63.6	65.2	63.4	56.5	58.1	59.5	60.1	87.8	45.6	65.6
09/06/09	59.7	62.0	68.3	66.3	68.6	66.2	67.6	52.2	44.4	45.8	55.8	53.3	41.6	43.5	35.8	30.2	32.4	36.9	35.0	37.6	38.9	43.5	48.3	53.5	68.6	30.2	49.5
09/07/09	59.3	61.2	63.6	67.3	65.1	62.1	56.8	49.9	46.2	41.2	43.9	40.5	44.6	43.2	32.4	33.8	31.9	31.2	31.8	35.3	36.4	37.8	45.0	47.2	67.3	31.2	46.2
09/08/09	48.5	52.5	48.4	53.5	57.3	58.9	55.8	47.9	47.1	42.0	38.1	32.9	30.5	28.6	30.4	32.9	32.8	31.5	43.5	58.7	73.1	71.2	69.0	71.7	73.1	28.6	48.2
09/09/09	58.6	56.6	59.5	57.6	57.0	59.8	56.9	44.5	40.0	38.2	38.6	36.7	33.5	32.3	32.6	30.1	29.0	27.6	36.8	40.7	44.5	45.4	41.5	47.9	59.8	27.6	43.6
09/10/09	51.6	52.3	46.2	46.0	51.5	53.0	51.1	40.3	36.7	32.9	27.7	25.8	23.4	25.2	21.8	21.9	22.3	22.1	25.5	30.1	33.7	37.7	39.2	38.5	53.0	21.8	35.7
09/11/09	40.4	40.7	46.0	49.5	53.4	55.2	51.4	47.4	42.2	36.0	32.9	28.7	26.1	42.7	27.0	27.4	28.9	32.7	38.5	34.1	37.9	39.3	41.4	43.5	55.2	26.1	39.3
09/12/09	42.5	43.8	46.0	48.8	51.4	51.9	52.3	45.5	39.4	32.6	30.0	28.8	26.5	24.4	25.4	24.9	27.6	20.2	30.2	36.2	43.9	48.2	43.2	44.3	52.3	20.2	37.8
09/13/09	45.4	49.0	51.0	50.9	53.6	55.0	53.3	48.1	40.6	39.1	34.1	35.1	28.6	26.7	27.1	26.5	25.8	27.1	31.0	36.1	36.5	45.8	65.2	59.9	65.2	25.8	41.3
09/14/09	71.2	65.7	60.5	70.4	70.7	72.2	67.4	52.3	55.4	51.2	46.1	34.0	29.2	28.4	26.9	23.5	22.2	23.3	22.1	24.7	28.8	28.5	28.8	28.9	72.2	22.1	43.0
09/15/09	31.3	36.4	31.2	25.6	28.7	31.5	32.1	27.7	25.9	32.2	31.3	29.1	23.2	18.1	24.6	26.2	24.5	23.2	16.9	16.1	22.6	27.3	28.5	30.8	36.4	16.1	26.9
09/16/09	25.6	33.9	37.0	33.9	36.4	34.0	35.7	29.8	25.1	24.5	26.5	21.5	19.4	23.8	20.8	18.2	15.9	17.2	18.5	21.8	24.3	25.8	26.5	31.2	37.0	15.9	26.1
09/17/09	32.4	35.0	38.8	39.5	41.3	44.5	36.9	39.2	37.8	32.1	28.7	22.6	18.8	19.4	16.7	33.2	34.2	33.7	38.4	37.4	41.9	50.5	47.9	49.8	50.5	16.7	35.4
09/18/09	53.2	56.7	59.8	65.0	64.9	67.8	64.3	58.7	54.4	49.3	45.0	40.1	35.8	33.5	33.9	31.8	32.2	32.5	34.2	35.4	37.7	41.2	43.8	47.8	67.8	31.8	46.6
09/19/09	51.9	50.2	54.2	56.4	58.4	59.7	57.9	52.5	43.4	35.5	32.9	27.8	32.6	50.7	43.0	37.3	55.6	52.1	41.3	56.0	65.6	60.7	57.6	54.0	65.6	27.8	49.5
09/20/09	57.5	58.2	61.6	59.2	58.7	61.9	57.9	49.6	38.8	32.1	28.3	27.0	25.0	23.9	22.9	22.7	22.2	24.4	24.9	25.8	25.2	24.7	26.0	27.4	61.9	22.2	36.9
09/21/09	25.2	25.7	26.3	27.1	31.9	31.1	36.4	29.0	28.2	27.2	24.9	22.7	23.1	22.2	19.5	18.4	18.1	19.3	20.4	20.8	20.8	21.2	23.7	24.7	36.4	18.1	24.5
09/22/09	26.4	24.0	10.9	11.2	12.8	14.0	14.5	14.0	11.9	10.3	9.8	9.4	8.6	9.3	8.1	8.3	8.3	9.2	10.3	10.7	10.9	11.3	12.7	12.8	26.4	8.1	12.1
09/23/09	13.4	14.2	14.9	17.5	22.7	28.8	29.7	29.4	27.5	24.3	21.5	18.7	16.6	14.6	14.7	14.7	14.5	15.3	18.6	19.4	20.9	21.6	22.5	24.2	29.7	13.4	20.0
09/24/09	25.6	26.9	27.9	28.3	31.0	30.4	31.3	29.5	26.8	26.0	24.6	19.6	15.5	14.2	13.2	13.0	13.7	14.5	16.2	18.1	21.1	22.0	17.7	14.9	31.3	13.0	21.7
09/25/09	19.0	19.5	20.3	21.9	27.4	34.0	36.0	32.8	29.8	27.2	24.4	16.8	17.0	15.0	14.2	13.1	13.1	13.8	15.6	17.6	19.8	21.0	19.1	18.7	36.0	13.1	21.1
09/26/09	18.1	19.4	20.3	20.7	20.1	19.6	18.7	15.1	13.7	12.9	11.5	9.5	9.5	9.8	9.5	8.5	8.5	9.8	10.2	11.0	13.1	13.3	12.9	12.3	20.7	8.5	13.7
09/27/09	13.9	14.9	13.5	15.0	14.6	14.5	13.4	11.8	10.8	9.2	9.1	8.1	7.6	7.5	7.6	8.6	8.8	9.3	9.8	10.1	11.3	11.9	11.5	11.5	15.0	7.5	11.0
09/28/09	11.6	11.8	11.8	12.8	13.3	13.7	14.3	12.4	10.8	9.9	8.5	8.5	9.5	9.5	9.2	10.4	10.6	11.1	11.6	12.6	12.9	11.7	13.7	13.8	14.3	8.5	11.5
09/29/09	14.6	14.4	15.1	15.5	18.4	20.8	20.8	17.9	14.5	INV	INV	12.1	11.9	12.9	14.2	13.3	14.5	15.0	14.8	15.5	19.1	17.5	17.2	15.6	20.8	11.9	15.7
09/30/09	14.3	29.7	30.2	31.3	33.4	36.7	38.7	42.2	41.0	31.7	33.6	31.4	27.8	27.1	28.6	31.7	24.6	22.2	21.0	20.1	14.8	13.6	13.9	14.0	42.2	13.6	27.2
Hourly Averages	38.3	40.5	41.1	42.4	43.7	44.7	44.3	39.4	36.0	34.5	32.5	28.7	25.9	25.9	25.1	25.2	25.9	25.8	28.0	30.8	32.8	35.2	35.8	37.3			

Maximum Hourly Humidity: 87.8 **Minimum Hourly Humidity:** 7.5

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	25.74	25.74	25.74	25.75	25.78	25.77	25.78	25.76	25.76	25.77	25.76	25.76	25.75	25.74	25.72	25.70	25.68	25.67	25.67	25.68	25.72	25.76	25.78	25.76	25.78	25.67	25.74
07/02/09	25.78	25.79	25.79	25.77	25.77	25.77	25.79	25.80	25.82	25.82	25.81	25.81	25.81	25.80	25.77	25.76	25.74	25.73	25.74	25.76	25.78	25.79	25.81	25.82	25.82	25.73	25.78
07/03/09	25.83	25.82	25.82	25.82	25.82	25.82	25.84	25.86	25.86	25.87	25.87	25.86	25.84	25.83	25.82	25.80	25.78	25.77	25.80	25.82	25.82	25.86	25.88	25.89	25.89	25.77	25.83
07/04/09	25.88	25.90	25.88	25.87	25.86	25.85	25.86	25.87	25.88	25.88	25.89	25.89	25.87	25.85	25.83	25.81	25.80	25.78	25.79	25.80	25.80	25.81	25.82	25.82	25.90	25.78	25.85
07/05/09	25.82	25.82	25.82	25.82	25.82	25.83	25.83	25.84	25.84	25.85	25.85	25.85	25.83	25.82	25.79	25.77	25.75	25.74	25.74	25.74	25.75	25.78	25.79	25.80	25.85	25.74	25.80
07/06/09	25.79	25.79	25.78	25.79	25.80	25.80	25.81	25.82	25.83	25.83	25.83	25.83	25.82	25.80	25.79	25.77	25.75	25.73	25.72	25.73	25.74	25.76	25.77	25.78	25.83	25.72	25.79
07/07/09	25.79	25.79	25.80	25.79	25.79	25.80	25.81	25.83	25.84	25.84	25.84	25.83	25.82	25.80	25.78	25.76	25.74	25.72	25.72	25.73	25.74	25.75	25.77	25.78	25.84	25.72	25.79
07/08/09	25.79	25.79	25.79	25.78	25.78	25.79	25.79	25.80	25.81	25.82	25.82	25.81	25.80	25.78	25.77	25.74	25.72	25.71	25.71	25.71	25.74	25.78	25.81	25.80	25.82	25.71	25.78
07/09/09	25.79	25.78	25.78	25.79	25.78	25.78	25.80	25.81	25.82	25.82	25.82	25.82	25.82	25.79	25.78	25.77	25.76	25.75	25.75	25.76	25.77	25.80	25.81	25.80	25.82	25.75	25.79
07/10/09	25.81	25.80	25.79	25.80	25.80	25.81	25.82	25.83	25.84	25.85	25.85	25.85	25.85	25.83	25.81	25.79	25.77	25.77	25.77	25.78	25.78	25.80	25.83	25.84	25.85	25.77	25.81
07/11/09	25.83	25.84	25.82	25.82	25.81	25.82	25.85	25.86	25.88	25.88	25.87	25.87	25.85	25.83	25.81	25.80	25.79	25.79	25.79	25.79	25.80	25.81	25.82	25.83	25.88	25.79	25.83
07/12/09	25.83	25.83	25.83	25.84	25.84	25.85	25.86	25.88	25.89	25.89	25.89	25.89	25.88	25.87	25.86	25.83	25.82	25.81	25.81	25.81	25.82	25.84	25.85	25.85	25.89	25.81	25.85
07/13/09	25.85	25.85	25.84	25.83	25.84	25.84	25.85	25.85	25.85	25.85	25.84	25.83	25.81	25.79	25.77	25.75	25.74	25.72	25.72	25.73	25.76	25.78	25.81	25.81	25.85	25.72	25.80
07/14/09	25.79	25.77	25.77	25.77	25.76	25.78	25.79	25.80	25.82	25.82	25.82	25.82	25.80	25.79	25.77	25.76	25.74	25.72	25.72	25.75	25.76	25.78	25.80	25.80	25.82	25.72	25.78
07/15/09	25.82	25.83	25.83	25.84	25.86	25.88	25.90	25.92	25.93	25.93	25.92	25.92	25.91	25.90	25.89	25.87	25.85	25.84	25.84	25.87	25.87	25.88	25.89	25.88	25.93	25.82	25.88
07/16/09	25.88	25.87	25.86	25.86	25.86	25.88	25.90	25.92	25.93	25.93	25.92	25.92	25.90	25.87	25.85	25.83	25.81	25.79	25.80	25.84	25.85	25.84	25.84	25.85	25.93	25.79	25.87
07/17/09	25.85	25.85	25.85	25.85	25.86	25.87	25.88	25.90	25.91	25.91	25.90	25.90	25.88	25.86	25.84	25.82	25.79	25.88	25.87	25.88	25.86	25.85	25.88	25.88	25.91	25.79	25.87
07/18/09	25.88	25.88	25.88	25.87	25.88	25.88	25.90	25.91	25.92	25.92	25.92	25.91	25.89	25.87	25.85	25.83	25.81	25.81	25.81	25.86	25.89	25.93	25.92	25.86	25.93	25.81	25.88
07/19/09	25.85	25.86	25.87	25.87	25.88	25.90	25.91	25.91	25.92	25.91	25.91	25.91	25.90	25.88	25.85	25.82	25.80	25.79	25.79	25.81	25.84	25.88	25.89	25.91	25.92	25.79	25.87
07/20/09	25.90	25.90	25.90	25.88	25.87	25.86	25.87	25.87	25.88	25.88	25.88	25.88	25.86	25.84	25.82	25.79	25.78	25.77	25.77	25.78	25.80	25.86	25.86	25.85	25.90	25.77	25.85
07/21/09	25.82	25.81	25.79	25.80	25.81	25.82	25.84	25.86	25.89	25.88	25.88	25.87	25.86	25.84	25.81	25.79	25.76	25.74	25.74	25.75	25.77	25.78	25.78	25.78	25.89	25.74	25.81
07/22/09	25.79	25.80	25.78	25.76	25.76	25.77	25.78	25.79	25.81	25.80	25.81	25.81	25.79	25.76	25.74	25.73	25.72	25.75	25.75	25.76	25.78	25.80	25.80	25.80	25.81	25.72	25.78
07/23/09	25.81	25.80	25.79	25.79	25.80	25.80	25.82	25.83	25.84	25.84	25.84	25.84	25.83	25.81	25.79	25.78	25.76	25.73	25.74	25.76	25.76	25.79	25.83	25.85	25.85	25.73	25.80
07/24/09	25.84	25.82	25.82	25.81	25.80	25.82	25.83	25.84	25.86	25.86	25.87	25.86	25.86	25.84	25.83	25.81	25.80	25.78	25.78	25.79	25.81	25.83	25.83	25.84	25.87	25.78	25.83
07/25/09	25.84	25.83	25.83	25.83	25.83	25.84	25.86	25.87	25.87	25.87	25.87	25.87	25.88	25.88	25.84	25.81	25.82	25.82	25.84	25.84	25.84	25.85	25.88	25.87	25.88	25.81	25.85
07/26/09	25.86	25.86	25.86	25.86	25.86	25.87	25.88	25.90	25.90	25.90	25.89	25.89	25.88	25.86	25.83	25.82	25.81	25.79	25.78	25.78	25.79	25.81	25.83	25.83	25.90	25.78	25.85
07/27/09	25.82	25.82	25.82	25.81	25.81	25.81	25.82	25.82	25.83	25.83	25.83	25.83	25.82	25.80	25.77	25.75	25.74	25.73	25.72	25.72	25.73	25.74	25.75	25.75	25.83	25.72	25.79
07/28/09	25.75	25.75	25.74	25.74	25.75	25.75	25.76	25.76	25.77	25.78	25.78	25.79	25.77	25.76	25.73	25.70	25.69	25.68	25.67	25.68	25.69	25.72	25.73	25.74	25.79	25.67	25.74
07/29/09	25.74	25.73	25.73	25.75	25.76	25.76	25.77	25.78	25.80	25.80	25.80	25.80	25.79	25.77	25.75	25.73	25.71	25.69	25.69	25.70	25.70	25.72	25.75	25.77	25.80	25.69	25.75
07/30/09	25.78	25.78	25.77	25.77	25.78	25.79	25.81	25.82	25.84	25.84	25.84	25.84	25.83	25.80	25.79	25.77	25.74	25.74	25.74	25.76	25.77	25.79	25.80	25.81	25.84	25.74	25.79
07/31/09	25.80	25.80	25.82	25.80	25.81	25.82	25.83	25.85	25.86	25.86	25.86	25.85	25.84	25.83	25.81	25.79	25.77	25.76	25.76	25.77	25.78	25.80	25.81	25.82	25.86	25.76	25.81
Hourly Averages	25.82	25.82	25.81	25.81	25.81	25.82	25.83	25.84	25.85	25.86	25.85	25.85	25.84	25.82	25.80	25.78	25.77	25.76	25.76	25.77	25.78	25.81	25.82	25.82			

Maximum Hourly Pressure: 25.93 **Minimum Hourly Pressure:** 25.67

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	25.82	25.82	25.80	25.80	25.80	25.81	25.84	25.86	25.88	25.87	25.88	25.87	25.85	25.84	25.83	25.81	25.79	25.78	25.77	25.78	25.79	25.80	25.81	25.80	25.88	25.77	25.82
08/02/09	25.81	25.80	25.80	25.80	25.80	25.81	25.83	25.85	25.86	25.86	25.86	25.86	25.84	25.81	25.79	25.77	25.75	25.74	25.74	25.75	25.77	25.80	25.82	25.82	25.86	25.74	25.81
08/03/09	25.81	25.80	25.79	25.79	25.80	25.80	25.82	25.84	25.85	25.86	25.86	25.86	25.84	25.82	25.79	25.77	25.75	25.74	25.75	25.76	25.78	25.80	25.81	25.82	25.86	25.74	25.80
08/04/09	25.83	25.84	25.85	25.86	25.86	25.86	25.86	25.87	25.88	25.88	25.87	25.87	25.85	25.83	25.81	25.79	25.78	25.76	25.76	25.77	25.79	25.83	25.86	25.86	25.88	25.76	25.83
08/05/09	25.83	25.85	25.86	25.85	25.84	25.82	25.84	25.85	25.86	25.85	25.85	25.85	25.83	25.81	25.79	25.77	25.75	25.74	25.74	25.75	25.76	25.78	25.80	25.82	25.86	25.74	25.81
08/06/09	25.82	25.82	25.81	25.81	25.80	25.80	25.81	25.81	25.82	25.83	25.84	25.83	25.81	25.79	25.77	25.75	25.72	25.72	25.71	25.72	25.73	25.75	25.76	25.77	25.84	25.71	25.78
08/07/09	25.78	25.76	25.76	25.76	25.76	25.76	25.77	25.78	25.80	25.80	25.80	25.79	25.79	25.79	25.76	25.76	25.74	25.74	25.73	25.74	25.75	25.76	25.78	25.79	25.80	25.73	25.77
08/08/09	25.80	25.79	25.79	25.79	25.79	25.79	25.81	25.81	25.82	25.82	25.83	25.82	25.81	25.80	25.78	25.77	25.76	25.74	25.74	25.74	25.75	25.77	25.78	25.78	25.83	25.74	25.79
08/09/09	25.79	25.78	25.78	25.79	25.79	25.80	25.81	25.82	25.83	25.84	25.84	25.84	25.84	25.82	25.81	25.79	25.78	25.77	25.76	25.77	25.78	25.80	25.81	25.81	25.84	25.76	25.80
08/10/09	25.82	25.83	25.83	25.83	25.84	25.86	25.88	25.90	25.91	25.92	25.92	25.92	25.91	25.89	25.87	25.85	25.83	25.82	25.82	25.83	25.85	25.88	25.87	25.88	25.92	25.82	25.87
08/11/09	25.89	25.90	25.91	25.91	25.91	25.93	25.94	25.95	25.95	25.95	25.94	25.93	25.92	25.90	25.89	25.88	25.86	25.84	25.84	25.84	25.85	25.86	25.87	25.87	25.95	25.84	25.90
08/12/09	25.87	25.86	25.86	25.86	25.86	25.86	25.87	25.88	25.88	25.88	25.89	25.89	25.88	25.85	25.82	25.80	25.80	25.82	25.80	25.81	25.82	25.84	25.84	25.86	25.89	25.80	25.85
08/13/09	25.88	25.88	25.88	25.86	25.84	25.84	25.85	25.85	25.87	25.87	25.87	25.86	25.85	25.84	25.82	25.80	25.79	25.79	25.78	25.79	25.80	25.81	25.82	25.83	25.88	25.78	25.84
08/14/09	25.82	25.81	25.81	25.81	25.81	25.82	25.84	25.84	25.85	25.86	25.86	25.85	25.84	25.82	25.80	25.79	25.77	25.76	25.76	25.76	25.76	25.78	25.78	25.78	25.86	25.76	25.81
08/15/09	25.79	25.79	25.79	25.78	25.78	25.78	25.80	25.81	25.81	25.81	25.82	25.81	25.80	25.78	25.76	25.76	25.74	25.73	25.72	25.72	25.73	25.75	25.76	25.76	25.82	25.72	25.77
08/16/09	25.77	25.77	25.77	25.77	25.77	25.78	25.80	25.81	25.82	25.82	25.83	25.82	25.81	25.80	25.78	25.76	25.74	25.73	25.72	25.73	25.74	25.76	25.77	25.78	25.83	25.72	25.78
08/17/09	25.77	25.76	25.76	25.76	25.76	25.77	25.79	25.80	25.82	25.82	25.83	25.82	25.81	25.79	25.76	25.75	25.74	25.72	25.72	25.73	25.74	25.75	25.76	25.76	25.83	25.72	25.77
08/18/09	25.76	25.76	25.75	25.75	25.75	25.76	25.76	25.77	25.78	25.79	25.80	25.79	25.79	25.77	25.75	25.73	25.71	25.70	25.69	25.70	25.72	25.73	25.74	25.74	25.80	25.69	25.75
08/19/09	25.74	25.74	25.74	25.74	25.75	25.76	25.78	25.79	25.80	25.80	25.81	25.80	25.79	25.77	25.76	25.74	25.72	25.71	25.70	25.71	25.72	25.73	25.74	25.74	25.81	25.70	25.75
08/20/09	25.75	25.74	25.74	25.74	25.74	25.75	25.76	25.78	25.79	25.80	25.80	25.79	25.78	25.76	25.74	25.73	25.72	25.70	25.70	25.70	25.72	25.74	25.74	25.75	25.80	25.70	25.75
08/21/09	25.77	25.77	25.77	25.78	25.80	25.80	25.81	25.82	25.83	25.84	25.84	25.83	25.81	25.80	25.76	25.73	25.73	25.74	25.76	25.76	25.81	25.82	25.84	25.85	25.85	25.73	25.79
08/22/09	25.86	25.84	25.84	25.82	25.83	25.84	25.85	25.86	25.87	25.88	25.90	25.90	25.88	25.87	25.84	25.82	25.82	25.81	25.81	25.83	25.83	25.84	25.86	25.86	25.90	25.81	25.85
08/23/09	25.85	25.84	25.83	25.83	25.83	25.83	25.84	25.84	25.85	25.85	25.85	25.84	25.83	25.80	25.79	25.75	25.74	25.72	25.73	25.73	25.75	25.77	25.79	25.78	25.85	25.72	25.80
08/24/09	25.79	25.79	25.80	25.80	25.79	25.80	25.81	25.83	25.84	25.86	25.86	25.86	25.84	25.83	25.81	25.80	25.79	25.78	25.77	25.80	25.83	25.85	25.86	25.86	25.86	25.77	25.82
08/25/09	25.86	25.86	25.86	25.86	25.86	25.87	25.88	25.90	25.91	25.90	25.90	25.89	25.87	25.86	25.84	25.84	25.84	25.82	25.82	25.83	25.84	25.87	25.87	25.88	25.91	25.82	25.86
08/26/09	25.88	25.88	25.87	25.88	25.88	25.88	25.89	25.90	25.91	25.92	25.92	25.90	25.89	25.87	25.84	25.83	25.82	25.81	25.81	25.81	25.83	25.84	25.85	25.85	25.92	25.81	25.86
08/27/09	25.85	25.84	25.84	25.84	25.85	25.85	25.85	25.87	25.88	25.88	25.88	25.87	25.85	25.84	25.82	25.80	25.79	25.79	25.79	25.80	25.82	25.84	25.84	25.83	25.88	25.79	25.84
08/28/09	25.84	25.84	25.83	25.84	25.84	25.84	25.86	25.88	25.89	25.90	25.90	25.90	25.88	25.86	25.84	25.82	25.80	25.79	25.80	25.80	25.82	25.83	25.84	25.84	25.90	25.79	25.85
08/29/09	25.85	25.85	25.85	25.85	25.85	25.85	25.87	25.88	25.88	25.89	25.88	25.88	25.85	25.83	25.80	25.77	25.75	25.75	25.74	25.76	25.77	25.79	25.79	25.78	25.89	25.74	25.82
08/30/09	25.79	25.79	25.79	25.78	25.79	25.79	25.80	25.82	25.83	25.83	25.83	25.82	25.80	25.78	25.76	25.73	25.73	25.72	25.74	25.75	25.76	25.77	25.77	25.78	25.83	25.72	25.78
08/31/09	25.79	25.79	25.78	25.79	25.79	25.79	25.80	25.82	25.82	25.83	25.84	25.83	25.80	25.79	25.76	25.74	25.72	25.73	25.73	25.75	25.76	25.83	25.81	25.81	25.84	25.72	25.79
Hourly Averages	25.82	25.81	25.81	25.81	25.81	25.82	25.83	25.84	25.85	25.86	25.86	25.85	25.84	25.82	25.80	25.78	25.77	25.76	25.76	25.77	25.78	25.80	25.81	25.81			

Maximum Hourly Pressure: 25.95 **Minimum Hourly Pressure:** 25.69

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	25.83	25.82	25.81	25.81	25.81	25.81	25.83	25.86	25.87	25.88	25.88	25.87	25.85	25.83	25.81	25.78	25.78	25.76	25.77	25.78	25.81	25.83	25.84	25.84	25.88	25.76	25.82
09/02/09	25.85	25.85	25.86	25.87	25.86	25.86	25.87	25.88	25.89	25.88	25.89	25.88	25.86	25.84	25.82	25.78	25.78	25.78	25.79	25.80	25.82	25.83	25.85	25.85	25.89	25.78	25.84
09/03/09	25.85	25.84	25.83	25.83	25.83	25.83	25.83	25.84	25.84	25.85	25.85	25.84	25.82	25.79	25.76	25.73	25.76	25.79	25.76	25.76	25.80	25.84	25.85	25.84	25.85	25.73	25.82
09/04/09	25.81	25.81	25.81	25.80	25.79	25.79	25.79	25.81	25.80	25.80	25.81	25.81	25.80	25.77	25.76	25.73	25.73	25.72	25.75	25.77	25.77	25.79	25.80	25.81	25.81	25.72	25.78
09/05/09	25.80	25.80	25.81	25.82	25.81	25.82	25.82	25.85	25.87	25.89	25.89	25.89	25.88	25.84	25.83	25.83	25.81	25.81	25.81	25.81	25.82	25.83	25.84	25.83	25.89	25.80	25.83
09/06/09	25.84	25.84	25.84	25.84	25.85	25.85	25.87	25.88	25.88	25.89	25.90	25.90	25.90	25.88	25.85	25.82	25.80	25.79	25.80	25.81	25.84	25.84	25.84	25.84	25.90	25.79	25.85
09/07/09	25.85	25.84	25.83	25.82	25.81	25.81	25.82	25.83	25.84	25.84	25.84	25.84	25.81	25.79	25.77	25.74	25.72	25.71	25.71	25.71	25.72	25.73	25.74	25.74	25.85	25.71	25.79
09/08/09	25.73	25.73	25.72	25.72	25.72	25.73	25.74	25.76	25.76	25.78	25.78	25.76	25.75	25.73	25.72	25.70	25.69	25.70	25.71	25.74	25.77	25.78	25.79	25.80	25.80	25.69	25.74
09/09/09	25.80	25.80	25.80	25.79	25.78	25.79	25.81	25.83	25.84	25.84	25.85	25.84	25.84	25.82	25.80	25.78	25.78	25.78	25.78	25.80	25.81	25.82	25.83	25.83	25.85	25.78	25.81
09/10/09	25.82	25.82	25.82	25.82	25.83	25.84	25.85	25.86	25.87	25.87	25.87	25.86	25.85	25.83	25.81	25.80	25.79	25.80	25.80	25.81	25.82	25.84	25.83	25.83	25.87	25.79	25.83
09/11/09	25.83	25.83	25.83	25.82	25.82	25.82	25.82	25.84	25.84	25.85	25.84	25.83	25.81	25.79	25.79	25.77	25.76	25.76	25.76	25.77	25.78	25.79	25.79	25.78	25.85	25.76	25.81
09/12/09	25.78	25.78	25.77	25.76	25.76	25.76	25.76	25.77	25.77	25.78	25.78	25.76	25.74	25.72	25.69	25.66	25.65	25.65	25.66	25.67	25.68	25.70	25.71	25.72	25.78	25.65	25.73
09/13/09	25.73	25.73	25.74	25.74	25.74	25.75	25.77	25.78	25.79	25.80	25.80	25.79	25.77	25.74	25.72	25.70	25.69	25.68	25.70	25.71	25.74	25.74	25.76	25.76	25.80	25.68	25.74
09/14/09	25.77	25.76	25.76	25.77	25.77	25.78	25.79	25.81	25.82	25.83	25.83	25.82	25.80	25.78	25.76	25.75	25.74	25.73	25.73	25.75	25.76	25.78	25.79	25.80	25.83	25.73	25.78
09/15/09	25.80	25.81	25.80	25.80	25.80	25.81	25.83	25.85	25.85	25.86	25.86	25.85	25.83	25.82	25.80	25.80	25.79	25.79	25.79	25.80	25.82	25.83	25.84	25.84	25.86	25.79	25.82
09/16/09	25.84	25.84	25.83	25.83	25.83	25.83	25.83	25.84	25.84	25.85	25.85	25.84	25.83	25.82	25.79	25.78	25.77	25.77	25.77	25.77	25.78	25.80	25.80	25.81	25.85	25.77	25.81
09/17/09	25.80	25.80	25.79	25.78	25.78	25.79	25.79	25.81	25.81	25.81	25.80	25.80	25.78	25.76	25.74	25.73	25.73	25.74	25.74	25.75	25.77	25.78	25.80	25.80	25.81	25.73	25.78
09/18/09	25.79	25.79	25.79	25.79	25.79	25.79	25.80	25.81	25.82	25.83	25.84	25.83	25.82	25.80	25.79	25.78	25.77	25.77	25.78	25.79	25.80	25.82	25.83	25.84	25.84	25.77	25.80
09/19/09	25.84	25.85	25.84	25.83	25.83	25.84	25.84	25.85	25.87	25.88	25.88	25.87	25.84	25.83	25.82	25.81	25.80	25.82	25.82	25.81	25.83	25.84	25.85	25.85	25.88	25.80	25.84
09/20/09	25.84	25.85	25.85	25.84	25.83	25.84	25.84	25.86	25.87	25.88	25.88	25.87	25.86	25.83	25.80	25.79	25.78	25.77	25.78	25.79	25.80	25.81	25.81	25.81	25.88	25.77	25.83
09/21/09	25.80	25.81	25.81	25.81	25.80	25.81	25.82	25.84	25.84	25.84	25.85	25.85	25.84	25.82	25.80	25.79	25.78	25.77	25.77	25.77	25.79	25.80	25.80	25.80	25.85	25.77	25.81
09/22/09	25.80	25.79	25.79	25.80	25.80	25.82	25.83	25.85	25.86	25.89	25.88	25.88	25.86	25.84	25.82	25.80	25.79	25.79	25.80	25.81	25.82	25.82	25.82	25.83	25.89	25.79	25.82
09/23/09	25.80	25.81	25.82	25.82	25.81	25.81	25.82	25.83	25.84	25.85	25.84	25.83	25.82	25.80	25.78	25.77	25.77	25.77	25.77	25.78	25.80	25.82	25.82	25.82	25.85	25.77	25.81
09/24/09	25.81	25.80	25.81	25.81	25.81	25.80	25.82	25.82	25.83	25.83	25.83	25.82	25.80	25.78	25.76	25.75	25.74	25.74	25.75	25.76	25.79	25.80	25.80	25.80	25.83	25.74	25.79
09/25/09	25.79	25.79	25.80	25.79	25.80	25.80	25.81	25.83	25.84	25.85	25.85	25.84	25.83	25.82	25.80	25.79	25.79	25.79	25.80	25.81	25.82	25.84	25.84	25.84	25.85	25.79	25.82
09/26/09	25.84	25.84	25.84	25.84	25.85	25.85	25.86	25.87	25.89	25.90	25.90	25.89	25.87	25.85	25.83	25.81	25.80	25.80	25.80	25.81	25.83	25.83	25.83	25.82	25.90	25.80	25.84
09/27/09	25.82	25.82	25.81	25.80	25.80	25.80	25.81	25.81	25.82	25.82	25.81	25.80	25.77	25.75	25.73	25.72	25.70	25.70	25.71	25.72	25.72	25.73	25.73	25.73	25.82	25.70	25.77
09/28/09	25.72	25.73	25.73	25.72	25.73	25.74	25.75	25.76	25.77	25.78	25.78	25.76	25.75	25.74	25.72	25.71	25.70	25.70	25.70	25.71	25.73	25.74	25.75	25.76	25.78	25.70	25.74
09/29/09	25.76	25.76	25.76	25.76	25.76	25.77	25.79	25.80	25.80	INV	INV	25.80	25.79	25.77	25.75	25.74	25.73	25.73	25.73	25.73	25.74	25.74	25.74	25.75	25.80	25.73	25.76
09/30/09	25.74	25.74	25.74	25.74	25.74	25.74	25.75	25.75	25.77	25.78	25.79	25.79	25.79	25.76	25.73	25.72	25.71	25.72	25.72	25.73	25.75	25.77	25.77	25.77	25.79	25.71	25.75
Hourly Averages	25.80	25.80	25.80	25.80	25.80	25.80	25.81	25.83	25.83	25.84	25.84	25.83	25.82	25.80	25.78	25.76	25.75	25.75	25.76	25.77	25.78	25.80	25.80	25.80			

Maximum Hourly Pressure: 25.90 **Minimum Hourly Pressure:** 25.65

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	0.0	0.0	0.0	0.0	0.0	3.1	31.6	98.9	273.1	351.5	620.9	558.3	420.5	823.0	804.0	673.3	517.8	290.9	74.8	18.7	0.0	0.0	0.0	0.0	823.0	3.1	370.7
07/02/09	0.0	0.0	0.0	0.0	0.0	3.3	27.5	63.4	140.9	196.0	282.4	364.2	403.9	623.1	759.5	667.9	496.7	335.2	84.5	9.9	0.0	0.0	0.0	0.0	759.5	3.3	297.2
07/03/09	0.0	0.0	0.0	0.0	0.0	12.9	89.4	274.0	449.8	624.6	693.0	678.7	563.6	698.0	721.4	670.0	502.2	243.4	37.9	9.8	0.0	0.0	0.0	0.0	721.4	9.8	417.9
07/04/09	0.0	0.0	0.0	0.0	0.0	11.3	127.3	328.5	506.3	664.1	780.4	849.0	869.0	827.0	772.9	651.1	493.7	312.7	93.2	7.5	0.0	0.0	0.0	0.0	869.0	7.5	486.3
07/05/09	0.0	0.0	0.0	0.0	0.0	18.0	153.7	329.9	510.8	666.6	784.7	869.0	900.0	841.0	784.7	658.7	500.8	323.1	96.2	6.9	0.0	0.0	0.0	0.0	900.0	6.9	496.3
07/06/09	0.0	0.0	0.0	0.0	0.0	18.9	163.2	341.7	524.5	683.6	806.0	873.0	891.0	837.0	789.8	666.2	500.3	321.0	98.5	7.4	0.0	0.0	0.0	0.0	891.0	7.4	501.5
07/07/09	0.0	0.0	0.0	0.0	0.0	17.0	147.2	322.7	515.2	731.9	796.9	884.0	856.0	861.0	786.6	659.8	519.6	317.5	110.7	8.0	0.0	0.0	0.0	0.0	884.0	8.0	502.3
07/08/09	0.0	0.0	0.0	0.0	0.0	16.1	150.6	328.8	508.3	667.1	789.6	860.0	878.0	848.0	777.6	654.7	494.8	315.9	99.8	8.3	0.0	0.0	0.0	0.0	878.0	8.3	493.2
07/09/09	0.0	0.0	0.0	0.0	0.0	16.6	154.9	331.3	509.2	670.2	765.5	858.0	882.0	854.0	769.9	626.8	496.1	317.0	107.1	6.8	0.0	0.0	0.0	0.0	882.0	6.8	491.0
07/10/09	0.0	0.0	0.0	0.0	0.0	21.6	177.5	307.0	449.9	680.3	682.9	463.0	852.0	851.0	787.9	668.1	421.8	366.0	140.7	14.8	0.0	0.0	0.0	0.0	852.0	14.8	459.0
07/11/09	0.0	0.0	0.0	0.0	0.0	14.4	129.0	330.9	507.6	664.1	793.2	879.0	919.0	888.0	449.9	476.2	505.2	203.3	94.2	11.7	0.0	0.0	0.0	0.0	919.0	11.7	457.7
07/12/09	0.0	0.0	0.0	0.0	0.0	19.5	161.1	309.6	509.1	680.8	658.3	688.1	760.3	700.3	649.2	668.0	497.8	315.6	106.2	7.6	0.0	0.0	0.0	0.0	760.3	7.6	448.8
07/13/09	0.0	0.0	0.0	0.0	0.0	17.0	133.4	318.2	501.7	660.1	781.0	854.0	879.0	855.0	777.0	659.0	492.3	307.4	107.6	7.9	0.0	0.0	0.0	0.0	879.0	7.9	490.0
07/14/09	0.0	0.0	0.0	0.0	0.0	13.5	139.9	320.4	503.0	666.4	787.0	861.0	881.0	851.0	778.5	651.8	490.0	311.1	107.5	7.2	0.0	0.0	0.0	0.0	881.0	7.2	491.3
07/15/09	0.0	0.0	0.0	0.0	0.0	9.6	83.5	151.5	335.7	546.4	633.2	535.8	535.2	835.0	583.5	239.2	174.8	70.5	30.2	4.4	0.0	0.0	0.0	0.0	835.0	4.4	317.9
07/16/09	0.0	0.0	0.0	0.0	0.0	6.7	43.0	229.8	497.7	659.8	776.2	854.0	882.0	810.0	753.7	561.2	401.4	282.3	105.5	14.6	0.0	0.0	0.0	0.0	882.0	6.7	458.5
07/17/09	0.0	0.0	0.0	0.0	0.0	18.0	139.4	308.4	487.4	657.7	764.7	850.0	858.0	836.0	785.4	611.4	34.6	2.1	1.7	1.5	0.0	0.0	0.0	0.0	858.0	1.5	423.7
07/18/09	0.0	0.0	0.0	0.0	0.0	13.5	107.0	318.6	498.3	600.5	794.0	872.0	672.3	806.0	687.3	615.7	507.8	297.4	15.4	9.3	0.0	0.0	0.0	0.0	872.0	9.3	454.3
07/19/09	0.0	0.0	0.0	0.0	0.0	7.7	104.2	308.4	492.3	655.4	778.9	853.0	877.0	854.0	789.5	661.0	489.9	303.7	112.0	7.5	0.0	0.0	0.0	0.0	877.0	7.5	486.3
07/20/09	0.0	0.0	0.0	0.0	0.0	5.2	58.2	111.9	497.2	649.8	780.0	851.0	871.0	842.0	774.1	658.2	532.1	135.8	29.4	3.5	0.0	0.0	0.0	0.0	871.0	3.5	453.3
07/21/09	0.0	0.0	0.0	0.0	0.0	9.8	51.4	109.9	120.7	80.4	128.1	347.9	644.0	848.0	770.9	642.1	479.3	278.4	73.1	4.4	0.0	0.0	0.0	0.0	848.0	4.4	305.9
07/22/09	0.0	0.0	0.0	0.0	0.0	5.0	100.5	345.6	400.7	513.1	524.4	790.5	869.0	883.0	772.4	392.1	290.5	234.0	42.5	5.9	0.0	0.0	0.0	0.0	883.0	5.0	411.3
07/23/09	0.0	0.0	0.0	0.0	0.0	5.2	43.4	108.3	309.5	618.1	755.0	808.0	862.0	867.0	573.4	357.8	364.4	303.6	101.9	5.5	0.0	0.0	0.0	0.0	867.0	5.2	405.5
07/24/09	0.0	0.0	0.0	0.0	0.0	4.9	49.3	117.6	462.0	560.7	463.8	433.9	816.0	750.8	703.5	610.2	344.0	299.4	55.8	5.6	0.0	0.0	0.0	0.0	816.0	4.9	378.5
07/25/09	0.0	0.0	0.0	0.0	0.0	16.8	118.1	268.0	484.4	640.9	786.8	450.5	74.2	370.8	858.0	385.8	107.6	9.1	10.1	0.8	0.0	0.0	0.0	0.0	858.0	0.8	305.5
07/26/09	0.0	0.0	0.0	0.0	0.0	9.0	53.0	270.5	476.3	635.0	756.1	830.0	857.0	830.0	758.8	632.5	473.7	295.7	103.0	5.3	0.0	0.0	0.0	0.0	857.0	5.3	465.7
07/27/09	0.0	0.0	0.0	0.0	0.0	6.4	120.1	297.8	482.7	643.4	767.2	843.0	865.0	839.0	767.1	639.4	477.6	295.6	102.7	4.8	0.0	0.0	0.0	0.0	865.0	4.8	476.8
07/28/09	0.0	0.0	0.0	0.0	0.0	6.1	115.5	288.3	458.0	636.3	767.2	851.0	871.0	846.0	770.7	638.0	477.9	296.2	102.4	5.0	0.0	0.0	0.0	0.0	871.0	5.0	475.3
07/29/09	0.0	0.0	0.0	0.0	0.0	5.9	121.8	302.4	489.1	653.1	776.5	851.0	871.0	831.0	751.8	481.8	444.0	280.5	99.3	4.9	0.0	0.0	0.0	0.0	871.0	4.9	464.3
07/30/09	0.0	0.0	0.0	0.0	0.0	5.3	118.0	305.7	491.9	654.5	778.1	858.0	887.0	858.0	781.5	656.8	489.3	300.7	100.3	4.2	0.0	0.0	0.0	0.0	887.0	4.2	486.0
07/31/09	0.0	0.0	0.0	0.0	0.0	5.2	118.5	301.3	490.9	659.5	786.1	871.0	900.0	866.0	792.2	659.4	493.9	308.2	99.7	4.0	0.0	0.0	0.0	0.0	900.0	4.0	490.4
Hourly Averages	0.0	0.0	0.0	0.0	0.0	11.1	107.5	262.9	447.9	602.3	704.5	751.3	779.6	810.6	744.6	596.6	435.9	266.9	82.1	7.2	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 919.0 **Minimum Hourly Radiation:** 0.8 **Average Monthly Radiation:** 440.7

Maximum 24-Hour Mean: 502.3 **Minimum 24-Hour Mean:** 297.2

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	0.0	0.0	0.0	0.0	0.0	3.4	101.9	308.0	494.5	659.8	785.9	860.0	882.0	853.0	780.7	655.0	487.7	299.0	93.4	4.0	0.0	0.0	0.0	0.0	882.0	3.4	484.6
08/02/09	0.0	0.0	0.0	0.0	0.0	3.7	45.3	243.0	434.0	559.7	774.5	846.0	870.0	840.0	767.4	638.4	472.4	287.2	86.9	3.2	0.0	0.0	0.0	0.0	870.0	3.2	458.1
08/03/09	0.0	0.0	0.0	0.0	0.0	3.4	72.8	223.6	259.1	406.9	708.1	775.9	827.0	817.0	754.8	630.3	468.4	281.5	86.3	4.7	0.0	0.0	0.0	0.0	827.0	3.4	421.3
08/04/09	0.0	0.0	0.0	0.0	0.0	3.6	85.4	277.5	463.5	624.6	745.7	828.0	854.0	822.0	746.6	620.4	457.4	279.4	85.8	4.3	0.0	0.0	0.0	0.0	854.0	3.6	459.9
08/05/09	0.0	0.0	0.0	0.0	0.0	3.2	49.8	204.6	432.6	643.9	761.6	832.0	860.0	834.0	741.7	603.3	462.9	286.8	106.8	6.9	0.0	0.0	0.0	0.0	860.0	3.2	455.3
08/06/09	0.0	0.0	0.0	0.0	0.0	2.1	53.3	258.7	467.7	607.6	293.2	831.0	847.0	798.5	737.0	613.1	451.9	276.4	78.9	3.5	0.0	0.0	0.0	0.0	847.0	2.1	421.3
08/07/09	0.0	0.0	0.0	0.0	0.0	3.9	108.1	294.2	497.1	661.1	788.6	867.0	894.0	864.0	787.4	657.7	486.5	296.4	82.3	2.9	0.0	0.0	0.0	0.0	894.0	2.9	486.1
08/08/09	0.0	0.0	0.0	0.0	0.0	3.8	122.1	315.3	501.8	667.8	792.2	872.0	895.0	866.0	787.5	653.2	483.1	289.4	78.2	2.6	0.0	0.0	0.0	0.0	895.0	2.6	488.7
08/09/09	0.0	0.0	0.0	0.0	0.0	3.4	115.2	305.5	497.1	666.8	797.2	875.0	898.0	867.0	788.0	652.2	478.8	288.5	76.0	2.5	0.0	0.0	0.0	0.0	898.0	2.5	487.4
08/10/09	0.0	0.0	0.0	0.0	0.0	3.1	109.5	296.5	486.5	650.4	773.3	853.0	875.0	844.0	767.5	638.6	468.4	278.8	71.9	3.2	0.0	0.0	0.0	0.0	875.0	3.1	474.6
08/11/09	0.0	0.0	0.0	0.0	0.0	1.9	46.7	225.6	306.1	576.9	542.3	773.7	847.0	630.3	338.3	490.7	385.0	61.6	30.5	1.2	0.0	0.0	0.0	0.0	847.0	1.2	350.5
08/12/09	0.0	0.0	0.0	0.0	0.0	1.7	51.4	242.4	461.4	625.1	748.3	826.0	843.0	816.0	703.0	446.1	404.2	186.0	43.6	2.8	0.0	0.0	0.0	0.0	843.0	1.7	426.7
08/13/09	0.0	0.0	0.0	0.0	0.0	0.4	24.6	94.2	112.9	200.4	150.2	205.7	159.2	107.1	158.6	122.6	104.0	54.1	17.1	0.9	0.0	0.0	0.0	0.0	205.7	0.4	100.8
08/14/09	0.0	0.0	0.0	0.0	0.0	2.0	93.2	273.9	395.5	589.3	755.1	834.0	808.0	704.5	642.8	479.8	393.5	184.7	30.1	1.6	0.0	0.0	0.0	0.0	834.0	1.6	412.5
08/15/09	0.0	0.0	0.0	0.0	0.0	2.1	97.6	283.5	471.7	638.2	766.7	844.0	870.0	836.0	756.3	619.7	451.4	259.8	59.1	1.5	0.0	0.0	0.0	0.0	870.0	1.5	463.8
08/16/09	0.0	0.0	0.0	0.0	0.0	2.0	98.8	283.3	472.0	641.0	771.1	851.0	877.0	847.0	768.9	638.1	465.0	270.8	61.3	1.4	0.0	0.0	0.0	0.0	877.0	1.4	469.9
08/17/09	0.0	0.0	0.0	0.0	0.0	1.8	99.7	289.3	481.0	650.8	780.5	859.0	882.0	849.0	772.4	632.8	459.7	264.8	57.3	1.2	0.0	0.0	0.0	0.0	882.0	1.2	472.1
08/18/09	0.0	0.0	0.0	0.0	0.0	1.7	97.4	285.8	475.0	643.3	772.0	850.0	868.0	830.0	747.6	612.3	442.8	253.9	53.2	1.0	0.0	0.0	0.0	0.0	868.0	1.0	462.3
08/19/09	0.0	0.0	0.0	0.0	0.0	1.7	86.1	272.2	463.7	631.4	761.6	840.0	865.0	830.0	744.6	608.5	437.6	249.9	51.8	1.0	0.0	0.0	0.0	0.0	865.0	1.0	456.3
08/20/09	0.0	0.0	0.0	0.0	0.0	1.7	81.7	261.8	451.2	621.3	749.1	825.0	845.0	810.0	726.1	589.4	423.5	228.5	47.8	0.9	0.0	0.0	0.0	0.0	845.0	0.9	444.2
08/21/09	0.0	0.0	0.0	0.0	0.0	1.2	73.2	251.8	473.3	554.6	718.1	781.2	591.3	757.0	756.4	298.6	78.1	140.1	13.9	0.3	0.0	0.0	0.0	0.0	781.2	0.3	365.9
08/22/09	0.0	0.0	0.0	0.0	0.0	1.1	26.5	86.1	231.2	323.9	672.3	456.0	302.6	371.8	291.0	283.4	165.2	235.5	35.4	0.4	0.0	0.0	0.0	0.0	672.3	0.4	232.2
08/23/09	0.0	0.0	0.0	0.0	0.0	1.2	79.0	261.0	449.4	640.4	668.2	771.2	840.0	871.0	698.6	593.6	426.9	235.6	44.1	0.4	0.0	0.0	0.0	0.0	871.0	0.4	438.7
08/24/09	0.0	0.0	0.0	0.0	0.0	0.7	69.7	255.3	442.9	610.2	775.0	666.8	808.0	932.0	637.9	418.9	396.8	228.5	41.6	0.3	0.0	0.0	0.0	0.0	932.0	0.3	419.0
08/25/09	0.0	0.0	0.0	0.0	0.0	0.8	73.2	253.2	443.8	610.6	743.9	832.0	457.0	720.3	288.8	161.8	462.1	224.5	37.7	0.3	0.0	0.0	0.0	0.0	832.0	0.3	354.0
08/26/09	0.0	0.0	0.0	0.0	0.0	1.0	78.1	263.0	455.0	625.3	756.3	836.0	856.0	826.0	743.3	605.7	399.6	226.6	37.8	0.3	0.0	0.0	0.0	0.0	856.0	0.3	447.3
08/27/09	0.0	0.0	0.0	0.0	0.0	0.8	81.1	201.3	457.6	626.6	755.9	834.0	861.0	775.2	634.4	558.5	416.7	221.1	36.3	0.3	0.0	0.0	0.0	0.0	861.0	0.3	430.7
08/28/09	0.0	0.0	0.0	0.0	0.0	0.8	73.0	259.1	450.6	617.8	745.0	822.0	847.0	743.3	435.0	319.7	422.5	56.8	14.9	0.1	0.0	0.0	0.0	0.0	847.0	0.1	387.2
08/29/09	0.0	0.0	0.0	0.0	0.0	0.8	72.4	258.8	450.5	619.5	751.5	828.0	848.0	806.0	735.2	617.3	482.2	221.2	48.7	0.1	0.0	0.0	0.0	0.0	848.0	0.1	449.3
08/30/09	0.0	0.0	0.0	0.0	0.0	0.4	35.4	210.2	334.1	626.9	625.7	818.0	828.0	793.3	714.1	556.3	374.0	232.5	84.8	0.1	0.0	0.0	0.0	0.0	828.0	0.1	415.6
08/31/09	0.0	0.0	0.0	0.0	0.0	0.5	55.3	146.3	391.9	448.2	742.5	762.1	623.0	681.8	474.0	280.8	284.2	62.5	14.5	0.0	0.0	0.0	0.0	0.0	762.1	0.0	354.8
Hourly Averages	0.0	0.0	0.0	0.0	0.0	1.9	76.0	247.9	426.0	589.4	708.8	792.1	788.0	772.4	658.9	525.7	406.2	224.6	55.1	1.7	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 932.0 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 419.1

Maximum 24-Hour Mean: 488.7 **Minimum 24-Hour Mean:** 100.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	0.0	0.0	0.0	0.0	0.0	0.0	69.7	240.9	422.6	595.4	681.7	799.6	724.5	755.3	680.3	434.2	306.1	181.2	22.8	0.0	0.0	0.0	0.0	0.0	799.6	22.8	454.9
09/02/09	0.0	0.0	0.0	0.0	0.0	0.0	51.5	101.4	433.6	589.0	718.1	798.2	803.0	669.7	682.1	433.3	263.3	105.1	19.6	0.0	0.0	0.0	0.0	0.0	803.0	19.6	436.0
09/03/09	0.0	0.0	0.0	0.0	0.0	0.0	28.9	165.1	428.1	578.1	660.6	785.4	821.0	788.2	695.6	591.0	125.3	10.3	6.9	0.0	0.0	0.0	0.0	0.0	821.0	6.9	437.3
09/04/09	0.0	0.0	0.0	0.0	0.0	0.0	21.3	183.4	424.8	583.2	691.4	782.0	819.0	771.0	711.7	557.4	391.4	225.0	31.3	0.0	0.0	0.0	0.0	0.0	819.0	21.3	476.4
09/05/09	0.0	0.0	0.0	0.0	0.0	0.0	5.5	2.1	6.2	16.9	96.0	278.9	601.6	708.0	535.2	421.2	243.6	68.8	13.0	0.0	0.0	0.0	0.0	0.0	708.0	2.1	230.5
09/06/09	0.0	0.0	0.0	0.0	0.0	0.0	45.6	212.4	408.2	501.1	461.8	444.7	784.7	769.1	685.6	544.0	366.6	202.0	60.2	0.0	0.0	0.0	0.0	0.0	784.7	45.6	422.0
09/07/09	0.0	0.0	0.0	0.0	0.0	0.0	53.0	229.0	414.7	578.6	707.3	633.5	419.9	192.5	352.2	428.1	376.4	179.2	12.3	0.0	0.0	0.0	0.0	0.0	707.3	12.3	352.0
09/08/09	0.0	0.0	0.0	0.0	0.0	0.0	52.9	225.5	411.7	579.5	720.9	815.0	831.0	807.0	663.4	376.0	316.0	171.7	37.7	0.0	0.0	0.0	0.0	0.0	831.0	37.7	462.2
09/09/09	0.0	0.0	0.0	0.0	0.0	0.0	46.9	231.0	418.6	585.0	709.5	783.1	801.0	762.0	679.1	539.7	362.8	183.3	16.4	0.0	0.0	0.0	0.0	0.0	801.0	16.4	470.6
09/10/09	0.0	0.0	0.0	0.0	0.0	0.0	46.2	230.0	417.0	583.8	710.9	787.1	564.2	838.0	745.8	606.3	378.9	172.8	12.1	0.0	0.0	0.0	0.0	0.0	838.0	12.1	468.7
09/11/09	0.0	0.0	0.0	0.0	0.0	0.0	54.0	226.3	405.4	579.4	705.5	716.2	340.3	290.2	538.4	295.9	54.6	32.3	7.8	0.0	0.0	0.0	0.0	0.0	716.2	7.8	326.6
09/12/09	0.0	0.0	0.0	0.0	0.0	0.0	34.2	196.5	409.5	575.9	703.2	776.6	794.7	750.7	715.3	377.5	442.7	225.1	30.9	0.0	0.0	0.0	0.0	0.0	794.7	30.9	464.1
09/13/09	0.0	0.0	0.0	0.0	0.0	0.0	37.7	208.5	399.2	562.5	692.7	579.7	627.2	694.5	417.7	341.2	356.8	167.5	13.4	0.0	0.0	0.0	0.0	0.0	694.5	13.4	392.2
09/14/09	0.0	0.0	0.0	0.0	0.0	0.0	41.7	212.5	362.7	541.7	510.1	756.3	801.0	670.7	671.0	531.0	336.8	134.8	7.4	0.0	0.0	0.0	0.0	0.0	801.0	7.4	429.1
09/15/09	0.0	0.0	0.0	0.0	0.0	0.0	46.1	230.1	420.9	585.7	710.3	781.3	805.0	761.4	665.0	514.5	330.8	142.5	6.2	0.0	0.0	0.0	0.0	0.0	805.0	6.2	461.5
09/16/09	0.0	0.0	0.0	0.0	0.0	0.0	42.8	223.0	413.7	580.3	702.9	783.8	801.0	754.8	658.2	516.7	339.2	143.1	5.6	0.0	0.0	0.0	0.0	0.0	801.0	5.6	458.9
09/17/09	0.0	0.0	0.0	0.0	0.0	0.0	45.7	222.2	410.1	572.9	701.3	784.3	820.0	709.4	734.2	414.2	263.1	144.2	6.3	0.0	0.0	0.0	0.0	0.0	820.0	6.3	448.3
09/18/09	0.0	0.0	0.0	0.0	0.0	0.0	43.4	216.7	402.9	567.6	692.2	761.8	775.8	656.8	448.4	415.0	57.5	112.0	16.5	0.0	0.0	0.0	0.0	0.0	775.8	16.5	397.4
09/19/09	0.0	0.0	0.0	0.0	0.0	0.0	41.3	211.1	394.4	562.2	620.7	777.4	442.5	120.7	202.1	475.5	249.9	116.2	6.0	0.0	0.0	0.0	0.0	0.0	777.4	6.0	324.6
09/20/09	0.0	0.0	0.0	0.0	0.0	0.0	37.0	206.5	394.0	556.2	684.8	753.2	770.8	741.5	645.0	496.3	310.7	114.4	4.6	0.0	0.0	0.0	0.0	0.0	770.8	4.6	439.6
09/21/09	0.0	0.0	0.0	0.0	0.0	0.0	17.3	193.3	391.0	557.4	685.5	758.3	773.4	728.1	634.2	490.7	310.1	107.8	4.3	0.0	0.0	0.0	0.0	0.0	773.4	4.3	434.7
09/22/09	0.0	0.0	0.0	0.0	0.0	0.0	40.9	222.6	416.0	585.5	713.9	790.9	808.0	762.9	663.7	514.2	330.3	116.5	4.0	0.0	0.0	0.0	0.0	0.0	808.0	4.0	459.2
09/23/09	0.0	0.0	0.0	0.0	0.0	0.0	40.5	222.7	422.1	593.6	720.2	791.3	803.0	757.2	656.4	504.1	317.9	108.0	3.8	0.0	0.0	0.0	0.0	0.0	803.0	3.8	457.0
09/24/09	0.0	0.0	0.0	0.0	0.0	0.0	39.9	222.2	415.3	584.1	711.3	784.1	794.4	746.7	647.6	497.6	308.8	100.0	3.3	0.0	0.0	0.0	0.0	0.0	794.4	3.3	450.4
09/25/09	0.0	0.0	0.0	0.0	0.0	0.0	37.7	216.5	407.4	574.5	700.5	769.3	783.7	728.3	632.1	482.4	301.1	94.5	2.8	0.0	0.0	0.0	0.0	0.0	783.7	2.8	440.8
09/26/09	0.0	0.0	0.0	0.0	0.0	0.0	37.5	221.0	412.7	579.0	705.1	775.6	785.3	735.7	636.1	485.6	301.4	93.7	2.6	0.0	0.0	0.0	0.0	0.0	785.3	2.6	443.9
09/27/09	0.0	0.0	0.0	0.0	0.0	0.0	37.0	220.3	413.6	581.1	706.7	778.3	787.6	739.9	638.3	484.6	297.6	87.0	2.3	0.0	0.0	0.0	0.0	0.0	787.6	2.3	444.2
09/28/09	0.0	0.0	0.0	0.0	0.0	0.0	34.2	212.3	403.3	571.2	696.0	765.0	775.6	720.8	607.3	430.8	250.0	69.3	2.2	0.0	0.0	0.0	0.0	0.0	775.6	2.2	426.0
09/29/09	0.0	0.0	0.0	0.0	0.0	0.0	31.9	208.3	394.2	553.1	677.9	741.6	758.0	712.7	611.8	462.9	279.2	76.9	1.7	0.0	0.0	0.0	0.0	0.0	758.0	1.7	423.9
09/30/09	0.0	0.0	0.0	0.0	0.0	0.0	42.8	66.2	90.8	236.5	265.5	307.6	688.3	580.0	482.0	453.5	270.6	77.1	1.8	0.0	0.0	0.0	0.0	0.0	688.3	1.8	274.1
Hourly Averages																											
	0.0	0.0	0.0	0.0	0.0	0.0	40.2	199.3	385.5	543.0	648.8	721.3	730.2	680.8	611.2	470.5	294.6	125.4	12.2	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 838.0 **Minimum Hourly Radiation:** 1.7 **Average Monthly Radiation:** 420.2

Maximum 24-Hour Mean: 476.4 **Minimum 24-Hour Mean:** 230.5

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

APPENDIX KC1-H

HOURLY EVAPORATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
07/01/09	0.013	0.008	0.005	0.005	0.000	0.000	INV	0.000	INV	0.000	0.000	0.000	0.000	0.003	0.015	0.015	0.026	0.023	0.028	0.020	0.000	0.000	0.000	0.000	0.161
07/02/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	INV	0.000	INV	0.000	0.003	0.000	0.010	0.013	0.020	0.025	0.026	0.023	0.015	0.010	0.013	0.008	0.169
07/03/09	0.008	0.008	0.008	0.002	0.002	0.005	0.003	0.003	0.003	0.003	0.005	0.008	0.018	0.013	0.023	0.028	0.028	0.036	0.046	0.033	0.015	0.015	0.013	0.007	0.333
07/04/09	0.005	0.005	0.003	0.005	0.000	0.003	0.003	0.005	0.005	0.005	0.010	0.015	0.023	0.026	0.031	0.031	0.033	0.041	0.033	0.023	0.020	0.018	0.013	0.008	0.364
07/05/09	0.008	0.005	0.008	0.005	0.005	0.002	0.005	0.003	0.003	0.010	0.015	0.015	0.029	0.033	0.041	0.046	0.041	0.038	0.041	0.041	0.031	0.023	0.010	0.008	0.466
07/06/09	0.013	0.010	0.005	0.013	0.005	0.005	0.008	INV	0.003	0.005	0.010	0.023	0.026	0.025	0.028	0.041	0.038	0.053	0.048	0.041	0.028	0.015	0.013	0.008	0.464
07/07/09	0.015	0.010	0.008	0.010	0.008	0.003	0.005	0.000	0.000	0.003	0.005	0.013	0.018	0.026	0.033	0.036	0.043	0.036	0.041	0.028	0.023	0.013	0.013	0.018	0.408
07/08/09	0.013	0.008	0.008	0.005	0.005	0.010	0.010	0.005	0.008	0.010	0.013	0.015	0.018	0.023	0.028	0.028	0.033	0.033	0.036	0.023	0.020	0.028	0.018	0.010	0.408
07/09/09	0.008	0.005	0.005	0.005	0.005	0.003	0.006	0.003	0.003	0.005	0.005	0.020	0.023	0.028	0.031	0.048	0.038	0.041	0.038	0.031	0.015	0.013	0.015	0.010	0.404
07/10/09	0.013	0.005	0.008	0.008	0.005	0.005	0.005	0.008	0.013	0.008	0.008	INV	0.021	0.026	0.028	0.031	0.038	0.036	0.041	0.035	0.036	0.026	0.020	0.015	0.439
07/11/09	0.013	0.013	0.010	0.008	0.010	0.008	0.005	0.003	0.005	0.005	0.010	0.016	0.018	0.023	0.036	0.028	0.041	0.033	0.025	0.031	0.028	0.018	0.018	0.015	0.420
07/12/09	0.013	0.018	0.018	0.008	0.005	0.010	0.013	0.005	0.005	0.010	0.020	0.021	0.021	0.036	0.026	0.031	0.041	0.036	0.035	0.033	0.028	0.020	0.018	0.015	0.486
07/13/09	0.018	0.015	0.010	0.008	0.005	0.005	0.003	0.000	0.005	INV	0.020	0.018	0.031	0.023	0.031	0.041	0.043	0.048	0.046	0.031	0.033	0.023	0.015	0.015	0.487
07/14/09	0.010	0.008	0.005	0.005	0.010	0.005	0.000	0.005	0.008	0.010	0.013	0.021	0.026	0.031	0.038	0.039	0.043	0.038	0.041	0.036	0.031	0.018	0.018	0.018	0.477
07/15/09	0.015	0.008	0.008	0.008	0.005	0.005	0.005	0.003	0.005	0.003	0.010	0.015	0.015	0.015	0.023	0.028	0.031	0.031	0.028	0.028	0.020	0.020	0.018	0.013	0.360
07/16/09	0.008	0.005	0.005	0.005	0.003	0.003	0.005	0.000	0.003	0.008	0.013	0.018	0.020	0.031	0.046	0.041	0.046	0.036	0.036	0.046	0.033	0.020	0.008	0.010	0.449
07/17/09	0.013	0.008	0.008	0.005	0.005	0.003	0.005	0.003	0.008	0.005	INV	0.003	0.021	0.021	0.031	0.041	0.000	0.000	0.020	0.020	0.013	0.008	0.010	0.008	0.259
07/18/09	0.008	0.008	0.010	0.008	0.008	0.010	0.005	0.005	0.003	0.005	0.008	0.011	0.023	0.023	0.023	0.033	0.033	0.036	0.000	0.000	0.010	0.003	0.008	0.008	0.289
07/19/09	0.008	0.005	0.005	0.005	0.005	0.003	0.003	0.003	0.005	0.005	0.008	0.015	0.018	0.026	0.033	0.038	0.033	0.038	0.038	0.041	0.023	0.020	0.010	0.013	0.401
07/20/09	0.013	0.013	0.008	0.010	0.008	0.005	0.005	0.003	0.000	0.005	0.008	0.018	0.028	0.023	0.043	0.046	0.043	0.041	0.000	0.000	0.000	0.005	0.005	0.005	0.335
07/21/09	0.005	0.002	0.005	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	INV	0.000	0.003	0.015	0.020	0.023	0.023	0.026	0.031	0.023	0.013	0.010	0.008	0.219
07/22/09	0.010	0.013	0.002	0.005	0.005	0.003	0.003	0.000	0.003	0.003	0.010	0.010	0.018	0.023	0.036	0.048	0.046	0.048	0.026	0.026	0.013	0.013	0.010	0.010	0.384
07/23/09	0.007	0.008	0.005	0.005	0.005	0.003	0.008	0.001	0.003	0.003	0.003	0.013	0.018	0.026	0.036	0.033	0.028	0.028	0.023	0.023	0.020	0.000	0.000	0.000	0.299
07/24/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	INV	0.000	0.005	0.013	0.018	0.020	0.023	0.020	0.023	0.018	0.010	0.010	0.008	0.008	0.176
07/25/09	0.005	0.005	0.005	0.005	0.005	0.003	0.005	0.003	0.003	0.008	0.013	0.023	0.000	0.000	0.000	0.003	0.003	0.018	0.013	0.013	0.008	0.005	0.008	0.005	0.159
07/26/09	0.005	0.005	0.005	0.005	0.005	0.005	0.003	0.003	0.008	0.008	0.010	0.015	0.018	0.023	0.023	0.028	0.038	0.031	0.036	0.026	0.020	0.023	0.013	0.010	0.366
07/27/09	0.015	0.015	0.015	0.013	0.013	0.013	0.008	0.005	0.008	0.010	0.013	0.018	0.026	0.031	0.033	0.036	0.035	0.038	0.030	0.028	0.023	0.020	0.020	0.015	0.481
07/28/09	0.015	0.015	0.023	0.013	0.010	0.010	0.003	0.003	0.008	0.005	0.013	0.013	0.028	0.038	0.041	0.041	0.049	0.051	0.051	0.041	0.033	0.026	0.015	0.015	0.560
07/29/09	0.010	0.013	0.013	0.010	0.010	0.008	0.008	0.003	0.008	0.003	0.013	0.015	0.020	0.031	INV	0.092	0.043	0.038	0.036	0.033	0.031	0.026	0.013	0.015	0.492
07/30/09	0.015	0.015	0.013	0.013	0.013	0.010	0.005	0.005	0.003	0.005	0.008	0.015	0.020	0.028	0.031	0.036	0.038	0.028	0.038	0.031	0.018	0.013	0.010	0.010	0.421
07/31/09	0.008	0.008	0.010	0.010	0.008	0.004	0.006	0.000	0.003	0.013	0.015	0.015	0.020	0.026	0.031	0.038	0.033	0.038	0.038	0.038	0.026	0.013	0.010	0.010	0.421

Total Evaporation for the month = 11.557

Total Number of Observations: 733 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
08/01/09	0.005	0.010	0.010	0.005	0.005	0.008	0.008	0.005	0.010	0.013	0.018	0.018	0.023	0.028	0.036	0.041	0.051	0.043	0.041	0.033	0.031	0.028	0.033	0.023	0.526
08/02/09	0.023	0.015	0.010	0.008	0.005	0.007	0.005	0.003	0.000	0.000	0.005	0.015	0.018	0.031	0.031	0.043	0.048	0.043	0.038	0.031	0.028	0.015	0.010	0.008	0.440
08/03/09	0.008	0.005	0.003	0.008	0.003	0.005	0.000	0.005	0.003	0.003	0.008	0.018	0.023	0.031	0.036	0.038	0.043	0.033	0.041	0.036	0.033	0.026	0.023	0.013	0.445
08/04/09	0.013	0.008	0.008	0.008	0.005	0.003	0.000	0.000	0.005	0.005	0.015	0.015	INV	0.018	0.028	0.036	0.036	0.036	0.043	0.031	0.028	0.020	0.018	0.018	0.397
08/05/09	0.010	0.008	0.008	0.008	0.008	0.008	0.008	0.003	0.003	0.005	0.013	0.020	0.021	0.033	0.031	0.041	0.046	0.041	0.028	0.028	0.018	0.018	0.010	0.008	0.425
08/06/09	0.008	0.010	0.008	0.008	0.008	0.005	0.005	0.005	0.008	0.005	0.013	0.013	0.020	INV	0.046	0.038	0.041	0.043	0.041	0.031	0.028	0.026	0.015	0.010	0.435
08/07/09	0.010	0.008	0.010	0.005	0.010	0.008	0.008	0.005	0.008	0.008	0.020	0.018	0.028	0.031	0.033	0.033	0.036	0.036	0.033	0.028	0.023	0.018	0.010	0.010	0.437
08/08/09	0.005	0.007	0.008	0.005	0.005	0.005	0.005	0.001	0.006	0.005	0.008	0.013	0.020	0.028	0.031	0.031	0.036	0.031	0.036	0.020	0.013	0.013	0.010	0.008	0.350
08/09/09	0.008	0.005	0.007	0.005	0.005	0.005	0.003	0.001	0.003	0.005	0.008	0.020	0.020	0.031	0.033	0.041	0.043	0.033	0.036	0.028	0.018	0.010	0.012	0.010	0.390
08/10/09	0.008	0.008	0.005	0.010	0.008	0.015	0.000	0.006	0.003	0.008	0.013	0.015	0.018	0.023	0.036	0.038	0.038	0.033	0.041	0.033	0.026	0.023	0.015	0.015	0.438
08/11/09	0.013	0.010	0.005	0.005	0.005	0.002	0.003	0.006	0.005	0.003	0.008	0.010	0.018	0.026	0.038	0.031	0.036	0.036	0.028	0.023	0.020	0.005	0.005	0.005	0.346
08/12/09	0.005	0.005	0.005	0.005	0.000	0.005	0.000	0.000	0.003	0.008	0.015	0.018	0.026	0.031	0.044	0.041	0.031	0.046	0.038	0.031	0.013	0.010	0.008	0.010	0.398
08/13/09	0.008	0.000	0.000	0.003	0.005	0.002	0.005	0.000	0.003	0.000	0.003	0.005	0.005	0.008	INV	0.148	0.156	0.143	0.138	0.145	0.135	0.146	0.140	0.158	1.356
08/14/09	0.158	0.155	0.141	0.138	0.130	0.128	0.128	0.123	0.103	0.089	0.092	0.077	0.079	0.069	0.069	0.094	0.094	0.089	0.100	0.092	0.087	0.082	0.069	0.089	2.475
08/15/09	0.079	0.066	0.084	0.079	0.077	0.077	0.069	0.067	0.071	0.059	0.064	0.061	0.066	0.084	0.077	0.089	0.089	0.084	0.071	0.079	0.061	0.059	0.064	0.046	1.722
08/16/09	0.038	0.008	0.000	0.000	INV	INV	INV	0.102	INV	0.000	0.000	0.010	0.043	0.051	0.069	0.059	0.061	0.051	0.000	INV	0.000	0.000	INV	INV	0.492
08/17/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	INV	0.000	0.000	INV	0.079	0.087	0.087	0.092	0.084	0.079	0.061	0.059	0.054	0.056	0.740
08/18/09	0.061	0.059	0.054	0.053	0.056	0.051	0.049	0.041	0.041	0.041	0.046	0.048	0.044	0.054	0.056	0.071	0.066	0.082	0.059	0.064	0.056	0.051	0.048	0.048	1.299
08/19/09	0.046	0.051	0.046	0.043	0.038	0.041	0.036	0.031	0.028	0.026	0.031	0.031	0.036	0.043	0.048	0.051	0.066	0.056	0.061	0.059	0.048	0.038	0.036	0.036	1.026
08/20/09	0.036	0.033	0.033	0.038	0.036	0.028	0.031	0.028	0.028	0.026	0.036	0.036	0.041	0.054	0.056	0.061	0.056	0.059	0.061	0.048	0.046	0.038	0.036	0.033	0.978
08/21/09	0.033	0.033	0.028	0.026	0.023	0.025	0.018	0.018	0.018	0.023	0.023	0.031	0.038	INV	INV	0.000	0.061	0.041	0.041	0.036	0.000	0.035	0.022	0.031	0.604
08/22/09	0.025	0.026	0.023	0.020	0.020	0.015	0.020	0.015	0.013	0.015	0.015	0.020	0.026	0.023	0.023	0.028	0.033	0.026	0.031	0.023	0.020	0.018	0.018	0.018	0.514
08/23/09	0.018	0.018	0.020	0.015	0.021	0.015	0.015	0.011	0.013	0.013	0.020	0.018	0.028	0.033	0.041	0.043	0.056	0.043	0.043	0.038	0.031	0.033	0.028	0.023	0.637
08/24/09	0.020	0.033	0.064	0.003	0.003	0.005	0.000	0.003	0.000	0.005	0.003	0.010	0.015	0.018	0.033	0.033	0.031	0.028	0.038	0.023	0.013	0.018	0.010	0.007	0.416
08/25/09	0.007	0.005	0.005	0.002	0.010	0.005	0.003	0.003	0.003	0.005	0.003	0.013	0.023	0.018	0.028	0.000	0.000	0.023	0.020	0.020	0.013	0.010	0.007	0.005	0.231
08/26/09	0.005	0.005	0.003	0.005	0.005	0.005	0.000	0.008	0.000	0.003	0.005	0.015	0.023	0.028	0.036	0.038	0.036	0.031	0.033	0.028	0.020	0.026	0.010	0.013	0.381
08/27/09	0.013	0.013	0.010	0.005	0.005	0.005	0.005	0.003	0.003	0.005	0.010	0.020	0.026	0.033	0.041	0.041	0.038	0.036	0.033	0.026	0.020	0.020	0.020	0.020	0.451
08/28/09	0.015	0.013	0.010	0.010	0.010	0.008	0.008	0.005	0.010	0.010	INV	0.023	0.028	0.036	0.043	0.033	0.036	0.061	0.026	0.026	0.023	0.115	0.005	0.008	0.562
08/29/09	0.010	0.008	0.005	0.008	0.004	0.008	0.008	0.006	0.008	0.008	0.013	0.018	0.021	0.021	0.030	0.031	0.035	0.035	0.033	0.026	0.018	0.010	0.010	0.008	0.382
08/30/09	0.008	0.005	0.008	0.036	0.002	0.002	0.002	0.000	0.003	0.003	0.010	0.013	0.018	0.028	0.033	0.033	0.041	0.031	0.033	0.028	0.020	0.015	0.008	0.013	0.393
08/31/09	0.010	0.008	0.007	0.005	0.005	0.008	0.008	0.005	0.013	0.008	0.013	0.015	0.020	0.023	0.028	0.025	0.036	0.026	0.026	0.023	0.020	0.000	0.008	0.008	0.348

Total Evaporation for the month = 20.034

Total Number of Observations: 729 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
09/01/09	0.007	0.007	0.005	0.010	0.010	0.008	0.008	0.003	0.003	0.010	0.015	0.015	0.020	0.015	0.026	0.000	0.020	0.028	0.033	0.026	0.018	0.018	0.015	0.018	0.338
09/02/09	0.010	0.015	0.010	0.008	0.005	0.003	0.005	0.003	0.001	INV	0.005	0.008	0.015	0.020	0.028	0.038	0.038	0.031	0.031	0.020	0.015	0.036	0.005	0.008	0.358
09/03/09	0.008	0.008	0.008	0.005	0.005	0.008	0.010	0.008	0.005	0.003	0.010	0.018	0.018	0.028	0.033	0.031	INV	INV	0.000	0.005	0.000	0.000	INV	INV	0.211
09/04/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.005	0.010	0.015	0.028	0.023	0.026	0.031	0.026	0.023	0.010	0.010	0.010	0.008	0.226
09/05/09	0.013	0.018	0.003	0.003	0.000	0.005	0.000	0.000	INV	INV	INV	INV	INV	0.000	0.000	0.003	0.010	0.013	0.013	0.008	0.007	0.005	0.005	0.005	0.111
09/06/09	0.002	0.023	0.000	0.000	0.002	0.000	0.003	0.000	0.000	0.003	0.003	0.008	0.013	0.015	0.018	0.026	0.026	0.031	0.031	0.020	0.013	0.010	0.005	0.010	0.262
09/07/09	0.005	0.005	0.003	0.005	0.002	0.002	0.000	0.000	0.000	0.003	0.008	0.013	0.015	0.018	0.013	0.018	0.020	0.023	0.026	0.018	0.013	0.015	0.008	0.005	0.238
09/08/09	0.005	0.005	0.003	0.000	0.002	0.003	0.000	0.000	0.000	0.003	0.005	0.013	0.018	0.023	0.033	0.036	0.031	0.028	0.031	0.026	INV	0.000	0.000	0.000	0.265
09/09/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	INV	0.000	0.000	0.000	0.008	0.010	0.015	0.023	0.028	0.028	0.026	0.028	0.020	0.013	0.013	0.010	0.010	0.232
09/10/09	0.005	0.005	0.003	0.015	0.002	0.005	0.005	0.003	0.000	0.003	0.005	0.008	0.015	0.023	0.031	0.033	0.036	0.038	0.026	0.013	0.013	0.008	0.008	0.007	0.310
09/11/09	0.023	0.008	0.015	0.005	0.005	0.005	0.003	0.005	0.003	INV	0.000	0.003	0.010	0.000	0.008	0.010	0.020	0.015	0.013	0.015	0.013	0.015	0.018	0.012	0.224
09/12/09	0.012	0.013	0.007	0.010	0.008	0.010	0.008	0.003	0.006	0.005	0.005	0.010	0.010	0.015	0.020	0.028	0.023	0.033	0.031	0.023	0.015	0.015	0.012	0.010	0.332
09/13/09	0.008	0.005	0.008	0.005	0.003	0.002	0.005	0.003	0.006	0.005	0.005	0.008	0.010	0.013	0.023	0.018	0.020	0.026	0.026	0.020	0.013	0.013	INV	0.000	0.245
09/14/09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.005	0.008	0.018	0.020	0.026	0.026	0.033	0.031	0.031	0.018	0.015	0.012	0.007	0.251
09/15/09	0.008	0.008	0.008	0.018	0.008	0.002	0.002	0.003	0.003	0.005	0.003	0.008	0.015	0.020	0.028	0.026	0.023	0.028	0.028	0.026	0.015	0.010	0.007	0.007	0.309
09/16/09	0.005	0.015	0.003	0.004	0.002	0.005	0.000	0.003	0.003	0.008	0.008	0.010	0.015	0.018	0.028	0.043	0.033	0.028	0.033	0.020	0.010	0.010	0.010	0.007	0.321
09/17/09	0.010	0.008	0.008	0.005	0.005	0.008	0.008	0.008	0.003	0.003	0.008	0.008	0.013	0.018	0.028	0.036	0.046	0.028	0.023	0.018	0.020	0.020	0.015	0.010	0.357
09/18/09	0.010	0.010	0.007	0.008	0.005	0.005	0.005	0.000	0.003	0.003	0.005	0.013	0.010	0.018	INV	0.020	0.036	0.033	0.038	0.031	0.030	0.027	0.028	0.023	0.368
09/19/09	0.023	0.018	0.021	0.013	0.013	0.015	0.015	0.010	0.014	0.013	0.028	0.015	0.033	0.000	0.015	0.020	0.036	0.038	0.038	0.023	0.025	0.020	0.018	0.031	0.495
09/20/09	0.002	0.003	0.003	0.003	0.000	0.003	0.003	0.001	0.001	0.000	0.000	0.003	0.008	0.018	0.026	0.028	0.031	0.031	0.026	0.020	0.010	0.013	0.010	0.010	0.253
09/21/09	0.005	0.010	0.010	0.005	0.005	0.002	0.008	0.003	0.001	0.003	0.005	0.010	0.013	0.020	0.028	0.028	0.031	0.031	0.031	0.026	0.018	0.013	0.008	0.007	0.321
09/22/09	0.005	0.008	0.010	0.023	0.018	0.023	0.028	0.016	0.023	0.024	0.021	0.026	0.026	0.026	0.023	0.031	0.033	0.028	0.036	0.020	0.018	0.020	0.023	0.018	0.527
09/23/09	0.018	0.018	0.010	0.020	0.013	0.013	0.010	0.008	0.010	0.008	0.016	0.015	0.020	0.023	0.020	0.026	0.028	0.028	0.018	0.012	0.012	0.013	0.008	0.008	0.375
09/24/09	0.010	0.008	0.005	0.010	0.015	0.008	0.008	0.005	0.005	0.008	0.008	0.018	0.015	0.015	0.020	0.023	0.020	0.023	0.018	0.012	0.013	0.010	0.013	0.013	0.303
09/25/09	0.015	0.008	0.007	0.008	0.008	0.005	0.008	0.005	0.006	0.008	0.008	0.013	INV	0.003	0.003	0.018	0.018	0.023	0.023	0.023	0.013	0.009	0.010	0.010	0.252
09/26/09	0.010	0.005	0.010	0.007	0.008	0.007	0.008	0.006	0.011	0.003	0.005	0.008	0.013	0.018	0.021	0.023	0.020	0.036	0.023	0.028	0.013	0.013	0.009	0.010	0.315
09/27/09	0.008	0.008	0.005	0.008	0.007	0.005	0.010	0.006	0.011	0.008	0.008	0.010	0.015	0.026	0.023	0.028	0.028	0.033	0.026	0.023	0.013	0.010	0.007	0.008	0.334
09/28/09	0.005	0.005	0.005	0.008	0.002	0.005	0.005	0.003	0.003	0.005	0.005	0.010	0.018	0.023	0.023	0.026	0.028	0.028	0.023	0.015	0.013	0.015	0.010	0.007	0.290
09/29/09	0.008	0.005	0.008	0.005	0.005	0.005	0.002	0.006	0.003	0.013	INV	INV	INV	1.082	0.064	0.033	0.036	0.028	0.028	0.015	0.010	0.005	0.010	0.007	1.378
09/30/09	0.008	0.011	0.007	0.007	0.008	0.005	0.005	0.003	0.005	0.003	0.005	0.008	0.008	0.015	0.023	0.023	0.031	0.026	0.023	0.028	0.017	0.013	0.012	0.018	0.312

Total Evaporation for the month = 10.113

Total Number of Observations: 701 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
07/01/09	0.00	0.00	0.00	0.00	0.23	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.01	0.37
07/02/09	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
07/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/05/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/13/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03
07/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.21
07/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.01	0.00	0.00	0.00	0.10
07/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
07/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	0.05	0.23
07/24/09	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
07/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
07/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/31/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 1.38

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
08/01/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/05/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/13/09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
08/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.13
08/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
08/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/31/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01

Total Precipitation for the month = 0.19

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
09/01/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.05	0.00	0.00	0.01	0.01	0.03	0.01	0.25
09/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/05/09	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
09/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.31
09/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
09/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/13/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.16
09/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
09/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.99

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

METEOROLOGICAL MEASUREMENTS

KC2 SITE

APPENDIX KC2-A: HOURLY WIND SPEED/DIRECTION DATA
APPENDIX KC2-B: HOURLY SIGMA THETA DATA
APPENDIX KC2-C: HOURLY DIFFERENTIAL TEMPERATURE DATA
APPENDIX KC2-D: HOURLY TEMPERATURE DATA
APPENDIX KC2-E: HOURLY RELATIVE HUMIDITY
APPENDIX KC2-F: HOURLY BAROMETRIC PRESSURE DATA
APPENDIX KC2-G: HOURLY SOLAR RADIATION DATA
APPENDIX KC2-H: HOURLY EVAPORATION DATA
APPENDIX KC2-I: HOURLY PRECIPITATION DATA

APPENDIX KC2-A

HOURLY WIND SPEED/DIRECTION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	2.2	1.8	1.3	4.5	8.1	7.5	3.7	1.8	2.3	2.3	1.9	3.3	4.1	3.2	4.2	3.0	2.9	3.9	4.0	3.1	6.0	2.4	3.3	3.2	8.1	1.3	3.5
07/02/09	2.0	1.7	3.4	1.9	1.4	2.0	1.9	1.6	1.3	0.6	2.1	2.3	1.5	2.1	2.8	3.4	3.8	4.8	4.0	2.4	4.3	2.5	2.8	3.0	4.8	0.6	2.5
07/03/09	4.4	3.5	2.9	2.5	4.0	4.4	3.7	2.9	2.5	2.0	3.5	2.8	2.6	3.6	3.4	3.8	4.0	4.7	12.9	12.1	7.4	6.1	3.5	2.3	12.9	2.0	4.4
07/04/09	1.6	1.4	1.0	1.6	1.1	0.6	0.3	1.2	1.8	3.5	3.4	3.6	4.3	4.9	5.2	5.1	4.8	4.4	3.5	2.8	1.4	1.2	1.1	0.2	5.2	0.2	2.5
07/05/09	0.6	0.6	0.5	0.7	0.9	1.3	1.3	1.2	1.3	2.0	3.1	3.7	4.4	4.7	5.5	5.6	5.1	4.8	4.8	3.9	1.3	1.4	1.8	0.4	5.6	0.4	2.5
07/06/09	1.1	0.3	1.4	1.1	1.0	3.3	3.2	2.3	3.1	2.5	2.6	3.8	4.1	4.2	4.4	4.7	4.5	5.0	5.0	3.4	1.7	0.4	1.5	0.7	5.0	0.3	2.7
07/07/09	0.6	1.0	1.6	0.6	1.7	1.6	1.8	1.0	2.4	2.7	2.5	2.9	3.6	4.4	4.5	4.9	5.3	4.5	4.0	3.1	1.8	2.2	3.8	2.3	5.3	0.6	2.7
07/08/09	2.4	1.9	1.3	0.6	0.8	1.0	1.3	1.0	1.8	2.6	3.4	3.9	3.4	3.8	4.2	4.1	4.3	3.3	3.6	2.4	3.8	10.8	9.4	3.6	10.8	0.6	3.3
07/09/09	3.5	1.7	1.5	3.8	2.4	1.1	0.7	0.8	2.0	2.2	2.6	2.8	3.5	3.6	4.6	4.4	4.3	4.3	3.3	2.6	0.8	1.3	1.1	1.2	4.6	0.7	2.5
07/10/09	2.2	2.3	1.3	2.0	3.6	4.1	1.4	3.0	2.5	2.6	3.0	4.5	3.2	3.1	4.8	4.4	4.0	4.3	3.8	2.9	1.5	0.8	1.5	2.0	4.8	0.8	2.9
07/11/09	2.6	3.4	2.7	1.7	1.5	2.2	1.9	1.7	2.4	2.9	2.3	2.3	3.3	4.7	3.8	3.7	4.9	4.2	3.2	2.0	0.3	1.2	1.9	1.2	4.9	0.3	2.6
07/12/09	1.3	0.7	1.4	0.7	1.5	0.8	0.3	1.0	1.2	1.5	2.3	4.3	4.5	4.0	3.5	4.5	5.2	4.7	4.5	3.7	1.8	1.1	1.6	1.4	5.2	0.3	2.4
07/13/09	1.1	1.2	1.0	0.4	0.8	0.3	0.2	1.0	1.4	2.1	3.0	3.7	3.8	3.7	4.7	5.4	5.3	5.4	4.6	3.5	0.8	1.3	2.2	1.7	5.4	0.2	2.4
07/14/09	1.3	1.0	1.0	1.2	1.1	1.3	1.1	1.1	2.2	1.7	2.0	3.1	4.0	4.9	4.5	5.5	5.4	4.9	4.3	3.7	1.9	0.6	0.5	1.1	5.5	0.5	2.5
07/15/09	0.9	1.6	0.9	0.8	1.6	2.1	2.2	1.4	1.3	1.9	2.9	4.2	3.9	4.2	3.5	3.5	4.0	3.9	4.5	8.5	7.0	7.5	7.6	4.7	8.5	0.8	3.5
07/16/09	3.3	1.7	1.4	1.4	1.1	0.5	0.7	1.5	3.6	2.7	3.1	3.5	3.9	3.9	3.5	4.1	4.7	4.5	4.3	8.1	5.0	1.7	2.1	1.8	8.1	0.5	3.0
07/17/09	2.2	1.9	1.5	3.2	1.0	1.0	2.4	2.2	2.6	2.4	2.3	2.6	2.7	3.5	3.6	4.4	7.3	6.7	6.1	5.6	5.6	4.6	5.1	5.4	7.3	1.0	3.6
07/18/09	6.4	5.0	2.7	0.9	1.6	5.2	3.0	2.9	3.2	3.1	2.8	2.6	5.0	4.5	4.8	5.2	3.2	2.8	7.2	4.3	6.4	2.6	3.7	3.1	7.2	0.9	3.8
07/19/09	4.6	5.4	4.1	1.7	3.7	5.4	3.1	2.8	2.1	3.3	4.2	3.5	3.3	2.5	3.8	4.6	5.1	4.0	3.6	4.4	3.0	3.3	3.5	3.8	5.4	1.7	3.7
07/20/09	6.1	7.1	4.2	3.8	3.8	2.2	1.9	1.1	1.3	2.1	3.3	3.8	4.6	5.1	4.5	5.1	4.9	4.5	6.1	5.5	4.6	3.4	1.1	2.6	7.1	1.1	3.9
07/21/09	4.0	6.2	1.9	1.7	0.7	0.1	1.6	1.5	2.6	6.8	7.9	3.2	2.6	3.7	4.4	4.1	4.2	4.0	3.8	2.7	0.9	2.6	2.9	1.2	7.9	0.1	3.1
07/22/09	2.7	1.5	2.1	2.2	2.0	1.2	0.5	1.1	1.5	1.8	2.1	2.2	3.4	3.4	4.8	5.0	8.3	11.3	7.4	5.2	7.8	6.3	5.1	4.1	11.3	0.5	3.9
07/23/09	6.1	6.9	5.2	3.1	2.9	2.8	5.3	4.4	3.0	2.5	4.2	6.1	5.6	4.5	4.9	3.1	3.3	4.0	3.5	3.2	1.8	2.9	7.8	4.9	7.8	1.8	4.3
07/24/09	4.5	4.8	8.0	4.2	1.4	2.3	1.4	1.3	1.2	1.6	2.4	2.3	3.0	3.4	2.9	2.4	2.2	2.9	2.9	2.1	1.6	1.5	1.1	1.6	8.0	1.1	2.6
07/25/09	1.9	1.3	2.9	1.6	0.9	1.4	3.5	3.2	2.6	2.9	2.6	4.0	6.9	6.0	3.5	2.4	4.0	4.2	2.7	2.2	1.9	2.2	1.9	2.2	6.9	0.9	2.9
07/26/09	1.2	1.6	1.0	0.4	0.6	0.4	0.9	0.8	1.1	2.3	2.4	2.9	3.6	3.9	4.8	4.4	4.1	5.0	4.3	2.7	0.4	0.5	0.3	0.3	5.0	0.3	2.1
07/27/09	0.4	0.8	0.7	1.0	1.9	1.7	0.6	1.0	1.6	2.0	3.1	4.4	3.9	4.7	5.0	5.0	4.5	4.4	4.2	2.6	0.4	0.2	0.4	0.8	5.0	0.2	2.3
07/28/09	0.4	0.5	0.2	1.1	0.5	0.6	0.4	0.4	1.2	1.9	4.0	3.9	4.4	5.6	6.2	6.5	5.8	5.7	5.3	3.7	2.3	1.6	0.8	2.0	6.5	0.2	2.7
07/29/09	1.6	0.9	1.3	1.3	1.7	1.3	1.3	1.0	2.1	4.1	4.5	4.3	4.7	5.2	5.0	5.5	6.2	5.8	5.5	4.3	4.0	4.9	2.1	0.9	6.2	0.9	3.3
07/30/09	0.8	1.0	0.8	0.7	0.8	2.5	0.6	0.8	2.1	3.1	3.9	3.0	3.6	4.2	4.3	4.5	3.8	3.4	3.7	2.5	1.0	0.4	1.3	1.7	4.5	0.4	2.3
07/31/09	1.1	2.3	1.1	1.2	1.4	2.0	1.3	2.1	1.6	2.1	2.2	2.9	3.6	3.8	4.1	4.5	4.0	4.1	3.7	2.6	1.3	0.9	1.1	0.8	4.5	0.8	2.3
Hourly Averages	2.4	2.3	2.0	1.7	1.8	2.1	1.7	1.6	2.0	2.5	3.1	3.4	3.8	4.1	4.3	4.4	4.6	4.6	4.6	3.9	2.9	2.6	2.7	2.1			

Maximum Hourly Wind Speed: 12.9 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 3.0

Maximum 24-Hour Mean: 4.4 **Minimum 24-Hour Mean:** 2.1

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
07/01/09	259	281	200	91	91	61	69	204	172	171	220	190	181	196	267	252	230	241	259	236	123	139	31	65
07/02/09	55	41	60	80	330	82	292	314	208	237	240	208	182	220	273	268	253	265	260	211	59	191	96	141
07/03/09	52	134	99	102	76	85	93	80	67	189	201	223	215	247	261	261	268	267	76	80	138	150	81	190
07/04/09	281	192	290	247	55	251	149	172	212	258	268	270	266	263	246	250	254	256	256	256	297	353	314	87
07/05/09	207	333	26	28	50	59	59	91	211	168	242	251	257	255	256	249	262	273	274	281	277	51	30	340
07/06/09	349	348	48	49	55	70	67	114	178	187	192	242	265	275	249	285	267	260	268	285	298	269	49	45
07/07/09	63	273	320	235	279	309	333	121	243	213	269	277	258	248	254	269	272	269	272	260	285	237	146	146
07/08/09	190	167	145	21	180	258	337	4	105	275	256	243	266	255	259	237	252	267	264	267	217	111	61	93
07/09/09	85	50	183	83	200	312	265	100	180	175	199	207	218	260	261	244	264	252	277	271	15	23	41	160
07/10/09	92	74	43	58	79	74	262	91	213	47	73	186	197	224	247	252	256	249	266	267	314	227	4	20
07/11/09	15	71	72	329	6	62	300	98	174	183	244	300	214	204	191	258	260	253	252	255	302	4	13	338
07/12/09	12	165	10	319	51	308	298	111	227	195	214	244	270	259	271	261	263	264	260	256	280	347	279	298
07/13/09	332	340	347	325	294	180	338	149	179	173	222	259	263	268	247	270	263	267	274	265	276	221	301	355
07/14/09	11	252	325	63	1	41	48	105	218	229	119	232	252	242	270	234	258	268	277	276	305	27	30	90
07/15/09	255	329	357	268	34	149	205	212	297	286	261	257	262	202	249	276	267	263	325	28	15	20	20	27
07/16/09	77	355	317	348	31	270	55	142	202	251	252	264	242	258	258	254	250	244	232	50	319	135	38	211
07/17/09	45	51	145	78	76	66	83	107	137	203	235	242	207	214	243	228	89	10	90	134	75	77	72	76
07/18/09	83	73	313	281	357	73	112	279	319	63	117	68	193	180	189	180	191	195	54	349	133	76	37	74
07/19/09	84	86	50	39	80	86	95	68	169	163	174	172	211	290	269	250	246	265	268	225	242	303	66	72
07/20/09	65	58	67	63	87	64	103	18	149	197	270	276	249	256	269	281	286	275	4	48	344	17	253	91
07/21/09	53	74	39	329	61	241	198	54	116	80	69	123	257	267	253	256	259	260	261	269	13	17	53	59
07/22/09	266	129	65	4	4	348	115	249	218	199	207	81	268	238	247	332	27	73	110	96	62	66	80	120
07/23/09	60	57	76	143	164	139	97	84	86	131	176	184	181	178	261	244	250	247	250	248	258	81	97	56
07/24/09	81	99	73	85	324	54	125	76	73	226	218	192	238	254	253	235	268	260	273	303	11	41	24	121
07/25/09	54	57	89	53	194	121	174	181	185	211	170	224	52	72	111	275	94	326	60	56	44	90	357	72
07/26/09	356	46	285	50	52	191	8	180	180	253	270	236	233	236	247	253	268	249	263	264	293	24	21	311
07/27/09	358	5	35	53	46	47	41	119	198	192	268	258	261	245	261	264	265	258	272	279	304	210	244	35
07/28/09	31	312	212	29	281	343	273	141	171	195	217	245	251	251	246	238	252	258	277	289	323	332	29	320
07/29/09	335	38	300	187	223	340	328	47	183	193	206	248	243	257	241	245	239	229	240	225	214	237	253	257
07/30/09	188	124	68	64	342	328	124	116	126	170	232	214	224	252	245	261	253	259	274	292	336	295	33	50
07/31/09	327	8	11	8	59	50	48	88	211	189	155	251	243	256	256	260	277	267	285	295	328	193	16	301
Hourly Averages	152	149	151	133	134	163	164	126	181	190	208	221	230	236	247	255	239	245	228	223	210	147	102	149

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	1.1	0.5	2.0	2.1	1.0	1.5	1.4	1.1	1.8	2.3	2.4	2.7	4.1	4.6	4.7	4.6	5.0	5.6	4.6	3.1	1.2	1.6	2.2	2.1	5.6	0.5	2.6
08/02/09	0.5	0.9	2.4	1.3	1.5	1.9	2.2	2.8	3.2	2.3	1.8	2.7	3.6	3.3	4.6	4.9	5.1	5.6	4.9	2.2	1.1	4.2	4.4	5.0	5.6	0.5	3.0
08/03/09	4.9	3.2	1.2	1.4	2.3	2.8	4.7	3.0	1.6	2.9	1.6	2.7	3.6	4.1	4.7	4.8	5.3	5.5	5.0	2.9	0.5	0.2	1.1	0.8	5.5	0.2	2.9
08/04/09	1.1	2.5	2.4	1.7	1.9	2.0	2.2	1.6	1.6	2.7	3.3	3.7	3.2	3.9	3.9	4.2	4.2	4.8	3.9	2.2	1.1	7.7	7.8	5.9	7.8	1.1	3.3
08/05/09	2.2	1.5	1.4	1.6	0.9	0.3	0.5	1.7	1.8	2.3	2.3	3.3	3.4	3.6	4.0	4.9	5.2	4.3	3.7	3.1	1.4	3.4	2.4	2.3	5.2	0.3	2.6
08/06/09	2.6	5.6	10.7	8.3	5.7	4.3	3.4	3.1	2.8	3.7	3.2	3.4	4.4	5.1	6.1	5.9	5.1	6.0	5.4	3.2	1.4	0.3	1.2	1.1	10.7	0.3	4.2
08/07/09	0.7	1.1	0.6	1.3	1.4	1.3	0.8	1.5	2.8	3.4	4.1	4.9	6.0	6.0	5.7	6.6	5.5	5.3	4.5	2.5	1.2	1.6	1.4	2.0	6.6	0.6	3.0
08/08/09	2.2	1.4	2.6	2.5	1.9	2.9	3.5	4.1	1.8	3.9	4.5	5.4	5.0	4.9	4.1	4.3	4.8	4.6	3.6	2.3	0.6	0.8	1.3	2.0	5.4	0.6	3.1
08/09/09	2.7	1.5	0.6	2.0	2.5	1.8	1.7	1.9	1.3	2.5	3.7	3.2	3.9	4.1	4.7	4.6	4.7	4.5	3.6	2.2	2.3	1.2	2.7	1.3	4.7	0.6	2.7
08/10/09	1.3	0.6	0.8	1.5	1.8	1.4	2.0	2.2	1.2	2.5	2.6	2.8	2.9	3.4	4.0	3.9	4.4	5.0	4.3	2.1	0.3	0.5	0.2	0.9	5.0	0.2	2.2
08/11/09	1.9	1.8	1.2	0.6	1.9	1.4	0.3	0.5	1.4	2.6	2.7	3.2	3.8	4.8	5.0	4.2	5.0	4.3	2.7	1.4	1.1	1.8	1.1	0.9	5.0	0.3	2.3
08/12/09	0.4	0.9	0.9	0.4	1.4	0.7	2.2	1.0	0.9	1.8	3.1	3.7	4.3	4.2	5.3	5.4	5.2	10.2	8.3	6.2	4.3	2.9	2.2	2.2	10.2	0.4	3.3
08/13/09	2.1	2.1	2.0	2.6	1.6	1.7	2.0	2.4	0.9	1.3	3.4	2.8	3.2	2.8	2.2	2.6	2.2	2.4	2.1	1.2	1.7	2.0	2.1	2.1	3.4	0.9	2.1
08/14/09	2.2	2.3	3.0	4.8	4.1	4.1	6.0	5.7	2.0	1.6	2.1	2.4	3.2	3.7	4.3	4.6	4.5	4.2	3.1	2.2	0.8	0.8	0.5	1.6	6.0	0.5	3.1
08/15/09	0.7	1.0	0.6	1.3	1.1	1.7	2.4	2.0	1.8	2.7	3.1	4.0	5.6	5.6	5.3	6.1	5.2	4.7	4.3	2.5	0.8	1.2	0.4	0.4	6.1	0.4	2.7
08/16/09	0.9	2.0	2.1	2.1	1.9	0.8	1.5	0.7	1.4	3.0	2.6	4.7	4.4	5.2	4.8	5.0	3.4	3.5	3.3	1.9	2.1	1.4	0.6	1.5	5.2	0.6	2.5
08/17/09	1.0	0.6	1.6	2.1	1.8	1.0	1.6	2.1	2.3	1.7	2.2	2.9	3.9	4.6	3.9	4.6	3.4	3.6	2.9	1.9	2.5	1.9	0.4	0.4	4.6	0.4	2.3
08/18/09	0.7	1.1	1.2	1.1	2.0	1.6	1.8	1.0	1.0	2.0	2.1	2.6	3.6	4.4	5.1	4.9	4.4	4.4	4.0	2.1	2.0	2.0	0.7	0.3	5.1	0.3	2.3
08/19/09	0.8	0.8	1.3	1.9	1.6	0.9	0.6	2.1	1.8	2.3	2.8	3.7	3.9	4.4	4.5	4.7	5.1	4.8	4.4	2.7	1.1	1.1	2.0	1.0	5.1	0.6	2.5
08/20/09	0.3	0.9	1.0	0.9	0.6	1.0	0.6	0.9	1.3	1.9	2.9	3.8	4.4	4.9	4.7	5.1	5.3	4.9	4.2	1.6	0.6	1.2	0.4	0.5	5.3	0.3	2.3
08/21/09	1.5	1.1	1.3	1.8	1.5	2.6	2.5	1.8	1.4	1.9	2.4	2.8	2.9	2.8	4.4	5.0	2.8	1.2	3.1	1.9	2.2	2.1	1.6	1.1	5.0	1.1	2.2
08/22/09	1.2	1.3	1.3	0.4	1.4	1.8	1.4	1.0	1.4	1.2	1.8	4.5	3.9	3.4	3.2	2.5	3.3	2.2	2.8	1.4	1.2	1.3	1.9	4.0	4.5	0.4	2.1
08/23/09	2.8	1.1	3.2	1.5	1.9	0.9	1.2	0.9	1.3	2.0	2.2	3.3	3.5	4.2	4.1	4.7	4.3	4.3	3.9	2.3	0.8	0.9	0.6	1.1	4.7	0.6	2.4
08/24/09	2.2	2.6	4.2	3.8	3.3	2.5	2.3	2.8	2.7	3.1	3.3	3.2	3.2	3.0	3.6	3.0	3.4	3.5	3.6	1.4	0.5	5.1	5.7	5.9	5.9	0.5	3.3
08/25/09	4.6	3.3	0.9	4.0	3.2	3.6	2.8	4.4	3.2	1.8	2.7	3.6	3.5	4.4	3.3	5.1	6.4	4.9	3.4	4.4	3.7	1.6	3.7	3.4	6.4	0.9	3.6
08/26/09	2.1	4.6	1.5	6.0	5.6	2.8	4.7	6.4	5.0	3.9	3.3	3.1	3.1	2.5	3.3	3.1	3.5	5.0	3.9	1.7	0.5	1.0	0.6	0.4	6.4	0.4	3.2
08/27/09	0.7	0.4	0.4	1.2	1.9	0.7	4.0	5.3	2.0	1.6	2.2	3.4	4.3	4.6	5.0	4.9	5.4	4.5	4.1	1.5	1.9	2.9	1.9	1.2	5.4	0.4	2.8
08/28/09	1.8	2.8	5.4	4.3	5.6	4.3	4.0	6.1	6.7	5.6	5.1	6.6	4.7	4.2	3.2	3.1	3.0	4.2	3.2	3.8	5.3	4.2	5.3	5.7	6.7	1.8	4.5
08/29/09	4.1	1.8	3.6	4.5	6.0	4.6	3.2	3.5	5.0	4.5	3.5	3.7	4.0	3.9	3.5	4.2	3.5	4.5	3.5	1.1	2.8	3.9	4.8	4.1	6.0	1.1	3.8
08/30/09	3.6	1.9	4.3	4.3	4.2	3.9	3.1	4.5	4.3	2.2	2.9	3.0	3.3	3.8	3.6	4.0	4.4	4.5	4.4	5.0	3.2	3.8	3.2	5.5	5.5	1.9	3.8
08/31/09	4.4	5.0	2.5	3.1	5.0	4.7	4.0	4.5	4.7	4.3	5.0	4.0	3.8	3.6	4.1	3.9	3.9	2.4	3.0	2.8	3.1	4.7	3.2	2.7	5.0	2.4	3.8
Hourly Averages	1.9	1.9	2.2	2.5	2.5	2.2	2.4	2.7	2.3	2.6	2.9	3.5	3.9	4.1	4.3	4.5	4.4	4.5	3.9	2.5	1.7	2.2	2.2	2.2			

Maximum Hourly Wind Speed: 10.7 **Minimum Hourly Wind Speed:** 0.2 **Average Monthly Wind Speed:** 2.9

Maximum 24-Hour Mean: 4.5 **Minimum 24-Hour Mean:** 2.1

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
08/01/09	15	314	16	36	274	28	48	105	252	272	265	260	258	246	256	258	259	253	263	274	318	350	349	358
08/02/09	272	350	44	350	44	50	58	79	137	192	238	236	231	244	268	269	260	259	264	275	49	76	44	70
08/03/09	68	50	69	38	57	49	79	93	174	203	186	247	275	256	255	259	255	258	263	273	288	349	43	21
08/04/09	221	188	198	260	309	331	341	15	206	247	219	241	272	252	263	261	257	262	260	260	60	120	116	115
08/05/09	310	39	26	252	16	68	277	83	211	162	227	227	239	277	261	263	255	266	254	227	176	189	157	124
08/06/09	87	66	68	72	87	66	117	331	62	172	226	189	202	230	248	237	246	270	266	269	273	358	303	31
08/07/09	6	50	278	50	55	55	281	162	193	172	216	224	243	250	257	247	250	268	269	272	336	42	43	46
08/08/09	52	55	47	54	55	49	53	70	134	189	193	216	235	235	226	226	220	210	261	294	347	77	34	50
08/09/09	72	82	335	82	62	64	49	83	163	185	181	158	220	237	257	258	267	270	251	309	10	326	55	40
08/10/09	24	20	349	40	44	46	62	64	92	224	254	250	223	269	272	259	259	249	260	267	337	39	321	219
08/11/09	145	219	238	312	336	358	141	195	193	173	214	233	256	264	240	251	253	249	258	283	65	42	27	343
08/12/09	318	9	24	8	37	37	59	215	161	193	274	266	242	241	250	263	260	65	71	84	117	78	294	205
08/13/09	287	344	338	312	247	303	140	169	216	202	141	182	158	87	228	290	194	130	274	291	110	99	113	82
08/14/09	105	53	76	76	72	63	72	70	119	208	180	280	290	255	267	255	258	260	232	281	310	72	288	55
08/15/09	345	331	33	43	38	51	50	79	92	220	216	208	241	246	238	247	259	260	249	281	16	39	315	29
08/16/09	40	43	46	37	39	25	42	117	145	167	240	227	207	234	251	246	252	257	274	317	12	273	324	19
08/17/09	320	354	328	57	347	344	37	77	114	152	184	212	199	258	255	252	285	239	269	314	16	294	324	352
08/18/09	20	272	349	2	52	34	36	165	219	238	238	276	266	268	254	254	265	281	284	306	359	13	311	171
08/19/09	44	356	329	309	76	7	14	308	259	237	292	255	249	249	266	262	260	264	268	275	310	0	9	3
08/20/09	293	268	12	352	12	277	25	122	127	248	281	253	243	259	263	246	257	263	263	282	6	349	318	270
08/21/09	206	36	34	61	96	66	67	127	230	300	226	247	259	257	243	241	328	224	6	15	246	341	71	183
08/22/09	343	40	357	220	185	314	218	222	266	242	195	143	146	193	270	271	253	273	300	253	243	88	86	84
08/23/09	74	53	92	109	57	342	268	185	245	226	229	238	229	247	272	260	255	243	253	261	307	291	120	71
08/24/09	64	128	58	70	73	150	157	76	125	178	202	233	236	229	249	282	275	267	272	269	337	59	68	71
08/25/09	69	83	258	87	76	94	129	66	72	61	151	179	208	219	7	74	25	25	11	23	33	295	123	91
08/26/09	54	85	17	78	74	35	68	70	76	71	5	5	299	273	296	315	235	271	268	300	12	13	344	258
08/27/09	270	296	268	352	38	326	68	83	172	254	279	272	261	251	264	250	250	258	256	308	359	15	15	7
08/28/09	11	18	74	97	96	54	81	90	106	89	81	155	150	157	80	140	219	117	112	82	82	81	75	68
08/29/09	97	81	69	77	78	86	40	62	73	91	132	151	185	166	133	232	248	254	250	233	62	82	76	76
08/30/09	66	70	86	92	84	82	88	70	73	172	171	203	238	271	260	252	264	261	94	151	167	78	112	75
08/31/09	57	81	140	74	86	83	66	92	98	86	113	139	178	225	250	282	2	298	174	4	4	60	54	42
Hourly Averages	140	143	150	131	103	127	104	121	155	188	202	213	230	237	239	248	240	236	227	237	173	148	159	117

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	2.3	1.6	0.9	1.4	2.6	2.9	3.6	3.4	3.2	2.6	2.8	2.9	2.7	2.9	4.0	4.4	4.1	4.2	3.0	0.8	0.6	2.3	1.7	0.9	4.4	0.6	2.6
09/02/09	1.2	0.9	1.8	0.9	0.9	0.6	0.3	0.8	1.0	1.6	2.0	3.1	3.2	3.9	4.4	5.2	4.3	4.1	3.4	2.0	0.4	1.5	2.8	2.3	5.2	0.3	2.2
09/03/09	1.7	0.9	0.3	0.7	1.3	1.5	2.2	3.2	3.2	3.1	3.7	4.0	4.3	4.5	4.4	4.8	11.6	6.0	3.7	4.4	4.3	2.3	2.7	2.9	11.6	0.3	3.4
09/04/09	1.7	1.4	2.8	3.9	1.4	1.0	0.5	1.2	1.1	1.2	2.2	2.9	2.9	4.2	4.2	4.5	3.7	4.4	5.7	7.8	5.6	4.5	8.7	7.7	8.7	0.5	3.6
09/05/09	5.0	3.0	2.5	4.7	4.4	4.2	4.8	2.4	1.8	1.8	2.2	1.4	2.4	2.8	4.4	1.8	2.3	2.6	1.9	1.6	1.1	1.4	1.6	1.1	5.0	1.1	2.6
09/06/09	1.8	0.6	1.0	1.0	1.0	1.1	0.4	0.8	1.5	1.8	3.8	3.0	3.4	3.0	3.0	2.8	3.2	3.3	3.3	1.1	1.0	1.0	0.9	4.4	4.4	0.4	2.0
09/07/09	1.9	2.6	3.2	2.3	4.4	1.5	0.7	1.1	1.4	1.8	2.3	2.6	3.7	3.4	3.9	1.9	3.2	3.7	2.7	1.3	0.6	0.1	0.4	0.6	4.4	0.1	2.1
09/08/09	0.8	0.1	0.2	0.3	1.6	1.6	0.4	1.5	1.4	1.7	2.7	3.4	3.6	3.9	4.8	4.8	4.2	4.3	3.5	6.3	6.6	3.8	3.1	5.2	6.6	0.1	2.9
09/09/09	4.3	1.7	2.0	1.4	1.3	1.2	2.3	0.8	1.5	2.5	2.5	3.1	3.4	3.6	4.1	4.1	4.6	4.4	4.6	3.8	2.3	1.7	2.4	1.3	4.6	0.8	2.7
09/10/09	0.7	0.8	0.8	0.7	0.5	0.8	1.3	4.4	3.3	2.2	2.2	2.3	3.5	4.3	3.9	4.3	3.4	4.4	2.9	2.1	2.4	2.4	0.7	2.2	4.4	0.5	2.4
09/11/09	3.6	4.7	6.1	3.8	3.8	2.9	3.0	5.1	6.0	4.2	3.1	2.5	2.5	5.2	3.2	2.5	3.8	2.5	4.1	6.4	5.6	3.9	4.2	7.5	7.5	2.5	4.2
09/12/09	6.5	4.2	4.6	3.9	7.4	7.2	4.6	3.7	4.6	6.0	4.2	3.9	4.6	2.9	3.1	3.9	4.5	3.5	3.3	3.4	5.2	4.6	4.2	4.3	7.4	2.9	4.5
09/13/09	4.9	5.2	4.5	3.8	3.4	4.2	3.3	2.5	2.8	3.7	3.0	2.4	3.3	3.0	2.9	4.2	4.1	4.0	3.1	4.0	5.8	4.8	5.7	3.4	5.8	2.4	3.8
09/14/09	1.6	2.4	0.8	1.3	1.5	2.9	2.1	1.7	2.1	3.6	3.7	5.3	5.3	5.6	5.6	5.1	5.9	5.6	5.9	3.8	2.9	1.7	0.6	1.4	5.9	0.6	3.3
09/15/09	1.2	0.9	0.8	0.6	1.4	0.7	1.1	0.7	1.5	2.6	2.9	4.6	5.0	5.8	4.6	4.7	5.1	4.7	3.9	1.9	1.5	1.2	0.8	1.4	5.8	0.6	2.5
09/16/09	1.5	0.5	1.0	1.3	2.1	2.1	2.1	1.3	1.4	2.4	4.0	4.0	3.6	4.9	4.4	5.4	4.5	3.8	2.5	1.9	1.8	1.1	1.8	1.8	5.4	0.5	2.5
09/17/09	1.4	1.6	3.2	3.0	2.2	1.9	2.5	2.8	3.4	3.0	3.4	3.7	4.2	3.1	3.2	5.0	6.6	4.7	6.1	6.1	7.4	10.2	11.1	9.5	11.1	1.4	4.5
09/18/09	7.4	7.3	5.4	7.2	6.1	5.0	4.1	4.1	7.8	7.0	5.7	3.9	3.1	2.4	2.7	2.7	1.7	3.0	3.6	2.3	2.2	4.3	4.2	4.1	7.8	1.7	4.5
09/19/09	3.1	3.8	3.1	3.8	2.6	4.9	4.7	3.6	4.1	3.6	2.3	3.5	3.3	6.6	5.8	4.9	12.3	9.4	6.6	3.0	8.1	6.7	5.9	6.5	12.3	2.3	5.1
09/20/09	5.9	5.7	6.4	5.5	4.6	5.9	5.2	5.1	4.0	1.4	2.2	2.5	3.5	4.0	5.1	5.4	5.3	4.5	2.9	0.8	0.6	0.5	0.7	0.1	6.4	0.1	3.6
09/21/09	0.7	0.5	0.2	0.6	0.9	1.2	0.3	0.8	1.3	1.7	2.2	3.2	3.9	4.7	5.0	4.8	5.4	4.8	2.3	0.8	1.0	0.8	0.8	1.7	5.4	0.2	2.1
09/22/09	1.8	4.8	3.0	6.3	11.0	12.6	12.5	12.7	11.4	11.1	10.1	8.2	7.0	5.7	3.1	4.5	5.0	5.0	5.8	6.8	8.2	6.8	10.0	9.7	12.7	1.8	7.6
09/23/09	11.0	9.6	12.1	14.0	12.7	11.3	9.7	10.7	13.7	12.6	10.5	9.3	6.9	5.6	4.9	4.0	4.0	3.3	2.8	2.6	3.5	3.2	4.0	4.5	14.0	2.6	7.8
09/24/09	4.0	3.9	4.6	4.8	5.1	6.1	9.9	8.7	6.4	7.6	8.4	6.5	4.0	3.1	3.5	3.0	2.6	2.2	2.0	2.2	2.7	4.2	7.4	8.0	9.9	2.0	5.0
09/25/09	6.1	5.1	5.6	7.1	4.9	3.4	3.2	4.7	6.1	7.7	5.1	2.7	3.4	2.2	2.5	2.4	2.7	2.5	1.4	1.2	1.8	2.0	1.5	2.4	7.7	1.2	3.6
09/26/09	1.3	1.2	1.5	2.5	4.8	3.4	2.8	3.1	4.1	3.7	3.6	1.8	2.1	3.7	3.0	2.8	2.6	1.9	1.8	1.1	1.2	0.3	0.9	1.9	4.8	0.3	2.4
09/27/09	2.1	1.9	2.2	1.2	1.3	3.7	4.5	5.6	4.8	3.9	3.0	3.2	3.9	4.3	4.1	4.7	4.2	3.8	1.8	1.0	0.5	0.8	0.7	0.8	5.6	0.5	2.8
09/28/09	1.2	1.8	0.6	0.6	3.4	4.6	4.7	3.9	5.2	2.5	2.2	INV	INV	3.2	3.9	4.6	4.0	2.7	1.8	1.5	2.5	1.4	2.0	1.9	5.2	0.6	2.7
09/29/09	2.1	2.3	3.8	4.0	2.6	3.8	5.9	6.9	4.3	2.9	3.8	3.6	4.8	5.0	5.1	5.0	4.4	3.9	1.9	0.9	1.5	1.1	1.7	1.7	6.9	0.9	3.5
09/30/09	1.5	1.0	1.3	1.8	1.7	1.4	1.2	2.1	3.6	3.5	4.3	4.6	5.3	6.0	6.7	6.8	6.6	5.5	3.0	1.7	0.3	1.2	1.5	1.4	6.8	0.3	3.1
Hourly Averages	3.0	2.7	2.9	3.1	3.4	3.5	3.5	3.6	3.9	3.8	3.8	3.7	3.9	4.1	4.1	4.2	4.7	4.1	3.4	2.8	3.0	2.7	3.2	3.4			

Maximum Hourly Wind Speed: 14.0 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 3.5

Maximum 24-Hour Mean: 7.8 **Minimum 24-Hour Mean:** 2.0

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
09/01/09	22	74	62	308	307	310	304	190	216	277	249	240	273	256	269	250	254	262	260	193	319	299	345	114
09/02/09	328	291	290	38	279	46	225	57	169	252	211	226	248	254	251	268	248	247	230	273	298	238	218	262
09/03/09	263	212	254	310	311	335	328	311	263	241	263	236	267	252	261	251	71	354	58	83	27	17	32	26
09/04/09	128	68	72	71	336	37	250	287	248	218	205	250	250	258	272	262	276	47	117	67	79	81	68	62
09/05/09	79	188	92	79	75	73	38	291	306	257	283	181	106	307	279	282	263	284	268	55	231	261	320	23
09/06/09	64	53	266	284	110	33	175	203	184	228	246	290	276	282	279	265	235	267	263	266	322	5	209	182
09/07/09	171	64	67	100	90	67	354	161	170	171	199	206	257	274	174	202	250	262	263	322	335	196	20	256
09/08/09	301	309	324	295	55	42	65	110	190	193	250	262	264	264	273	262	261	275	312	72	83	115	94	76
09/09/09	68	352	101	73	35	48	68	334	193	266	271	277	267	264	263	267	259	260	5	23	182	263	281	35
09/10/09	335	320	323	310	325	308	4	79	59	106	237	149	153	257	267	249	279	264	287	335	20	77	172	51
09/11/09	104	80	74	225	230	276	258	60	55	45	76	221	172	48	78	67	339	19	86	70	73	88	85	66
09/12/09	74	224	222	298	51	54	339	233	75	95	114	161	179	219	165	177	239	266	332	54	74	66	73	81
09/13/09	87	77	69	76	103	81	64	5	97	109	120	184	213	230	204	243	253	251	269	56	68	124	90	78
09/14/09	48	58	72	58	50	73	98	106	141	193	181	171	187	196	215	215	228	226	239	215	218	258	7	53
09/15/09	49	112	264	105	25	15	41	144	136	186	221	221	216	252	240	251	257	238	239	196	86	19	14	41
09/16/09	34	331	38	39	48	86	66	69	179	186	203	202	299	249	267	246	253	263	287	5	48	358	216	251
09/17/09	274	294	60	63	85	53	13	331	15	93	105	159	213	181	193	82	27	39	76	75	66	76	67	64
09/18/09	57	51	71	73	43	331	257	270	58	66	63	58	69	190	138	86	76	101	19	42	52	80	78	52
09/19/09	21	58	48	66	17	65	68	54	50	117	125	187	204	58	74	92	33	58	90	97	81	82	77	82
09/20/09	83	87	77	78	86	78	81	84	86	112	108	225	251	258	262	259	262	261	267	308	33	299	318	326
09/21/09	282	336	347	334	10	293	56	81	133	179	229	285	254	258	257	258	247	269	266	322	25	354	340	41
09/22/09	40	81	111	55	33	32	36	36	43	57	61	74	80	93	114	3	9	17	35	49	45	48	43	42
09/23/09	40	59	58	55	54	54	57	61	64	57	61	62	53	56	78	84	85	120	96	88	61	78	80	72
09/24/09	90	92	66	46	25	56	64	78	98	89	63	69	59	74	82	101	108	76	79	54	47	62	54	65
09/25/09	73	66	55	58	39	339	325	25	44	61	70	78	145	344	118	318	54	97	342	14	36	42	210	96
09/26/09	123	357	332	34	68	55	39	61	75	89	121	14	353	201	181	208	216	236	285	19	347	325	2	47
09/27/09	52	71	45	334	330	53	56	75	86	95	129	232	247	247	256	247	249	259	300	6	351	287	330	10
09/28/09	356	25	9	18	52	68	78	87	82	94	94	INV	INV	204	253	246	261	275	347	36	50	59	47	51
09/29/09	46	51	56	71	61	81	78	73	83	107	167	185	220	249	241	247	261	277	298	65	52	60	67	61
09/30/09	64	91	355	92	85	59	31	168	202	211	246	254	228	245	257	270	281	277	264	245	283	63	28	314
Hourly Averages																								
	125	151	143	135	114	117	131	137	127	148	166	185	207	217	209	209	204	205	209	123	133	146	133	99

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
07/01/09	32	38	67	27	28	31	47	86	68	32	53	29	20	61	32	34	38	25	16	19	34	57	15	68
07/02/09	91	29	19	58	69	81	59	86	41	57	52	41	44	41	42	37	28	16	14	67	30	46	42	62
07/03/09	60	65	63	46	24	17	60	53	48	60	55	53	71	58	60	46	38	67	15	14	61	37	31	43
07/04/09	51	42	77	73	62	25	40	39	40	26	28	26	26	25	27	22	20	23	21	14	28	25	58	37
07/05/09	57	55	33	35	12	17	19	25	48	65	33	45	29	26	28	22	22	21	14	11	32	13	23	23
07/06/09	21	24	14	24	26	22	46	44	35	53	61	33	30	37	39	28	32	19	19	12	18	42	14	18
07/07/09	48	38	28	43	33	28	21	66	49	29	44	47	43	35	26	24	29	19	19	15	19	59	20	45
07/08/09	17	21	24	26	73	55	27	54	54	43	38	40	45	40	46	24	32	29	20	14	64	31	25	58
07/09/09	31	45	90	14	93	22	35	54	44	51	55	60	58	49	43	24	25	30	22	12	28	23	44	69
07/10/09	53	47	68	25	11	11	68	41	39	33	44	20	51	78	26	40	29	19	19	15	42	38	48	28
07/11/09	21	33	60	71	69	86	54	32	26	31	47	73	48	32	33	32	21	28	20	21	28	26	65	63
07/12/09	45	64	44	56	14	44	39	56	44	65	39	32	29	35	31	31	21	19	16	17	20	38	24	20
07/13/09	29	27	20	40	35	36	23	25	47	58	34	46	40	34	29	23	19	20	17	12	43	25	50	61
07/14/09	39	63	76	62	72	67	33	31	45	47	54	48	35	31	26	22	24	17	23	11	19	40	12	59
07/15/09	25	21	51	71	69	32	35	28	56	51	42	37	29	30	35	30	19	15	64	12	20	20	20	83
07/16/09	15	83	55	44	49	31	22	63	17	59	43	34	35	39	60	28	24	22	24	25	87	59	38	81
07/17/09	84	29	62	23	61	75	34	38	50	37	74	62	45	60	38	42	64	63	62	26	36	21	18	14
07/18/09	11	38	87	69	71	33	99	86	91	55	55	65	41	38	33	39	50	33	61	43	63	61	33	45
07/19/09	48	18	45	83	40	8	35	70	35	25	21	57	37	59	54	33	28	22	16	49	89	26	46	32
07/20/09	25	17	24	41	54	69	46	73	51	41	31	25	29	25	28	28	22	21	27	70	36	57	64	44
07/21/09	61	9	52	40	28	23	58	72	29	19	11	60	39	29	29	27	28	21	16	15	29	20	41	47
07/22/09	17	56	46	88	70	57	30	37	40	52	50	88	56	44	33	29	48	13	53	70	20	24	37	47
07/23/09	35	22	32	67	71	64	75	40	76	44	24	19	20	25	28	37	35	20	20	16	18	48	57	62
07/24/09	41	24	11	63	85	44	62	30	44	58	30	31	51	37	33	40	39	44	29	24	23	10	38	58
07/25/09	48	38	44	47	58	32	16	12	31	36	64	64	22	22	31	86	44	48	79	40	26	86	63	43
07/26/09	72	24	65	12	19	51	35	33	30	54	43	41	30	31	29	25	28	17	15	12	13	9	28	19
07/27/09	44	29	21	11	11	11	20	34	37	56	38	24	36	25	24	26	21	22	15	12	30	22	31	22
07/28/09	22	30	37	14	41	21	39	25	49	60	31	34	29	26	28	28	20	18	16	16	35	37	58	22
07/29/09	51	38	48	55	85	54	45	84	52	26	21	29	30	26	28	21	22	19	22	14	14	17	14	65
07/30/09	32	63	42	23	50	20	45	39	56	32	33	52	48	39	39	23	33	28	22	18	32	19	40	47
07/31/09	60	65	40	74	30	20	37	25	42	59	85	54	49	39	30	30	28	33	21	15	38	67	57	47

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
08/01/09	49	17	71	47	57	57	18	55	47	36	52	31	37	28	23	22	19	17	13	14	17	17	20	29
08/02/09	60	54	13	51	44	46	58	54	81	40	57	43	35	47	37	28	23	18	14	16	33	31	31	19
08/03/09	11	49	66	64	15	59	10	34	45	20	70	45	45	34	23	25	24	16	12	14	10	22	18	16
08/04/09	48	27	29	43	25	18	17	67	53	38	34	33	44	39	32	25	20	19	14	25	61	13	17	77
08/05/09	67	92	34	81	63	27	18	17	29	35	46	35	53	44	38	28	25	19	19	36	18	20	48	22
08/06/09	29	27	14	21	17	39	62	87	48	40	45	33	46	33	19	31	26	16	12	15	17	33	23	44
08/07/09	51	14	28	17	24	27	53	48	29	29	36	30	26	20	22	20	20	19	14	12	72	14	10	11
08/08/09	12	14	8	9	13	11	17	13	52	24	35	25	50	48	46	34	24	29	23	21	31	70	64	35
08/09/09	18	63	31	32	14	25	15	23	48	58	32	42	47	45	29	23	19	20	18	25	18	76	41	63
08/10/09	23	28	46	28	14	14	13	12	83	40	56	68	68	55	39	35	22	16	13	18	25	12	23	41
08/11/09	38	48	25	21	17	56	33	26	29	24	43	39	35	22	16	23	16	14	23	36	47	5	46	65
08/12/09	26	38	22	45	49	13	14	43	42	35	38	34	33	31	20	18	59	15	15	23	48	79	53	53
08/13/09	30	44	21	21	39	17	86	29	26	30	71	85	56	25	68	57	60	42	62	39	57	50	49	55
08/14/09	49	43	21	11	64	49	11	12	59	51	63	50	43	49	39	23	28	21	22	32	34	30	37	62
08/15/09	17	12	44	19	35	12	12	15	56	40	56	37	27	28	33	25	24	25	23	14	49	34	37	20
08/16/09	38	17	8	55	36	29	42	44	52	34	75	27	42	35	27	25	37	28	18	24	16	66	67	33
08/17/09	55	39	43	41	66	47	53	20	37	59	77	65	51	41	30	29	26	36	43	30	13	80	27	28
08/18/09	41	78	61	49	11	31	39	59	50	41	65	44	42	27	32	29	29	25	15	25	26	24	59	39
08/19/09	25	48	39	27	44	31	54	40	41	46	47	36	30	37	28	21	20	20	14	13	20	31	18	31
08/20/09	28	35	49	49	37	32	35	31	40	69	37	30	30	24	24	20	18	18	12	20	41	24	38	39
08/21/09	53	47	70	16	26	13	14	51	42	53	67	39	45	56	30	31	39	48	56	77	52	92	89	69
08/22/09	52	83	56	16	38	23	63	38	33	47	51	27	34	37	29	40	24	30	16	52	58	30	36	16
08/23/09	61	76	14	45	42	65	72	45	53	49	58	60	40	44	35	30	28	22	13	18	52	31	46	39
08/24/09	17	61	25	45	58	96	61	47	64	43	46	53	46	60	40	47	34	28	15	19	27	16	11	11
08/25/09	16	53	51	36	55	39	64	47	42	49	70	33	61	57	58	30	33	17	26	18	76	72	45	18
08/26/09	47	15	52	16	21	60	39	15	15	28	84	60	41	50	52	43	45	15	15	20	30	27	23	48
08/27/09	43	22	29	41	34	51	18	12	35	54	53	41	26	33	28	27	18	23	14	26	25	19	44	16
08/28/09	22	34	26	88	30	53	71	31	26	40	49	17	35	50	70	64	70	47	31	20	8	16	14	17
08/29/09	49	53	24	29	9	26	52	40	35	26	38	51	52	55	45	47	59	17	13	61	24	15	10	10
08/30/09	26	31	24	18	40	20	21	12	9	52	52	42	61	41	40	38	21	17	52	36	47	26	61	26
08/31/09	44	63	58	34	14	20	34	26	29	29	46	37	29	51	42	44	43	49	31	82	59	21	69	53

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
09/01/09	56	61	81	28	81	65	94	43	47	40	41	49	54	41	26	27	22	16	16	35	19	30	54	61
09/02/09	20	27	40	51	81	31	25	13	74	54	58	43	52	42	32	22	26	15	12	30	17	84	43	29
09/03/09	24	10	16	13	32	34	28	22	20	35	36	32	31	35	26	25	22	60	50	39	72	57	60	50
09/04/09	55	41	18	34	54	36	52	52	56	89	50	38	41	30	31	27	21	96	42	18	16	22	12	15
09/05/09	60	41	47	26	33	56	44	99	78	85	95	63	71	55	21	43	23	16	21	61	83	90	62	58
09/06/09	58	15	34	37	61	47	42	38	51	70	34	21	21	35	47	38	40	24	14	14	11	29	51	27
09/07/09	80	19	10	41	16	48	35	54	51	56	48	35	35	43	37	44	33	18	15	25	31	22	29	31
09/08/09	42	19	36	23	42	50	16	40	28	44	47	42	40	34	21	20	23	16	62	26	35	46	33	27
09/09/09	51	80	65	65	57	24	35	68	35	33	40	34	36	35	28	27	19	18	50	31	81	47	74	83
09/10/09	39	61	35	46	26	38	67	12	61	72	44	77	38	30	43	30	30	18	40	35	69	21	62	46
09/11/09	40	52	13	78	39	43	77	42	19	34	69	66	62	70	40	75	27	34	34	11	14	59	26	12
09/12/09	47	70	28	91	23	25	84	72	40	29	49	31	26	67	51	43	26	22	37	40	19	30	43	36
09/13/09	24	18	24	27	52	44	38	95	96	35	47	60	51	50	51	26	36	31	16	54	19	49	26	36
09/14/09	32	21	33	16	15	10	45	40	43	18	31	24	37	27	25	28	19	20	13	20	28	21	36	17
09/15/09	15	42	55	46	49	50	39	56	52	50	56	26	31	17	29	28	26	26	18	56	29	69	40	15
09/16/09	20	44	67	35	13	55	45	20	35	40	39	42	50	30	33	18	27	22	23	31	50	33	72	38
09/17/09	78	90	29	29	84	65	58	61	82	52	52	51	43	79	82	77	17	18	15	17	15	21	10	18
09/18/09	20	25	48	35	38	78	28	46	20	13	21	37	51	82	63	46	57	33	24	11	29	12	23	31
09/19/09	50	82	87	41	82	31	17	57	37	38	64	41	51	39	15	34	27	23	15	51	13	13	10	14
09/20/09	20	16	8	10	21	18	14	12	19	55	85	65	50	33	24	21	16	13	11	18	39	12	50	15
09/21/09	23	21	9	39	47	41	22	23	36	60	60	30	33	24	28	25	19	14	17	14	17	22	40	16
09/22/09	25	12	94	47	12	11	14	15	18	17	17	21	24	22	56	27	26	28	21	21	19	33	19	28
09/23/09	17	24	15	12	15	20	17	16	10	10	11	11	26	35	41	46	53	49	32	23	25	32	18	18
09/24/09	20	17	28	63	66	38	14	14	21	43	18	23	50	59	70	67	46	48	25	47	15	16	17	15
09/25/09	20	56	32	13	36	52	44	45	20	9	26	62	62	85	54	72	47	32	62	33	9	27	72	77
09/26/09	44	44	29	37	16	32	47	55	22	62	31	71	66	28	62	58	46	33	33	37	49	39	52	28
09/27/09	24	57	19	41	40	15	15	11	14	38	47	41	37	43	43	31	23	17	22	35	18	40	38	42
09/28/09	51	29	42	34	12	26	34	62	16	43	48	INV	INV	15	34	26	26	19	37	20	8	22	12	13
09/29/09	13	11	15	13	23	16	13	9	42	43	45	38	32	31	22	26	24	16	19	17	10	13	13	13
09/30/09	22	36	86	39	42	34	60	69	13	16	21	28	26	21	21	15	13	13	14	34	43	14	47	28

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	28.7	28.2	27.4	27.8	24.0	23.0	24.8	25.3	26.3	28.2	29.2	30.7	30.2	31.7	32.4	32.8	33.7	34.4	33.7	33.1	30.9	26.2	25.6	25.3	34.4	23.0	28.9
07/02/09	24.2	24.8	24.5	23.8	24.0	24.7	24.8	25.4	25.3	26.4	28.9	29.8	30.8	32.0	33.2	33.9	34.2	34.0	33.0	32.1	30.8	29.9	29.5	28.6	34.2	23.8	28.7
07/03/09	27.7	27.8	27.7	27.3	27.0	26.5	26.4	27.4	28.8	30.0	31.4	32.0	32.5	33.5	34.3	34.4	34.8	34.3	28.8	28.8	28.3	25.3	25.7	24.6	34.8	24.6	29.4
07/04/09	24.6	24.3	24.7	24.2	24.8	24.0	24.4	26.0	27.7	28.9	29.2	29.8	30.6	31.6	32.4	32.9	33.1	33.3	33.1	32.6	32.0	31.8	31.2	30.6	33.3	24.0	29.1
07/05/09	29.5	29.6	29.4	28.7	28.4	27.7	27.9	28.8	30.1	31.3	32.9	33.9	34.8	35.6	36.0	36.3	36.6	36.4	35.8	35.0	33.9	33.2	33.0	32.4	36.6	27.7	32.4
07/06/09	32.5	31.3	31.6	30.3	29.7	29.1	28.6	29.6	30.4	31.0	32.4	33.7	34.2	35.1	35.4	35.7	35.9	35.7	35.3	34.6	33.8	33.1	32.4	31.8	35.9	28.6	32.6
07/07/09	31.0	29.8	28.9	27.7	27.1	26.4	26.5	27.1	27.9	29.0	30.1	31.5	32.4	33.6	34.3	34.8	35.2	34.9	34.5	34.0	33.2	32.6	30.7	30.5	35.2	26.4	31.0
07/08/09	29.8	29.2	28.8	28.5	27.7	27.4	27.6	28.5	29.6	30.8	31.7	32.4	32.9	33.7	34.4	34.6	34.9	34.9	34.8	34.3	33.0	28.9	28.0	29.0	34.9	27.4	31.1
07/09/09	29.3	28.6	27.9	27.9	26.6	26.3	25.7	27.5	29.6	31.0	32.5	33.5	34.7	35.2	35.9	35.7	35.9	35.8	35.6	34.9	34.3	34.1	33.3	32.4	35.9	25.7	31.8
07/10/09	32.5	31.8	30.9	30.7	30.9	31.2	29.7	31.5	32.6	33.8	35.0	35.4	36.1	37.4	37.8	38.1	38.0	37.7	37.4	36.8	36.4	35.5	34.4	34.0	38.1	29.7	34.4
07/11/09	34.0	32.9	31.8	31.2	30.4	29.9	30.0	30.6	31.9	33.2	34.3	35.6	37.3	38.7	38.8	38.7	38.5	38.0	37.7	37.2	36.3	35.8	35.4	34.0	38.8	29.9	34.7
07/12/09	33.9	33.3	33.3	31.8	31.7	30.9	30.5	31.7	32.8	34.4	36.0	36.6	36.9	37.2	38.0	38.3	38.6	38.5	38.0	37.1	35.6	34.8	33.8	32.7	38.6	30.5	34.8
07/13/09	32.0	31.6	31.4	30.7	30.0	29.2	29.4	30.3	31.9	33.6	35.2	36.5	37.1	37.8	38.5	38.5	38.5	38.3	37.9	36.9	35.9	35.1	32.9	32.4	38.5	29.2	34.2
07/14/09	32.2	31.0	31.0	30.6	30.4	29.7	30.0	31.5	32.4	33.4	34.6	36.2	37.0	37.7	38.0	38.3	38.2	38.0	37.8	37.0	36.2	35.3	35.0	33.6	38.3	29.7	34.4
07/15/09	32.5	32.3	31.4	30.1	29.8	30.0	29.3	29.2	29.8	31.1	32.5	33.4	33.9	34.6	35.3	35.3	35.0	34.7	34.0	32.8	32.5	31.1	31.3	31.8	35.3	29.2	32.2
07/16/09	30.7	30.6	29.6	29.4	29.3	28.7	28.8	29.7	31.5	32.3	33.2	34.0	35.2	36.0	36.5	37.3	37.2	37.2	36.8	35.0	34.8	33.9	34.2	33.5	37.3	28.7	33.1
07/17/09	32.9	32.6	31.4	31.3	30.5	30.3	30.5	31.1	31.9	32.6	34.1	35.3	36.6	37.6	38.1	38.4	34.7	33.5	32.3	30.3	31.8	32.4	32.2	32.9	38.4	30.3	33.1
07/18/09	32.9	32.0	31.4	30.5	29.4	30.0	30.1	31.5	32.7	34.4	36.1	37.1	37.9	38.3	38.8	39.4	39.5	39.5	33.3	31.1	30.4	31.4	32.1	30.8	39.5	29.4	33.8
07/19/09	30.6	31.0	31.1	29.4	29.6	30.0	30.7	31.7	33.7	34.8	35.7	36.5	37.3	38.0	38.7	38.9	38.8	38.6	38.2	36.3	33.4	32.2	32.2	32.1	38.9	29.4	34.1
07/20/09	30.9	30.5	30.4	31.4	30.2	29.7	29.3	29.7	30.8	32.3	33.8	34.5	35.6	36.0	36.6	36.9	37.1	36.4	33.7	32.2	29.3	28.9	27.2	28.1	37.1	27.2	32.1
07/21/09	28.5	28.9	27.5	27.2	26.0	25.9	25.3	24.3	24.5	24.5	25.0	26.8	29.3	30.9	32.0	32.7	33.1	33.2	32.9	32.1	31.5	31.5	31.0	29.6	33.2	24.3	28.9
07/22/09	28.2	26.3	27.4	27.3	27.2	27.3	26.7	28.5	29.0	30.3	31.6	33.0	34.3	34.9	35.6	34.7	33.2	30.5	30.7	27.7	27.7	28.6	29.4	28.5	35.6	26.3	29.9
07/23/09	28.1	27.5	27.5	27.5	27.2	27.0	26.8	27.3	28.1	30.0	31.7	32.6	32.8	33.3	32.7	32.5	32.9	33.2	33.1	32.7	31.9	31.4	24.9	25.0	33.3	24.9	29.9
07/24/09	24.9	25.2	25.6	25.2	24.5	25.5	24.9	25.6	27.3	28.6	29.1	29.4	30.1	30.5	30.8	31.3	31.8	32.3	32.1	31.7	31.5	30.9	30.4	29.9	32.3	24.5	28.7
07/25/09	29.8	29.7	29.8	29.0	28.6	28.3	28.0	28.3	29.4	30.8	31.8	32.7	29.2	28.8	32.5	34.4	33.5	29.6	26.8	27.3	29.2	28.7	28.4	28.4	34.4	26.8	29.7
07/26/09	27.4	28.0	27.2	26.9	26.9	26.3	26.4	27.2	29.0	30.6	31.5	32.7	33.7	34.7	35.6	36.0	36.4	36.3	36.1	35.3	34.5	34.2	33.9	32.9	36.4	26.3	31.6
07/27/09	32.2	32.5	31.9	31.3	31.2	30.8	30.3	31.1	32.4	33.7	34.7	35.6	36.5	37.4	37.9	38.5	38.6	38.5	38.0	37.2	36.4	35.8	34.9	34.8	38.6	30.3	34.7
07/28/09	34.4	34.0	32.6	32.7	32.1	31.4	30.6	31.3	32.6	33.8	35.2	36.0	36.8	37.5	38.3	38.8	38.8	38.6	38.1	37.1	36.1	35.4	34.0	33.5	38.8	30.6	35.0
07/29/09	32.7	32.0	31.3	29.9	29.8	29.3	29.2	28.8	30.3	31.1	32.2	33.3	34.1	34.7	35.4	35.6	36.2	36.1	35.9	35.1	34.3	33.1	32.0	31.3	36.2	28.8	32.6
07/30/09	30.6	30.0	29.3	28.7	28.3	27.9	26.9	27.6	29.0	29.8	31.1	32.2	33.1	34.1	34.7	34.6	34.8	34.9	34.8	34.1	33.5	32.5	31.4	31.1	34.9	26.9	31.5
07/31/09	30.2	29.5	29.8	28.3	28.5	28.3	27.5	28.9	30.3	31.2	32.5	33.8	34.8	35.6	35.9	36.1	36.3	36.3	35.8	34.9	34.1	33.4	32.5	31.6	36.3	27.5	32.3
Hourly Averages	30.3	29.9	29.5	28.9	28.4	28.1	28.0	28.8	30.0	31.2	32.4	33.4	34.1	35.0	35.6	35.9	35.9	35.6	34.7	33.8	33.0	32.2	31.4	30.9			

Maximum Hourly Temperature: 39.5 **Minimum Hourly Temperature:** 23.0 **Average Monthly Temperature:** 32.0

Maximum 24-Hour Mean: 35.0 **Minimum 24-Hour Mean:** 28.7

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	28.7	28.3	27.5	27.8	24.1	23.0	24.8	25.4	26.8	28.8	29.9	31.8	31.3	33.0	33.7	33.7	34.6	35.2	34.2	33.4	31.1	26.3	25.4	25.1	35.2	23.0	29.3
07/02/09	24.2	24.5	24.2	23.6	23.7	24.5	24.6	25.3	25.5	26.6	29.3	30.3	31.4	32.9	34.2	35.0	35.1	34.8	33.4	32.2	30.8	29.9	29.4	28.6	35.1	23.6	28.9
07/03/09	27.7	27.8	27.7	27.2	26.9	26.4	26.5	27.7	29.5	30.8	32.6	33.1	33.6	34.5	35.5	35.5	35.8	35.1	29.3	29.0	28.4	25.6	25.9	24.8	35.8	24.8	29.9
07/04/09	24.7	24.4	24.8	24.2	24.6	23.9	24.5	26.5	28.4	29.9	30.3	31.0	31.9	33.0	33.8	34.2	34.3	34.2	33.7	32.9	32.1	31.8	31.0	30.3	34.3	23.9	29.6
07/05/09	29.2	29.2	28.6	28.2	27.7	27.3	27.9	29.4	30.7	32.3	34.0	35.2	36.3	37.0	37.5	37.6	37.6	37.2	36.3	35.0	33.6	32.4	31.7	31.3	37.6	27.3	32.6
07/06/09	31.4	30.0	29.4	28.9	28.4	28.5	28.6	30.2	31.4	31.9	33.5	35.0	35.5	36.3	36.6	36.8	36.9	36.6	35.8	34.7	33.7	32.7	31.7	31.2	36.9	28.4	32.7
07/07/09	30.7	29.8	28.9	27.6	26.9	26.4	26.6	27.5	28.6	29.9	31.0	32.6	33.7	35.0	35.8	36.1	36.3	35.7	35.1	34.2	33.3	32.5	30.7	30.5	36.3	26.4	31.5
07/08/09	29.8	29.1	28.6	28.4	27.5	27.2	27.8	28.9	30.5	31.7	32.9	33.8	34.2	35.1	35.7	35.9	36.0	35.7	35.4	34.5	33.0	29.1	28.1	29.1	36.0	27.2	31.6
07/09/09	29.2	28.3	27.6	27.6	26.5	26.0	25.8	27.9	30.2	31.9	33.6	34.7	36.1	36.3	37.2	36.9	36.9	36.7	36.2	34.9	34.0	33.6	32.8	32.0	37.2	25.8	32.2
07/10/09	32.1	31.5	30.5	30.1	30.5	30.8	29.8	32.2	33.2	34.8	36.4	36.4	37.3	38.5	39.2	39.2	38.9	38.6	37.9	36.9	36.4	35.4	34.0	33.5	39.2	29.8	34.7
07/11/09	33.7	32.7	31.5	30.7	29.9	29.6	29.8	31.3	32.6	34.2	35.3	36.5	38.7	40.2	39.9	39.7	39.6	38.6	38.1	37.2	36.0	35.4	35.1	33.6	40.2	29.6	35.0
07/12/09	32.9	32.4	31.9	31.0	30.3	30.1	30.4	32.0	33.3	35.3	37.1	37.8	38.1	38.4	39.1	39.5	39.6	39.3	38.5	37.2	35.6	34.6	33.5	32.6	39.6	30.1	35.0
07/13/09	31.9	31.4	31.0	30.0	29.6	28.7	29.3	30.8	32.5	34.5	36.3	37.7	38.3	39.0	39.9	39.7	39.6	39.1	38.3	36.9	35.8	34.9	33.0	32.5	39.9	28.7	34.6
07/14/09	32.2	30.8	30.7	30.2	29.9	29.2	29.8	31.9	33.1	34.1	35.7	37.5	38.3	39.2	39.2	39.7	39.3	38.8	38.1	37.0	36.1	34.8	33.8	33.1	39.7	29.2	34.7
07/15/09	32.3	32.1	30.9	29.8	29.3	29.8	29.4	29.5	30.3	31.8	33.3	34.4	35.0	36.0	36.5	36.2	35.7	35.1	34.3	33.0	32.6	31.2	31.4	31.8	36.5	29.3	32.6
07/16/09	30.7	30.6	29.7	29.5	29.2	28.5	28.6	29.9	32.6	33.4	34.3	35.3	36.6	37.3	37.7	38.5	38.3	37.9	37.3	35.2	34.8	33.8	34.1	33.4	38.5	28.5	33.6
07/17/09	32.7	32.1	31.0	31.2	30.3	30.1	30.6	31.6	32.9	33.6	35.1	36.4	37.8	39.1	39.4	39.8	35.2	33.3	32.1	30.3	31.7	32.3	32.1	32.7	39.8	30.1	33.5
07/18/09	32.6	31.7	31.2	29.7	28.9	29.8	30.1	31.8	33.2	35.3	37.3	38.4	39.1	39.4	40.1	40.6	40.4	40.1	32.9	30.7	30.0	30.8	31.4	30.2	40.6	28.9	34.0
07/19/09	29.9	30.4	30.6	28.8	28.8	29.1	30.2	31.8	34.1	35.5	36.7	37.8	38.5	39.0	40.0	40.1	39.7	39.3	38.6	36.3	33.4	32.3	32.1	32.1	40.1	28.8	34.4
07/20/09	31.0	30.5	30.4	31.3	30.1	29.5	29.2	29.8	31.3	33.3	34.8	35.6	36.9	37.4	37.9	38.0	38.1	37.0	33.7	32.2	29.4	28.9	27.2	27.9	38.1	27.2	32.5
07/21/09	28.3	28.8	27.5	27.0	25.9	25.7	25.3	24.4	24.4	24.3	24.9	27.1	29.9	32.0	33.2	33.8	34.1	33.9	33.3	32.1	31.2	31.2	30.8	29.3	34.1	24.3	29.1
07/22/09	28.1	26.2	27.1	26.8	26.9	26.9	26.6	29.0	29.5	31.0	32.6	34.2	35.5	36.1	36.9	35.4	34.1	31.2	31.1	27.9	27.8	28.7	29.4	28.5	36.9	26.2	30.3
07/23/09	28.2	27.6	27.4	27.5	27.2	27.0	26.9	27.5	28.4	30.8	33.0	34.3	34.5	34.7	33.8	33.3	33.8	34.1	33.7	33.0	32.1	31.4	24.8	24.6	34.7	24.6	30.4
07/24/09	24.3	24.7	25.0	24.8	24.2	25.1	24.7	25.6	27.7	29.2	29.8	30.2	31.2	31.7	31.7	32.2	32.4	33.1	32.4	31.9	31.6	30.7	30.3	29.6	33.1	24.2	28.9
07/25/09	29.6	29.5	29.6	28.8	28.4	28.1	28.1	28.7	30.2	31.8	33.0	33.9	29.6	29.0	33.3	34.9	33.6	29.7	26.7	27.1	28.7	28.3	28.1	28.0	34.9	26.7	29.9
07/26/09	27.1	27.3	26.7	26.1	26.1	25.7	25.9	27.3	29.5	31.3	32.3	33.6	35.0	35.9	36.9	37.1	37.3	37.1	36.5	35.3	34.3	33.3	32.7	32.0	37.3	25.7	31.8
07/27/09	31.7	31.4	30.4	29.8	29.2	28.9	29.5	31.5	33.0	34.5	35.7	36.8	37.7	38.7	39.1	39.6	39.5	39.2	38.4	37.1	36.2	35.3	34.2	33.5	39.6	28.9	34.6
07/28/09	33.3	32.9	31.8	31.3	30.9	30.4	29.8	31.6	33.2	34.6	36.5	37.2	38.1	38.9	39.6	40.1	39.7	39.3	38.4	37.0	36.0	35.2	33.3	33.3	40.1	29.8	35.1
07/29/09	32.3	30.9	30.7	29.4	29.4	28.7	29.0	29.1	30.9	32.3	33.7	34.7	35.5	36.1	36.8	36.8	37.3	36.9	36.3	35.1	34.2	33.1	32.0	31.2	37.3	28.7	33.0
07/30/09	30.4	29.7	28.9	28.1	27.7	27.8	26.7	28.0	29.8	30.9	32.4	33.6	34.3	35.4	36.2	35.9	35.8	35.7	35.3	34.2	33.3	32.0	30.9	30.4	36.2	26.7	31.8
07/31/09	29.3	28.9	28.8	27.8	27.7	27.4	27.1	29.5	30.9	32.2	33.6	34.9	36.2	36.8	37.1	37.3	37.2	37.0	36.2	34.9	33.9	32.7	31.5	30.7	37.3	27.1	32.5
Hourly Averages	30.0	29.5	29.0	28.5	27.9	27.7	27.9	29.1	30.6	32.0	33.4	34.6	35.4	36.2	36.9	37.1	36.9	36.3	35.1	33.8	32.9	31.9	31.0	30.5			

Maximum Hourly Temperature: 40.6 **Minimum Hourly Temperature:** 23.0 **Average Monthly Temperature:** 32.3

Maximum 24-Hour Mean: 35.1 **Minimum 24-Hour Mean:** 28.9

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	-0.065	-0.085	-0.040	-0.044	-0.113	0.015	0.003	-0.147	-0.574	-0.640	-0.722	-1.093	-1.108	-1.326	-1.319	-0.963	-0.978	-0.844	-0.480	-0.285	-0.224	-0.035	0.193	0.237	0.237	-1.326	-0.443
07/02/09	0.075	0.235	0.291	0.186	0.252	0.191	0.196	0.108	-0.199	-0.204	-0.386	-0.437	-0.568	-0.841	-0.994	-1.004	-0.875	-0.808	-0.456	-0.086	-0.031	0.066	0.041	0.001	0.291	-1.004	-0.219
07/03/09	-0.029	-0.013	-0.013	0.050	0.119	0.097	-0.067	-0.366	-0.678	-0.767	-1.210	-1.137	-1.125	-1.023	-1.159	-1.026	-0.947	-0.807	-0.549	-0.243	-0.163	-0.230	-0.205	-0.219	0.119	-1.210	-0.488
07/04/09	-0.172	-0.128	-0.090	-0.038	0.135	0.063	-0.151	-0.481	-0.713	-1.085	-1.096	-1.237	-1.316	-1.387	-1.454	-1.338	-1.159	-0.912	-0.619	-0.277	-0.112	0.002	0.224	0.338	0.338	-1.454	-0.542
07/05/09	0.323	0.425	0.763	0.447	0.718	0.465	0.032	-0.541	-0.608	-0.939	-1.159	-1.336	-1.450	-1.422	-1.416	-1.304	-1.067	-0.798	-0.428	-0.060	0.252	0.796	1.273	1.124	1.273	-1.450	-0.246
07/06/09	1.067	1.246	2.132	1.417	1.306	0.599	0.001	-0.638	-0.966	-0.992	-1.103	-1.280	-1.289	-1.218	-1.252	-1.111	-1.033	-0.831	-0.466	-0.107	0.062	0.388	0.694	0.583	2.132	-1.289	-0.116
07/07/09	0.330	0.033	-0.032	0.084	0.123	-0.036	-0.181	-0.424	-0.728	-0.957	-0.949	-1.103	-1.333	-1.445	-1.477	-1.280	-1.043	-0.850	-0.574	-0.174	-0.029	0.070	-0.081	-0.064	0.330	-1.477	-0.505
07/08/09	0.008	0.096	0.197	0.156	0.224	0.207	-0.151	-0.362	-0.932	-0.836	-1.183	-1.460	-1.244	-1.406	-1.302	-1.299	-1.096	-0.824	-0.589	-0.177	-0.046	-0.173	-0.125	-0.041	0.224	-1.460	-0.515
07/09/09	0.076	0.323	0.304	0.251	0.125	0.340	-0.042	-0.403	-0.654	-0.923	-1.092	-1.275	-1.398	-1.091	-1.319	-1.156	-1.053	-0.873	-0.525	-0.042	0.367	0.538	0.433	0.375	0.538	-1.398	-0.363
07/10/09	0.364	0.349	0.412	0.587	0.434	0.367	-0.100	-0.681	-0.675	-1.018	-1.396	-0.980	-1.159	-1.086	-1.364	-1.155	-0.880	-0.835	-0.539	-0.117	-0.022	0.091	0.325	0.496	0.587	-1.396	-0.358
07/11/09	0.252	0.262	0.277	0.539	0.559	0.320	0.182	-0.685	-0.709	-1.008	-1.024	-0.939	-1.441	-1.587	-1.043	-1.007	-1.055	-0.623	-0.395	0.036	0.277	0.389	0.290	0.393	0.559	-1.587	-0.323
07/12/09	0.996	0.914	1.449	0.797	1.360	0.779	0.079	-0.382	-0.534	-0.869	-1.018	-1.212	-1.262	-1.205	-1.091	-1.151	-1.004	-0.806	-0.447	-0.056	0.064	0.249	0.326	0.092	1.449	-1.262	-0.164
07/13/09	0.191	0.238	0.351	0.648	0.470	0.472	0.134	-0.418	-0.562	-0.915	-1.075	-1.263	-1.177	-1.221	-1.400	-1.185	-1.035	-0.795	-0.416	0.011	0.121	0.175	-0.091	-0.031	0.648	-1.400	-0.366
07/14/09	0.089	0.181	0.364	0.378	0.460	0.494	0.208	-0.455	-0.693	-0.781	-1.114	-1.299	-1.328	-1.471	-1.282	-1.375	-1.059	-0.776	-0.390	0.023	0.101	0.528	1.198	0.590	1.198	-1.471	-0.309
07/15/09	0.167	0.153	0.456	0.348	0.433	0.234	-0.065	-0.260	-0.496	-0.686	-0.859	-0.988	-1.112	-1.406	-1.245	-0.936	-0.658	-0.409	-0.280	-0.176	-0.110	-0.141	-0.105	-0.057	0.456	-1.406	-0.342
07/16/09	-0.019	0.061	-0.017	-0.044	0.152	0.217	0.178	-0.204	-1.082	-1.071	-1.150	-1.254	-1.399	-1.324	-1.234	-1.246	-1.030	-0.781	-0.458	-0.263	-0.049	0.090	0.097	0.116	0.217	-1.399	-0.488
07/17/09	0.142	0.499	0.410	0.133	0.205	0.179	-0.081	-0.546	-1.024	-0.996	-1.040	-1.095	-1.253	-1.407	-1.267	-1.366	-0.498	0.192	0.280	0.077	0.070	0.174	0.102	0.269	0.499	-1.407	-0.327
07/18/09	0.330	0.235	0.194	0.753	0.505	0.281	-0.024	-0.257	-0.498	-0.889	-1.202	-1.273	-1.221	-1.066	-1.362	-1.260	-0.871	-0.530	0.325	0.403	0.413	0.504	0.685	0.606	0.753	-1.362	-0.217
07/19/09	0.692	0.608	0.582	0.601	0.790	0.844	0.472	-0.120	-0.394	-0.721	-1.019	-1.304	-1.263	-0.964	-1.240	-1.184	-0.973	-0.771	-0.391	-0.004	-0.064	-0.107	0.092	0.031	0.844	-1.304	-0.242
07/20/09	-0.045	-0.016	0.069	0.148	0.125	0.205	0.103	-0.142	-0.549	-0.947	-1.048	-1.103	-1.330	-1.388	-1.342	-1.107	-0.939	-0.525	0.024	0.003	-0.036	-0.003	0.031	0.224	0.224	-1.388	-0.399
07/21/09	0.126	0.090	0.085	0.150	0.147	0.215	-0.006	-0.066	0.024	0.139	0.082	-0.302	-0.650	-1.014	-1.180	-1.088	-0.912	-0.762	-0.412	-0.038	0.278	0.308	0.163	0.293	0.308	-1.180	-0.180
07/22/09	0.076	0.112	0.250	0.418	0.237	0.386	0.108	-0.453	-0.575	-0.753	-0.961	-1.204	-1.197	-1.186	-1.355	-0.677	-0.828	-0.701	-0.363	-0.216	-0.160	-0.115	-0.012	-0.041	0.418	-1.355	-0.384
07/23/09	-0.095	-0.059	0.030	-0.002	0.002	-0.002	-0.084	-0.193	-0.347	-0.742	-1.271	-1.664	-1.637	-1.426	-1.100	-0.880	-0.863	-0.918	-0.598	-0.247	-0.110	-0.049	0.168	0.391	0.391	-1.664	-0.487
07/24/09	0.593	0.472	0.516	0.391	0.266	0.341	0.153	0.047	-0.421	-0.570	-0.732	-0.750	-1.100	-1.140	-0.913	-0.861	-0.631	-0.790	-0.387	-0.201	-0.112	0.171	0.137	0.260	0.593	-1.140	-0.219
07/25/09	0.157	0.222	0.202	0.220	0.281	0.227	-0.076	-0.478	-0.818	-1.038	-1.160	-1.266	-0.356	-0.258	-0.809	-0.440	-0.120	-0.081	0.126	0.176	0.434	0.449	0.297	0.375	0.449	-1.266	-0.156
07/26/09	0.293	0.654	0.524	0.770	0.859	0.557	0.536	-0.148	-0.488	-0.734	-0.783	-0.956	-1.322	-1.231	-1.292	-1.152	-0.912	-0.771	-0.415	0.011	0.205	0.919	1.201	0.863	1.201	-1.322	-0.117
07/27/09	0.536	1.086	1.522	1.583	2.030	1.884	0.838	-0.356	-0.626	-0.830	-0.993	-1.226	-1.224	-1.302	-1.234	-1.114	-0.899	-0.733	-0.345	0.075	0.225	0.527	0.669	1.283	2.030	-1.302	0.057
07/28/09	1.155	1.147	0.788	1.458	1.181	1.060	0.755	-0.233	-0.554	-0.763	-1.325	-1.201	-1.308	-1.415	-1.325	-1.315	-0.913	-0.676	-0.301	0.035	0.137	0.257	0.706	0.244	1.458	-1.415	-0.100
07/29/09	0.363	1.094	0.595	0.521	0.393	0.587	0.218	-0.352	-0.677	-1.196	-1.481	-1.422	-1.423	-1.352	-1.383	-1.249	-1.028	-0.757	-0.398	-0.036	0.119	0.008	0.031	0.104	1.094	-1.481	-0.363
07/30/09	0.155	0.267	0.330	0.620	0.630	0.078	0.222	-0.376	-0.768	-1.048	-1.286	-1.384	-1.265	-1.366	-1.435	-1.280	-0.983	-0.786	-0.434	-0.033	0.198	0.467	0.530	0.634	0.634	-1.435	-0.346
07/31/09	0.898	0.548	0.957	0.525	0.837	0.907	0.369	-0.628	-0.617	-0.942	-1.053	-1.104	-1.326	-1.250	-1.203	-1.208	-0.868	-0.716	-0.385	-0.034	0.211	0.691	0.964	0.944	0.964	-1.326	-0.145
Hourly Averages	0.291	0.363	0.447	0.453	0.492	0.406	0.121	-0.343	-0.617	-0.830	-1.026	-1.147	-1.212	-1.233	-1.251	-1.120	-0.910	-0.706	-0.364	-0.065	0.073	0.226	0.331	0.336			

Maximum Hourly Differential Temperature: 2.132 **Minimum Hourly Differential Temperature:** -1.664

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	31.3	31.1	29.5	29.5	28.5	28.6	28.7	29.6	30.4	31.4	32.9	34.4	35.7	36.7	37.1	37.3	37.5	37.1	36.5	35.2	34.4	34.2	34.2	33.8	37.5	28.5	33.1
08/02/09	32.1	31.9	31.7	30.7	30.6	30.3	29.7	30.7	31.8	32.9	34.1	35.8	36.7	37.4	38.1	38.2	38.2	38.1	37.4	36.1	35.3	34.1	32.9	32.7	38.2	29.7	34.1
08/03/09	32.5	32.1	30.6	30.8	31.2	30.6	30.9	31.4	32.0	32.7	33.9	35.4	36.5	37.6	38.1	38.4	38.7	38.5	37.9	36.7	35.8	35.2	34.6	34.5	38.7	30.6	34.4
08/04/09	33.2	30.7	29.9	29.3	28.7	28.3	28.1	28.4	29.5	31.1	32.6	33.7	35.0	36.0	36.7	37.2	37.4	37.3	37.0	36.3	35.7	34.6	34.1	34.0	37.4	28.1	33.1
08/05/09	33.5	32.3	32.5	31.3	31.0	31.3	30.4	31.6	32.7	33.8	35.1	36.7	37.3	37.6	38.1	38.4	38.3	37.9	37.6	36.7	35.4	34.0	32.3	32.0	38.4	30.4	34.5
08/06/09	32.1	31.5	30.0	29.6	29.7	29.3	29.1	29.2	30.9	32.2	32.2	33.3	34.4	35.4	35.7	36.0	36.0	35.9	34.9	33.8	32.7	31.9	31.4	30.9	36.0	29.1	32.4
08/07/09	30.6	30.1	29.2	28.4	27.7	27.6	26.7	27.4	28.6	29.7	30.7	31.4	32.0	32.6	33.0	33.5	33.4	32.8	31.8	30.5	29.1	28.6	28.2	27.2	33.5	26.7	30.0
08/08/09	26.8	26.5	25.9	26.0	25.3	24.9	25.1	26.6	28.1	29.3	30.1	31.0	31.6	32.1	32.4	32.9	33.1	32.9	32.4	31.6	31.1	29.9	28.6	28.8	33.1	24.9	29.3
08/09/09	28.7	27.8	27.2	26.3	25.9	25.3	25.5	26.7	28.1	29.7	30.8	31.8	32.6	33.5	33.6	33.6	33.8	33.8	33.5	32.7	32.3	30.8	30.2	29.0	33.8	25.3	30.1
08/10/09	29.3	28.9	28.2	26.7	27.1	26.7	26.7	27.9	29.5	30.5	31.0	31.8	32.7	33.8	34.4	35.0	35.2	35.1	34.6	33.4	32.7	32.3	31.9	30.7	35.2	26.7	31.1
08/11/09	29.3	27.9	27.0	26.5	26.6	26.4	25.7	26.2	27.5	29.4	31.0	32.3	33.3	33.6	33.3	33.6	33.8	33.1	32.3	32.1	31.7	31.5	31.0	30.3	33.8	25.7	30.2
08/12/09	30.0	30.0	29.8	29.2	28.9	29.0	29.6	29.5	30.9	32.6	34.0	34.5	35.2	35.9	36.3	36.2	35.8	32.5	32.6	32.5	31.4	31.4	29.3	28.3	36.3	28.3	31.9
08/13/09	27.9	26.5	26.3	25.3	23.7	23.4	23.2	23.6	24.5	25.1	26.1	26.5	27.0	27.2	27.4	26.5	25.5	26.0	25.5	25.2	25.4	25.5	25.3	25.2	27.9	23.2	25.6
08/14/09	24.7	24.5	24.6	24.7	24.2	23.8	23.9	24.8	26.6	28.1	29.5	30.8	31.8	32.4	33.1	33.3	33.8	33.3	32.9	32.4	31.9	30.9	30.3	29.1	33.8	23.8	29.0
08/15/09	29.5	29.0	27.8	27.9	27.1	27.0	27.0	28.0	29.0	30.3	31.2	32.4	33.1	33.4	34.0	34.6	34.6	34.7	34.4	33.3	32.2	31.6	30.7	30.4	34.7	27.0	31.0
08/16/09	29.8	29.1	28.7	27.4	27.8	26.4	26.9	28.1	29.7	30.9	31.8	33.0	33.6	34.5	34.7	34.8	34.8	34.8	34.1	33.3	32.8	31.3	30.1	30.2	34.8	26.4	31.2
08/17/09	29.0	29.6	28.9	27.8	27.4	27.4	27.4	28.9	30.8	32.5	33.8	34.4	35.5	36.1	36.0	36.3	36.1	36.0	35.6	34.6	34.1	32.3	31.2	30.9	36.3	27.4	32.2
08/18/09	30.5	29.7	29.2	29.6	28.8	28.5	28.1	28.4	31.1	32.4	33.9	34.9	35.6	35.9	36.3	36.3	36.3	36.1	35.5	34.6	34.1	33.6	32.5	31.4	36.3	28.1	32.6
08/19/09	31.4	31.2	30.3	29.2	27.6	27.4	26.9	27.2	27.6	28.8	30.0	31.2	32.4	33.3	33.7	34.3	34.5	34.5	33.9	32.9	32.4	32.2	32.0	31.7	34.5	26.9	31.1
08/20/09	30.5	30.4	29.2	29.3	29.0	27.7	27.3	27.6	28.5	30.0	31.6	32.9	34.0	34.9	35.6	36.2	36.4	36.4	35.8	34.7	34.1	34.1	33.5	32.5	36.4	27.3	32.2
08/21/09	30.4	29.1	28.8	28.5	28.5	28.2	28.2	28.7	29.9	31.0	32.0	33.1	34.1	35.0	35.8	35.6	32.2	32.9	30.7	29.4	28.4	24.3	23.8	23.4	35.8	23.4	30.1
08/22/09	23.6	23.4	24.0	23.0	23.6	23.4	22.6	21.7	22.0	23.3	26.1	28.3	28.5	29.2	28.5	28.8	28.3	28.7	28.3	27.6	26.7	26.5	26.3	26.3	29.2	21.7	25.8
08/23/09	26.0	25.3	25.6	24.8	24.6	24.2	23.8	24.6	26.6	28.4	29.6	30.7	31.8	32.2	32.8	33.1	33.2	32.8	32.1	31.2	30.6	30.0	29.3	28.9	33.2	23.8	28.8
08/24/09	28.5	27.5	26.7	26.2	26.0	25.6	25.2	25.7	26.7	28.0	29.1	30.2	31.2	32.0	32.8	33.0	32.9	32.9	32.5	31.7	31.2	29.7	28.3	27.9	33.0	25.2	29.2
08/25/09	27.5	27.1	26.1	26.6	26.2	26.0	25.7	26.0	27.3	28.7	30.0	31.1	32.3	33.1	32.7	31.2	31.8	31.8	31.9	31.1	30.6	28.8	29.1	28.6	33.1	25.7	29.2
08/26/09	27.9	28.0	27.3	27.0	26.8	26.3	26.1	27.1	29.2	30.4	32.3	33.3	34.1	34.9	35.6	35.9	35.7	35.5	34.5	33.5	33.0	32.6	32.2	31.6	35.9	26.1	31.3
08/27/09	30.2	30.7	29.7	29.6	29.5	28.0	29.3	30.2	31.4	33.5	35.2	36.2	36.5	37.4	37.6	37.8	37.6	37.5	36.7	35.7	35.5	35.3	33.8	34.0	37.8	28.0	33.7
08/28/09	34.1	33.8	32.4	31.3	31.4	31.1	30.8	31.2	32.1	33.5	34.8	35.6	36.6	37.1	37.5	37.8	38.0	37.6	36.9	35.9	35.1	34.8	34.2	33.9	38.0	30.8	34.5
08/29/09	33.7	32.9	31.9	31.6	31.2	31.2	30.6	31.7	33.0	33.9	34.9	36.0	36.5	36.9	37.4	38.0	37.9	37.5	37.0	36.1	35.2	34.6	34.3	34.1	38.0	30.6	34.5
08/30/09	33.5	31.8	31.9	31.3	30.9	30.4	29.9	30.7	31.2	32.8	33.5	34.5	35.3	35.9	36.4	36.7	36.6	36.4	34.7	33.0	32.4	32.6	32.5	31.7	36.7	29.9	33.2
08/31/09	31.3	30.9	30.5	30.0	30.0	29.7	30.4	31.0	31.7	33.0	33.7	34.5	35.4	35.9	36.6	36.1	35.8	35.7	34.2	32.9	30.6	29.9	30.0	29.2	36.6	29.2	32.5
Hourly Averages	30.0	29.4	28.8	28.2	27.9	27.5	27.4	28.1	29.3	30.6	31.8	33.0	33.8	34.5	34.9	35.0	34.9	34.7	34.0	33.1	32.4	31.6	30.9	30.4			

Maximum Hourly Temperature: 38.7 **Minimum Hourly Temperature:** 21.7 **Average Monthly Temperature:** 31.3

Maximum 24-Hour Mean: 34.5 **Minimum 24-Hour Mean:** 25.6

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	30.2	29.7	28.5	28.5	27.5	27.8	27.5	30.0	31.1	32.2	33.8	35.5	36.9	38.1	38.4	38.5	38.4	37.9	36.8	35.1	34.3	33.8	34.0	33.5	38.5	27.5	33.3
08/02/09	31.1	30.9	30.6	29.8	29.5	29.3	29.1	30.9	32.6	33.7	34.9	36.9	38.0	38.5	39.3	39.3	39.1	38.8	37.7	36.0	35.0	34.0	32.9	32.6	39.3	29.1	34.2
08/03/09	32.2	31.8	30.0	30.2	30.8	30.0	30.7	31.7	32.4	33.5	34.6	36.5	37.6	38.9	39.4	39.6	39.7	39.2	38.2	36.6	35.5	34.7	33.4	33.3	39.7	30.0	34.6
08/04/09	32.7	30.7	29.8	29.2	28.6	28.3	28.3	28.8	30.2	32.0	33.8	35.1	36.1	37.3	37.9	38.3	38.4	38.1	37.3	36.3	35.5	34.5	34.1	34.0	38.4	28.3	33.5
08/05/09	33.5	32.2	32.4	31.2	30.8	31.0	30.3	31.9	33.4	34.9	36.1	38.0	38.6	38.7	39.2	39.6	39.3	38.6	38.0	36.8	35.4	33.9	32.3	32.0	39.6	30.3	34.9
08/06/09	32.1	31.6	30.1	29.7	29.7	29.4	29.2	29.5	31.6	33.3	33.0	34.5	36.0	36.8	37.2	37.4	37.0	36.6	35.2	33.7	32.4	31.5	31.2	30.2	37.4	29.2	32.9
08/07/09	29.5	28.4	28.6	27.4	26.6	26.2	26.1	27.8	29.3	30.7	32.0	32.9	33.5	34.0	34.3	34.8	34.4	33.5	32.2	30.3	28.8	27.5	26.8	26.1	34.8	26.1	30.1
08/08/09	25.6	25.1	24.7	24.8	23.5	23.8	24.7	27.1	28.9	30.5	31.5	32.6	33.2	33.5	33.7	34.3	34.3	33.6	32.9	31.7	30.6	29.4	28.2	28.3	34.3	23.5	29.4
08/09/09	28.3	27.2	26.5	25.6	25.4	24.8	24.8	27.3	28.7	30.7	32.1	33.1	34.0	34.9	35.0	34.8	34.8	34.5	33.8	32.8	32.2	30.5	29.8	28.6	35.0	24.8	30.4
08/10/09	28.2	27.6	27.2	25.7	25.9	25.7	26.0	28.5	30.0	31.4	31.9	32.9	34.0	34.9	35.7	36.1	36.2	35.8	34.9	33.3	32.5	31.6	31.4	30.4	36.2	25.7	31.2
08/11/09	29.3	27.8	27.0	26.5	26.7	26.4	25.8	26.4	28.0	30.3	31.8	33.6	34.5	34.8	34.3	34.6	34.6	33.5	32.6	32.1	31.4	30.6	30.4	29.9	34.8	25.8	30.5
08/12/09	29.7	29.1	28.8	28.3	28.0	28.2	29.3	29.7	31.3	33.3	34.9	35.6	36.5	37.2	37.6	37.3	36.8	33.2	33.0	32.6	31.6	31.5	29.5	28.5	37.6	28.0	32.1
08/13/09	28.1	26.5	26.4	25.5	23.8	23.6	23.3	24.0	24.8	25.5	26.5	26.8	27.5	27.6	27.7	26.9	25.9	26.4	25.7	25.3	25.4	25.5	25.3	25.1	28.1	23.3	25.8
08/14/09	24.6	24.3	24.4	24.5	24.1	23.7	23.9	25.4	27.3	28.9	30.5	31.7	32.8	33.5	34.2	34.4	34.7	33.8	33.2	32.5	31.7	30.4	29.6	28.6	34.7	23.7	29.3
08/15/09	28.7	28.5	26.7	26.7	25.7	25.4	26.2	28.5	29.8	31.3	32.3	33.9	34.6	34.8	35.4	35.9	35.5	35.3	34.7	33.2	31.7	30.6	29.9	29.1	35.9	25.4	31.0
08/16/09	28.6	28.0	27.5	26.5	26.4	25.7	26.0	28.3	30.5	31.8	32.8	34.6	35.1	35.9	36.0	36.1	35.6	35.4	34.4	33.2	32.6	30.7	29.5	29.4	36.1	25.7	31.3
08/17/09	28.2	28.2	27.8	26.9	26.3	26.3	26.8	29.3	31.6	33.3	34.8	35.4	36.9	37.4	37.2	37.4	36.9	36.7	35.9	34.5	33.9	32.1	30.5	29.8	37.4	26.3	32.3
08/18/09	28.9	29.0	28.4	28.1	27.0	27.0	27.0	28.6	31.6	33.2	34.9	35.9	36.8	37.1	37.6	37.5	37.2	36.7	35.7	34.5	34.0	33.2	31.8	30.5	37.6	27.0	32.6
08/19/09	30.0	29.9	29.6	28.9	27.0	26.7	26.4	27.5	28.2	29.7	30.8	32.5	33.7	34.5	34.9	35.3	35.5	35.1	34.1	32.7	32.2	31.7	31.8	31.0	35.5	26.4	31.2
08/20/09	29.8	29.6	28.6	28.8	28.0	27.2	26.9	28.0	29.1	30.9	32.5	34.2	35.4	36.1	36.8	37.4	37.3	36.9	35.9	34.4	33.7	33.7	32.8	31.9	37.4	26.9	32.3
08/21/09	30.3	28.8	28.5	28.1	28.2	27.8	28.0	29.1	30.6	31.7	33.0	34.2	35.1	36.1	37.2	36.5	32.1	32.9	30.4	28.9	27.9	24.3	23.7	23.3	37.2	23.3	30.3
08/22/09	23.5	23.3	24.0	22.8	23.5	23.3	22.6	21.9	22.4	23.8	26.9	29.3	29.4	30.1	29.2	29.4	28.9	29.3	28.6	27.7	26.6	26.3	26.2	26.1	30.1	21.9	26.0
08/23/09	25.8	25.1	25.3	24.5	24.3	23.9	23.4	25.0	27.2	29.2	30.5	31.9	33.2	33.7	34.0	34.3	34.2	33.5	32.5	31.3	30.6	29.9	29.2	28.6	34.3	23.4	29.2
08/24/09	28.2	27.3	26.6	26.2	26.0	25.6	25.3	26.1	27.4	29.0	30.5	31.5	32.4	33.2	34.1	33.9	33.7	33.6	32.8	31.7	31.0	29.6	28.4	27.9	34.1	25.3	29.7
08/25/09	27.4	26.9	25.8	26.3	26.0	25.9	25.7	26.4	28.0	29.6	31.4	32.5	33.7	34.9	33.8	32.5	32.6	32.4	32.2	31.2	30.6	28.8	28.9	28.3	34.9	25.7	29.7
08/26/09	27.4	27.6	26.7	26.7	26.6	26.1	25.9	27.6	30.3	31.6	33.3	34.5	35.0	35.9	36.6	36.8	36.5	36.0	34.7	33.4	32.5	31.5	30.9	30.7	36.8	25.9	31.4
08/27/09	29.6	29.6	28.9	28.6	28.2	27.2	28.7	30.7	32.1	34.2	36.0	37.3	37.6	38.7	38.8	39.0	38.6	38.0	36.7	35.6	35.1	34.9	33.2	32.5	39.0	27.2	33.7
08/28/09	32.7	33.2	31.8	31.2	31.2	31.0	30.7	31.5	32.8	34.4	36.0	36.8	38.0	38.4	38.3	38.6	38.8	37.9	36.9	35.7	34.7	34.5	34.0	33.7	38.8	30.7	34.7
08/29/09	33.5	32.4	31.3	31.3	30.7	30.9	30.6	31.9	33.6	35.1	36.3	37.5	38.1	38.3	38.8	39.2	38.8	38.2	37.3	36.0	35.0	34.1	33.9	33.6	39.2	30.6	34.8
08/30/09	33.1	31.3	31.5	31.0	30.8	30.1	29.4	31.1	31.9	33.7	34.5	35.8	36.5	37.1	37.5	37.9	37.3	36.8	35.0	33.1	32.4	32.5	32.2	31.6	37.9	29.4	33.5
08/31/09	31.3	30.8	30.3	29.5	29.7	29.6	30.4	31.2	32.3	34.0	34.9	35.9	36.8	37.2	37.9	36.8	36.5	36.1	34.4	33.1	30.7	29.5	29.9	29.0	37.9	29.0	32.8
Hourly Averages	29.4	28.8	28.2	27.7	27.3	27.0	27.1	28.4	30.0	31.5	32.9	34.2	35.1	35.7	36.1	36.1	35.8	35.3	34.3	33.1	32.2	31.2	30.5	29.9			

Maximum Hourly Temperature: 39.7 **Minimum Hourly Temperature:** 21.9 **Average Monthly Temperature:** 31.6

Maximum 24-Hour Mean: 34.9 **Minimum 24-Hour Mean:** 25.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	1.075	1.391	1.023	0.952	0.983	0.743	1.194	-0.328	-0.676	-0.803	-0.962	-1.077	-1.219	-1.404	-1.376	-1.154	-0.953	-0.737	-0.332	0.084	0.132	0.361	0.158	0.306	1.391	-1.404	-0.109
08/02/09	1.023	0.999	1.109	0.959	1.098	1.019	0.639	-0.206	-0.774	-0.756	-0.803	-1.112	-1.281	-1.111	-1.240	-1.094	-0.935	-0.695	-0.321	0.076	0.318	0.113	-0.013	0.146	1.109	-1.281	-0.118
08/03/09	0.239	0.334	0.517	0.582	0.386	0.544	0.147	-0.368	-0.414	-0.799	-0.764	-1.068	-1.149	-1.310	-1.292	-1.196	-0.935	-0.723	-0.297	0.110	0.256	0.472	1.205	1.140	1.205	-1.310	-0.183
08/04/09	0.532	0.022	0.108	0.094	0.070	-0.017	-0.134	-0.425	-0.676	-0.900	-1.233	-1.326	-1.119	-1.290	-1.212	-1.167	-1.014	-0.744	-0.369	-0.022	0.177	0.011	-0.026	0.008	0.532	-1.326	-0.444
08/05/09	0.028	0.042	0.115	0.115	0.174	0.309	0.128	-0.352	-0.678	-1.059	-0.994	-1.278	-1.348	-1.119	-1.115	-1.133	-1.020	-0.714	-0.413	-0.077	0.058	0.079	-0.018	0.021	0.309	-1.348	-0.427
08/06/09	-0.011	-0.109	-0.099	-0.114	-0.035	-0.078	-0.107	-0.265	-0.647	-1.095	-0.765	-1.251	-1.541	-1.412	-1.422	-1.407	-0.993	-0.694	-0.326	0.099	0.253	0.421	0.200	0.668	0.668	-1.541	-0.447
08/07/09	1.123	1.739	0.623	1.035	1.064	1.355	0.537	-0.382	-0.770	-1.019	-1.295	-1.533	-1.485	-1.417	-1.266	-1.299	-0.983	-0.681	-0.333	0.135	0.249	1.120	1.370	1.049	1.739	-1.533	-0.044
08/08/09	1.253	1.367	1.155	1.237	1.785	1.188	0.331	-0.505	-0.758	-1.227	-1.426	-1.570	-1.522	-1.373	-1.341	-1.312	-1.146	-0.731	-0.423	-0.059	0.514	0.475	0.456	0.574	1.785	-1.570	-0.127
08/09/09	0.439	0.589	0.750	0.731	0.507	0.470	0.689	-0.594	-0.614	-0.984	-1.292	-1.318	-1.334	-1.429	-1.393	-1.265	-0.983	-0.716	-0.364	-0.035	0.125	0.289	0.337	0.412	0.750	-1.429	-0.291
08/10/09	1.112	1.298	1.050	0.944	1.121	0.974	0.695	-0.596	-0.568	-0.979	-0.944	-1.120	-1.320	-1.153	-1.207	-1.103	-0.972	-0.726	-0.346	0.060	0.125	0.750	0.491	0.346	1.298	-1.320	-0.086
08/11/09	0.095	0.055	0.069	0.008	-0.067	0.046	-0.037	-0.279	-0.473	-0.941	-0.839	-1.254	-1.242	-1.129	-1.046	-0.981	-0.783	-0.448	-0.231	-0.081	0.258	0.886	0.547	0.344	0.886	-1.254	-0.313
08/12/09	0.363	0.934	0.971	0.924	0.961	0.803	0.230	-0.220	-0.423	-0.699	-0.904	-1.079	-1.332	-1.303	-1.324	-1.027	-0.964	-0.670	-0.346	-0.131	-0.104	-0.069	-0.153	-0.152	0.971	-1.332	-0.238
08/13/09	-0.175	-0.016	-0.113	-0.144	-0.164	-0.181	-0.107	-0.309	-0.273	-0.393	-0.411	-0.366	-0.469	-0.390	-0.342	-0.345	-0.408	-0.328	-0.207	-0.124	-0.007	0.022	0.050	0.064	0.064	-0.469	-0.214
08/14/09	0.114	0.213	0.246	0.190	0.096	0.117	0.025	-0.627	-0.677	-0.783	-0.993	-0.919	-1.054	-1.194	-1.139	-1.057	-0.921	-0.515	-0.249	-0.036	0.181	0.464	0.693	0.567	0.693	-1.194	-0.302
08/15/09	0.798	0.596	1.032	1.203	1.397	1.598	0.726	-0.490	-0.830	-1.000	-1.169	-1.470	-1.547	-1.392	-1.461	-1.283	-0.925	-0.624	-0.303	0.110	0.464	0.942	0.815	1.300	1.598	-1.547	-0.063
08/16/09	1.195	1.174	1.206	0.833	1.421	0.772	0.855	-0.215	-0.730	-0.937	-0.915	-1.545	-1.463	-1.471	-1.291	-1.268	-0.858	-0.642	-0.256	0.057	0.263	0.556	0.583	0.823	1.421	-1.545	-0.077
08/17/09	0.720	1.429	1.155	0.894	1.058	1.083	0.631	-0.400	-0.824	-0.781	-1.051	-0.980	-1.342	-1.362	-1.220	-1.187	-0.816	-0.645	-0.221	0.065	0.207	0.219	0.659	1.115	1.429	-1.362	-0.066
08/18/09	1.553	0.713	0.801	1.469	1.787	1.513	1.124	-0.148	-0.556	-0.765	-0.909	-0.911	-1.180	-1.195	-1.336	-1.224	-0.926	-0.584	-0.254	0.074	0.107	0.376	0.748	0.906	1.787	-1.336	0.049
08/19/09	1.356	1.298	0.673	0.272	0.612	0.691	0.514	-0.302	-0.603	-0.933	-0.867	-1.238	-1.385	-1.275	-1.275	-1.080	-0.999	-0.630	-0.211	0.122	0.190	0.448	0.213	0.656	1.356	-1.385	-0.156
08/20/09	0.626	0.744	0.549	0.510	1.025	0.511	0.405	-0.371	-0.637	-0.833	-0.920	-1.248	-1.358	-1.161	-1.172	-1.214	-0.907	-0.574	-0.121	0.207	0.378	0.370	0.772	0.619	1.025	-1.358	-0.158
08/21/09	0.157	0.254	0.307	0.398	0.348	0.380	0.217	-0.373	-0.630	-0.681	-1.053	-1.110	-0.996	-1.095	-1.455	-0.919	0.095	-0.005	0.334	0.543	0.501	0.007	0.070	0.100	0.543	-1.455	-0.192
08/22/09	0.077	0.074	0.046	0.159	0.109	0.083	-0.016	-0.211	-0.339	-0.483	-0.732	-0.978	-0.854	-0.929	-0.673	-0.574	-0.535	-0.590	-0.331	-0.070	0.045	0.236	0.195	0.149	0.236	-0.978	-0.256
08/23/09	0.157	0.236	0.302	0.288	0.316	0.283	0.361	-0.406	-0.544	-0.862	-0.902	-1.169	-1.364	-1.402	-1.255	-1.244	-1.036	-0.752	-0.420	-0.069	-0.004	0.096	0.074	0.317	0.361	-1.402	-0.375
08/24/09	0.332	0.214	0.022	-0.005	-0.009	-0.003	-0.036	-0.401	-0.682	-1.053	-1.361	-1.298	-1.260	-1.192	-1.287	-0.925	-0.741	-0.642	-0.287	0.023	0.255	0.088	-0.023	0.013	0.332	-1.361	-0.427
08/25/09	0.026	0.114	0.367	0.273	0.264	0.083	-0.007	-0.371	-0.703	-0.856	-1.413	-1.494	-1.401	-1.784	-1.021	-1.228	-0.751	-0.557	-0.287	-0.099	-0.016	0.055	0.116	0.293	0.367	-1.784	-0.433
08/26/09	0.497	0.314	0.663	0.251	0.220	0.239	0.195	-0.423	-1.113	-1.194	-1.012	-1.181	-0.893	-0.997	-1.000	-0.889	-0.826	-0.569	-0.180	0.072	0.516	1.068	1.285	0.959	1.285	-1.194	-0.167
08/27/09	0.544	1.067	0.840	1.022	1.281	0.734	0.632	-0.416	-0.643	-0.693	-0.838	-1.043	-1.057	-1.222	-1.186	-1.219	-0.960	-0.514	-0.041	0.148	0.396	0.347	0.587	1.463	1.463	-1.222	-0.032
08/28/09	1.443	0.644	0.537	0.130	0.177	0.081	0.050	-0.335	-0.673	-0.902	-1.211	-1.207	-1.393	-1.354	-0.831	-0.839	-0.833	-0.326	0.036	0.224	0.423	0.314	0.277	0.222	1.443	-1.393	-0.223
08/29/09	0.148	0.525	0.610	0.332	0.472	0.246	0.039	-0.175	-0.644	-1.177	-1.384	-1.544	-1.546	-1.424	-1.335	-1.182	-0.867	-0.607	-0.253	0.140	0.214	0.427	0.416	0.472	0.610	-1.546	-0.337
08/30/09	0.377	0.447	0.377	0.352	0.131	0.306	0.420	-0.336	-0.729	-0.876	-0.995	-1.232	-1.177	-1.221	-1.117	-1.181	-0.799	-0.432	-0.302	-0.147	0.031	0.163	0.269	0.066	0.447	-1.232	-0.317
08/31/09	0.040	0.060	0.190	0.464	0.292	0.184	-0.008	-0.209	-0.575	-1.005	-1.234	-1.367	-1.438	-1.263	-1.253	-0.681	-0.688	-0.436	-0.218	-0.142	-0.132	0.410	0.139	0.171	0.464	-1.438	-0.362
Hourly Averages	0.557	0.605	0.555	0.528	0.609	0.519	0.333	-0.356	-0.641	-0.886	-1.019	-1.203	-1.260	-1.251	-1.190	-1.086	-0.851	-0.589	-0.254	0.041	0.206	0.371	0.403	0.488			

Maximum Hourly Differential Temperature: 1.787 **Minimum Hourly Differential Temperature:** -1.784

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	29.3	27.5	27.0	26.8	29.0	28.9	29.2	27.5	28.0	28.6	29.4	30.8	32.1	33.4	34.4	34.8	34.7	34.3	33.5	32.9	32.7	31.3	30.1	29.5	34.8	26.8	30.7
09/02/09	29.6	29.1	28.1	27.2	26.4	26.2	25.2	26.0	27.1	28.5	30.3	32.0	33.1	34.0	34.2	34.0	33.7	33.5	33.2	32.6	32.2	31.4	30.3	29.3	34.2	25.2	30.3
09/03/09	28.8	28.2	27.8	27.7	27.4	27.1	27.3	27.8	28.7	29.7	31.0	32.0	32.6	33.2	33.8	34.4	28.2	27.8	28.8	27.8	26.1	25.2	23.9	24.3	34.4	23.9	28.7
09/04/09	23.0	22.8	24.1	24.5	23.7	23.5	22.5	23.6	24.7	26.3	28.2	29.5	30.6	31.3	31.8	31.9	31.9	31.2	29.9	27.0	28.0	28.5	26.5	26.5	31.9	22.5	27.1
09/05/09	26.7	25.0	25.5	25.2	25.3	25.0	23.8	20.7	20.2	20.7	21.2	22.2	25.0	27.2	26.0	24.7	27.0	27.1	26.3	25.8	25.1	24.7	24.6	24.4	27.2	20.2	24.6
09/06/09	24.2	23.0	22.7	23.4	23.7	23.8	23.5	23.7	25.7	27.9	28.0	26.8	27.8	28.9	29.7	30.1	30.7	30.7	30.2	29.5	29.2	28.6	27.2	26.3	30.7	22.7	26.9
09/07/09	25.1	25.2	24.9	24.3	24.4	23.8	23.1	24.3	25.5	26.8	28.2	29.5	30.4	30.5	29.8	30.3	31.2	31.2	30.5	29.9	29.3	28.4	28.1	27.0	31.2	23.1	27.6
09/08/09	26.9	27.0	26.1	26.1	25.3	25.3	24.5	25.7	26.9	28.3	29.4	30.3	31.0	31.6	32.0	31.7	31.5	31.3	30.5	28.0	25.9	26.3	25.4	25.1	32.0	24.5	28.0
09/09/09	25.0	24.9	24.5	24.3	24.7	24.5	24.4	24.0	26.7	27.8	28.8	29.9	30.5	31.2	31.6	31.9	32.1	32.1	31.0	30.0	29.5	28.0	28.2	27.5	32.1	24.0	28.0
09/10/09	27.2	27.0	26.3	26.0	25.8	25.5	25.5	26.6	28.5	29.8	31.2	32.2	33.2	33.8	34.1	34.2	34.1	33.9	33.2	32.3	31.5	30.6	29.3	29.6	34.2	25.5	30.1
09/11/09	29.4	29.1	28.6	27.6	27.3	26.8	26.7	27.2	28.0	29.4	30.9	31.9	33.0	31.7	32.2	33.1	32.4	32.5	31.5	31.0	30.2	29.9	28.7	28.1	33.1	26.7	29.9
09/12/09	27.6	26.8	26.3	26.1	26.3	26.2	25.7	25.8	27.2	28.3	29.6	30.7	31.3	32.0	32.4	33.1	33.4	33.0	32.0	31.2	29.9	29.0	28.3	27.8	33.4	25.7	29.2
09/13/09	27.4	26.7	26.3	26.2	25.9	25.7	25.6	25.6	26.7	28.0	29.0	29.9	30.8	31.4	31.7	32.4	32.6	32.2	31.5	30.2	29.3	29.0	27.7	27.0	32.6	25.6	28.7
09/14/09	27.0	26.2	25.7	25.5	25.0	25.3	24.8	25.0	26.7	27.5	28.3	29.6	30.8	31.5	32.0	32.4	32.5	32.0	31.4	30.5	29.7	28.4	27.6	27.0	32.5	24.8	28.4
09/15/09	26.9	26.2	25.7	25.4	25.1	24.4	23.5	23.8	26.1	27.2	28.2	29.2	30.2	30.7	31.1	31.1	31.0	31.1	30.6	29.4	28.5	27.8	27.1	26.3	31.1	23.5	27.8
09/16/09	26.2	25.3	24.9	24.0	24.3	23.4	23.3	24.3	25.9	27.3	28.4	29.2	29.8	30.4	30.5	30.7	30.4	30.1	29.2	28.6	27.8	27.3	26.3	25.3	30.7	23.3	27.2
09/17/09	25.5	25.2	24.8	24.3	24.5	24.2	24.0	24.4	26.1	27.4	28.5	29.6	30.4	30.8	31.5	30.5	29.6	29.6	28.4	28.3	27.7	25.3	25.0	24.9	31.5	24.0	27.1
09/18/09	24.0	23.8	23.3	22.6	22.9	22.6	21.8	22.8	23.8	24.6	25.7	27.1	28.3	29.2	29.9	30.3	30.4	30.5	29.0	28.7	28.7	28.5	27.8	27.1	30.5	21.8	26.4
09/19/09	26.7	26.7	26.5	26.1	25.9	25.4	25.3	25.6	26.5	27.7	29.0	30.0	30.8	28.9	29.4	30.0	26.1	26.8	26.8	26.8	24.1	23.4	23.8	24.5	30.8	23.4	26.8
09/20/09	24.6	24.2	23.4	24.4	24.7	24.3	24.2	24.3	25.5	27.3	28.9	30.2	31.3	31.8	32.2	32.3	32.0	31.6	30.8	30.1	29.6	29.2	28.5	28.4	32.3	23.4	28.1
09/21/09	27.8	27.2	27.7	26.9	26.8	24.9	25.6	25.7	27.1	28.6	29.8	31.0	31.7	32.5	33.0	33.4	33.3	32.9	31.9	31.2	31.0	30.7	29.5	29.2	33.4	24.9	29.6
09/22/09	28.7	28.3	27.7	27.7	26.2	25.2	24.6	24.7	25.0	25.2	26.1	27.3	28.2	29.1	29.8	30.1	29.7	28.9	27.5	26.3	25.6	25.0	24.2	24.1	30.1	24.1	26.9
09/23/09	24.1	23.3	22.2	21.8	21.6	21.2	20.9	20.8	21.0	22.1	23.5	24.9	25.9	26.8	27.3	27.8	28.0	28.1	27.6	26.8	26.8	25.8	25.2	25.1	28.1	20.8	24.5
09/24/09	24.4	23.6	23.2	23.0	21.9	22.7	22.1	23.0	23.9	24.2	25.2	26.7	28.1	29.2	29.9	30.3	30.4	30.4	30.1	28.5	27.7	27.7	28.1	28.1	30.4	21.9	26.3
09/25/09	28.2	26.8	26.6	26.3	25.7	24.9	24.5	25.7	27.1	27.9	29.3	30.6	31.4	32.1	32.8	33.1	33.2	32.9	32.0	31.0	29.6	29.2	28.2	28.4	33.2	24.5	29.1
09/26/09	27.8	28.2	27.8	27.6	27.1	27.0	27.2	27.6	29.3	30.8	31.7	32.7	33.5	34.2	34.4	34.7	34.7	34.5	33.3	32.3	31.3	29.5	29.3	29.2	34.7	27.0	30.6
09/27/09	29.1	28.3	28.4	27.9	27.1	26.9	26.7	27.6	29.4	31.5	33.0	34.1	34.5	34.9	35.1	35.1	34.6	33.8	32.7	32.2	31.8	29.8	29.4	29.6	35.1	26.7	31.0
09/28/09	28.6	28.6	28.2	27.9	27.8	28.5	28.5	28.5	29.9	31.8	33.4	34.5	INV	INV	35.5	35.5	35.0	34.5	33.6	32.7	31.8	31.5	30.7	30.0	35.5	27.8	31.2
09/29/09	29.2	28.7	28.9	29.0	27.5	27.3	27.5	27.4	28.7	30.3	31.6	32.5	33.4	33.8	33.8	33.8	33.5	32.9	31.9	31.0	30.2	29.8	29.1	28.8	33.8	27.3	30.4
09/30/09	28.6	27.8	27.0	26.3	26.0	25.6	25.4	25.2	25.2	25.9	26.8	27.3	28.5	29.3	30.1	29.6	29.4	28.5	27.2	25.8	24.7	23.8	23.5	22.4	30.1	22.4	26.7
Hourly Averages	26.9	26.4	26.0	25.7	25.5	25.2	24.9	25.2	26.4	27.6	28.8	29.8	30.6	31.2	31.7	31.9	31.6	31.3	30.5	29.6	28.8	28.1	27.4	27.0			

Maximum Hourly Temperature: 35.5 **Minimum Hourly Temperature:** 20.2 **Average Monthly Temperature:** 28.3

Maximum 24-Hour Mean: 31.2 **Minimum 24-Hour Mean:** 24.5

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	29.2	27.3	26.6	26.4	28.7	28.6	29.1	27.9	28.8	29.3	30.4	31.9	33.1	34.4	35.5	36.0	35.6	34.8	33.7	32.9	32.7	31.2	30.1	29.4	36.0	26.4	31.0
09/02/09	29.5	28.8	27.9	26.8	25.9	25.5	24.9	26.0	27.7	29.2	31.4	33.3	34.3	35.2	35.5	35.1	34.5	34.0	33.4	32.6	32.3	31.4	30.3	29.3	35.5	24.9	30.6
09/03/09	28.8	28.3	27.9	27.8	27.5	27.1	27.4	28.1	29.4	30.6	32.1	33.4	33.8	34.6	35.0	35.7	29.0	27.5	28.3	27.6	26.1	25.0	23.5	24.0	35.7	23.5	29.1
09/04/09	22.8	22.7	23.6	24.1	23.2	22.8	22.1	23.4	25.2	26.9	29.1	30.5	31.7	32.6	32.9	33.0	32.7	31.8	30.3	27.3	28.0	28.5	26.6	26.5	33.0	22.1	27.4
09/05/09	26.8	25.1	25.4	25.2	25.3	25.1	23.8	20.6	20.2	20.7	21.2	22.4	25.5	27.7	26.7	25.3	27.5	27.3	26.3	25.7	24.9	24.3	24.1	23.8	27.7	20.2	24.6
09/06/09	23.7	22.6	22.2	22.8	23.2	23.3	23.0	24.0	26.3	28.5	29.1	27.5	28.8	29.8	30.7	31.0	31.6	31.2	30.6	29.5	29.2	28.4	27.0	26.3	31.6	22.2	27.1
09/07/09	25.1	25.0	24.7	24.0	24.3	23.5	22.9	24.6	26.1	27.6	29.3	30.8	31.7	31.4	30.5	30.8	31.9	31.7	30.6	29.9	29.0	27.8	27.5	26.5	31.9	22.9	27.8
09/08/09	26.2	26.2	25.4	25.2	24.7	24.7	23.9	26.0	27.5	29.1	30.3	31.5	32.1	32.8	33.2	32.7	32.3	31.8	30.8	28.3	26.1	26.3	25.5	25.2	33.2	23.9	28.2
09/09/09	25.1	24.8	24.3	24.1	24.1	23.6	24.1	24.3	27.3	28.6	29.7	30.9	31.6	32.3	32.7	33.0	33.1	32.7	31.2	30.1	29.4	27.9	28.0	27.2	33.1	23.6	28.3
09/10/09	26.9	26.5	25.9	25.5	25.2	25.0	25.0	26.9	29.0	30.5	32.1	33.4	34.7	35.1	35.3	35.3	34.9	34.4	33.3	32.3	31.3	30.3	29.0	29.2	35.3	25.0	30.3
09/11/09	29.2	29.0	28.4	27.5	27.1	26.6	26.6	27.5	28.7	30.2	32.0	33.0	34.1	32.4	33.1	33.9	32.7	32.6	31.6	31.0	30.2	29.9	28.7	28.1	34.1	26.6	30.2
09/12/09	27.5	26.8	26.3	26.1	26.3	26.2	25.7	26.1	27.8	29.4	30.9	32.0	32.8	33.1	33.4	34.3	34.5	33.6	32.2	31.3	29.9	29.0	28.3	27.8	34.5	25.7	29.6
09/13/09	27.3	26.7	26.3	26.1	25.9	25.6	25.6	25.9	27.2	29.0	30.3	31.0	32.2	32.7	32.6	33.6	33.5	32.8	31.7	30.3	29.3	29.0	27.4	26.8	33.6	25.6	29.1
09/14/09	26.7	25.9	25.5	25.4	24.9	25.2	24.6	25.4	27.4	28.8	29.3	31.0	32.3	33.0	33.5	33.6	33.4	32.5	31.5	30.4	29.5	28.2	27.3	26.2	33.6	24.6	28.8
09/15/09	25.7	25.5	25.3	24.8	24.4	23.6	22.8	24.0	26.7	28.2	29.3	30.8	31.7	32.1	32.4	32.2	31.9	31.6	30.6	29.2	28.1	27.5	26.4	25.5	32.4	22.8	27.9
09/16/09	25.4	24.6	24.5	23.4	23.4	22.8	22.9	24.6	26.5	28.2	29.6	30.6	30.8	31.8	31.7	31.9	31.3	30.6	29.3	28.5	27.4	26.9	25.7	24.8	31.9	22.8	27.4
09/17/09	24.9	24.8	24.4	23.8	24.1	23.7	23.6	24.5	26.5	28.3	29.7	30.9	32.0	32.0	32.8	31.5	30.4	30.2	28.7	28.4	27.8	25.5	25.1	25.0	32.8	23.6	27.4
09/18/09	24.0	23.8	23.3	22.6	22.9	22.6	21.8	23.0	24.5	25.9	27.2	28.5	29.5	30.3	31.0	31.3	31.0	31.0	28.9	28.4	28.0	28.2	27.6	27.1	31.3	21.8	26.8
09/19/09	26.7	26.6	26.4	26.0	25.9	25.3	25.2	25.7	27.0	28.6	30.0	31.4	31.9	29.7	30.4	31.0	26.6	27.1	26.8	26.7	24.1	23.4	23.6	24.4	31.9	23.4	27.1
09/20/09	24.5	24.1	23.3	24.1	24.5	24.1	24.0	24.6	26.5	28.0	30.0	31.2	32.6	33.0	33.4	33.4	32.9	32.0	30.7	30.0	29.1	28.7	27.8	27.5	33.4	23.3	28.3
09/21/09	27.1	26.3	26.3	25.7	25.7	24.4	24.5	25.7	27.7	29.3	30.7	31.9	32.8	33.6	34.1	34.4	34.2	33.2	31.8	31.0	29.8	29.1	28.4	28.0	34.4	24.4	29.4
09/22/09	27.7	27.8	27.3	27.4	26.1	25.2	24.5	24.8	25.5	26.0	27.2	28.7	29.6	30.6	31.0	30.7	30.2	29.2	27.5	26.2	25.6	24.9	24.2	24.0	31.0	24.0	27.2
09/23/09	24.0	23.2	22.2	21.8	21.6	21.2	20.8	20.9	21.6	22.9	24.7	26.3	27.2	28.0	28.3	28.7	28.6	28.3	27.5	26.4	26.5	25.5	24.9	24.8	28.7	20.8	24.8
09/24/09	24.0	23.2	22.8	22.6	21.6	22.5	22.0	23.2	24.6	25.2	26.3	28.1	29.2	30.5	31.0	31.2	31.2	30.7	29.7	28.2	27.2	27.3	27.9	27.8	31.2	21.6	26.6
09/25/09	27.9	26.4	26.3	26.1	25.6	24.8	24.3	25.7	27.6	29.0	30.7	31.7	32.6	33.1	34.0	33.8	33.9	33.2	32.0	30.4	28.5	28.4	27.6	27.6	34.0	24.3	29.2
09/26/09	27.3	27.2	26.9	26.7	26.6	26.3	26.5	27.5	29.9	31.5	32.8	33.6	34.2	35.5	35.5	35.7	35.4	34.8	33.1	31.6	30.0	28.6	28.2	28.1	35.7	26.3	30.6
09/27/09	28.1	27.7	27.0	26.6	25.7	26.2	26.3	27.6	30.2	32.5	34.1	35.2	35.7	36.1	36.2	36.1	35.3	34.1	32.5	31.0	30.2	28.9	28.2	27.9	36.2	25.7	30.8
09/28/09	27.4	27.0	26.6	26.2	27.0	27.6	27.8	28.3	30.5	32.6	34.4	35.8	INV	INV	36.6	36.4	35.6	34.6	33.2	31.5	31.0	30.4	29.0	28.1	36.6	26.2	30.8
09/29/09	27.6	27.8	28.4	28.4	27.0	26.7	27.1	27.5	29.3	31.3	32.9	33.8	34.9	35.1	35.1	34.9	34.2	33.2	31.8	30.1	29.0	28.4	27.7	27.0	35.1	26.7	30.4
09/30/09	27.6	27.2	26.7	26.0	25.8	25.4	25.3	25.4	25.5	26.4	27.3	28.1	30.0	30.4	31.2	30.4	29.9	28.8	27.1	25.6	24.4	23.0	22.3	21.6	31.2	21.6	26.7
Hourly Averages	26.5	26.0	25.6	25.3	25.1	24.8	24.6	25.3	27.0	28.4	29.8	31.0	31.8	32.4	32.8	32.9	32.3	31.7	30.6	29.4	28.5	27.7	26.9	26.5			

Maximum Hourly Temperature: 36.6 **Minimum Hourly Temperature:** 20.2 **Average Monthly Temperature:** 28.5

Maximum 24-Hour Mean: 31.0 **Minimum 24-Hour Mean:** 24.6

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	0.148	0.254	0.369	0.369	0.290	0.253	0.113	-0.349	-0.776	-0.732	-0.977	-1.127	-1.050	-1.057	-1.140	-1.181	-0.956	-0.563	-0.169	-0.030	0.063	0.119	0.035	0.122	0.369	-1.181	-0.332
09/02/09	0.108	0.299	0.171	0.432	0.488	0.694	0.256	-0.038	-0.567	-0.729	-1.034	-1.260	-1.216	-1.235	-1.223	-1.090	-0.806	-0.538	-0.257	-0.062	-0.008	-0.078	-0.057	-0.025	0.694	-1.260	-0.324
09/03/09	-0.029	-0.017	-0.059	-0.059	-0.011	-0.032	-0.083	-0.235	-0.690	-0.970	-1.049	-1.406	-1.232	-1.374	-1.214	-1.223	-0.797	0.305	0.496	0.263	0.035	0.178	0.380	0.287	0.496	-1.406	-0.356
09/04/09	0.219	0.101	0.429	0.397	0.485	0.661	0.440	0.174	-0.483	-0.575	-0.909	-1.021	-1.149	-1.240	-1.105	-1.115	-0.823	-0.644	-0.319	-0.290	-0.030	0.053	-0.092	-0.040	0.661	-1.240	-0.287
09/05/09	-0.016	-0.099	0.049	-0.017	-0.055	-0.073	0.021	0.042	-0.017	-0.021	0.034	-0.270	-0.483	-0.515	-0.642	-0.586	-0.485	-0.248	-0.094	0.105	0.202	0.365	0.522	0.599	0.599	-0.642	-0.070
09/06/09	0.447	0.348	0.474	0.603	0.553	0.562	0.515	-0.278	-0.573	-0.640	-1.068	-0.645	-0.959	-0.911	-0.915	-0.891	-0.887	-0.556	-0.343	-0.058	-0.022	0.195	0.229	-0.024	0.603	-1.068	-0.202
09/07/09	0.059	0.164	0.161	0.290	0.181	0.298	0.249	-0.373	-0.611	-0.803	-1.059	-1.277	-1.310	-0.913	-0.707	-0.564	-0.782	-0.536	-0.090	-0.003	0.346	0.606	0.579	0.553	0.606	-1.310	-0.231
09/08/09	0.659	0.845	0.685	0.938	0.606	0.580	0.583	-0.312	-0.601	-0.771	-0.974	-1.149	-1.113	-1.205	-1.142	-0.994	-0.832	-0.502	-0.298	-0.241	-0.139	-0.063	-0.065	-0.084	0.938	-1.205	-0.233
09/09/09	-0.023	0.114	0.227	0.233	0.610	0.930	0.334	-0.286	-0.582	-0.780	-0.879	-1.068	-1.121	-1.199	-1.167	-1.087	-0.933	-0.597	-0.222	-0.057	0.118	0.162	0.194	0.324	0.930	-1.199	-0.281
09/10/09	0.381	0.499	0.401	0.530	0.631	0.553	0.481	-0.353	-0.538	-0.715	-0.921	-1.216	-1.591	-1.316	-1.181	-1.162	-0.828	-0.528	-0.151	0.025	0.148	0.304	0.260	0.408	0.631	-1.591	-0.245
09/11/09	0.142	0.102	0.155	0.065	0.206	0.181	0.095	-0.255	-0.698	-0.812	-1.030	-1.068	-1.081	-0.749	-0.981	-0.770	-0.290	-0.111	-0.114	-0.015	-0.014	0.011	0.027	0.007	0.206	-1.081	-0.292
09/12/09	0.043	-0.013	-0.003	0.008	0.021	0.014	0.001	-0.225	-0.607	-1.074	-1.252	-1.344	-1.512	-1.112	-1.044	-1.148	-1.046	-0.604	-0.222	-0.048	-0.023	-0.017	-0.035	0.012	0.043	-1.512	-0.468
09/13/09	0.053	0.058	0.010	0.080	0.051	0.036	0.006	-0.233	-0.513	-1.068	-1.230	-1.124	-1.387	-1.250	-0.961	-1.186	-0.947	-0.587	-0.196	-0.090	-0.053	-0.050	0.285	0.144	0.285	-1.387	-0.423
09/14/09	0.240	0.267	0.198	0.084	0.101	0.066	0.174	-0.423	-0.771	-1.215	-1.058	-1.383	-1.449	-1.424	-1.481	-1.249	-0.974	-0.486	-0.104	0.111	0.152	0.216	0.363	0.787	0.787	-1.481	-0.386
09/15/09	1.199	0.687	0.369	0.602	0.647	0.790	0.672	-0.182	-0.634	-0.972	-1.063	-1.569	-1.468	-1.414	-1.362	-1.176	-0.921	-0.493	-0.036	0.188	0.492	0.313	0.739	0.716	1.199	-1.569	-0.161
09/16/09	0.830	0.731	0.394	0.638	0.837	0.622	0.349	-0.282	-0.586	-0.948	-1.210	-1.406	-0.948	-1.397	-1.168	-1.252	-0.944	-0.489	-0.124	0.139	0.439	0.364	0.574	0.497	0.837	-1.406	-0.181
09/17/09	0.623	0.403	0.455	0.497	0.408	0.412	0.343	-0.096	-0.334	-0.838	-1.238	-1.344	-1.509	-1.220	-1.338	-0.958	-0.802	-0.568	-0.294	-0.132	-0.094	-0.148	-0.102	-0.034	0.623	-1.509	-0.329
09/18/09	-0.022	-0.005	-0.008	-0.026	-0.015	-0.015	0.030	-0.203	-0.717	-1.313	-1.494	-1.393	-1.239	-1.046	-1.117	-0.989	-0.632	-0.525	0.106	0.332	0.681	0.265	0.185	0.069	0.681	-1.494	-0.379
09/19/09	0.028	0.085	0.082	0.063	0.021	0.081	0.143	-0.146	-0.493	-0.943	-1.025	-1.355	-1.121	-0.866	-0.990	-0.985	-0.535	-0.328	-0.084	0.084	-0.060	0.007	0.138	0.164	0.164	-1.355	-0.335
09/20/09	0.115	0.170	0.182	0.293	0.214	0.184	0.214	-0.318	-1.004	-0.720	-1.170	-1.044	-1.252	-1.247	-1.170	-1.115	-0.888	-0.442	0.008	0.126	0.546	0.458	0.733	0.943	0.943	-1.252	-0.258
09/21/09	0.671	0.938	1.383	1.254	1.093	0.507	1.119	-0.015	-0.567	-0.703	-0.829	-0.892	-1.180	-1.149	-1.154	-1.027	-0.856	-0.330	0.078	0.167	1.270	1.551	1.130	1.239	1.551	-1.180	0.154
09/22/09	1.031	0.496	0.397	0.278	0.094	0.045	0.043	-0.127	-0.467	-0.850	-1.117	-1.401	-1.403	-1.500	-1.189	-0.657	-0.502	-0.231	-0.019	0.049	0.059	0.052	0.065	0.079	1.031	-1.500	-0.282
09/23/09	0.074	0.081	0.037	0.023	0.028	0.045	0.077	-0.150	-0.601	-0.791	-1.168	-1.443	-1.254	-1.234	-1.026	-0.916	-0.548	-0.195	0.103	0.345	0.302	0.263	0.374	0.331	0.374	-1.443	-0.302
09/24/09	0.418	0.442	0.361	0.330	0.262	0.242	0.132	-0.133	-0.704	-0.955	-1.127	-1.385	-1.105	-1.260	-1.071	-0.902	-0.793	-0.253	0.316	0.332	0.503	0.445	0.217	0.284	0.503	-1.385	-0.225
09/25/09	0.324	0.319	0.295	0.208	0.153	0.161	0.206	-0.072	-0.514	-1.110	-1.433	-1.137	-1.197	-0.988	-1.184	-0.686	-0.647	-0.305	-0.004	0.611	1.086	0.823	0.563	0.832	1.086	-1.433	-0.154
09/26/09	0.475	0.976	0.863	0.889	0.552	0.744	0.675	0.099	-0.644	-0.689	-1.104	-0.860	-0.785	-1.371	-1.131	-0.916	-0.659	-0.321	0.138	0.714	1.230	0.854	1.088	1.171	1.230	-1.371	0.083
09/27/09	1.040	0.660	1.369	1.311	1.373	0.674	0.479	0.058	-0.725	-1.030	-1.054	-1.110	-1.133	-1.219	-1.035	-1.047	-0.739	-0.241	0.171	1.138	1.582	0.922	1.119	1.712	1.712	-1.219	0.178
09/28/09	1.267	1.600	1.508	1.744	0.799	0.876	0.711	0.168	-0.614	-0.818	-0.989	-1.274	INV	INV	-1.103	-0.965	-0.603	-0.120	0.421	1.164	0.832	1.067	1.713	1.880	1.880	-1.274	0.421
09/29/09	1.688	0.890	0.507	0.584	0.427	0.646	0.453	-0.076	-0.541	-0.969	-1.271	-1.247	-1.495	-1.247	-1.304	-1.070	-0.707	-0.303	0.097	0.890	1.229	1.448	1.463	1.791	1.791	-1.495	0.078
09/30/09	0.947	0.539	0.325	0.381	0.160	0.160	0.038	-0.118	-0.265	-0.473	-0.546	-0.836	-1.590	-1.150	-1.105	-0.751	-0.585	-0.249	0.090	0.235	0.371	0.775	1.244	0.724	1.244	-1.590	-0.070
Hourly Averages	0.438	0.398	0.393	0.434	0.374	0.363	0.296	-0.158	-0.581	-0.834	-1.041	-1.168	-1.218	-1.166	-1.112	-0.989	-0.758	-0.386	-0.037	0.200	0.375	0.382	0.462	0.516			

Maximum Hourly Differential Temperature: 1.880 **Minimum Hourly Differential Temperature:** -1.591

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	28.4	27.9	27.1	27.4	23.7	22.6	24.4	25.1	26.6	28.4	29.9	31.6	30.8	32.8	33.3	33.5	34.6	34.9	33.7	33.0	30.6	25.9	24.9	24.7	34.9	22.6	29.0
07/02/09	23.8	24.2	23.8	23.3	23.3	24.2	24.3	25.0	25.3	26.7	29.2	30.1	31.7	33.0	34.2	34.7	34.9	34.4	32.8	31.8	30.4	29.5	29.0	28.2	34.9	23.3	28.7
07/03/09	27.3	27.4	27.3	26.9	26.5	26.0	26.2	27.5	29.3	30.8	32.4	33.0	33.5	34.3	35.3	35.1	35.5	34.9	28.7	28.5	27.9	24.9	25.4	24.4	35.5	24.4	29.5
07/04/09	24.3	24.1	24.4	23.8	24.2	23.3	24.6	26.7	28.5	29.5	29.9	30.6	31.4	32.4	33.3	33.7	33.8	33.8	33.4	32.4	31.7	31.3	30.7	29.7	33.8	23.3	29.2
07/05/09	28.8	28.8	28.2	27.9	27.3	26.8	27.9	30.0	31.2	32.5	33.7	34.8	35.7	36.5	36.9	37.1	37.2	36.8	35.9	34.6	33.2	32.0	31.3	30.9	37.2	26.8	32.3
07/06/09	31.0	29.7	29.1	28.5	28.1	28.1	28.5	30.2	31.2	31.9	33.3	34.6	35.1	35.9	36.3	36.5	36.6	36.1	35.4	34.3	33.3	32.3	31.3	30.8	36.6	28.1	32.4
07/07/09	30.3	29.4	28.5	27.3	26.6	26.0	26.4	27.9	28.5	29.8	31.0	32.4	33.4	34.5	35.2	35.6	35.9	35.3	34.8	33.8	32.9	32.1	30.3	30.1	35.9	26.0	31.2
07/08/09	29.5	28.8	28.2	27.9	27.1	26.8	27.7	29.3	30.9	31.5	32.4	33.4	33.9	34.7	35.2	35.5	35.6	35.6	35.1	34.1	32.6	28.6	27.7	28.6	35.6	26.8	31.3
07/09/09	28.8	27.9	27.2	27.2	26.1	25.6	25.8	28.6	30.3	31.9	33.5	34.6	35.8	36.0	36.8	36.5	36.6	36.3	36.0	34.5	33.5	33.1	32.4	31.6	36.8	25.6	31.9
07/10/09	31.6	31.1	30.0	29.7	30.1	30.4	29.8	32.0	33.1	34.8	36.2	36.0	37.0	38.3	38.7	38.9	38.5	38.2	37.6	36.5	36.0	35.0	33.6	33.1	38.9	29.7	34.4
07/11/09	33.4	32.3	31.0	30.3	29.5	29.2	29.6	31.4	32.5	34.0	35.2	36.5	38.5	39.8	39.6	39.5	39.1	38.2	37.8	36.9	35.5	34.9	34.8	33.1	39.8	29.2	34.7
07/12/09	32.5	32.0	31.5	30.5	30.0	29.8	30.6	32.5	33.7	35.8	37.2	37.3	37.6	38.1	38.8	39.1	39.2	38.9	38.1	36.8	35.2	34.1	33.1	32.2	39.2	29.8	34.8
07/13/09	31.4	30.9	30.6	29.7	29.2	28.4	29.4	31.2	32.9	34.5	36.1	37.3	37.9	38.6	39.5	39.3	39.1	38.7	38.0	36.5	35.3	34.3	32.6	32.0	39.5	28.4	34.3
07/14/09	31.8	30.4	30.3	29.7	29.6	28.9	29.7	32.3	33.1	34.3	35.9	37.2	37.9	38.7	38.8	39.2	38.9	38.4	37.9	36.6	35.7	34.3	33.4	32.6	39.2	28.9	34.4
07/15/09	31.8	31.5	30.6	29.3	29.0	29.4	29.1	29.5	30.5	31.9	33.1	33.9	34.6	35.7	36.2	36.0	35.2	34.7	33.8	32.4	32.1	30.7	30.9	31.3	36.2	29.0	32.2
07/16/09	30.3	30.1	29.3	29.1	28.7	28.0	28.1	29.8	32.2	33.2	34.1	34.9	36.2	37.0	37.5	38.2	37.9	37.5	36.9	34.7	34.2	33.3	33.5	32.8	38.2	28.0	33.2
07/17/09	32.3	31.6	30.3	30.4	29.8	29.8	30.2	31.2	32.7	33.5	35.1	36.1	37.7	38.8	39.2	39.5	34.8	33.0	31.8	29.7	31.3	31.8	31.6	32.3	39.5	29.7	33.1
07/18/09	32.2	31.3	30.8	29.3	28.5	29.2	29.7	31.4	33.0	35.1	37.1	38.4	38.6	39.0	39.8	40.3	40.4	40.0	32.5	30.2	29.5	30.2	30.8	29.6	40.4	28.5	33.6
07/19/09	29.3	29.9	30.0	28.4	28.4	28.8	29.9	31.5	34.0	35.3	36.4	37.5	38.2	39.1	39.7	39.8	39.4	39.0	38.4	35.8	32.8	31.6	31.5	31.5	39.8	28.4	34.0
07/20/09	30.5	30.1	29.9	30.8	29.6	29.2	29.0	29.8	31.6	33.2	34.5	35.1	36.4	36.8	37.5	37.6	37.8	36.6	33.0	31.7	29.0	28.5	26.8	27.4	37.8	26.8	32.2
07/21/09	28.0	28.4	27.1	26.7	25.5	25.4	25.1	24.1	24.2	24.0	24.6	27.0	29.8	31.6	32.7	33.2	33.4	33.3	32.9	31.7	30.9	30.8	30.5	28.9	33.4	24.0	28.7
07/22/09	27.8	25.9	26.7	26.5	26.5	26.5	26.7	29.1	29.7	31.1	32.6	34.2	35.0	35.7	36.4	34.9	33.6	30.6	30.5	27.5	27.4	28.3	29.0	28.1	36.4	25.9	30.0
07/23/09	27.8	27.1	27.0	27.2	26.8	26.7	26.5	27.1	28.2	30.7	32.6	33.6	33.9	34.3	33.3	33.1	33.6	33.7	33.4	32.5	31.7	30.9	24.5	24.4	34.3	24.4	30.0
07/24/09	24.0	24.4	24.7	24.5	23.9	24.8	24.5	25.5	28.2	29.4	29.7	30.1	30.9	31.3	31.4	32.1	32.3	33.0	32.1	31.5	31.1	29.9	29.9	29.3	33.0	23.9	28.7
07/25/09	29.2	29.1	29.3	28.5	28.0	27.8	27.7	28.4	30.1	31.6	33.0	33.5	29.1	28.7	33.1	34.9	33.3	29.3	26.3	26.7	28.4	28.0	27.8	27.7	34.9	26.3	29.6
07/26/09	26.7	27.0	26.5	25.8	25.7	25.5	25.5	27.7	29.9	31.3	32.2	33.4	34.6	35.5	36.4	36.7	37.0	36.7	36.1	34.9	33.9	32.9	32.4	31.7	37.0	25.5	31.5
07/27/09	31.2	31.1	30.1	29.5	28.8	28.6	29.4	32.0	33.1	34.5	35.5	36.3	37.3	38.2	38.6	39.2	39.2	38.9	38.1	36.7	35.7	34.7	33.9	33.1	39.2	28.6	34.3
07/28/09	32.9	32.5	31.3	30.9	30.6	30.0	29.7	32.1	33.8	34.8	36.2	36.8	37.6	38.3	39.1	39.6	39.3	38.9	38.1	36.6	35.6	34.9	32.8	32.9	39.6	29.7	34.8
07/29/09	31.9	30.5	30.4	29.0	29.0	28.4	28.8	29.4	31.0	31.9	33.3	34.1	34.9	35.5	36.3	36.3	36.8	36.5	35.9	34.7	33.8	32.7	31.6	30.8	36.8	28.4	32.6
07/30/09	30.0	29.3	28.5	27.6	27.3	27.4	26.7	28.7	30.1	30.7	32.0	33.4	34.0	35.0	35.7	35.5	35.5	35.5	35.1	33.7	32.9	31.5	30.5	30.1	35.7	26.7	31.5
07/31/09	29.0	28.5	28.5	27.4	27.3	27.0	27.0	29.7	31.1	32.3	33.7	34.7	35.8	36.5	36.7	37.0	37.0	36.8	36.0	34.5	33.5	32.3	31.1	30.4	37.0	27.0	32.2
Hourly Averages	29.6	29.1	28.6	28.1	27.6	27.4	27.7	29.2	30.7	32.0	33.3	34.3	35.0	35.8	36.5	36.7	36.5	35.9	34.7	33.4	32.5	31.5	30.6	30.1			

Maximum Hourly Temperature: 40.4 **Minimum Hourly Temperature:** 22.6 **Average Monthly Temperature:** 31.9

Maximum 24-Hour Mean: 34.8 **Minimum 24-Hour Mean:** 28.7

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	29.8	29.3	28.2	28.2	27.1	27.5	27.2	30.3	31.2	32.2	33.7	35.2	36.4	37.6	37.9	38.1	38.0	37.4	36.5	34.7	33.8	33.4	33.6	33.1	38.1	27.1	32.9
08/02/09	30.6	30.5	30.2	29.4	29.2	28.9	28.7	30.8	32.4	33.7	35.2	36.7	37.6	38.3	38.9	39.0	38.7	38.4	37.3	35.6	34.4	33.6	32.5	32.2	39.0	28.7	33.9
08/03/09	31.8	31.3	29.7	29.8	30.3	29.6	30.3	31.5	32.4	33.4	35.0	36.4	37.3	38.5	38.9	39.2	39.3	38.8	37.8	36.2	34.9	34.1	33.0	32.9	39.3	29.6	34.3
08/04/09	32.3	30.3	29.4	28.8	28.2	27.8	27.9	28.8	30.2	31.6	33.3	34.5	35.5	36.9	37.6	38.0	38.0	37.7	37.0	35.6	35.0	34.1	33.7	33.5	38.0	27.8	33.1
08/05/09	33.1	31.5	31.5	30.5	30.2	30.3	29.8	31.9	33.5	34.9	35.9	37.7	38.3	38.5	38.9	39.2	39.0	38.2	37.6	36.2	34.9	33.5	31.6	31.4	39.2	29.8	34.5
08/06/09	31.5	30.9	29.6	29.2	29.2	28.9	28.8	29.2	31.4	33.0	32.4	34.3	35.5	36.2	36.4	36.7	36.4	36.1	34.8	33.2	31.7	30.5	30.4	29.6	36.7	28.8	32.3
08/07/09	29.1	28.1	28.1	27.0	26.2	25.5	25.6	27.9	29.0	30.5	31.6	32.4	32.8	33.1	33.5	34.1	33.9	33.0	31.7	30.0	28.2	27.1	26.4	25.7	34.1	25.5	29.6
08/08/09	25.2	24.7	24.4	24.4	23.2	23.3	24.4	27.0	29.2	30.2	31.1	32.0	32.6	33.0	33.4	33.9	34.0	33.3	32.6	31.3	30.2	29.0	27.7	27.8	34.0	23.2	29.1
08/09/09	27.9	26.8	26.1	25.1	25.0	24.4	24.5	27.5	29.2	30.7	31.7	32.9	33.6	34.6	34.5	34.4	34.4	34.2	33.3	32.3	31.7	30.1	29.3	28.2	34.6	24.4	30.1
08/10/09	27.8	27.2	26.8	25.3	25.5	25.3	25.6	28.7	30.6	31.4	31.7	32.6	33.8	34.6	35.2	35.8	35.8	35.4	34.5	33.0	31.9	31.1	30.9	30.0	35.8	25.3	30.9
08/11/09	28.8	27.3	26.4	25.9	26.2	25.9	25.4	26.5	28.0	29.9	31.3	33.3	34.1	34.2	33.7	34.2	34.1	33.0	32.2	31.8	31.0	30.1	30.1	29.5	34.2	25.4	30.1
08/12/09	29.3	28.7	28.5	27.9	27.6	27.8	29.0	29.8	31.9	33.6	34.7	35.2	36.0	36.6	36.9	36.7	36.3	32.4	32.4	32.0	30.7	30.7	28.9	28.1	36.9	27.6	31.7
08/13/09	27.7	26.1	26.0	25.1	23.5	23.2	22.9	23.6	24.7	25.6	26.2	26.5	27.1	27.3	27.4	26.6	25.6	26.0	25.3	24.9	25.0	25.1	24.9	24.7	27.7	22.9	25.5
08/14/09	24.3	23.8	24.0	24.1	23.8	23.2	23.5	25.2	27.2	29.1	30.7	31.7	32.6	33.3	33.8	34.0	34.4	33.4	32.9	32.1	31.3	30.1	29.3	28.2	34.4	23.2	29.0
08/15/09	28.4	28.1	26.5	26.3	25.4	25.1	25.9	28.8	30.2	31.2	32.1	33.6	34.0	34.2	34.9	35.4	35.2	35.0	34.4	32.8	31.3	30.2	29.5	28.8	35.4	25.1	30.7
08/16/09	28.3	27.6	27.1	26.2	26.0	25.3	25.7	28.9	30.9	31.7	32.8	34.1	34.8	35.4	35.6	35.6	35.6	35.3	34.2	32.8	32.2	30.4	29.1	29.0	35.6	25.3	31.0
08/17/09	27.9	27.8	27.5	26.5	26.0	25.9	26.4	29.7	31.7	33.8	35.1	35.3	36.5	37.0	36.9	37.1	36.8	36.6	35.7	34.1	33.5	31.8	30.1	29.5	37.1	25.9	32.1
08/18/09	28.6	28.6	28.0	27.9	26.6	26.7	26.7	29.0	32.1	33.3	35.0	35.9	36.6	36.7	37.1	37.1	37.0	36.5	35.5	34.1	33.6	32.8	31.4	30.0	37.1	26.6	32.4
08/19/09	29.7	29.5	29.2	28.5	26.7	26.3	26.1	27.4	28.2	29.7	30.8	32.1	33.3	34.1	34.4	34.9	35.1	34.8	33.8	32.4	31.7	31.2	31.4	30.6	35.1	26.1	30.9
08/20/09	29.4	29.3	28.1	28.5	27.6	26.8	26.7	28.8	29.5	31.1	32.4	33.8	34.9	35.5	36.3	37.0	36.9	36.6	35.6	34.0	33.2	33.2	32.4	31.5	37.0	26.7	32.0
08/21/09	29.9	28.4	28.2	27.7	27.8	27.5	27.7	29.3	30.7	31.8	32.9	34.1	34.9	36.1	36.8	36.1	31.8	32.9	30.1	28.6	27.7	23.9	23.4	22.9	36.8	22.9	30.0
08/22/09	23.2	23.0	23.7	22.5	23.2	22.9	22.3	21.7	22.2	23.9	27.3	28.8	28.9	29.8	28.9	29.1	28.4	29.5	28.3	27.4	26.3	25.9	25.8	25.7	29.8	21.7	25.8
08/23/09	25.5	24.7	24.9	24.2	24.0	23.6	23.1	25.4	27.3	29.3	30.5	31.5	33.0	33.2	33.6	33.9	33.9	33.3	32.1	30.9	30.2	29.5	28.9	28.2	33.9	23.1	28.9
08/24/09	27.8	27.0	26.3	25.8	25.6	25.2	24.9	26.0	27.4	28.9	30.3	31.2	32.2	32.9	33.7	33.8	33.6	33.4	32.5	31.3	30.6	29.2	28.0	27.5	33.8	24.9	29.4
08/25/09	27.1	26.6	25.4	25.9	25.6	25.5	25.3	26.2	27.8	29.8	31.2	32.3	33.4	34.5	33.5	32.0	32.2	32.0	31.9	30.8	30.3	28.3	28.6	28.0	34.5	25.3	29.3
08/26/09	27.1	27.3	26.3	26.4	26.2	25.7	25.6	27.3	30.1	31.4	33.1	34.3	34.8	35.9	36.5	36.7	36.4	35.7	34.4	33.0	32.0	31.1	30.6	30.3	36.7	25.6	31.2
08/27/09	29.2	29.2	28.4	28.2	27.9	26.9	28.3	30.5	32.2	34.4	35.9	37.0	37.1	38.2	38.3	38.6	38.2	37.7	36.4	35.1	34.7	34.5	32.9	32.1	38.6	26.9	33.4
08/28/09	32.3	32.9	31.5	30.8	30.8	30.6	30.4	31.2	32.4	34.1	35.7	36.2	37.3	37.9	38.0	38.6	39.0	37.6	36.4	35.3	34.3	34.1	33.6	33.3	39.0	30.4	34.3
08/29/09	33.2	32.0	30.9	30.9	30.3	30.5	30.2	31.7	33.4	34.8	36.0	37.2	37.7	38.0	38.4	39.0	38.8	37.8	36.9	35.5	34.6	33.6	33.1	33.0	39.0	30.2	34.5
08/30/09	32.5	30.9	31.1	30.6	30.4	29.8	29.1	30.9	31.7	33.9	34.3	35.6	36.2	36.8	37.3	37.6	37.1	36.5	34.6	32.7	32.0	32.1	31.9	31.2	37.6	29.1	33.2
08/31/09	30.9	30.4	30.0	29.1	29.4	29.2	30.0	30.8	31.9	33.7	34.5	35.5	36.5	36.8	37.6	36.4	36.4	36.0	34.0	32.7	30.3	29.1	29.5	28.6	37.6	28.6	32.5
Hourly Averages	29.0	28.4	27.8	27.3	26.9	26.6	26.7	28.5	30.0	31.5	32.7	33.9	34.7	35.3	35.6	35.7	35.5	35.0	33.9	32.6	31.7	30.8	30.1	29.5			

Maximum Hourly Temperature: 39.3 **Minimum Hourly Temperature:** 21.7 **Average Monthly Temperature:** 31.2

Maximum 24-Hour Mean: 34.5 **Minimum 24-Hour Mean:** 25.5

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	28.8	26.9	26.2	26.0	28.3	28.3	28.7	27.6	28.6	29.3	30.1	31.8	33.0	34.2	35.1	35.6	35.3	34.5	33.3	32.5	32.2	30.8	29.7	29.0	35.6	26.0	30.7
09/02/09	29.1	28.5	27.5	26.4	25.6	25.2	24.6	26.0	28.3	29.4	31.5	33.1	34.1	34.8	35.0	34.6	34.1	33.6	33.0	32.2	31.8	31.1	29.9	28.9	35.0	24.6	30.3
09/03/09	28.4	28.0	27.5	27.4	27.1	26.6	27.0	27.7	29.0	30.4	31.7	33.0	33.4	34.1	34.5	35.2	28.5	27.2	27.9	27.3	25.7	24.6	23.1	23.7	35.2	23.1	28.7
09/04/09	22.6	22.4	23.3	23.8	23.0	22.5	21.8	23.3	25.4	27.5	29.3	30.3	31.5	32.1	32.6	32.6	32.5	31.7	29.9	26.9	27.5	28.1	26.1	26.1	32.6	21.8	27.2
09/05/09	26.4	24.7	25.0	24.8	24.9	24.7	23.4	20.4	19.8	20.4	20.8	22.4	25.5	27.7	26.3	25.4	27.3	27.0	26.0	25.3	24.7	24.0	23.7	23.4	27.7	19.8	24.3
09/06/09	23.5	22.2	22.0	22.5	22.8	23.0	22.8	24.3	26.6	28.8	28.7	27.2	28.5	29.7	30.5	30.9	31.5	31.1	30.2	29.2	28.8	28.1	26.6	25.9	31.5	22.0	26.9
09/07/09	24.7	24.6	24.3	23.7	23.9	23.3	22.5	25.0	26.6	28.0	29.4	30.7	31.3	31.1	30.1	30.7	31.9	31.5	30.3	29.4	28.6	27.4	27.0	26.2	31.9	22.5	27.6
09/08/09	25.9	25.9	25.0	24.9	24.3	24.4	23.6	26.1	28.0	29.4	30.2	31.1	31.8	32.4	32.7	32.2	32.0	31.5	30.3	27.5	25.6	25.9	25.1	24.8	32.7	23.6	27.9
09/09/09	24.6	24.5	23.9	23.7	23.7	23.2	23.8	24.6	27.7	28.5	29.6	30.7	31.3	32.0	32.3	32.6	32.7	32.4	30.8	29.6	29.0	27.4	27.6	26.8	32.7	23.2	28.0
09/10/09	26.4	26.1	25.5	25.1	24.8	24.6	24.6	26.7	28.9	30.6	32.1	33.4	34.4	34.6	34.9	34.9	34.8	34.2	32.9	31.8	31.0	29.9	28.5	28.7	34.9	24.6	30.0
09/11/09	28.9	28.6	28.0	27.1	26.7	26.2	26.2	27.1	28.4	29.9	31.8	33.0	34.1	31.9	32.9	33.8	32.2	32.2	31.2	30.5	29.8	29.5	28.3	27.7	34.1	26.2	29.8
09/12/09	27.1	26.3	25.8	25.6	25.9	25.8	25.3	25.7	27.6	28.9	30.7	31.7	32.4	33.1	33.2	33.8	34.2	33.5	31.7	30.8	29.4	28.5	27.9	27.4	34.2	25.3	29.3
09/13/09	26.9	26.2	25.9	25.7	25.5	25.2	25.2	25.7	27.2	28.8	30.1	31.0	32.0	32.6	32.4	33.3	33.3	32.6	31.2	29.8	28.9	28.6	27.1	26.5	33.3	25.2	28.8
09/14/09	26.4	25.5	25.2	25.0	24.5	24.7	24.3	25.6	27.7	28.5	29.1	30.4	31.7	32.4	33.0	33.3	33.1	32.2	31.1	30.0	29.1	27.9	26.9	25.8	33.3	24.3	28.5
09/15/09	25.3	25.0	24.9	24.3	24.0	23.2	22.4	24.3	27.4	28.1	29.2	30.3	31.2	31.5	31.9	31.9	31.6	31.3	30.3	28.8	27.6	27.0	26.0	25.1	31.9	22.4	27.6
09/16/09	25.0	24.2	24.1	23.0	23.0	22.4	22.6	24.8	27.0	28.3	29.3	30.3	30.6	31.3	31.3	31.4	31.1	30.4	28.9	28.0	27.0	26.4	25.4	24.5	31.4	22.4	27.1
09/17/09	24.4	24.5	23.9	23.4	23.8	23.3	23.3	24.2	26.3	28.3	29.5	30.6	31.6	31.7	32.6	31.3	29.9	29.9	28.3	27.9	27.3	25.0	24.6	24.5	32.6	23.3	27.1
09/18/09	23.6	23.4	22.9	22.2	22.5	22.2	21.4	22.6	24.1	25.5	26.8	28.2	29.4	30.2	30.8	31.0	31.2	31.0	28.5	28.0	27.6	27.8	27.2	26.6	31.2	21.4	26.4
09/19/09	26.2	26.2	26.0	25.5	25.3	24.6	24.5	25.4	26.5	28.3	30.2	31.1	31.6	29.2	30.0	30.7	26.0	26.6	26.3	26.3	23.6	22.9	23.2	23.9	31.6	22.9	26.7
09/20/09	24.1	23.7	22.8	23.6	24.1	23.7	23.6	24.2	26.2	28.6	30.3	31.2	32.3	32.6	32.8	32.9	32.5	31.7	30.4	29.5	28.6	28.3	27.4	27.1	32.9	22.8	28.0
09/21/09	26.6	25.7	25.9	25.3	25.4	24.0	24.2	26.0	28.5	29.6	30.8	31.6	32.4	33.1	33.6	33.9	33.8	32.9	31.4	30.5	29.4	28.8	28.1	27.6	33.9	24.0	29.1
09/22/09	27.3	27.4	26.9	27.0	25.7	24.7	24.1	24.3	25.0	25.4	26.6	28.1	29.0	30.0	30.8	30.3	29.9	28.9	27.1	25.8	25.1	24.5	23.8	23.6	30.8	23.6	26.7
09/23/09	23.6	22.8	21.7	21.4	21.2	20.8	20.4	20.5	21.1	22.4	24.1	25.7	26.7	27.5	28.0	28.5	28.5	28.2	27.2	26.1	26.1	25.2	24.5	24.4	28.5	20.4	24.4
09/24/09	23.7	22.9	22.4	22.3	21.2	22.1	21.6	22.8	24.2	24.7	25.8	27.5	28.9	30.3	30.6	31.0	31.4	30.8	29.5	27.8	26.7	26.9	27.5	27.5	31.4	21.2	26.2
09/25/09	27.5	26.1	25.9	25.7	25.2	24.3	23.9	25.3	27.2	28.6	30.4	31.7	32.4	33.0	33.8	33.8	33.9	33.1	31.6	30.0	28.2	28.0	27.3	27.2	33.9	23.9	28.9
09/26/09	26.8	26.8	26.5	26.3	26.2	25.8	26.1	27.3	29.9	31.3	32.5	33.7	34.1	35.0	35.5	35.7	35.5	35.1	32.8	31.1	29.7	28.3	27.8	27.7	35.7	25.8	30.3
09/27/09	27.7	27.3	26.7	26.3	25.5	25.8	25.9	27.4	30.0	32.2	34.0	35.0	35.4	35.7	35.9	35.8	35.1	33.9	32.1	30.7	29.8	28.5	27.9	27.6	35.9	25.5	30.5
09/28/09	27.0	26.7	26.3	26.0	26.7	27.2	27.4	28.1	30.4	32.7	34.6	36.4	INV	INV	36.1	36.0	35.2	34.4	32.8	31.1	30.6	30.0	28.6	27.7	36.4	26.0	30.6
09/29/09	27.2	27.4	28.0	28.0	26.7	26.3	26.7	27.2	29.2	31.2	32.6	33.5	34.4	34.5	34.6	34.4	33.9	32.9	31.3	29.7	28.5	27.8	27.1	26.4	34.6	26.3	30.0
09/30/09	27.1	26.7	26.3	25.6	25.4	25.0	25.0	25.0	25.0	26.0	26.8	27.5	29.5	29.8	30.5	29.8	29.5	28.4	26.7	25.3	23.8	22.6	21.9	21.3	30.5	21.3	26.3
Hourly Averages	26.1	25.6	25.2	24.9	24.7	24.4	24.2	25.2	26.9	28.3	29.6	30.7	31.5	32.0	32.5	32.6	32.1	31.5	30.2	29.0	28.1	27.3	26.5	26.1			

Maximum Hourly Temperature: 36.4 **Minimum Hourly Temperature:** 19.8 **Average Monthly Temperature:** 28.1

Maximum 24-Hour Mean: 30.7 **Minimum 24-Hour Mean:** 24.3

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	45.3	48.0	49.5	50.0	71.5	67.0	48.0	54.2	40.7	37.7	36.5	44.5	39.4	31.6	32.1	30.0	25.4	26.2	28.2	27.9	45.6	58.1	54.2	72.4	72.4	25.4	44.3
07/02/09	69.7	71.2	66.0	79.9	67.2	66.4	68.6	63.4	60.5	46.5	38.2	34.1	31.5	26.3	26.1	25.0	23.4	26.6	29.2	32.5	34.9	37.4	37.7	43.0	79.9	23.4	46.1
07/03/09	46.1	45.6	47.1	49.6	50.4	51.2	49.1	43.6	34.9	32.6	31.0	31.0	28.9	27.0	25.9	26.0	25.4	33.2	34.8	31.7	59.8	50.2	54.2	63.3	63.3	25.4	40.5
07/04/09	61.7	62.7	64.5	64.8	61.5	62.4	51.3	44.4	40.5	44.2	44.3	42.5	39.0	35.3	31.5	28.9	29.2	29.7	30.3	32.9	34.3	35.0	39.9	39.4	64.8	28.9	43.8
07/05/09	42.2	43.9	43.6	45.1	46.3	46.3	40.0	35.9	34.0	32.0	27.6	23.6	22.3	20.5	17.0	14.6	14.4	15.1	16.7	17.0	17.4	17.6	19.3	19.2	46.3	14.4	28.0
07/06/09	16.7	17.8	20.1	19.1	20.3	21.7	22.2	22.4	24.0	23.0	17.3	16.9	15.2	13.9	13.4	13.4	14.1	16.5	16.8	19.1	19.6	21.6	23.1	26.5	26.5	13.4	18.9
07/07/09	30.3	38.4	43.1	50.6	54.3	62.2	60.3	56.1	53.0	45.8	37.4	32.2	31.2	25.7	25.6	20.7	23.1	24.5	25.8	27.5	28.4	37.9	40.4	39.7	62.2	20.7	38.1
07/08/09	40.4	39.4	40.7	40.5	40.8	38.3	28.2	22.6	20.6	22.6	24.3	25.2	25.8	24.5	23.8	23.9	22.6	22.1	23.4	23.7	40.1	37.6	34.5	31.4	40.8	20.6	29.9
07/09/09	31.2	32.6	34.6	36.3	42.7	39.4	34.3	29.4	23.3	20.8	17.8	18.9	16.8	15.7	15.6	16.2	15.4	14.6	13.7	14.0	14.4	15.0	14.4	17.3	42.7	13.7	22.7
07/10/09	16.7	19.7	21.4	20.9	20.8	22.7	24.4	22.9	23.0	19.6	17.8	17.9	16.7	15.4	14.0	13.5	14.1	13.2	13.3	14.4	15.2	15.9	16.6	15.4	24.4	13.2	17.7
07/11/09	15.4	20.0	23.7	23.6	25.1	24.7	24.2	22.6	20.0	19.1	17.7	15.2	13.5	11.8	11.7	11.8	11.8	13.1	12.5	13.2	13.6	13.1	16.7	15.6	25.1	11.7	17.1
07/12/09	14.5	16.7	17.1	18.5	19.6	20.5	17.5	18.6	15.0	13.7	13.0	14.6	14.0	13.4	12.8	12.6	12.0	12.3	12.7	15.9	16.9	18.2	22.3	23.8	23.8	12.0	16.1
07/13/09	25.0	26.1	26.4	29.4	29.5	30.0	28.0	25.2	22.4	19.9	17.9	16.8	17.0	15.8	13.3	13.8	13.5	13.5	15.8	17.6	18.0	24.2	25.2	25.4	30.0	13.3	21.2
07/14/09	25.1	27.8	28.2	26.9	28.7	29.3	27.0	23.3	22.9	19.4	18.0	15.7	13.8	13.6	13.4	13.3	13.7	14.1	14.5	15.9	15.1	16.5	17.2	21.4	29.3	13.3	19.8
07/15/09	24.6	24.9	28.2	27.9	28.7	32.0	37.5	37.0	32.6	30.5	25.7	26.3	24.3	22.2	20.3	22.1	22.2	22.5	24.3	23.9	27.4	28.4	24.6	27.3	37.5	20.3	26.9
07/16/09	27.3	28.8	30.0	30.1	30.3	31.6	32.0	27.9	24.3	26.8	25.3	20.1	21.1	20.7	18.9	18.5	18.4	18.7	18.4	16.5	18.5	19.6	17.0	19.9	32.0	16.5	23.4
07/17/09	20.9	22.6	25.6	28.0	30.0	31.0	30.1	28.5	27.9	25.4	24.5	20.1	17.9	17.4	16.0	10.7	24.1	18.7	34.6	24.1	19.5	20.3	20.7	17.3	34.6	10.7	23.2
07/18/09	19.2	20.9	21.8	25.1	27.3	24.0	23.7	20.5	18.6	15.7	15.2	14.1	14.3	13.2	12.5	10.9	11.3	11.8	39.4	41.6	29.7	34.8	22.9	26.8	41.6	10.9	21.5
07/19/09	28.4	26.1	28.9	33.3	28.9	27.1	26.0	22.5	19.1	18.9	17.5	17.1	14.0	13.4	12.9	13.4	13.8	13.0	14.0	25.5	25.4	27.7	25.8	28.0	33.3	12.9	21.7
07/20/09	29.2	28.3	28.4	25.3	28.5	31.1	31.6	28.3	24.9	22.9	21.5	19.8	19.9	19.1	18.0	16.2	17.0	30.6	25.8	37.2	40.9	53.6	53.6	36.3	53.6	16.2	28.7
07/21/09	37.6	35.8	44.4	51.1	53.6	55.0	80.4	70.7	70.0	72.2	57.8	51.3	35.2	28.6	27.0	25.6	26.8	27.2	28.8	32.3	36.2	31.3	35.0	37.4	80.4	25.6	43.8
07/22/09	49.6	50.5	46.0	45.0	44.8	42.5	39.0	33.9	32.4	30.4	27.6	25.7	23.6	20.6	22.4	23.2	35.8	25.8	47.3	50.0	42.1	37.6	38.3	38.1	50.5	20.6	36.3
07/23/09	40.8	44.4	41.9	42.8	42.4	44.9	44.6	42.1	38.6	29.6	27.4	27.1	25.9	24.6	31.1	31.0	29.0	29.2	29.3	30.1	32.5	49.2	63.6	78.2	78.2	24.6	38.3
07/24/09	56.6	50.0	51.4	63.5	62.5	63.1	58.7	51.7	40.4	43.3	44.6	40.2	40.6	38.8	36.6	34.4	33.4	33.4	36.1	36.6	38.2	41.4	43.2	50.1	63.5	33.4	45.4
07/25/09	44.5	44.9	47.2	47.9	52.4	51.0	53.2	49.4	44.3	40.5	34.9	34.9	68.0	45.4	31.2	25.8	35.6	53.0	62.0	44.4	45.1	52.2	51.2	56.8	68.0	25.8	46.5
07/26/09	55.3	55.2	61.9	65.2	60.3	65.1	58.6	50.8	40.9	41.3	37.4	32.2	30.8	25.2	24.3	23.6	23.3	23.2	23.6	26.4	28.8	28.6	31.0	31.3	65.2	23.2	39.3
07/27/09	32.5	33.8	32.6	35.2	34.7	35.4	30.2	29.6	22.5	21.5	20.4	19.1	18.3	17.6	16.7	17.1	16.7	17.0	18.3	20.4	22.5	24.4	26.7	25.6	35.4	16.7	24.5
07/28/09	27.5	25.6	28.8	27.9	29.6	32.0	29.5	24.1	24.7	20.8	17.3	16.6	15.8	13.7	13.1	12.0	11.8	12.3	12.9	13.5	14.4	17.9	19.0	19.0	32.0	11.8	20.0
07/29/09	18.3	19.7	22.3	23.2	25.7	27.6	30.8	28.4	29.4	29.9	25.3	20.6	19.1	17.3	20.1	19.5	18.6	18.7	17.0	19.5	21.6	28.8	28.4	26.2	30.8	17.0	23.2
07/30/09	26.4	26.9	27.6	23.8	24.0	27.9	26.7	24.0	33.9	25.7	25.3	17.7	18.6	17.3	15.6	15.6	17.5	16.4	16.8	17.3	18.9	20.0	20.3	23.3	33.9	15.6	22.0
07/31/09	22.2	23.3	27.1	26.8	25.1	24.9	23.8	16.2	15.4	15.1	15.0	14.0	13.9	12.8	12.0	12.1	11.6	12.4	12.7	13.0	14.3	14.5	17.1	17.5	27.1	11.6	17.2
Hourly Averages	33.6	34.6	36.1	38.0	38.9	39.6	38.0	34.5	31.4	29.3	26.5	24.7	24.1	21.2	20.2	19.2	20.1	21.2	24.2	25.0	27.4	30.0	30.8	32.7			

Maximum Hourly Humidity: 80.4 **Minimum Hourly Humidity:** 10.7

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	17.6	15.8	16.6	20.1	20.8	20.0	17.6	14.4	15.7	13.9	13.1	12.3	11.8	11.0	10.9	10.7	11.8	11.8	12.3	12.8	13.1	11.1	10.9	12.5	20.8	10.7	14.1
08/02/09	12.0	13.3	12.9	13.0	13.6	13.6	14.9	13.9	13.2	13.4	11.9	10.5	10.7	11.0	10.2	10.7	10.6	11.9	12.7	14.1	14.4	21.6	22.3	22.6	22.6	10.2	13.7
08/03/09	22.8	21.6	22.1	20.9	21.4	23.7	23.6	22.6	21.2	20.1	16.3	14.6	14.4	13.0	12.9	11.8	11.4	11.7	12.0	13.1	14.9	15.5	16.7	19.0	23.7	11.4	17.4
08/04/09	27.5	38.9	39.8	40.0	42.3	46.6	48.3	42.0	32.5	29.0	28.4	24.4	22.6	21.5	20.0	18.8	19.1	18.3	18.3	19.0	19.4	22.2	21.6	21.6	48.3	18.3	28.4
08/05/09	22.4	25.1	23.4	27.5	27.7	29.0	27.3	25.0	24.1	22.1	18.8	19.2	17.2	16.2	16.5	14.0	16.7	16.5	17.4	21.1	21.4	24.9	27.3	27.6	29.0	14.0	22.0
08/06/09	27.0	31.3	36.2	34.9	33.9	35.8	37.7	34.9	28.4	27.9	27.1	23.1	22.0	17.3	16.8	18.0	15.5	13.9	14.2	16.5	15.4	15.7	15.9	16.7	37.7	13.9	24.0
08/07/09	16.9	17.1	17.6	22.2	21.9	17.3	20.0	13.5	11.8	13.7	13.5	12.7	11.5	10.1	10.0	9.7	9.7	9.6	9.8	11.2	11.1	11.6	11.6	12.0	22.2	9.6	13.6
08/08/09	11.6	13.0	11.4	12.1	11.1	9.7	9.5	9.1	8.8	10.3	15.5	12.1	11.9	10.5	10.9	10.3	11.3	12.2	13.3	13.3	14.1	15.7	17.1	16.3	17.1	8.8	12.1
08/09/09	16.9	18.1	19.1	18.9	20.6	23.2	23.6	19.4	16.5	12.5	10.9	12.1	10.6	10.4	10.7	11.2	11.7	10.9	11.3	12.1	12.0	13.8	15.1	15.6	23.6	10.4	14.9
08/10/09	15.4	15.9	17.3	16.8	16.1	16.8	16.5	15.1	16.0	17.4	18.0	21.7	18.6	15.0	11.5	12.2	12.6	12.0	12.6	14.0	14.7	15.9	14.8	17.5	21.7	11.5	15.6
08/11/09	39.0	43.5	48.4	48.6	45.4	46.4	48.0	43.2	37.9	31.4	28.4	25.1	25.0	22.1	22.6	21.2	20.9	24.1	25.5	25.3	26.5	25.6	27.1	27.2	48.6	20.9	32.4
08/12/09	27.8	27.9	28.4	29.1	29.8	30.1	27.6	26.4	23.4	21.2	20.1	20.7	19.3	17.5	17.1	18.5	24.9	22.6	23.4	25.8	27.6	28.4	40.9	43.7	43.7	17.1	25.9
08/13/09	49.1	55.6	56.6	63.5	65.3	71.5	72.4	63.2	58.3	60.0	48.1	49.2	49.3	47.1	51.9	55.9	52.1	53.4	57.7	57.8	56.2	56.2	57.9	56.1	72.4	47.1	56.8
08/14/09	62.4	57.5	57.0	57.7	67.6	60.8	61.6	52.4	45.3	35.7	30.5	30.3	28.0	25.9	24.0	22.2	20.6	24.5	25.5	28.0	29.8	32.7	34.2	27.9	67.6	20.6	39.3
08/15/09	31.2	29.3	31.0	32.6	30.6	32.2	26.4	20.1	20.1	19.1	20.3	16.2	16.3	15.1	16.4	14.6	14.5	15.1	17.2	17.6	19.9	20.0	21.6	22.7	32.6	14.5	21.7
08/16/09	22.9	22.7	24.1	25.6	26.3	25.9	24.1	19.3	17.9	15.6	15.7	14.4	12.1	10.6	9.9	9.9	9.5	10.2	10.3	10.9	10.8	12.9	13.2	13.3	26.3	9.5	16.2
08/17/09	14.0	13.5	16.2	15.3	18.4	16.3	14.5	12.4	11.9	10.4	11.2	10.4	10.2	9.6	9.0	9.5	9.5	9.8	10.6	11.3	11.6	13.5	13.8	14.2	18.4	9.0	12.4
08/18/09	14.7	15.8	13.3	12.2	12.1	12.2	11.6	10.3	9.4	8.9	8.5	9.2	10.5	12.4	11.5	11.2	11.3	11.8	13.5	13.5	13.6	14.6	17.2	17.0	17.2	8.5	12.3
08/19/09	18.3	16.2	18.4	23.4	25.7	27.0	26.8	35.8	33.5	27.6	23.6	21.3	19.4	17.4	19.2	17.5	15.6	16.0	19.5	19.7	19.7	23.2	26.3	28.5	35.8	15.6	22.5
08/20/09	30.2	31.8	32.2	35.4	37.0	38.3	37.4	37.2	35.0	29.6	25.8	23.8	21.6	19.3	18.8	15.5	15.0	15.0	18.3	18.2	19.6	19.9	22.0	20.4	38.3	15.0	25.7
08/21/09	30.7	33.3	35.9	36.9	37.4	36.9	34.6	32.0	32.2	29.0	25.5	23.0	22.9	20.0	19.1	36.1	37.1	28.5	40.8	44.6	66.2	67.3	73.9	70.2	73.9	19.1	38.1
08/22/09	72.4	67.4	76.5	74.2	67.7	69.1	86.7	87.8	77.2	67.5	45.2	43.6	40.4	39.9	45.1	46.6	47.0	46.9	48.1	53.6	54.8	55.2	56.4	53.9	87.8	39.9	59.3
08/23/09	56.9	56.9	55.7	59.4	60.4	65.2	61.9	54.6	46.4	41.3	33.0	33.0	29.4	28.9	25.4	24.5	24.3	27.0	27.8	31.3	33.4	39.4	39.5	39.9	65.2	24.3	41.5
08/24/09	39.8	44.5	48.7	49.6	50.5	54.2	53.3	49.3	43.9	40.1	35.6	31.3	28.5	27.4	22.9	21.7	23.5	21.3	21.9	22.9	25.1	30.4	33.8	36.3	54.2	21.3	35.7
08/25/09	37.9	40.9	44.2	39.0	39.3	42.6	40.6	38.3	32.6	31.3	28.1	25.4	24.7	25.7	21.7	21.0	18.1	15.4	20.8	21.4	27.8	25.4	26.2	27.5	44.2	15.4	29.8
08/26/09	27.3	27.2	28.1	30.5	32.1	34.0	33.7	27.9	23.5	20.4	19.3	13.9	11.8	10.4	10.9	12.8	12.2	13.0	14.7	14.8	14.9	16.4	18.4	17.5	34.0	10.4	20.2
08/27/09	18.6	22.6	21.8	22.3	22.8	23.2	20.4	18.0	15.5	13.1	11.5	11.5	11.3	10.7	10.1	11.2	11.0	10.4	11.2	11.4	12.0	11.5	14.8	14.0	23.2	10.1	15.0
08/28/09	12.8	13.6	15.0	15.8	17.3	18.9	20.2	19.2	18.1	16.3	15.1	14.9	13.2	13.0	12.5	12.2	11.1	10.0	10.4	11.9	12.1	12.5	12.7	12.8	20.2	10.0	14.2
08/29/09	14.3	15.1	15.2	15.5	15.9	13.6	13.0	11.6	12.2	11.9	10.2	9.9	9.7	9.4	9.1	8.7	8.6	9.8	10.5	12.2	12.6	13.3	13.4	13.4	15.9	8.6	12.0
08/30/09	14.5	16.1	16.2	16.4	16.7	17.4	17.2	15.9	16.3	16.2	15.2	13.6	16.0	13.3	13.2	13.1	13.5	13.9	16.8	21.7	20.0	16.2	16.7	19.9	21.7	13.1	16.1
08/31/09	20.8	20.0	22.7	22.0	21.7	21.4	20.0	19.2	17.5	16.4	14.5	13.5	13.4	12.6	13.9	15.9	14.1	16.1	19.2	26.5	34.4	30.5	34.8	27.3	34.8	12.6	20.3
Hourly Averages	27.3	28.4	29.7	30.7	31.3	32.0	32.0	29.2	26.3	24.0	21.3	19.9	18.8	17.5	17.2	17.6	17.6	17.5	19.3	20.9	22.5	23.6	25.4	25.3			

Maximum Hourly Humidity: 87.8 **Minimum Hourly Humidity:** 8.5

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	30.4	34.7	40.6	34.9	28.6	25.4	30.3	30.7	30.1	33.4	29.0	27.1	24.8	22.5	20.5	19.4	20.1	21.4	22.5	22.4	22.1	29.6	30.4	30.3	40.6	19.4	27.5
09/02/09	29.9	31.7	36.2	36.4	40.8	43.0	42.6	41.6	36.2	32.7	28.7	26.4	25.6	23.5	22.8	22.0	22.5	23.9	23.8	25.0	24.8	27.6	35.1	39.6	43.0	22.0	30.9
09/03/09	40.0	41.3	42.5	42.6	45.5	45.6	45.6	41.9	38.4	33.5	29.9	28.5	28.5	27.0	25.7	23.0	40.8	43.9	35.2	54.4	64.4	69.5	64.0	60.5	69.5	23.0	42.1
09/04/09	79.4	66.4	57.1	59.1	69.9	64.8	68.6	60.9	51.1	46.3	44.3	41.7	34.4	37.7	32.1	32.8	30.9	33.9	37.6	40.6	35.9	44.1	44.3	40.2	79.4	30.9	48.1
09/05/09	46.4	48.7	45.9	49.0	46.3	52.1	64.9	90.6	88.3	91.7	76.4	71.7	53.3	36.4	71.7	56.8	56.0	56.2	59.8	55.0	61.4	71.2	62.0	55.3	91.7	36.4	61.1
09/06/09	71.6	62.8	68.4	62.7	58.4	58.4	58.9	53.3	41.8	40.4	55.5	49.0	41.7	36.9	27.5	27.0	28.1	30.2	31.0	31.9	32.4	38.4	39.6	53.1	71.6	27.0	45.8
09/07/09	56.2	50.5	52.1	53.6	51.8	62.9	56.0	50.0	44.6	40.3	35.7	30.2	30.9	30.0	30.0	29.0	25.8	28.9	28.1	30.3	33.8	37.0	42.3	43.2	62.9	25.8	40.6
09/08/09	42.8	47.3	50.7	53.4	49.1	52.6	54.0	43.0	39.1	35.2	36.4	30.3	28.4	25.1	27.0	29.2	27.6	27.4	31.5	45.4	43.1	46.2	48.6	48.4	54.0	25.1	40.1
09/09/09	42.4	47.2	49.3	40.6	41.1	40.3	45.2	34.2	30.2	29.6	28.6	28.6	28.5	27.6	26.6	25.1	24.9	25.3	29.4	28.0	31.4	33.9	34.0	35.3	49.3	24.9	33.6
09/10/09	37.5	37.1	37.5	41.9	41.1	41.3	39.4	31.4	28.4	24.7	24.0	20.6	21.3	18.3	20.1	18.5	18.7	19.7	21.2	22.6	25.6	28.7	28.8	27.4	41.9	18.3	28.1
09/11/09	28.5	28.3	32.1	31.0	36.3	36.9	36.3	35.2	32.0	29.5	25.4	25.1	20.2	28.2	19.7	22.6	22.3	24.0	26.7	25.7	27.5	29.0	29.3	31.4	36.9	19.7	28.5
09/12/09	31.5	32.9	33.2	32.3	31.3	33.2	35.6	30.7	28.9	26.7	25.0	22.8	22.0	20.6	21.5	17.7	19.9	18.0	23.1	27.0	29.8	31.2	31.1	33.2	35.6	17.7	27.5
09/13/09	34.5	37.6	38.2	39.5	39.7	40.0	39.7	38.1	32.7	30.2	29.4	28.0	25.9	24.5	23.8	21.4	21.0	23.3	26.8	29.3	28.9	27.7	39.9	42.5	42.5	21.0	31.8
09/14/09	46.8	47.7	49.8	47.9	49.9	47.4	48.3	41.6	43.0	40.6	36.9	29.5	24.8	22.4	20.0	18.9	17.8	18.9	18.5	21.4	25.2	25.0	27.0	26.1	49.9	17.8	33.1
09/15/09	27.6	28.8	31.1	25.9	24.9	28.3	29.6	23.6	21.8	21.6	23.0	22.5	18.2	16.8	20.0	21.7	20.7	21.9	14.2	15.5	18.8	23.7	25.8	26.2	31.1	14.2	23.0
09/16/09	23.1	25.9	27.5	27.0	26.9	30.3	30.3	22.2	21.0	20.4	19.5	19.5	16.5	19.0	15.5	15.5	13.5	13.7	15.8	15.7	18.1	15.3	20.2	21.3	30.3	13.5	20.6
09/17/09	22.4	25.8	27.3	27.1	29.0	28.8	30.6	27.5	28.9	27.3	21.8	17.1	19.7	14.8	14.2	23.0	22.2	23.3	26.2	26.4	30.6	38.1	31.7	34.0	38.1	14.2	25.7
09/18/09	37.9	38.7	41.3	43.4	43.7	47.0	48.2	42.9	40.2	36.9	35.8	31.4	29.7	27.7	25.9	25.0	23.2	29.4	33.9	35.2	30.9	30.3	32.2	33.5	48.2	23.2	35.2
09/19/09	34.9	36.8	38.3	39.3	39.7	41.2	41.8	38.3	36.3	29.8	26.0	23.3	24.6	23.5	23.6	24.3	35.3	32.3	27.9	30.0	45.3	44.6	38.6	32.4	45.3	23.3	33.7
09/20/09	35.5	38.2	37.9	34.1	33.3	35.6	37.1	34.2	29.7	25.6	23.9	21.2	20.1	20.8	19.4	18.9	18.5	20.1	21.9	22.7	22.5	23.8	25.6	25.3	38.2	18.5	26.9
09/21/09	26.3	27.4	26.4	27.1	28.5	29.4	30.5	24.6	25.1	22.7	23.1	20.3	19.1	17.7	15.4	14.8	15.1	16.8	17.7	18.6	21.9	20.3	21.5	21.3	30.5	14.8	22.1
09/22/09	21.0	13.5	11.9	9.0	10.3	11.0	10.7	10.0	9.2	8.6	8.0	8.1	7.2	7.1	7.4	6.6	7.1	7.9	8.5	9.0	9.4	9.4	10.0	9.9	21.0	6.6	9.6
09/23/09	10.5	11.4	12.5	15.1	17.8	20.9	21.2	22.6	20.7	19.2	15.8	14.4	13.2	11.7	12.0	12.1	12.2	12.8	13.5	14.0	13.9	15.8	15.5	18.1	22.6	10.5	15.3
09/24/09	19.3	20.4	20.7	22.7	22.3	24.8	25.1	24.2	21.4	22.3	20.6	15.6	13.8	12.3	10.0	9.7	12.0	11.6	13.4	15.1	15.6	15.0	12.1	11.5	25.1	9.7	17.1
09/25/09	12.4	13.9	16.6	20.1	21.9	25.1	27.9	22.5	21.5	20.7	19.0	15.8	13.5	11.7	12.4	11.3	11.4	11.6	13.6	15.5	17.1	14.5	17.0	16.4	27.9	11.3	16.8
09/26/09	14.1	15.2	16.1	15.7	15.6	16.7	15.2	11.8	11.2	10.3	9.2	8.5	9.1	8.3	8.1	8.2	8.3	8.3	9.7	11.0	10.8	11.8	10.9	11.6	16.7	8.1	11.5
09/27/09	11.0	10.9	12.1	11.5	12.7	10.6	10.9	9.8	9.3	8.0	7.6	6.8	6.7	7.2	6.5	7.5	8.4	8.7	8.8	12.0	10.0	10.6	11.1	10.2	12.7	6.5	9.5
09/28/09	10.4	10.5	10.6	10.9	10.6	10.9	10.1	9.5	9.2	8.1	7.8	INV	INV	8.1	8.8	9.3	9.8	9.8	11.2	11.0	10.7	11.3	12.2	12.3	12.3	7.8	10.1
09/29/09	12.5	12.7	12.4	13.1	14.2	13.7	13.6	13.4	12.5	11.6	11.4	10.8	11.0	12.9	11.8	12.5	12.5	13.3	13.4	14.6	15.5	15.5	15.9	16.5	16.5	10.8	13.2
09/30/09	14.0	23.0	26.8	27.4	28.9	31.3	32.7	32.8	34.0	27.6	28.2	24.7	22.5	20.5	23.4	27.5	19.6	18.4	18.6	19.5	18.4	14.7	12.8	15.3	34.0	12.8	23.4
Hourly Averages	31.7	32.2	33.4	33.1	33.7	35.0	36.0	33.1	30.6	28.5	26.9	24.8	22.6	20.7	20.8	20.4	20.9	21.8	22.8	24.8	26.5	28.5	29.0	29.4			

Maximum Hourly Humidity: 91.7 **Minimum Hourly Humidity:** 6.5

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	26.86	26.87	26.86	26.88	26.90	26.91	26.90	26.89	26.90	26.90	26.89	26.89	26.87	26.86	26.84	26.81	26.79	26.78	26.78	26.79	26.83	26.88	26.92	26.88	26.92	26.78	26.86
07/02/09	26.90	26.93	26.92	26.90	26.89	26.89	26.92	26.93	26.95	26.95	26.94	26.93	26.93	26.92	26.89	26.87	26.86	26.85	26.85	26.87	26.89	26.91	26.93	26.94	26.95	26.85	26.91
07/03/09	26.95	26.94	26.95	26.94	26.95	26.95	26.97	26.99	27.00	27.00	27.00	26.99	26.97	26.95	26.93	26.91	26.90	26.88	26.90	26.93	26.92	27.00	27.01	27.03	27.03	26.88	26.96
07/04/09	27.01	27.05	27.02	27.01	27.00	26.99	27.00	27.01	27.02	27.02	27.03	27.02	27.01	26.98	26.96	26.93	26.93	26.90	26.90	26.91	26.92	26.93	26.94	26.94	27.05	26.90	26.98
07/05/09	26.94	26.94	26.95	26.94	26.95	26.95	26.96	26.97	26.97	26.98	26.97	26.97	26.95	26.93	26.91	26.89	26.87	26.85	26.85	26.85	26.87	26.89	26.90	26.91	26.98	26.85	26.92
07/06/09	26.91	26.91	26.90	26.91	26.92	26.93	26.94	26.95	26.96	26.96	26.96	26.95	26.94	26.92	26.91	26.89	26.87	26.84	26.84	26.84	26.85	26.87	26.89	26.89	26.96	26.84	26.91
07/07/09	26.91	26.91	26.92	26.92	26.93	26.94	26.95	26.97	26.97	26.97	26.97	26.96	26.94	26.92	26.90	26.88	26.86	26.84	26.83	26.84	26.85	26.86	26.89	26.91	26.97	26.83	26.91
07/08/09	26.91	26.91	26.91	26.91	26.91	26.92	26.92	26.93	26.94	26.95	26.94	26.94	26.92	26.90	26.89	26.86	26.84	26.82	26.82	26.82	26.85	26.89	26.92	26.91	26.95	26.82	26.90
07/09/09	26.90	26.90	26.91	26.91	26.90	26.91	26.92	26.94	26.96	26.95	26.95	26.95	26.94	26.92	26.90	26.89	26.87	26.86	26.86	26.87	26.89	26.91	26.92	26.91	26.96	26.86	26.91
07/10/09	26.92	26.91	26.91	26.92	26.92	26.92	26.93	26.95	26.96	26.97	26.96	26.96	26.96	26.94	26.92	26.90	26.88	26.88	26.88	26.88	26.89	26.91	26.95	26.95	26.97	26.88	26.92
07/11/09	26.94	26.94	26.93	26.93	26.92	26.93	26.97	26.99	27.00	27.00	27.00	26.99	26.97	26.94	26.92	26.91	26.90	26.90	26.89	26.89	26.91	26.92	26.93	26.94	27.00	26.89	26.94
07/12/09	26.94	26.94	26.95	26.95	26.96	26.97	26.98	27.00	27.02	27.01	27.00	27.00	27.00	26.98	26.97	26.95	26.93	26.92	26.92	26.92	26.93	26.96	26.97	26.98	27.02	26.92	26.96
07/13/09	26.97	26.97	26.96	26.96	26.96	26.96	26.98	26.98	26.98	26.98	26.96	26.94	26.93	26.91	26.89	26.86	26.85	26.83	26.83	26.84	26.86	26.89	26.93	26.93	26.98	26.83	26.92
07/14/09	26.91	26.89	26.89	26.89	26.88	26.89	26.91	26.92	26.94	26.94	26.94	26.93	26.91	26.90	26.88	26.86	26.85	26.84	26.83	26.85	26.87	26.89	26.91	26.92	26.94	26.83	26.89
07/15/09	26.94	26.95	26.95	26.96	26.98	27.01	27.04	27.06	27.07	27.06	27.05	27.04	27.03	27.02	27.01	26.99	26.97	26.96	26.96	26.98	26.97	27.00	27.01	26.98	27.07	26.94	27.00
07/16/09	27.00	26.99	26.99	26.99	27.00	27.00	27.03	27.04	27.06	27.06	27.05	27.04	27.02	26.99	26.97	26.95	26.93	26.91	26.91	26.95	26.96	26.95	26.95	26.96	27.06	26.91	26.99
07/17/09	26.96	26.97	26.96	26.96	26.98	26.99	27.01	27.02	27.03	27.03	27.02	27.02	27.00	26.97	26.95	26.94	26.90	26.95	27.00	27.03	26.98	26.96	26.99	26.99	27.03	26.90	26.98
07/18/09	26.98	26.98	26.99	26.99	26.99	27.01	27.01	27.02	27.04	27.04	27.03	27.02	27.00	26.99	26.97	26.94	26.92	26.91	26.90	26.97	27.01	27.06	27.04	26.96	27.06	26.90	26.99
07/19/09	26.96	26.98	26.98	26.99	27.00	27.01	27.02	27.03	27.03	27.03	27.03	27.03	27.01	26.99	26.96	26.93	26.91	26.90	26.90	26.91	26.96	27.02	27.01	27.03	27.03	26.90	26.98
07/20/09	27.02	27.01	27.01	26.99	26.98	26.98	26.99	27.00	27.01	27.01	27.01	27.00	26.98	26.95	26.94	26.91	26.89	26.88	26.88	26.88	26.92	26.98	27.00	26.98	27.02	26.88	26.97
07/21/09	26.94	26.93	26.91	26.93	26.95	26.95	26.98	27.01	27.03	27.02	27.01	27.00	26.99	26.97	26.94	26.91	26.89	26.86	26.86	26.87	26.88	26.89	26.90	26.90	27.03	26.86	26.94
07/22/09	26.91	26.94	26.91	26.88	26.87	26.89	26.91	26.92	26.94	26.94	26.94	26.93	26.91	26.88	26.86	26.84	26.83	26.84	26.85	26.89	26.89	26.92	26.92	26.92	26.94	26.83	26.90
07/23/09	26.92	26.92	26.91	26.91	26.92	26.93	26.93	26.96	26.97	26.97	26.97	26.96	26.96	26.93	26.91	26.90	26.88	26.85	26.86	26.88	26.88	26.91	26.96	26.98	26.98	26.85	26.92
07/24/09	26.96	26.94	26.94	26.94	26.93	26.95	26.96	26.98	27.00	27.00	27.00	27.00	26.99	26.98	26.96	26.93	26.92	26.90	26.90	26.91	26.93	26.95	26.95	26.95	27.00	26.90	26.95
07/25/09	26.96	26.95	26.95	26.95	26.96	26.97	26.99	27.00	27.00	27.00	27.00	27.00	26.99	27.00	26.95	26.93	26.92	26.93	26.97	26.96	26.97	26.97	27.00	27.00	27.00	26.92	26.97
07/26/09	26.99	26.99	26.98	26.99	27.00	27.00	27.02	27.03	27.03	27.03	27.02	27.01	27.00	26.97	26.95	26.93	26.92	26.90	26.88	26.89	26.90	26.92	26.94	26.94	27.03	26.88	26.97
07/27/09	26.94	26.93	26.93	26.93	26.92	26.93	26.94	26.95	26.95	26.95	26.95	26.94	26.93	26.91	26.88	26.86	26.84	26.83	26.82	26.83	26.83	26.84	26.85	26.86	26.95	26.82	26.90
07/28/09	26.86	26.85	26.85	26.85	26.86	26.87	26.88	26.88	26.89	26.90	26.90	26.90	26.89	26.87	26.84	26.82	26.79	26.78	26.77	26.79	26.80	26.82	26.83	26.85	26.90	26.77	26.85
07/29/09	26.85	26.85	26.85	26.87	26.88	26.88	26.90	26.91	26.92	26.93	26.93	26.92	26.91	26.89	26.88	26.85	26.82	26.81	26.80	26.80	26.82	26.84	26.87	26.89	26.93	26.80	26.87
07/30/09	26.90	26.90	26.90	26.90	26.91	26.93	26.94	26.96	26.97	26.97	26.97	26.97	26.95	26.93	26.91	26.88	26.87	26.85	26.85	26.86	26.88	26.91	26.91	26.92	26.97	26.85	26.91
07/31/09	26.92	26.92	26.94	26.93	26.94	26.95	26.96	26.98	26.99	26.99	26.99	26.98	26.96	26.95	26.93	26.91	26.89	26.88	26.87	26.88	26.89	26.91	26.93	26.94	26.99	26.87	26.93
Hourly Averages	26.93	26.94	26.93	26.93	26.94	26.95	26.96	26.97	26.98	26.98	26.98	26.97	26.96	26.94	26.92	26.90	26.88	26.87	26.87	26.88	26.90	26.92	26.94	26.94			

Maximum Hourly Pressure: 27.07 **Minimum Hourly Pressure:** 26.77

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	26.93	26.93	26.92	26.92	26.92	26.94	26.97	26.99	27.01	27.01	27.01	26.99	26.97	26.96	26.95	26.93	26.90	26.89	26.88	26.89	26.90	26.92	26.92	26.92	27.01	26.88	26.94
08/02/09	26.93	26.92	26.92	26.92	26.91	26.93	26.95	26.97	26.98	26.98	26.99	26.97	26.95	26.93	26.90	26.88	26.86	26.85	26.84	26.86	26.88	26.91	26.93	26.93	26.99	26.84	26.92
08/03/09	26.91	26.91	26.90	26.90	26.91	26.92	26.93	26.96	26.97	26.98	26.99	26.98	26.95	26.93	26.90	26.89	26.86	26.85	26.86	26.87	26.88	26.91	26.93	26.93	26.99	26.85	26.92
08/04/09	26.95	26.97	26.98	26.99	26.99	26.99	27.00	27.01	27.01	27.01	27.00	26.99	26.97	26.94	26.93	26.90	26.88	26.87	26.87	26.87	26.90	26.93	26.96	26.96	27.01	26.87	26.95
08/05/09	26.94	26.97	26.98	26.96	26.95	26.95	26.96	26.97	26.98	26.98	26.97	26.97	26.94	26.93	26.90	26.88	26.86	26.84	26.85	26.85	26.86	26.89	26.93	26.94	26.98	26.84	26.93
08/06/09	26.93	26.93	26.92	26.92	26.92	26.91	26.93	26.94	26.94	26.95	26.96	26.95	26.93	26.91	26.89	26.87	26.84	26.83	26.83	26.84	26.84	26.87	26.89	26.90	26.96	26.83	26.90
08/07/09	26.90	26.89	26.88	26.89	26.90	26.90	26.90	26.92	26.94	26.93	26.94	26.93	26.93	26.92	26.91	26.89	26.87	26.86	26.86	26.87	26.88	26.90	26.92	26.92	26.94	26.86	26.90
08/08/09	26.93	26.92	26.92	26.92	26.92	26.93	26.94	26.95	26.96	26.96	26.97	26.96	26.95	26.93	26.92	26.90	26.88	26.87	26.86	26.86	26.87	26.89	26.90	26.91	26.97	26.86	26.92
08/09/09	26.91	26.91	26.92	26.92	26.93	26.93	26.95	26.96	26.98	26.98	26.98	26.97	26.97	26.95	26.94	26.92	26.91	26.90	26.89	26.89	26.90	26.91	26.93	26.93	26.98	26.89	26.93
08/10/09	26.95	26.95	26.96	26.97	26.98	26.99	27.01	27.03	27.05	27.05	27.06	27.05	27.04	27.02	27.00	26.98	26.95	26.94	26.94	26.95	26.97	27.00	26.99	27.00	27.06	26.94	26.99
08/11/09	27.03	27.04	27.05	27.05	27.06	27.07	27.08	27.10	27.09	27.08	27.08	27.06	27.04	27.03	27.02	27.00	26.98	26.97	26.97	26.96	26.97	26.99	26.99	26.99	27.10	26.96	27.03
08/12/09	27.00	26.99	26.98	26.98	26.98	26.99	26.99	27.01	27.01	27.02	27.02	27.01	27.00	26.97	26.95	26.92	26.91	26.93	26.91	26.92	26.94	26.96	26.97	26.99	27.02	26.91	26.97
08/13/09	27.02	27.02	27.02	27.00	26.98	26.99	27.00	27.00	27.02	27.01	27.01	27.00	26.99	26.97	26.96	26.94	26.93	26.93	26.92	26.93	26.93	26.94	26.96	26.96	27.02	26.92	26.98
08/14/09	26.96	26.95	26.94	26.94	26.94	26.96	26.97	26.98	26.99	27.00	26.99	26.98	26.97	26.95	26.93	26.91	26.90	26.88	26.88	26.88	26.88	26.89	26.90	26.90	27.00	26.88	26.94
08/15/09	26.92	26.92	26.91	26.91	26.91	26.92	26.94	26.94	26.95	26.95	26.96	26.94	26.92	26.91	26.90	26.88	26.86	26.85	26.83	26.83	26.85	26.86	26.88	26.89	26.96	26.83	26.90
08/16/09	26.90	26.90	26.90	26.90	26.90	26.91	26.93	26.94	26.95	26.95	26.96	26.95	26.94	26.92	26.91	26.88	26.87	26.85	26.84	26.85	26.86	26.87	26.89	26.89	26.96	26.84	26.90
08/17/09	26.89	26.89	26.88	26.89	26.89	26.90	26.91	26.93	26.95	26.95	26.95	26.95	26.93	26.91	26.89	26.87	26.85	26.84	26.83	26.83	26.85	26.86	26.87	26.88	26.95	26.83	26.89
08/18/09	26.88	26.88	26.87	26.87	26.87	26.88	26.89	26.90	26.91	26.92	26.93	26.91	26.90	26.89	26.87	26.85	26.83	26.81	26.81	26.81	26.82	26.84	26.85	26.86	26.93	26.81	26.87
08/19/09	26.86	26.86	26.87	26.87	26.89	26.90	26.92	26.93	26.94	26.94	26.94	26.93	26.92	26.90	26.88	26.86	26.83	26.83	26.82	26.83	26.84	26.85	26.85	26.86	26.94	26.82	26.88
08/20/09	26.87	26.87	26.86	26.87	26.87	26.88	26.90	26.92	26.93	26.93	26.93	26.92	26.90	26.88	26.86	26.84	26.83	26.82	26.80	26.81	26.84	26.86	26.86	26.86	26.93	26.80	26.87
08/21/09	26.89	26.90	26.90	26.91	26.92	26.92	26.93	26.94	26.96	26.97	26.97	26.96	26.93	26.91	26.88	26.85	26.86	26.85	26.88	26.88	26.93	26.97	26.98	26.98	26.98	26.85	26.92
08/22/09	27.01	26.99	26.98	26.96	26.97	26.99	26.99	27.01	27.02	27.03	27.04	27.03	27.02	27.00	26.98	26.96	26.95	26.94	26.94	26.96	26.97	26.98	26.99	26.99	27.04	26.94	26.99
08/23/09	26.98	26.98	26.97	26.96	26.96	26.96	26.97	26.99	26.99	26.99	26.99	26.97	26.95	26.92	26.91	26.87	26.85	26.84	26.85	26.85	26.87	26.89	26.92	26.90	26.99	26.84	26.93
08/24/09	26.91	26.92	26.92	26.92	26.92	26.93	26.95	26.97	26.98	27.00	27.00	26.99	26.97	26.95	26.94	26.93	26.91	26.90	26.89	26.92	26.95	26.97	26.98	26.98	27.00	26.89	26.95
08/25/09	26.99	26.99	27.00	27.00	26.99	27.00	27.02	27.04	27.04	27.04	27.04	27.03	27.00	26.98	26.96	26.95	26.95	26.95	26.93	26.94	26.96	26.99	27.00	27.00	27.04	26.93	26.99
08/26/09	27.00	27.00	27.00	27.00	27.01	27.01	27.02	27.03	27.04	27.05	27.05	27.03	27.01	26.99	26.97	26.95	26.94	26.93	26.92	26.93	26.95	26.96	26.97	26.97	27.05	26.92	26.99
08/27/09	26.97	26.97	26.96	26.97	26.97	26.97	26.98	26.98	27.00	27.00	27.00	26.99	26.97	26.95	26.94	26.92	26.91	26.91	26.90	26.91	26.93	26.95	26.95	26.95	27.00	26.90	26.96
08/28/09	26.95	26.95	26.94	26.95	26.95	26.95	26.97	26.99	27.01	27.02	27.02	27.01	26.99	26.97	26.95	26.93	26.91	26.89	26.90	26.90	26.92	26.93	26.94	26.94	27.02	26.89	26.95
08/29/09	26.95	26.97	26.96	26.96	26.96	26.96	26.98	27.00	27.00	27.01	27.01	26.99	26.97	26.95	26.92	26.89	26.86	26.86	26.85	26.86	26.88	26.89	26.89	26.89	27.01	26.85	26.94
08/30/09	26.89	26.90	26.90	26.89	26.90	26.90	26.92	26.94	26.95	26.95	26.95	26.94	26.92	26.90	26.88	26.86	26.84	26.83	26.83	26.86	26.88	26.89	26.88	26.89	26.95	26.83	26.90
08/31/09	26.90	26.90	26.89	26.91	26.90	26.90	26.92	26.93	26.94	26.95	26.96	26.95	26.92	26.90	26.87	26.85	26.83	26.83	26.84	26.86	26.89	26.95	26.93	26.94	26.96	26.83	26.90
Hourly Averages	26.94	26.94	26.94	26.94	26.94	26.94	26.96	26.97	26.98	26.99	26.99	26.98	26.96	26.94	26.92	26.90	26.88	26.88	26.87	26.88	26.90	26.92	26.93	26.93			

Maximum Hourly Pressure: 27.10 **Minimum Hourly Pressure:** 26.80

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	26.96	26.94	26.94	26.94	26.93	26.93	26.94	26.99	27.01	27.02	27.02	27.01	26.98	26.96	26.93	26.90	26.89	26.87	26.88	26.90	26.93	26.95	26.97	26.98	27.02	26.87	26.95
09/02/09	26.99	26.99	26.99	27.01	27.00	27.00	27.01	27.02	27.03	27.03	27.03	27.01	26.99	26.96	26.94	26.91	26.90	26.90	26.91	26.92	26.93	26.95	26.97	26.98	27.03	26.90	26.97
09/03/09	26.98	26.97	26.97	26.97	26.96	26.96	26.97	26.98	26.98	26.99	26.99	26.97	26.95	26.92	26.89	26.85	26.87	26.90	26.89	26.87	26.91	26.98	26.99	26.97	26.99	26.85	26.94
09/04/09	26.94	26.95	26.95	26.93	26.93	26.93	26.93	26.95	26.95	26.95	26.95	26.95	26.93	26.90	26.88	26.86	26.86	26.85	26.87	26.89	26.89	26.91	26.92	26.93	26.95	26.85	26.92
09/05/09	26.93	26.94	26.95	26.95	26.94	26.95	26.96	27.00	27.02	27.04	27.03	27.04	27.02	26.98	26.96	26.98	26.95	26.94	26.95	26.95	26.95	26.97	26.97	26.96	27.04	26.93	26.97
09/06/09	26.97	26.98	26.98	26.98	26.98	26.99	27.01	27.02	27.02	27.04	27.04	27.05	27.04	27.02	26.99	26.95	26.93	26.92	26.93	26.95	26.97	26.97	26.97	26.99	27.05	26.92	26.99
09/07/09	27.00	26.98	26.96	26.95	26.95	26.95	26.95	26.97	26.98	26.98	26.98	26.97	26.95	26.92	26.89	26.87	26.85	26.84	26.83	26.83	26.85	26.86	26.86	26.86	27.00	26.83	26.92
09/08/09	26.86	26.85	26.85	26.85	26.85	26.86	26.88	26.90	26.90	26.91	26.91	26.90	26.88	26.86	26.84	26.82	26.82	26.83	26.83	26.85	26.89	26.90	26.92	26.93	26.93	26.82	26.87
09/09/09	26.93	26.94	26.94	26.92	26.91	26.93	26.94	26.97	26.98	26.99	26.99	26.98	26.97	26.95	26.92	26.90	26.90	26.90	26.90	26.92	26.93	26.94	26.95	26.95	26.99	26.90	26.94
09/10/09	26.95	26.95	26.94	26.95	26.96	26.97	26.98	26.99	27.00	27.00	27.00	26.99	26.97	26.95	26.93	26.93	26.91	26.91	26.91	26.92	26.94	26.95	26.95	26.95	27.00	26.91	26.95
09/11/09	26.95	26.95	26.94	26.94	26.93	26.94	26.95	26.96	26.97	26.98	26.97	26.95	26.93	26.91	26.90	26.88	26.87	26.88	26.88	26.88	26.89	26.90	26.91	26.90	26.98	26.87	26.92
09/12/09	26.90	26.89	26.90	26.89	26.88	26.88	26.88	26.90	26.89	26.91	26.91	26.89	26.87	26.84	26.81	26.78	26.76	26.76	26.77	26.78	26.79	26.81	26.82	26.83	26.91	26.76	26.85
09/13/09	26.85	26.85	26.87	26.87	26.87	26.87	26.89	26.91	26.93	26.93	26.93	26.92	26.90	26.87	26.84	26.82	26.81	26.80	26.81	26.82	26.85	26.86	26.88	26.88	26.93	26.80	26.87
09/14/09	26.89	26.89	26.90	26.90	26.90	26.91	26.92	26.94	26.96	26.97	26.97	26.96	26.94	26.91	26.89	26.88	26.86	26.87	26.86	26.88	26.89	26.91	26.93	26.93	26.97	26.86	26.91
09/15/09	26.94	26.94	26.94	26.94	26.95	26.95	26.97	26.99	27.00	27.01	27.00	26.99	26.97	26.95	26.94	26.93	26.92	26.92	26.92	26.93	26.96	26.96	26.97	26.98	27.01	26.92	26.96
09/16/09	26.98	26.98	26.97	26.97	26.97	26.97	26.97	26.98	26.99	27.00	26.99	26.98	26.97	26.95	26.93	26.91	26.90	26.90	26.90	26.90	26.91	26.92	26.93	26.93	27.00	26.90	26.95
09/17/09	26.92	26.93	26.92	26.91	26.91	26.92	26.92	26.94	26.95	26.95	26.94	26.93	26.91	26.90	26.87	26.85	26.85	26.86	26.86	26.87	26.89	26.90	26.92	26.93	26.95	26.85	26.91
09/18/09	26.92	26.92	26.91	26.91	26.91	26.92	26.93	26.94	26.95	26.97	26.97	26.97	26.96	26.94	26.92	26.90	26.89	26.89	26.90	26.91	26.93	26.95	26.95	26.97	26.97	26.89	26.93
09/19/09	26.97	26.97	26.97	26.96	26.96	26.97	26.97	26.99	27.01	27.02	27.02	27.01	26.97	26.95	26.94	26.93	26.92	26.93	26.93	26.93	26.95	26.97	26.97	26.97	27.02	26.92	26.97
09/20/09	26.97	26.97	26.98	26.97	26.96	26.97	26.98	27.00	27.01	27.02	27.03	27.01	26.99	26.96	26.94	26.92	26.90	26.90	26.91	26.91	26.93	26.94	26.93	26.93	27.03	26.90	26.96
09/21/09	26.93	26.94	26.94	26.94	26.94	26.94	26.96	26.98	26.98	26.98	26.99	26.98	26.97	26.95	26.93	26.91	26.91	26.90	26.90	26.90	26.91	26.92	26.92	26.92	26.99	26.90	26.94
09/22/09	26.92	26.92	26.91	26.92	26.93	26.94	26.95	26.97	26.99	27.00	27.02	27.00	26.99	26.98	26.96	26.93	26.93	26.92	26.93	26.95	26.95	26.96	26.96	26.96	27.02	26.91	26.95
09/23/09	26.93	26.95	26.97	26.96	26.96	26.96	26.97	26.99	26.99	27.00	26.99	26.98	26.97	26.95	26.93	26.92	26.91	26.91	26.91	26.92	26.94	26.95	26.96	26.95	27.00	26.91	26.95
09/24/09	26.95	26.94	26.95	26.95	26.95	26.94	26.96	26.96	26.97	26.98	26.97	26.96	26.94	26.92	26.90	26.89	26.87	26.87	26.88	26.89	26.92	26.93	26.93	26.93	26.98	26.87	26.93
09/25/09	26.92	26.92	26.93	26.92	26.93	26.93	26.94	26.96	26.97	26.98	26.98	26.98	26.96	26.94	26.92	26.91	26.91	26.91	26.91	26.93	26.95	26.96	26.96	26.96	26.98	26.91	26.94
09/26/09	26.96	26.96	26.96	26.97	26.97	26.97	26.98	27.00	27.01	27.03	27.03	27.02	27.00	26.98	26.95	26.94	26.92	26.91	26.91	26.93	26.95	26.95	26.95	26.95	27.03	26.91	26.97
09/27/09	26.94	26.93	26.93	26.92	26.92	26.92	26.92	26.94	26.94	26.95	26.94	26.92	26.89	26.87	26.85	26.83	26.82	26.82	26.83	26.83	26.84	26.85	26.85	26.85	26.95	26.82	26.89
09/28/09	26.84	26.84	26.84	26.84	26.85	26.86	26.87	26.88	26.89	26.89	26.90	INV	INV	26.85	26.83	26.82	26.81	26.81	26.81	26.82	26.84	26.85	26.87	26.88	26.90	26.81	26.85
09/29/09	26.88	26.88	26.88	26.89	26.89	26.90	26.91	26.92	26.93	26.94	26.94	26.93	26.92	26.89	26.88	26.87	26.86	26.85	26.85	26.85	26.86	26.86	26.87	26.87	26.94	26.85	26.89
09/30/09	26.87	26.87	26.87	26.88	26.88	26.88	26.89	26.89	26.92	26.93	26.93	26.94	26.93	26.91	26.88	26.86	26.86	26.86	26.86	26.88	26.90	26.92	26.92	26.92	26.94	26.86	26.89
Hourly Averages	26.93	26.93	26.93	26.93	26.93	26.93	26.94	26.96	26.97	26.98	26.98	26.97	26.95	26.93	26.91	26.89	26.88	26.88	26.88	26.89	26.91	26.92	26.93	26.93			

Maximum Hourly Pressure: 27.05 **Minimum Hourly Pressure:** 26.76

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
07/01/09	0.0	0.0	0.0	0.0	0.0	2.1	32.6	97.2	271.6	362.8	582.7	601.6	524.5	887.0	840.0	522.6	357.0	126.9	80.4	20.8	0.0	0.0	0.0	0.0	887.0	2.1	354.0
07/02/09	0.0	0.0	0.0	0.0	0.0	2.7	26.2	61.6	123.7	203.7	332.8	322.7	471.2	652.8	776.0	657.8	356.0	142.5	64.5	8.8	0.0	0.0	0.0	0.0	776.0	2.7	280.2
07/03/09	0.0	0.0	0.0	0.0	0.0	10.7	64.8	272.5	443.1	627.6	725.3	711.7	647.4	635.7	765.5	540.7	352.3	117.2	35.7	9.1	0.0	0.0	0.0	0.0	765.5	9.1	397.3
07/04/09	0.0	0.0	0.0	0.0	0.0	8.2	90.3	323.8	503.4	666.9	788.3	858.0	881.0	851.0	784.9	666.0	342.7	126.4	89.8	8.1	0.0	0.0	0.0	0.0	881.0	8.1	465.9
07/05/09	0.0	0.0	0.0	0.0	0.0	7.5	93.5	324.6	507.3	670.9	794.5	880.0	908.0	877.0	796.5	674.6	345.1	129.7	89.7	7.9	0.0	0.0	0.0	0.0	908.0	7.5	473.8
07/06/09	0.0	0.0	0.0	0.0	0.0	6.6	96.8	337.7	521.6	686.5	815.0	888.0	909.0	882.0	805.0	679.9	346.1	133.9	89.1	8.4	0.0	0.0	0.0	0.0	909.0	6.6	480.4
07/07/09	0.0	0.0	0.0	0.0	0.0	8.0	92.8	321.5	377.4	543.3	665.0	824.0	868.0	858.0	811.0	675.5	345.0	155.6	83.5	8.6	0.0	0.0	0.0	0.0	868.0	8.0	442.5
07/08/09	0.0	0.0	0.0	0.0	0.0	7.3	91.1	324.1	508.9	672.6	801.0	873.0	891.0	862.0	790.4	668.3	337.7	122.1	84.4	9.0	0.0	0.0	0.0	0.0	891.0	7.3	469.5
07/09/09	0.0	0.0	0.0	0.0	0.0	6.2	89.3	324.8	510.7	677.6	782.5	873.0	900.0	870.0	796.9	618.5	336.2	117.1	85.5	7.6	0.0	0.0	0.0	0.0	900.0	6.2	466.4
07/10/09	0.0	0.0	0.0	0.0	0.0	13.2	115.5	324.0	384.9	706.7	754.0	342.6	897.0	868.0	802.0	683.1	290.8	184.5	108.7	18.0	0.0	0.0	0.0	0.0	897.0	13.2	432.9
07/11/09	0.0	0.0	0.0	0.0	0.0	6.0	71.0	324.2	505.1	666.7	826.0	927.0	932.0	924.0	486.4	575.8	386.1	133.4	86.7	13.0	0.0	0.0	0.0	0.0	932.0	6.0	457.6
07/12/09	0.0	0.0	0.0	0.0	0.0	10.5	102.7	290.7	506.6	680.9	772.5	647.7	860.0	773.8	750.6	677.0	331.4	95.6	76.9	8.7	0.0	0.0	0.0	0.0	860.0	8.7	439.0
07/13/09	0.0	0.0	0.0	0.0	0.0	10.0	78.5	310.4	497.3	665.1	793.4	869.0	893.0	854.0	792.3	651.9	325.5	96.1	74.8	9.3	0.0	0.0	0.0	0.0	893.0	9.3	461.4
07/14/09	0.0	0.0	0.0	0.0	0.0	6.2	81.7	312.6	499.4	669.2	797.9	873.0	896.0	865.0	792.8	666.1	314.0	92.1	70.5	9.0	0.0	0.0	0.0	0.0	896.0	6.2	463.0
07/15/09	0.0	0.0	0.0	0.0	0.0	8.8	78.0	142.4	371.4	563.5	595.6	467.0	583.6	731.4	640.5	355.5	141.9	66.3	28.0	4.3	0.0	0.0	0.0	0.0	731.4	4.3	318.5
07/16/09	0.0	0.0	0.0	0.0	0.0	6.2	32.5	210.2	603.4	659.4	784.2	866.0	875.0	843.0	772.9	541.5	291.8	97.7	81.8	13.3	0.0	0.0	0.0	0.0	875.0	6.2	445.3
07/17/09	0.0	0.0	0.0	0.0	0.0	12.6	88.5	296.7	476.9	655.1	774.2	849.0	874.0	857.0	797.7	685.7	83.7	2.9	1.8	2.6	0.0	0.0	0.0	0.0	874.0	1.8	430.6
07/18/09	0.0	0.0	0.0	0.0	0.0	8.0	64.9	305.7	474.9	596.8	808.0	879.0	598.1	729.9	736.8	663.9	329.0	149.6	19.2	1.1	0.0	0.0	0.0	0.0	879.0	1.1	424.3
07/19/09	0.0	0.0	0.0	0.0	0.0	5.1	62.4	299.3	489.8	660.8	791.2	870.0	894.0	869.0	809.0	672.2	282.7	83.0	53.6	8.4	0.0	0.0	0.0	0.0	894.0	5.1	456.7
07/20/09	0.0	0.0	0.0	0.0	0.0	4.8	57.8	152.4	468.8	661.7	791.0	865.0	887.0	856.0	790.7	650.3	335.8	90.7	38.8	4.3	0.0	0.0	0.0	0.0	887.0	4.3	443.7
07/21/09	0.0	0.0	0.0	0.0	0.0	11.4	47.8	102.7	80.0	69.9	153.5	353.2	667.4	883.0	782.6	650.6	267.3	68.8	51.3	5.2	0.0	0.0	0.0	0.0	883.0	5.2	279.6
07/22/09	0.0	0.0	0.0	0.0	0.0	4.3	85.3	285.8	387.1	504.7	824.0	871.0	898.0	736.0	710.5	441.9	390.7	151.9	46.3	6.2	0.0	0.0	0.0	0.0	898.0	4.3	422.9
07/23/09	0.0	0.0	0.0	0.0	0.0	5.0	44.8	106.5	320.3	561.3	788.9	867.0	932.0	881.0	403.9	402.6	201.4	66.4	51.3	5.7	0.0	0.0	0.0	0.0	932.0	5.0	375.9
07/24/09	0.0	0.0	0.0	0.0	0.0	4.4	40.2	97.8	437.3	505.8	413.6	407.7	754.4	724.7	395.6	482.5	228.3	191.7	61.8	6.5	0.0	0.0	0.0	0.0	754.4	4.4	316.8
07/25/09	0.0	0.0	0.0	0.0	0.0	14.6	70.4	255.3	482.0	634.3	756.4	598.3	167.6	632.8	858.0	506.5	95.3	7.8	8.6	0.9	0.0	0.0	0.0	0.0	858.0	0.9	339.2
07/26/09	0.0	0.0	0.0	0.0	0.0	7.4	35.5	257.9	471.5	638.5	768.2	847.0	873.0	849.0	777.0	649.3	258.9	50.8	53.6	6.5	0.0	0.0	0.0	0.0	873.0	6.5	436.3
07/27/09	0.0	0.0	0.0	0.0	0.0	4.1	68.5	280.6	481.8	650.6	781.9	861.0	885.0	858.0	784.5	657.0	266.0	49.6	55.9	6.2	0.0	0.0	0.0	0.0	885.0	4.1	446.0
07/28/09	0.0	0.0	0.0	0.0	0.0	4.2	68.7	262.9	462.2	646.2	796.8	868.0	892.0	865.0	788.3	660.8	264.5	50.0	60.0	6.2	0.0	0.0	0.0	0.0	892.0	4.2	446.4
07/29/09	0.0	0.0	0.0	0.0	0.0	3.9	70.8	280.4	485.7	655.9	787.8	864.0	888.0	863.0	777.4	554.4	281.8	76.8	62.3	5.9	0.0	0.0	0.0	0.0	888.0	3.9	443.9
07/30/09	0.0	0.0	0.0	0.0	0.0	3.7	70.5	282.8	488.4	655.8	789.2	877.0	903.0	879.0	800.0	677.4	295.2	39.0	38.7	4.9	0.0	0.0	0.0	0.0	903.0	3.7	453.6
07/31/09	0.0	0.0	0.0	0.0	0.0	3.5	66.9	280.3	489.7	665.7	803.0	889.0	917.0	885.0	810.0	679.9	306.4	35.6	34.3	4.6	0.0	0.0	0.0	0.0	917.0	3.5	458.1
Hourly Averages	0.0	0.0	0.0	0.0	0.0	7.0	70.3	253.2	439.7	596.3	723.8	761.0	805.4	825.9	749.2	609.3	293.1	98.4	60.2	7.7	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 932.0 **Minimum Hourly Radiation:** 0.9 **Average Monthly Radiation:** 420.1

Maximum 24-Hour Mean: 480.4 **Minimum 24-Hour Mean:** 279.6

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
08/01/09	0.0	0.0	0.0	0.0	0.0	2.9	63.8	282.7	491.4	664.7	800.0	879.0	903.0	875.0	803.0	673.1	309.4	35.3	45.5	4.7	0.0	0.0	0.0	0.0	903.0	2.9	455.6
08/02/09	0.0	0.0	0.0	0.0	0.0	3.1	40.0	250.2	466.1	486.8	788.8	867.0	894.0	864.0	786.8	656.8	312.4	41.7	48.0	3.4	0.0	0.0	0.0	0.0	894.0	3.1	433.9
08/03/09	0.0	0.0	0.0	0.0	0.0	3.1	54.2	208.8	304.9	383.3	747.8	802.0	875.0	853.0	775.2	648.4	317.9	44.3	50.5	4.7	0.0	0.0	0.0	0.0	875.0	3.1	404.9
08/04/09	0.0	0.0	0.0	0.0	0.0	2.9	54.1	250.3	452.5	621.9	754.7	840.0	869.0	838.0	762.5	634.7	320.0	54.1	54.0	4.6	0.0	0.0	0.0	0.0	869.0	2.9	434.2
08/05/09	0.0	0.0	0.0	0.0	0.0	3.0	51.2	201.6	401.8	645.6	752.1	849.0	876.0	849.0	753.1	628.8	320.9	62.9	76.2	8.7	0.0	0.0	0.0	0.0	876.0	3.0	432.0
08/06/09	0.0	0.0	0.0	0.0	0.0	1.8	48.5	237.2	448.3	615.8	267.3	848.0	891.0	756.9	793.0	633.1	333.4	48.8	44.7	3.9	0.0	0.0	0.0	0.0	891.0	1.8	398.1
08/07/09	0.0	0.0	0.0	0.0	0.0	2.9	57.2	265.7	490.4	666.1	801.0	883.0	914.0	887.0	808.0	679.1	358.2	37.8	34.3	3.2	0.0	0.0	0.0	0.0	914.0	2.9	459.2
08/08/09	0.0	0.0	0.0	0.0	0.0	2.7	59.0	281.6	498.2	672.5	806.0	889.0	916.0	886.0	807.0	673.4	362.5	36.6	35.5	2.8	0.0	0.0	0.0	0.0	916.0	2.7	461.9
08/09/09	0.0	0.0	0.0	0.0	0.0	2.4	53.5	271.3	492.4	674.2	814.0	893.0	918.0	889.0	809.0	672.7	367.0	33.4	37.1	2.6	0.0	0.0	0.0	0.0	918.0	2.4	462.0
08/10/09	0.0	0.0	0.0	0.0	0.0	2.3	49.4	265.5	472.4	653.9	786.9	865.0	892.0	860.0	790.0	659.1	366.2	32.5	36.5	3.4	0.0	0.0	0.0	0.0	892.0	2.3	449.0
08/11/09	0.0	0.0	0.0	0.0	0.0	1.9	41.0	173.5	278.7	574.9	496.6	828.0	797.5	752.6	325.1	475.1	252.0	65.4	27.4	1.3	0.0	0.0	0.0	0.0	828.0	1.3	339.4
08/12/09	0.0	0.0	0.0	0.0	0.0	1.5	39.6	180.2	459.6	636.7	761.0	839.0	859.0	835.0	716.5	439.2	395.3	89.5	44.8	3.0	0.0	0.0	0.0	0.0	859.0	1.5	420.0
08/13/09	0.0	0.0	0.0	0.0	0.0	0.6	24.3	99.6	105.0	201.7	149.9	192.5	144.2	88.9	116.4	113.0	95.3	50.9	13.8	1.0	0.0	0.0	0.0	0.0	201.7	0.6	93.1
08/14/09	0.0	0.0	0.0	0.0	0.0	1.6	41.8	241.7	407.2	626.6	762.4	789.9	749.1	730.0	700.6	533.2	369.6	62.3	30.7	1.7	0.0	0.0	0.0	0.0	789.9	1.6	403.2
08/15/09	0.0	0.0	0.0	0.0	0.0	1.8	41.6	254.7	470.4	645.5	781.4	863.0	891.0	861.0	777.5	640.8	389.5	34.0	26.9	1.7	0.0	0.0	0.0	0.0	891.0	1.7	445.4
08/16/09	0.0	0.0	0.0	0.0	0.0	1.7	40.4	254.4	471.7	649.6	786.2	869.0	899.0	875.0	795.1	661.9	409.0	30.8	28.6	1.5	0.0	0.0	0.0	0.0	899.0	1.5	451.6
08/17/09	0.0	0.0	0.0	0.0	0.0	1.6	40.2	255.4	479.9	659.3	797.2	880.0	907.0	875.0	796.3	653.7	414.7	31.4	31.8	1.3	0.0	0.0	0.0	0.0	907.0	1.3	455.0
08/18/09	0.0	0.0	0.0	0.0	0.0	1.4	36.3	254.6	475.8	651.9	789.7	871.0	890.0	853.0	769.1	633.6	411.4	33.5	30.1	1.1	0.0	0.0	0.0	0.0	890.0	1.1	446.8
08/19/09	0.0	0.0	0.0	0.0	0.0	1.4	37.7	238.3	453.5	630.5	770.9	853.0	881.0	849.0	761.5	628.5	416.0	34.6	32.0	1.1	0.0	0.0	0.0	0.0	881.0	1.1	439.3
08/20/09	0.0	0.0	0.0	0.0	0.0	1.4	37.1	229.0	443.1	619.2	756.0	837.0	862.0	828.0	743.0	604.6	412.7	47.9	34.4	1.0	0.0	0.0	0.0	0.0	862.0	1.0	430.4
08/21/09	0.0	0.0	0.0	0.0	0.0	1.1	44.0	222.1	441.2	616.0	738.5	824.0	560.8	803.0	762.8	315.7	70.1	99.0	13.6	0.3	0.0	0.0	0.0	0.0	824.0	0.3	367.5
08/22/09	0.0	0.0	0.0	0.0	0.0	0.9	24.8	73.4	193.7	327.5	613.9	584.3	341.8	407.9	293.3	227.0	144.7	90.0	23.7	0.5	0.0	0.0	0.0	0.0	613.9	0.5	223.2
08/23/09	0.0	0.0	0.0	0.0	0.0	1.0	34.9	228.4	441.0	612.1	771.5	738.9	927.0	884.0	748.8	617.7	442.0	39.8	30.9	0.5	0.0	0.0	0.0	0.0	927.0	0.5	434.6
08/24/09	0.0	0.0	0.0	0.0	0.0	0.7	39.5	225.9	435.1	608.9	752.3	832.0	742.3	748.1	766.0	561.6	348.5	58.1	35.0	0.4	0.0	0.0	0.0	0.0	832.0	0.4	410.3
08/25/09	0.0	0.0	0.0	0.0	0.0	0.7	37.4	226.3	438.1	612.9	751.5	855.0	955.0	903.0	450.8	354.0	444.3	100.6	34.9	0.4	0.0	0.0	0.0	0.0	955.0	0.4	411.0
08/26/09	0.0	0.0	0.0	0.0	0.0	0.9	36.6	234.3	451.0	629.8	767.8	853.0	885.0	855.0	716.8	618.0	439.5	73.1	34.6	0.4	0.0	0.0	0.0	0.0	885.0	0.4	439.7
08/27/09	0.0	0.0	0.0	0.0	0.0	0.7	39.6	243.3	453.3	630.9	766.5	851.0	711.7	861.0	787.2	626.6	431.1	79.0	32.6	0.3	0.0	0.0	0.0	0.0	861.0	0.3	434.3
08/28/09	0.0	0.0	0.0	0.0	0.0	0.6	33.6	233.1	448.0	624.3	758.7	839.0	866.0	728.2	376.7	503.0	502.8	54.1	15.4	0.2	0.0	0.0	0.0	0.0	866.0	0.2	398.9
08/29/09	0.0	0.0	0.0	0.0	0.0	0.6	33.1	231.5	450.0	628.3	766.6	847.0	871.0	807.0	754.1	645.5	481.3	119.6	41.4	0.2	0.0	0.0	0.0	0.0	871.0	0.2	445.1
08/30/09	0.0	0.0	0.0	0.0	0.0	0.4	35.4	182.5	275.4	610.1	649.2	829.0	794.5	812.0	721.0	574.7	375.4	133.6	65.0	0.2	0.0	0.0	0.0	0.0	829.0	0.2	403.9
08/31/09	0.0	0.0	0.0	0.0	0.0	0.5	34.2	147.2	372.5	514.9	780.8	840.0	726.9	773.0	631.8	289.7	446.7	112.4	17.2	0.0	0.0	0.0	0.0	0.0	840.0	0.0	379.2
Hourly Averages	0.0	0.0	0.0	0.0	0.0	1.6	42.1	224.0	418.1	593.4	718.9	817.1	813.2	796.4	690.3	557.3	356.8	60.2	35.7	1.9	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 955.0 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 408.5

Maximum 24-Hour Mean: 462.0 **Minimum 24-Hour Mean:** 93.1

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
09/01/09	0.0	0.0	0.0	0.0	0.0	0.0	38.1	209.1	416.4	597.1	697.2	803.0	726.0	698.3	657.4	537.1	408.2	111.0	18.7	0.0	0.0	0.0	0.0	0.0	803.0	18.7	455.2
09/02/09	0.0	0.0	0.0	0.0	0.0	0.0	20.5	97.0	411.2	589.8	724.1	809.0	854.0	721.5	706.8	462.0	285.4	100.7	20.0	0.0	0.0	0.0	0.0	0.0	854.0	20.0	446.3
09/03/09	0.0	0.0	0.0	0.0	0.0	0.0	27.2	181.2	405.8	586.1	678.0	795.6	824.0	795.8	704.4	658.5	133.5	14.7	9.2	0.0	0.0	0.0	0.0	0.0	824.0	9.2	447.2
09/04/09	0.0	0.0	0.0	0.0	0.0	0.0	16.7	151.2	418.2	587.1	726.2	798.6	838.0	791.0	721.2	572.7	401.9	182.8	27.4	0.0	0.0	0.0	0.0	0.0	838.0	16.7	479.5
09/05/09	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.9	5.3	14.1	92.8	262.7	553.8	650.5	404.8	446.5	205.2	67.3	12.8	0.0	0.0	0.0	0.0	0.0	650.5	1.9	209.3
09/06/09	0.0	0.0	0.0	0.0	0.0	0.0	38.1	196.2	424.3	616.5	532.5	421.2	651.7	836.0	701.3	564.8	385.5	166.7	60.5	0.0	0.0	0.0	0.0	0.0	836.0	38.1	430.4
09/07/09	0.0	0.0	0.0	0.0	0.0	0.0	18.9	195.9	415.4	588.1	720.4	823.0	877.0	451.2	243.8	212.8	371.9	143.7	10.4	0.0	0.0	0.0	0.0	0.0	877.0	10.4	390.2
09/08/09	0.0	0.0	0.0	0.0	0.0	0.0	17.5	193.4	412.5	586.7	727.4	824.0	879.0	782.0	691.0	375.6	330.0	146.9	31.6	0.0	0.0	0.0	0.0	0.0	879.0	17.5	461.4
09/09/09	0.0	0.0	0.0	0.0	0.0	0.0	13.0	199.5	423.6	596.2	728.1	804.0	824.0	788.8	696.0	571.6	380.8	160.2	13.9	0.0	0.0	0.0	0.0	0.0	824.0	13.0	476.9
09/10/09	0.0	0.0	0.0	0.0	0.0	0.0	12.3	198.2	422.2	595.2	727.7	807.0	860.0	833.0	733.3	608.7	388.7	163.9	15.1	0.0	0.0	0.0	0.0	0.0	860.0	12.3	489.6
09/11/09	0.0	0.0	0.0	0.0	0.0	0.0	14.7	197.5	412.2	589.6	721.6	804.0	667.2	215.5	466.3	214.7	58.6	38.1	10.1	0.0	0.0	0.0	0.0	0.0	804.0	10.1	339.2
09/12/09	0.0	0.0	0.0	0.0	0.0	0.0	16.0	185.6	414.4	588.0	721.0	798.0	819.0	809.0	408.2	563.5	444.6	210.9	25.4	0.0	0.0	0.0	0.0	0.0	819.0	16.0	461.8
09/13/09	0.0	0.0	0.0	0.0	0.0	0.0	15.0	187.0	401.9	576.7	710.7	747.4	884.0	732.0	362.4	595.2	424.3	162.3	12.0	0.0	0.0	0.0	0.0	0.0	884.0	12.0	447.0
09/14/09	0.0	0.0	0.0	0.0	0.0	0.0	14.4	192.2	385.7	572.7	601.0	742.8	744.6	697.7	663.3	556.8	386.7	126.4	10.6	0.0	0.0	0.0	0.0	0.0	744.6	10.6	438.1
09/15/09	0.0	0.0	0.0	0.0	0.0	0.0	11.1	202.5	426.9	601.3	731.8	808.0	831.0	798.0	690.4	545.6	397.1	126.2	11.0	0.0	0.0	0.0	0.0	0.0	831.0	11.0	475.5
09/16/09	0.0	0.0	0.0	0.0	0.0	0.0	10.7	193.3	419.6	594.9	728.9	810.0	825.0	787.7	686.4	549.1	409.9	149.2	11.8	0.0	0.0	0.0	0.0	0.0	825.0	10.7	475.1
09/17/09	0.0	0.0	0.0	0.0	0.0	0.0	12.4	188.8	415.3	589.0	720.7	823.0	846.0	769.5	710.5	354.7	460.1	193.9	11.4	0.0	0.0	0.0	0.0	0.0	846.0	11.4	468.9
09/18/09	0.0	0.0	0.0	0.0	0.0	0.0	10.7	180.5	407.0	579.6	711.6	786.1	803.0	724.8	626.9	352.0	234.2	154.1	22.5	0.0	0.0	0.0	0.0	0.0	803.0	10.7	430.2
09/19/09	0.0	0.0	0.0	0.0	0.0	0.0	11.1	175.4	398.7	573.0	695.0	791.7	518.6	231.7	302.8	451.6	220.5	111.9	6.7	0.0	0.0	0.0	0.0	0.0	791.7	6.7	345.3
09/20/09	0.0	0.0	0.0	0.0	0.0	0.0	11.8	173.2	399.6	566.4	701.7	775.8	797.7	764.8	662.0	518.3	367.1	124.2	7.6	0.0	0.0	0.0	0.0	0.0	797.7	7.6	451.6
09/21/09	0.0	0.0	0.0	0.0	0.0	0.0	11.8	168.7	391.4	567.7	702.3	780.1	798.8	759.0	658.4	517.5	370.4	116.8	6.3	0.0	0.0	0.0	0.0	0.0	798.8	6.3	449.9
09/22/09	0.0	0.0	0.0	0.0	0.0	0.0	11.2	180.4	413.0	592.6	729.1	813.0	836.0	796.3	690.8	543.3	391.1	136.3	7.3	0.0	0.0	0.0	0.0	0.0	836.0	7.3	472.3
09/23/09	0.0	0.0	0.0	0.0	0.0	0.0	12.5	177.3	413.9	597.8	735.6	813.0	828.0	786.6	681.1	530.4	371.4	123.2	6.0	0.0	0.0	0.0	0.0	0.0	828.0	6.0	467.4
09/24/09	0.0	0.0	0.0	0.0	0.0	0.0	10.2	175.2	412.4	591.4	728.3	806.0	821.0	776.6	670.7	524.3	365.4	132.1	5.3	0.0	0.0	0.0	0.0	0.0	821.0	5.3	463.0
09/25/09	0.0	0.0	0.0	0.0	0.0	0.0	9.7	172.0	407.8	587.1	722.5	792.2	812.0	765.8	658.8	511.9	348.1	111.4	4.2	0.0	0.0	0.0	0.0	0.0	812.0	4.2	454.1
09/26/09	0.0	0.0	0.0	0.0	0.0	0.0	9.1	172.0	412.7	590.8	725.8	802.0	816.0	771.4	664.1	514.7	351.1	109.0	3.7	0.0	0.0	0.0	0.0	0.0	816.0	3.7	457.1
09/27/09	0.0	0.0	0.0	0.0	0.0	0.0	9.8	169.8	412.0	592.1	728.9	804.0	819.0	774.3	665.0	511.6	347.3	100.8	2.8	0.0	0.0	0.0	0.0	0.0	819.0	2.8	456.7
09/28/09	0.0	0.0	0.0	0.0	0.0	0.0	10.3	161.3	401.3	580.6	713.3	NAN	803.0	753.3	637.1	455.2	266.2	83.2	2.6	0.0	0.0	0.0	0.0	0.0	803.0	2.6	405.6
09/29/09	0.0	0.0	0.0	0.0	0.0	0.0	8.1	154.7	391.0	566.0	698.5	774.0	792.5	749.2	641.7	492.1	317.7	92.0	2.0	0.0	0.0	0.0	0.0	0.0	792.5	2.0	436.9
09/30/09	0.0	0.0	0.0	0.0	0.0	0.0	20.7	47.6	87.0	193.8	271.3	529.6	820.0	648.7	613.2	360.1	292.9	83.2	2.0	0.0	0.0	0.0	0.0	0.0	820.0	2.0	305.4
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	14.9	169.3	386.0	554.9	671.8	756.9	792.3	715.3	614.0	489.1	337.2	124.8	13.0	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 884.0 **Minimum Hourly Radiation:** 1.9 **Average Monthly Radiation:** 432.9

Maximum 24-Hour Mean: 489.6 **Minimum 24-Hour Mean:** 209.3

Total Number of Observations: 719 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

APPENDIX KC2-H

HOURLY EVAPORATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
07/01/09	0.010	0.008	0.005	0.023	0.015	0.020	0.003	0.000	INV	0.002	0.004	0.043	0.026	0.020	0.036	0.028	0.038	0.051	0.044	0.036	0.050	0.005	0.000	0.005	0.472
07/02/09	0.005	0.000	0.000	0.000	0.003	0.003	0.003	0.000	0.003	INV	0.004	0.001	0.001	0.006	0.024	0.031	0.043	0.056	0.049	0.027	0.040	0.013	0.019	0.015	0.346
07/03/09	0.025	0.010	0.010	0.013	0.013	0.010	0.010	0.003	0.004	0.006	0.016	0.024	0.026	0.036	0.041	0.026	0.051	0.082	0.053	0.046	0.043	0.009	0.010	0.010	0.577
07/04/09	0.010	0.010	0.005	0.005	0.005	0.004	0.000	INV	0.002	0.011	0.034	0.031	0.046	0.049	0.047	0.059	0.059	0.040	0.040	0.038	0.019	0.013	0.010	0.006	0.543
07/05/09	0.023	0.005	0.007	0.005	0.007	0.008	0.005	0.001	0.014	0.012	0.026	0.039	0.064	0.038	INV	0.074	0.064	0.056	0.059	0.052	0.020	0.020	0.013	0.009	0.621
07/06/09	0.013	0.013	0.010	0.008	0.010	0.013	0.008	0.001	0.011	0.011	0.034	0.034	0.056	0.066	0.038	0.079	0.066	0.071	0.054	0.030	0.015	0.010	0.013	0.012	0.676
07/07/09	0.007	0.007	0.008	0.005	0.005	0.007	0.000	INV	0.009	0.005	0.013	0.021	0.034	0.049	0.043	0.071	0.048	0.061	0.033	0.027	0.020	0.015	0.018	0.010	0.516
07/08/09	0.012	0.007	0.005	0.007	0.005	0.007	0.000	0.000	0.006	0.034	0.023	0.044	0.051	0.043	0.051	0.064	0.054	0.046	0.036	0.027	0.038	0.058	0.010	0.010	0.638
07/09/09	0.003	0.005	0.008	0.010	0.002	0.005	0.003	INV	0.001	0.008	0.031	0.026	0.031	0.051	0.072	0.043	0.051	0.033	0.041	0.025	0.013	0.013	0.010	0.005	0.490
07/10/09	0.010	0.005	0.015	0.008	0.008	0.010	INV	0.002	0.004	0.030	0.014	0.041	0.023	0.037	0.041	0.041	0.056	0.071	0.045	0.038	0.021	0.015	0.019	0.017	0.571
07/11/09	0.018	0.020	0.026	0.012	0.012	0.010	0.010	0.035	0.006	0.019	0.015	0.026	0.034	0.054	0.061	0.048	0.071	0.050	0.042	0.033	0.016	0.020	0.015	0.019	0.672
07/12/09	0.018	0.010	0.013	0.012	0.010	0.010	0.003	0.002	0.007	0.007	0.024	0.046	0.061	0.043	0.049	0.061	0.064	0.063	0.048	0.046	0.024	0.015	0.015	0.015	0.666
07/13/09	0.012	0.010	0.007	0.007	0.010	0.007	0.000	INV	0.003	0.017	0.026	0.034	0.026	0.049	0.049	0.061	0.064	0.066	0.040	0.043	0.014	0.012	0.026	0.010	0.593
07/14/09	0.010	0.007	0.010	0.015	0.010	0.007	0.003	INV	0.006	0.009	0.029	0.034	0.054	INV	0.064	0.051	INV	0.050	0.048	0.046	0.024	0.015	0.012	0.013	0.517
07/15/09	0.008	0.013	0.013	0.010	0.007	0.003	0.028	0.005	0.001	0.004	0.013	0.034	INV	0.013	0.033	0.056	0.033	0.039	0.051	0.053	0.033	0.035	0.031	0.008	0.524
07/16/09	0.010	0.010	0.012	0.005	0.007	0.007	0.007	0.011	0.005	0.006	0.029	0.028	0.036	0.044	0.046	0.041	0.066	0.051	0.043	0.073	0.028	0.012	0.013	0.015	0.605
07/17/09	0.015	0.010	0.015	0.013	0.005	0.005	0.006	0.011	0.006	0.011	0.019	0.023	0.031	0.049	0.054	0.064	INV	0.044	0.018	0.012	0.023	0.015	0.018	0.018	0.485
07/18/09	0.020	0.018	0.018	0.007	0.007	0.011	0.013	0.016	0.021	0.016	0.011	0.021	0.059	0.041	0.041	0.048	0.036	0.031	0.000	0.020	0.028	0.013	0.005	0.012	0.513
07/19/09	0.010	0.010	0.015	0.005	0.005	0.008	0.003	0.008	0.001	0.003	0.019	0.020	0.018	0.033	0.051	0.056	0.051	0.061	0.030	0.051	0.017	0.025	0.015	0.031	0.546
07/20/09	0.008	0.013	0.005	0.015	0.010	0.007	0.005	INV	INV	0.007	0.004	0.034	0.038	0.043	0.062	0.064	0.038	0.000	0.052	0.024	0.024	0.007	0.009	0.005	0.474
07/21/09	0.015	0.018	0.005	0.005	0.009	0.005	0.000	INV	0.000	INV	0.008	0.001	0.000	0.001	0.029	0.028	0.026	0.028	0.036	0.027	0.015	0.018	0.007	0.009	0.290
07/22/09	0.017	0.007	0.007	0.007	0.010	0.005	0.003	INV	0.003	0.004	0.004	0.017	0.028	0.036	0.069	0.058	0.069	0.049	0.045	0.017	0.015	0.023	0.010	0.020	0.523
07/23/09	0.025	0.012	0.015	0.005	0.010	0.010	0.005	0.013	0.006	0.001	0.009	0.026	0.039	0.041	0.046	0.040	0.038	0.036	0.035	0.027	0.015	0.031	0.000	0.000	0.485
07/24/09	0.000	0.011	0.021	0.010	0.005	0.003	0.005	0.000	INV	INV	0.000	0.000	0.001	0.021	0.026	0.031	0.018	0.023	0.025	0.020	0.013	0.013	0.010	0.007	0.263
07/25/09	0.005	0.005	0.008	0.008	0.007	0.008	0.008	0.003	0.001	0.011	0.006	0.044	0.000	0.020	0.022	0.024	0.043	0.019	0.009	0.010	0.005	0.008	0.008	0.005	0.287
07/26/09	0.010	0.003	0.005	0.002	0.003	0.003	0.000	INV	INV	0.001	0.001	0.013	0.021	0.033	0.041	0.049	0.044	0.038	0.041	0.022	0.020	0.012	0.010	0.010	0.382
07/27/09	0.007	0.010	0.007	0.008	0.010	0.010	0.003	INV	INV	0.002	0.009	0.018	0.036	0.034	0.049	0.059	0.056	0.038	0.045	0.041	0.019	0.012	0.009	0.015	0.497
07/28/09	0.013	0.010	0.010	0.010	0.010	0.008	0.005	0.001	0.001	0.009	0.026	0.033	0.039	0.064	0.059	0.064	0.064	0.058	0.063	0.038	0.029	0.020	0.014	0.015	0.663
07/29/09	0.015	0.012	0.013	0.010	0.010	0.015	0.005	0.001	0.001	0.016	0.021	0.029	0.049	0.048	0.036	0.051	0.056	0.064	0.041	0.027	0.027	0.025	0.015	0.010	0.597
07/30/09	0.007	0.012	0.010	0.005	0.007	0.018	0.005	0.001	0.002	0.008	0.024	0.036	0.039	0.041	0.051	0.074	0.043	0.054	0.038	0.030	0.017	0.010	0.015	0.013	0.560
07/31/09	0.007	0.018	0.005	0.007	0.005	0.008	0.013	INV	0.007	0.012	0.014	0.031	0.041	0.049	0.054	0.079	0.048	0.046	0.048	0.032	0.014	0.015	0.012	0.012	0.577

Total Evaporation for the month = 16.169

Total Number of Observations: 719 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
08/01/09	0.012	0.015	0.013	0.013	0.015	0.008	0.005	INV	0.006	0.013	0.041	0.024	0.048	0.057	0.056	0.064	0.069	0.056	0.046	0.040	0.012	0.020	0.013	0.013	0.659
08/02/09	0.007	0.010	0.013	0.007	0.008	0.010	0.003	0.013	0.011	0.016	0.014	0.021	0.049	0.036	0.071	0.043	0.061	0.059	0.048	0.032	0.015	0.025	0.018	0.010	0.600
08/03/09	0.018	0.020	0.007	0.008	0.013	0.005	0.010	INV	INV	0.022	0.010	0.023	0.050	0.036	0.054	0.064	0.069	0.074	0.060	0.040	0.011	0.007	0.015	0.018	0.634
08/04/09	0.013	0.018	0.009	0.012	0.012	0.010	0.005	0.001	0.002	0.014	0.026	0.037	0.026	0.049	0.043	0.074	0.056	0.066	0.051	0.030	0.030	0.043	0.041	0.049	0.717
08/05/09	0.000	0.009	0.010	0.010	0.010	0.007	0.007	INV	0.001	0.017	0.021	0.047	0.052	0.049	0.054	0.074	0.066	0.076	0.030	0.041	0.012	0.025	0.017	0.018	0.653
08/06/09	0.013	0.028	0.036	0.007	0.018	0.018	0.018	0.003	0.006	0.011	0.018	0.027	0.044	0.064	0.061	0.064	0.046	0.064	0.058	0.030	0.017	0.009	0.010	0.007	0.677
08/07/09	0.010	0.010	0.007	0.008	0.010	0.005	0.007	0.008	0.006	0.021	0.021	0.029	0.069	0.046	0.059	0.054	0.061	0.048	0.046	0.030	0.012	0.015	0.015	0.012	0.609
08/08/09	0.010	0.007	0.008	0.018	0.008	0.013	0.010	0.006	0.006	0.016	0.026	0.051	0.020	0.038	0.049	0.046	0.051	0.043	0.028	0.025	0.010	0.012	0.013	0.007	0.521
08/09/09	0.013	0.008	0.007	0.008	0.010	0.005	0.005	0.001	0.006	0.008	0.018	0.023	0.039	0.031	0.056	0.048	0.051	0.038	0.033	0.022	0.015	0.012	0.018	0.005	0.480
08/10/09	0.008	0.008	0.005	0.007	0.010	0.010	0.010	0.000	0.001	0.021	0.026	0.010	0.028	0.046	0.056	0.036	0.051	0.033	0.038	0.020	0.005	0.015	0.000	0.008	0.452
08/11/09	0.013	0.010	0.003	0.005	0.005	0.003	0.005	0.000	0.000	0.003	0.005	0.028	0.041	0.048	0.043	0.036	0.036	0.036	0.018	0.013	0.010	0.008	0.005	0.005	0.379
08/12/09	0.005	0.008	0.008	0.008	0.005	0.003	0.008	0.000	INV	0.006	0.017	0.026	0.026	0.023	0.046	0.048	0.066	0.053	0.043	0.043	0.007	0.018	0.015	0.015	0.497
08/13/09	0.010	0.010	0.003	0.005	0.005	0.007	0.000	0.003	0.000	0.000	0.013	0.005	0.011	0.002	0.008	0.005	0.010	0.008	0.005	0.010	0.008	0.008	0.005	0.008	0.149
08/14/09	0.008	0.005	0.008	0.005	0.005	0.008	0.003	INV	INV	0.001	0.006	0.018	0.034	0.023	0.051	0.036	0.041	0.038	0.028	0.020	0.010	0.009	0.008	0.012	0.377
08/15/09	0.008	0.008	0.007	0.008	0.005	0.010	0.005	0.001	0.001	0.013	0.026	0.013	0.031	0.059	0.041	0.056	0.051	0.038	0.035	0.030	0.015	0.007	0.007	0.013	0.488
08/16/09	0.008	0.010	0.010	0.010	0.005	0.020	0.000	0.001	0.001	0.011	0.018	0.031	0.038	0.046	0.051	0.054	0.043	0.028	0.033	0.022	0.018	0.010	0.010	0.008	0.486
08/17/09	0.007	0.008	0.013	0.008	0.008	0.002	0.003	0.001	0.003	0.006	0.016	0.023	0.043	0.036	0.041	0.043	0.033	0.046	0.025	0.020	0.018	0.015	0.010	0.015	0.443
08/18/09	0.005	0.010	0.010	0.005	0.013	0.005	0.008	0.000	INV	INV	0.007	0.023	0.042	0.043	0.059	0.048	0.051	0.054	0.045	0.034	0.014	0.018	0.015	0.007	0.516
08/19/09	0.012	0.010	0.013	0.010	0.009	0.005	0.005	0.006	INV	0.009	0.016	0.024	0.039	0.049	0.041	0.066	0.054	0.048	0.043	0.024	0.015	0.012	0.013	0.010	0.533
08/20/09	0.007	0.005	0.013	0.005	0.005	0.007	0.003	INV	0.002	0.003	0.016	0.029	0.031	0.043	0.059	0.054	0.056	0.056	0.038	0.020	0.012	0.013	0.008	0.010	0.495
08/21/09	0.015	0.010	0.010	0.013	0.008	0.005	0.005	0.001	INV	0.009	0.011	0.024	0.033	0.023	0.044	0.000	0.000	0.013	0.000	0.007	0.000	0.004	0.007	0.005	0.247
08/22/09	0.008	0.005	0.005	0.002	0.008	0.008	0.002	0.000	0.001	INV	INV	0.014	0.010	0.013	0.013	0.013	0.023	0.011	0.017	0.010	0.010	0.005	0.005	0.013	0.196
08/23/09	0.008	0.005	0.005	0.007	0.003	0.005	0.002	INV	INV	0.001	0.006	0.026	0.009	0.031	0.048	0.033	0.059	0.030	0.035	0.020	0.010	0.010	0.005	0.007	0.365
08/24/09	0.010	0.008	0.013	0.013	0.010	0.003	0.008	0.005	INV	0.015	0.014	0.014	0.021	0.024	0.026	0.038	0.048	0.044	0.043	0.024	0.012	0.025	0.020	0.020	0.458
08/25/09	0.018	0.010	0.004	0.008	0.010	0.008	0.010	0.013	0.004	0.002	0.004	0.029	0.027	0.056	0.028	0.044	0.076	0.031	0.040	0.025	0.018	0.019	0.015	0.013	0.512
08/26/09	0.010	0.013	0.009	0.013	0.010	0.008	0.013	0.011	0.004	0.011	0.027	0.014	0.031	0.028	0.041	0.044	0.035	0.059	0.047	0.024	0.015	0.015	0.015	0.010	0.507
08/27/09	0.010	0.015	0.008	0.015	0.010	0.007	0.008	0.004	0.004	0.012	0.014	0.024	0.043	0.046	0.049	0.041	0.074	0.060	-0.051	0.029	0.017	0.028	0.012	0.017	0.598
08/28/09	0.015	0.013	0.028	0.023	0.013	0.031	0.008	0.011	0.026	0.021	0.022	0.043	0.031	0.039	0.035	0.033	0.034	0.050	0.036	0.027	0.030	0.018	0.030	0.025	0.642
08/29/09	0.015	0.008	0.020	0.018	0.015	0.020	0.015	0.011	0.018	0.011	0.016	0.026	0.038	0.041	0.038	0.048	0.041	0.045	0.043	0.017	0.020	0.012	0.018	0.015	0.569
08/30/09	0.013	0.012	0.018	0.010	0.015	0.030	0.008	0.008	0.008	0.004	0.016	0.020	0.028	0.044	0.043	0.041	0.066	0.048	0.043	0.043	0.012	0.018	0.010	0.026	0.584
08/31/09	0.018	0.020	0.010	0.010	0.015	0.008	0.015	0.011	0.003	INV	0.016	0.021	0.034	0.026	0.038	0.055	0.028	0.036	0.036	0.032	0.025	0.019	0.005	0.013	0.494

Total Evaporation for the month = 15.537

Total Number of Observations: 726 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

EVAPORATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Evaporation
09/01/09	0.010	0.009	0.009	0.008	0.008	0.023	0.008	0.003	0.001	0.019	0.011	0.021	0.024	0.029	0.036	0.036	0.041	0.056	0.034	0.014	0.010	0.025	0.010	0.010	0.455
09/02/09	0.010	0.012	0.008	0.009	0.008	0.008	0.007	0.001	INV	0.004	0.007	0.016	0.021	0.046	0.033	0.056	0.035	0.037	0.035	0.022	0.008	0.010	0.025	0.017	0.435
09/03/09	0.010	0.007	0.008	0.005	0.005	0.010	0.010	0.005	0.009	0.006	0.032	0.016	0.039	0.028	0.046	0.051	0.066	INV	0.018	0.018	0.023	0.002	INV	0.000	0.414
09/04/09	0.003	0.005	0.000	0.008	0.005	0.002	0.002	0.000	INV	INV	INV	0.006	0.011	0.026	0.026	0.038	0.038	0.041	0.040	0.035	0.018	0.018	0.025	0.020	0.367
09/05/09	0.010	0.005	0.008	0.010	0.010	0.015	INV	INV	0.003	INV	0.003	0.001	0.002	0.006	0.003	0.008	0.008	0.012	0.008	0.007	0.007	0.005	0.010	0.005	0.146
09/06/09	0.002	0.002	0.005	0.000	0.003	0.003	0.000	INV	INV	INV	0.008	0.018	0.015	0.018	0.034	0.018	0.031	0.030	0.028	0.012	0.012	0.010	0.010	0.020	0.279
09/07/09	0.007	0.008	0.005	0.005	0.010	0.003	0.005	INV	INV	0.001	0.008	0.011	0.031	0.036	0.030	0.015	0.026	0.028	0.028	0.012	0.007	0.008	0.007	0.005	0.296
09/08/09	0.008	0.005	0.002	0.005	0.008	0.005	0.005	INV	INV	INV	0.001	0.011	0.026	0.027	0.040	0.042	0.033	0.042	0.025	0.048	0.024	0.013	0.009	0.015	0.394
09/09/09	0.015	0.005	0.007	0.010	0.007	0.007	0.006	0.001	INV	0.010	0.011	0.022	0.023	0.029	0.038	0.035	0.046	0.041	0.049	0.020	0.014	0.020	0.015	0.005	0.436
09/10/09	0.010	0.010	0.007	0.007	0.005	0.005	0.005	0.001	0.009	0.002	0.007	0.015	0.023	0.051	0.041	0.043	0.051	0.040	0.037	0.027	0.015	0.019	0.009	0.013	0.452
09/11/09	0.018	0.020	0.018	0.026	0.005	0.010	0.026	0.008	0.008	0.009	0.004	0.016	0.021	0.039	0.020	0.034	0.032	0.020	0.020	0.028	0.010	0.020	0.022	0.020	0.454
09/12/09	0.028	0.018	0.010	0.033	0.021	0.031	0.005	0.003	0.006	0.001	0.016	0.019	0.034	0.029	0.033	0.023	0.033	0.052	0.040	0.025	0.017	0.027	0.023	0.012	0.539
09/13/09	0.010	0.015	0.013	0.010	0.010	0.008	0.010	0.006	0.006	0.001	0.008	0.019	0.024	0.031	0.025	0.044	0.045	0.035	0.030	0.036	0.022	0.020	0.017	0.010	0.455
09/14/09	0.008	0.007	0.005	0.003	0.008	0.003	0.005	INV	INV	0.002	0.003	0.016	0.019	0.036	0.039	0.026	0.043	0.038	0.030	0.030	0.012	0.012	0.010	0.010	0.365
09/15/09	0.010	0.007	0.013	0.005	0.007	0.007	0.007	INV	0.002	0.007	0.016	0.024	0.037	0.028	0.033	0.049	0.056	0.032	0.027	0.022	0.017	0.012	0.010	0.015	0.443
09/16/09	0.007	0.008	0.010	0.010	0.010	0.008	0.008	INV	0.002	0.009	0.018	0.021	0.039	0.028	0.046	0.033	0.045	0.038	0.030	0.019	0.015	0.012	0.010	0.015	0.441
09/17/09	0.010	0.013	0.007	0.010	0.008	0.003	0.018	INV	0.022	0.002	0.006	0.010	0.018	0.021	0.024	0.054	0.058	0.032	0.030	0.024	0.036	0.040	0.030	0.036	0.512
09/18/09	0.036	0.020	0.008	0.038	0.018	0.005	0.003	0.011	0.011	0.011	0.012	0.011	0.016	0.019	0.028	0.028	0.017	0.033	0.035	0.016	0.017	0.013	0.020	0.023	0.449
09/19/09	0.015	0.013	0.010	0.018	0.008	0.023	0.005	0.013	0.009	0.005	0.009	0.019	0.021	0.041	0.028	0.029	INV	INV	0.020	0.008	0.015	0.017	0.010	0.013	0.349
09/20/09	0.013	0.008	0.005	0.008	0.015	0.008	0.003	0.003	0.001	0.007	0.006	0.021	0.019	0.031	0.035	0.053	0.048	0.045	0.035	0.012	0.012	0.010	0.010	0.008	0.416
09/21/09	0.010	0.008	0.018	0.007	0.005	0.008	0.010	INV	INV	0.004	0.016	0.013	0.031	0.039	0.039	0.038	0.048	0.043	0.029	0.012	0.017	0.010	0.015	0.013	0.433
09/22/09	0.010	0.011	0.018	0.046	0.046	0.051	0.028	0.026	0.023	0.000	0.039	0.044	0.026	0.026	0.031	0.045	0.051	0.038	0.034	0.041	0.038	0.036	0.046	0.036	0.790
09/23/09	0.005	0.010	0.035	0.054	0.020	0.025	0.015	INV	0.154	0.075	0.006	0.016	0.030	0.024	0.028	0.018	0.031	0.022	0.019	0.030	0.018	0.015	0.017	0.010	0.677
09/24/09	0.013	0.009	0.018	0.013	0.009	0.021	0.013	0.013	0.006	0.032	0.026	0.019	0.024	0.024	0.026	0.028	0.023	0.032	0.019	0.019	0.020	0.022	0.029	0.018	0.476
09/25/09	0.018	0.020	0.020	0.031	0.015	0.015	0.015	0.021	0.003	0.012	0.009	0.012	0.029	0.021	0.026	0.038	0.033	0.042	0.024	0.022	0.014	0.018	0.010	0.010	0.478
09/26/09	0.010	0.013	0.013	0.013	0.013	0.010	0.010	0.003	0.014	0.014	0.017	0.022	0.031	0.036	0.031	0.038	0.031	0.027	0.027	0.020	0.020	0.012	0.012	0.013	0.450
09/27/09	0.018	0.031	0.013	0.010	0.010	0.026	0.016	0.005	0.009	0.011	0.014	0.024	0.033	0.048	0.056	0.051	0.041	0.045	0.024	0.015	0.017	0.015	0.012	0.008	0.552
09/28/09	0.013	0.008	0.007	0.010	0.010	0.008	0.005	0.011	0.014	0.004	0.035	INV	INV	0.036	0.043	0.053	0.038	0.042	0.024	0.020	0.020	0.012	0.017	0.010	0.440
09/29/09	0.009	0.015	0.021	0.015	0.009	0.008	0.018	0.013	0.003	0.006	0.037	0.016	0.044	0.028	0.041	0.043	0.060	0.043	0.024	0.014	0.015	0.010	0.010	0.013	0.515
09/30/09	0.010	0.005	0.010	0.008	0.005	0.005	0.008	0.003	INV	0.003	0.005	0.035	0.012	0.051	0.062	0.055	0.056	0.027	0.026	0.014	0.009	0.009	0.018	0.010	0.446

Total Evaporation for the month = 13.354

Total Number of Observations: 689 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
07/01/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
07/02/09	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
07/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/05/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/13/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.17
07/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
07/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03	0.08
07/24/09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
07/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
07/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/31/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.63

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
08/01/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/05/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/13/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.12
08/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/31/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.12

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2009

PRECIPITATION (inches)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Precipitation
09/01/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/03/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.07	0.01	0.13
09/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/05/09	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
09/06/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/08/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/11/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/13/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/14/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/15/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/19/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/22/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/23/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/25/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/27/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/28/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/30/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.23

Total Number of Observations: 718 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX B

METEOROLOGICAL PERFORMANCE AUDIT REPORT

SEMI-ANNUAL
METEOROLOGICAL AUDIT REPORT
FOR THE
RESOLUTION COPPER MINE MONITORING SITES
SUPERIOR, ARIZONA

October 13, 2009

Prepared for:

Resolution Copper Company
102 Magma Heights
Superior, AZ 85273

Prepared by:

Applied Environmental Consultants, Inc.
1553 W. Elna Rae Street, Suite 101
Tempe, Arizona 85281

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1. INTRODUCTION

This report summarizes the results of a performance audit of two separate monitoring stations, one at the location of the east plant (KC1) and the west plant (KC2), conducted by Applied Environmental Consultants, Inc. (AEC) on September 29, 2009 and September 28, 2009 respectively. The Resolution Mine is located just east of Superior, Arizona in Pinal County as shown in Figure 1.1. The meteorological performance audit was conducted according to the United States Environmental Protection Agency (EPA) guidance documents *Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)*, EPA-450/4-87-007, May 1987, and the EPA *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Versions 2.0,* EPA-454/B-08-002, March 2008.

The ensuing sections of this appendix present the details of the audit and the audit results. Section 2 contains a description of the performance audit procedures, Section 3 contains the audit criteria and the audit results are presented in Section 4.

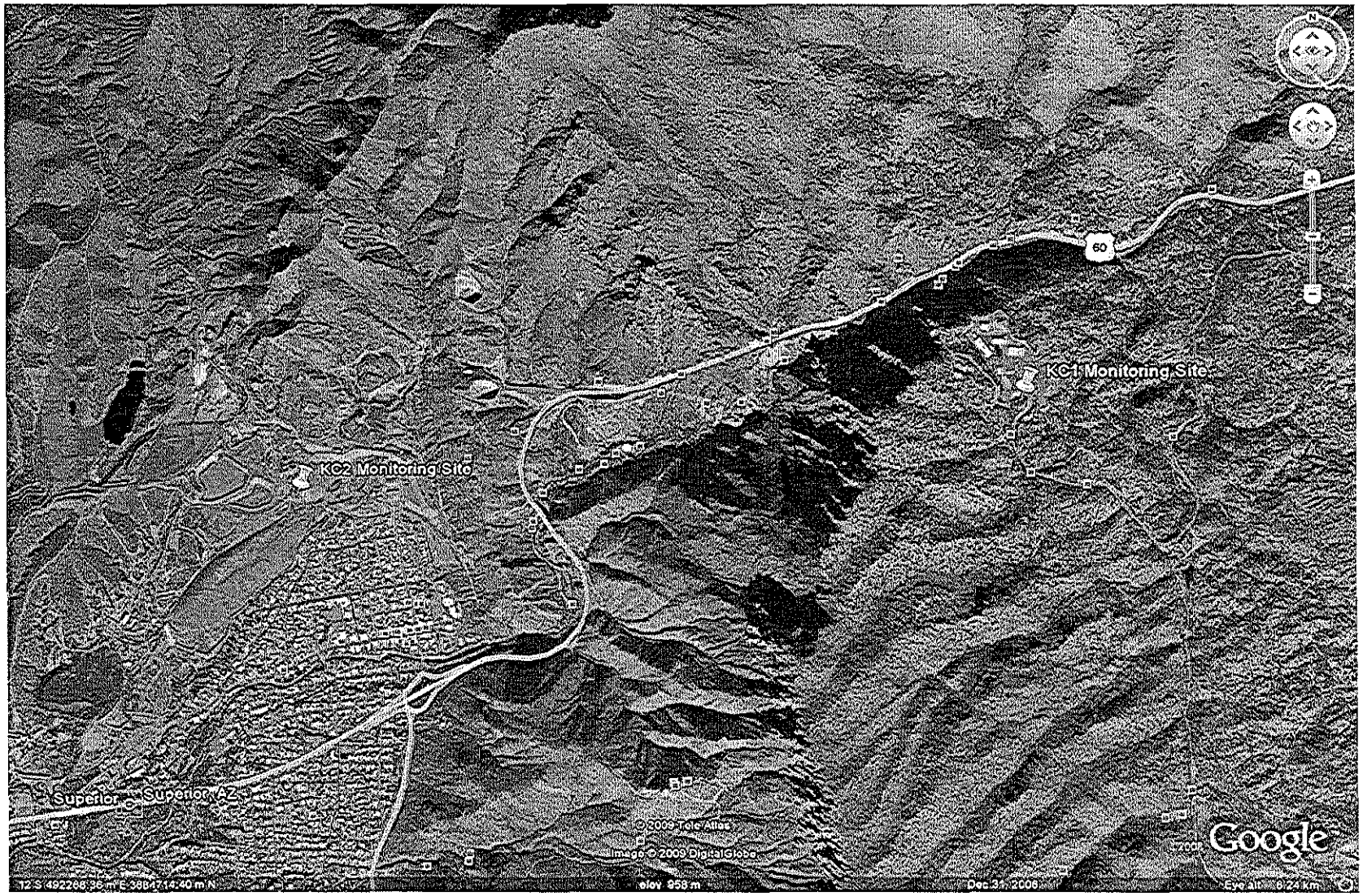


Figure 1.1 Map showing locations of KC1 and KC2 monitoring sites in Pinal County, Arizona.

2. DESCRIPTION OF PERFORMANCE AUDIT PROCEDURES

The meteorological performance audit process included an overall inspection of the monitoring system and physical challenges of the instruments. A complete listing of the audited meteorological equipment is presented in Table 2.1. The following sections describe the audit procedures for each meteorological parameter.

Table 2.1 Monitoring Equipment Evaluated During The Audit

Parameter	Manufacturer	Model Number	Serial Number	
			KC1	KC2
Wind Speed	Met One	014A	A6938	Invisible
Wind Direction	Met One	024A	Invisible	Invisible
Differential Temperature				
2-meter sensor	RM Young	43347-L	15044	15046
10-meter sensor	RM Young	43347-L	15048	15047
Humidity / Temperature	Campbell Scientific	HMP50-L	D2230029	D2230030
Pressure	Campbell Scientific	CS100	3629398	3629397
Solar Radiation	LI-COR	LI200X	Invisible	Invisible
Evaporation	Novalynx	255-100	526	527
Precipitation	Met One	970	Invisible	860-B

2.1 Wind Speed

The wind speed sensor was visually inspected to ensure that it was functional and well maintained. The wind speed sensor was challenged by removing the propeller, attaching an R.M. Young 18802 variable speed anemometer drive to the sensor shaft, and generating simulated audit wind speeds. The sensor response to seven different rates of rotation as recorded by the data acquisition system (DAS) was compared to the simulated wind speeds. The mean absolute error of the sensor responses was then calculated.

The wind speed starting threshold was checked by attaching a Waters Series 366 torque watch to the sensor shaft. Starting torque is related to the sensor starting threshold by a manufacturer supplied relationship. By rotating the torque watch shaft clockwise and counterclockwise, the starting torque can be measured.

2.2 Wind Direction

To evaluate the alignment of the wind direction sensor, the wind vane was pointed toward previously surveyed points and the DAS responses were recorded. These sensor responses were then compared to the known direction and a mean absolute alignment error was calculated. Next, the wind direction sensor was removed from the tower and attached to a R.M. Young 18112 wind direction calibrator to evaluate the sensor's internal response characteristics. The vane was aligned to 12 different directions from 10° to 340° at 30° increments, and the sensor response was recorded. The mean absolute error of the sensor responses was then calculated.

Starting torque for the wind direction sensor was determined by attaching an R.M. Young Vane Torque Gauge, Model 18331 over the center of the wind direction sensor shaft. The threshold torque necessary to start and maintain the movement of the sensor was determined. Several points around the 360° instrument range were tested and compared to the manufacturer's suggested starting torque. Upon completion of the audit, the wind direction sensor was reinstalled and the alignment was rechecked to verify proper alignment with true north.

2.3 Differential Temperature

The differential temperature system being utilized consists of a matched pair of temperature sensors which are placed at 2-meters and 10-meters above the ground. The audit for the two sensors was conducted under two different procedures. First, the 2-meter and 10-meter temperature sensors were audited by immersing both sensors together in water baths of different temperatures (ice, ambient, and upscale) together with an Fisher Scientific NIST-traceable digital thermometer (see Appendix B-EQUIP). For each observation, the bath was stirred to ensure a uniform temperature throughout and the temperature sensors and audit thermometer responses were allowed to stabilize. Five paired measurements were taken and the differences between both the 2-meter and 10-meter sensors and the audit thermometer were averaged for each of the three water baths.

The purpose of the second audit procedure is to verify that both differential temperature sensors have similar readings under varying temperature conditions. Thus, the audit thermometers are used only as a reference to ensure the temperature conditions are similar during the test. The second audit procedure involves immersing the 2-meter temperature sensor in an ambient water bath with an audit thermometer concurrently with immersing the 10-meter temperature sensor and a second audit thermometer in an ice water bath. Both bathes were stirred to ensure uniform temperature. Five measurements for each bath were taken and the differences between the 10-meter and 2-meter temperature sensors were averaged. Then, the 2-meter and 10-meter temperature sensors were placed in opposite baths. Another five measurements for each bath were recorded and the differences between the 10-meter and 2-meter temperature sensors were averaged. Finally, the absolute difference between the average differential temperatures for each bath was then calculated.

2.4 Relative Humidity

The relative humidity sensor was audited by comparison measurements with an EXTECH RH390 at ambient conditions. The RH390 measures relative humidity by a precision capacitance sensor and is

NIST traceable (see Appendix B-EQUIP). The absolute difference between the relative humidity sensors from the psychrometer and the field sensor was determined.

2.5 Temperature

The temperature probe at each location was audited by measuring the ambient air temperatures together with a Fisher Scientific traceable digital thermometer. The Fisher thermometer was previously certified against a NIST-traceable thermometer (see Appendix B-EQUIP). For each observation, the temperature probe and audit thermometer responses were allowed to stabilize. Five paired measurements were taken and the mean absolute differences were calculated.

2.6 Barometric Pressure

The ambient barometric pressure was compared to the barometric pressure as measured by a hand held barometer (70510462) manufactured by Druck Company. Five measurements were taken and the mean absolute difference was determined. The Druck pressure indicator was previously certified to an NIST-traceable pressure standard (see Appendix B-EQUIP).

2.7 Solar Radiation

The solar radiation sensor was audited by comparing the sensor to a reference standard pyranometer (4795) manufactured by Matrix Solar Services Company. Both sensors were connected to the same datalogger for the most accurate performance audits. Five hourly readings were taken and the mean absolute difference was determined. The reference sensor was annually certified by the manufacturer (see Appendix B-EQUIP).

2.8 Evaporation

The Novalynx evaporation gauge was audited by subjecting the gauge to a known volume of water corresponding to 1.00" of water. The water was introduced to the sensor at a nominal rate to preclude splashing from the evaporation pan. The responses recorded by the computer were compared to the 1.00" introduced.

2.9 Precipitation

The Campbell tipping bucket was audited by subjecting the sensor to a known volume of water corresponding to 1.00" of water. The water was introduced to the sensor at a nominal rate to preclude splashing from the tipping bucket. The responses recorded by the computer were compared to the 1.00" introduced.

3. PERFORMANCE AUDIT CRITERIA

The performance audit criteria and applicable EPA references used to evaluate the monitoring system are presented in Table 3.1. All criteria meet or exceed those required by the EPA PSD guidelines and the EPA QA Handbook referenced above.

Table 3.1 Performance Audit Criteria and EPA References

Parameter	Method	Reference	Limit(s)
1. Wind Speed	Active rotation test, starting torque.	EPA QA Handbook (2008), Section 2.7 EPA PSD Guidelines (1987), Section 6.1.1	≤ 0.25 m/s for wind speeds ≤ 5.0 m/s ≤ 5.0% for wind speeds > 5.0 m/s Starting threshold ≤ 0.5 m/s*
2. Wind Direction	Alignment verification, vane bench test, starting torque.	EPA QA Handbook (2008), Section 2.7 EPA PSD Guidelines (1987), Section 6.1.1	± 5° alignment error relative to TRUE north ± 3° sensor error Starting threshold ≤ 0.5 m/s*
3. Differential Temperature	Stable mass comparison with NIST traceable thermometer.	EPA QA Handbook (2008), Section 3.6	± 0.05 °C mean error for same bath ± 0.1 °C mean error for different baths
4. Relative Humidity	Dew point temperature comparison with an aspirated psychrometer	EPA QA Handbook (2008), Section 5.6 EPA PSD Guidelines (1987), Section 6.1.6	Difference in equivalent dew point temperature ≤ -1.5 °C
5. Temperature	Stable mass comparison with NIST traceable thermometer.	EPA QA Handbook (2008), Section 3.6 EPA PSD Guidelines (1987), Section 6.1.5	± 0.5 °C mean error
6. Barometric Pressure	Single-point comparison with NIST-traceable audit barometer.	EPA QA Handbook (2008), Section 7.7	≤ 0.1 in Hg (3 mb) absolute mean error
7. Solar Radiation	Intensity comparison with a reference standard pyranometer.	EPA QA Handbook (2008), Section 6.9 ASTM E 816, E 824	± 5% error
8. Evaporation	Simulated known amounts of evaporation.	National Weather Service Observing Handbook No. 2, Section 5 (1989)	± 10% of known amount
9. Precipitation	Simulated known amounts of precipitation.	EPA QA Handbook (2008), Section 4.5	± 10% of known amount

*For each instrument, a starting torque in gm-cm, equivalent to a ≤ 0.5 m/s starting threshold, is supplied by the manufacturer.

4. AUDIT RESULTS

The results of the performance audit are presented in Appendices B-KC1 and B-KC2, and are summarized in Tables 4.1 and 4.2. All sensors were operating properly and passed the audit.

Table 4.1 KC1 (East Plant) Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.2 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	0.96 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 6.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.0°	Pass
	Sensor = 1.30°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.01 °C	Pass
Relative Humidity	Mean Dew Point Error = -1.5 °C	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.01 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.43 %	Pass
Evaporation	Mean Absolute Percent Error = -2.50 %	Pass
Precipitation	Mean Absolute Percent Error = 1.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

Table 4.2 KC2 (West Plant) Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	0.97 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 6.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.8°	Pass
	Sensor = 0.8°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.01 °C	Pass
Relative Humidity	Mean Dew Point Error = -1.4 °C	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.01 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 1.41 %	Pass
Evaporation	Mean Absolute Percent Error = 3.00 %	Pass
Precipitation	Mean Absolute Percent Error = 5.00 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

APPENDIX B-KC1
PERFORMANCE AUDIT RESULTS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND SPEED SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: A6938
START TIME: 11:00
END TIME: 13:00

MULTIPLIER (rpm to m/s): 0.026662
OFFSET (rpm to m/s): 0.44704
STARTING TORQUE (gm-cm): 0.20
STARTING THRESHOLD LIMIT: 0.28 g-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

SENSOR RESPONSE TEST

Simulated Rotation (rpm)	Simulated Wind Speed (m/s)	Sensor Response (m/s)	Difference (m/s)	Percent Difference (%)*
0	0.00	0.00	0.00	NA
200	5.78	5.65	NA	-2.24
300	8.45	8.45	NA	0.05
400	11.11	11.24	NA	1.15
500	13.78	13.64	NA	-1.00
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.64	NA	-0.29

AUDIT RESULTS

Mean Absolute Difference (WS $\leq$ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	0.96	PASS

* Percent Difference is calculated as 100*(Simulated Wind Speed - Sensor Response)/Sensor Response

Comments:

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND DIRECTION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 11:00
END TIME: 13:00

STARTING TORQUE (gm-cm): 6.0
STARTING THRESHOLD LIMIT: 8.64 gm-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

ALIGNMENT TEST

Known Direction (Deg. TRUE)	AS FOUND Sensor Response (Degrees)	Difference (Degrees)
66.0	65.6	0.4
136.0	137.8	-1.8
280.0	280.4	-0.4
338.0	336.7	1.3

MEAN ABSOLUTE DIFFERENCE: 1.0
RESULTS (PASS/FAIL): PASS

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
67.3	1.3
137.4	1.4
281.8	1.8
338.2	0.2

MEAN ABSOLUTE DIFFERENCE: 1.2
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	9.5	-0.5
40	39.5	-0.5
70	69.9	-0.1
100	100.1	0.1
130	130.6	0.6
160	162.2	2.2
190	192.2	2.2
220	222.6	2.6
250	251.0	1.0
280	281.7	1.7
310	312.3	2.3
340	342.3	2.3

AUDIT RESULTS

Mean Absolute Difference: 1.3 PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 11:20
END TIME: 13:00

REFERENCE THERMOMETER INFORMATION
MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15044
START TIME: 11:20
END TIME: 13:00

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554859
LAST CALIBRATION DATE: 02/23/09

TEST 1: BOTH PROBES IN SAME BATH

COLD TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
0.1	0.1	0.1	0.0	0.0	0.0
0.1	0.1	0.1	0.0	0.0	0.0
0.1	0.1	0.1	0.0	0.0	0.0
0.1	0.1	0.1	0.0	0.0	0.0
0.1	0.1	0.1	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
31.6	31.6	31.7	0.0	0.1	0.1
31.6	31.6	31.7	0.0	0.1	0.1
31.5	31.5	31.5	0.0	0.0	0.0
31.5	31.6	31.6	0.1	0.1	0.0
31.5	31.5	31.5	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.1	0.0
	PASS	PASS	PASS

HOT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
43.0	43.0	43.0	0.0	0.0	0.0
43.0	43.0	43.0	0.0	0.0	0.0
43.0	43.0	43.0	0.0	0.0	0.0
43.0	43.0	43.0	0.0	0.0	0.0
42.8	42.8	42.8	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 11:20
END TIME: 13:00

REFERENCE THERMOMETER INFORMATION
MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15044
START TIME: 11:20
END TIME: 13:00

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554859
LAST CALIBRATION DATE: 02/23/09

TEST 2: PROBES IN DIFFERENT BATHS

AMBIENT AND COLD TEMPERATURE BATHS - FIRST READING

Reference Sensor Ambient (°C)	10 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	2 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
31.1	31.2	0.0	0.0	31.1	31.1
31.1	31.1	0.0	0.1	31.1	31.1
31.1	31.1	0.0	0.0	31.1	31.1
31.1	31.2	0.0	0.1	31.1	31.1
31.1	31.1	0.0	0.1	31.1	31.1

AMBIENT AND COLD TEMPERATURE BATHS - SECOND READING

Reference Sensor Ambient (°C)	2 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	10 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
30.7	30.7	0.0	0.0	30.7	30.7
30.7	30.7	0.0	0.0	30.7	30.7
30.7	30.7	0.0	0.0	30.7	30.7
30.7	30.6	0.0	0.0	30.7	30.6
30.5	30.6	0.0	0.0	30.5	30.5

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	31.1	30.6	0.4	0.01
				PASS

* Represents change in bath temperatures between first reading and second reading based on average reference sensor differences in first reading minus average reference sensor differences in second reading.

** Adjusted for temperature variations that occurred in baths between first and second readings.

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

TEMPERATURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 10:00
END TIME: 10:30

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-B
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	Field Sensor (°C)	Difference (Field - Ref) (°C)
27.6	27.5	-0.1
27.6	27.5	-0.1
27.7	27.6	-0.1
27.7	27.5	-0.2
27.6	27.6	0.0

AUDIT RESULTS

Mean Absolute Difference: 0.1

PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

RELATIVE HUMIDITY SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 9:55
END TIME: 10:35

REFERENCE SENSOR INFORMATION

MAKE: Extech Instrume
MODEL: RH390
SERIAL #: H075361
LAST CALIBRATION DATE: 7/22/2009

DEW POINT TEST

REFERENCE SENSOR

Point Number	Barometric Pressure (in Hg)	Air Temperature (°C)	Wet Bulb Temperature (°C)	Relative Humidity (%)	Dewpoint Temperature (°C)
1	25.82	28.9	14.0	18.21	2.38
2	25.82	29.2	14.5	19.41	3.55
3	25.82	29.4	14.7	19.66	3.86
4	25.82	29.4	14.7	19.63	3.85
5	25.82	29.4	14.3	18.07	2.68

FIELD SENSOR

Point Number	Air Temperature (°C)	Relative Humidity (%)	Dewpoint Temperature (°C)	Difference in Dewpoint (Field - Ref) (°C)
1	28.1	18.6	2.03	-0.35
2	27.9	18.9	2.09	-1.46
3	27.6	18.7	1.70	-2.16
4	27.6	18.4	1.47	-2.38
5	27.6	18.7	1.70	-0.99

AUDIT RESULTS

Mean Difference: -1.5 PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09
START TIME: 15:51
END TIME: 16:15

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

BAROMETRIC PRESSURE SENSOR
MAKE: Campbell Scientific
MODEL: CS100
SERIAL #: 3629398

REFERENCE SENSOR
MAKE: Druck
MODEL: DPI 705
SERIAL #: 70510462
LAST CALIBRATION DATE: 06/03/09

Druck Pressure (in Hg)	Sensor Pressure (in Hg)	Difference Sensor-Ultimeter (in Hg)	Absolute Difference Sensor-Ultimeter (in Hg)
25.82	25.81	-0.01	0.01
25.82	25.81	-0.01	0.01
25.82	25.81	-0.01	0.01
25.82	25.81	-0.01	0.01
25.82	25.81	-0.01	0.01

Mean Absolute Difference: 0.01
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/09
START TIME: 9:00
END TIME: 14:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SOLAR RADIATION SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: Invisible

REFERENCE SENSOR
MAKE: SOL-A-METER
MODEL: Mk 1-G
SERIAL #: 4795
LAST CALIBRATION DATE: 08/15/09

Time (Hourly Ending)	Sol-A-Meter Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
10	571.0	553.1	-17.90	17.90	3.13%
11	691.3	677.9	-13.40	13.40	1.94%
12	777.0	741.6	-35.40	35.40	4.56%
13	786.0	758.0	-28.00	28.00	3.56%
14	742.0	712.7	-29.30	29.30	3.95%

Mean Absolute Difference: 3.43%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Novalynx
MODEL: 255-100
SERIAL #: 526
START TIME: 10:30
END TIME: 13:00

SENSOR CONDITION: Good

EVAPORATION GAUGE VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	30.00	-1	-1.01	0.01	-1.00%
2	30.00	-1	-1.04	0.04	-4.00%
			Mean Difference:	0.03	-2.50%
					PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 9/29/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: Invisible
START TIME: 10:30
END TIME: 13:00

SENSOR CONDITION: Good

PRECIPITATION SENSOR VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	0.946	1.00	0.95	-0.05	-5.00%
2	0.946	1.00	1.08	0.08	8.00%
				Mean Difference:	1.50%
					PASS

APPENDIX B-KC2
PERFORMANCE AUDIT RESULTS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND SPEED SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: Invisible
START TIME: 11:50
END TIME: 14:00

MULTIPLIER (rpm to m/s): 0.026662
OFFSET (rpm to m/s): 0.44704
STARTING TORQUE (gm-cm): 0.10
STARTING THRESHOLD LIMIT: 0.28 g-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

SENSOR RESPONSE TEST

Simulated Rotation (rpm)	Simulated Wind Speed (m/s)	Sensor Response (m/s)	Difference (m/s)	Percent Difference (%)*
0	0.00	0.00	0.00	NA
200	5.78	5.65	NA	-2.24
300	8.45	8.45	NA	0.05
400	11.11	11.24	NA	1.15
500	13.78	13.64	NA	-1.00
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.63	NA	-0.31

AUDIT RESULTS

Mean Absolute Difference (WS $\leq$ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	0.97	PASS

* Percent Difference is calculated as 100*(Simulated Wind Speed - Sensor Response)/Sensor Response

Comments:

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND DIRECTION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 11:50
END TIME: 14:00

STARTING TORQUE (gm-cm): 6.0
STARTING THRESHOLD LIMIT: 8.64 gm-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

ALIGNMENT TEST

Known Direction (Deg. TRUE)	AS FOUND Sensor Response (Degrees)	Difference (Degrees)
31.0	29.2	1.8
205.0	203.4	1.6
239.0	237.9	1.1
329.0	326.1	2.9

MEAN ABSOLUTE DIFFERENCE: 1.8
RESULTS (PASS/FAIL): PASS

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
31.5	0.5
203.6	-1.4
240.1	1.1
329.1	0.1

MEAN ABSOLUTE DIFFERENCE: 0.8
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	11.4	1.4
40	39.0	-1.0
70	68.9	-1.1
100	99.7	-0.3
130	128.9	-1.1
160	161.6	1.6
190	190.8	0.8
220	220.9	0.9
250	250.3	0.3
280	280.5	0.5
310	309.9	-0.1
340	339.6	-0.4

AUDIT RESULTS

Mean Absolute Difference: 0.8 PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15047
START TIME: 12:30
END TIME: 14:00

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
START TIME: 12:30
END TIME: 14:00

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554859
LAST CALIBRATION DATE: 02/23/09

TEST 1: BOTH PROBES IN SAME BATH

COLD TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
29.4	29.5	29.4	0.1	0.0	0.1
29.4	29.5	29.4	0.1	0.0	0.1
29.4	29.4	29.4	0.0	0.0	0.0
29.3	29.3	29.3	0.0	0.0	0.0
29.3	29.3	29.3	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

HOT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
41.4	41.4	41.5	0.0	0.1	0.1
41.4	41.4	41.4	0.0	0.0	0.0
41.4	41.4	41.4	0.0	0.0	0.0
41.3	41.3	41.3	0.0	0.0	0.0
41.3	41.3	41.3	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15047
START TIME: 12:30
END TIME: 14:00

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
START TIME: 12:30
END TIME: 14:00

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554859
LAST CALIBRATION DATE: 02/23/09

TEST 2: PROBES IN DIFFERENT BATHS

AMBIENT AND COLD TEMPERATURE BATHS - FIRST READING

Reference Sensor Ambient (°C)	10 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	2 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
29.1	29.1	0.2	0.2	28.9	28.9
29.0	29.0	0.1	0.1	28.9	28.9
29.0	29.0	0.0	0.0	29.0	29.0
28.9	28.9	0.0	0.0	28.9	28.9
28.9	28.9	0.0	0.0	28.9	28.9

AMBIENT AND COLD TEMPERATURE BATHS - SECOND READING

Reference Sensor Ambient (°C)	2 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	10 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
28.8	28.8	0.0	0.1	28.8	28.7
28.8	28.8	0.1	0.1	28.8	28.7
28.7	28.7	0.1	0.1	28.6	28.7
28.7	28.7	0.1	0.1	28.6	28.7
28.7	28.7	0.1	0.1	28.6	28.6

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	28.9	28.7	0.2	0.01
				PASS

* Represents change in bath temperatures between first reading and second reading based on average reference sensor differences in first reading minus average reference sensor differences in second reading.

** Adjusted for temperature variations that occurred in baths between first and second readings.

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

TEMPERATURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
START TIME: 12:25
END TIME: 13:00

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-B
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/24/09

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	Field Sensor (°C)	Difference (Field - Ref) (°C)
38.3	38.2	-0.1
38.3	38.2	-0.1
38.3	38.1	-0.2
38.3	38.1	-0.2
38.3	38.2	-0.1

AUDIT RESULTS

Mean Absolute Difference: 0.1

PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

RELATIVE HUMIDITY SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
START TIME: 11:45
END TIME: 12:30

REFERENCE SENSOR INFORMATION

MAKE: Extech Instrume
MODEL: RH390
SERIAL #: H075361
LAST CALIBRATION DATE: 7/22/2009

DEW POINT TEST

REFERENCE SENSOR

Point Number	Barometric Pressure (in Hg)	Air Temperature (°C)	Wet Bulb Temperature (°C)	Relative Humidity (%)	Dewpoint Temperature (°C)
1	26.88	38.1	17.4	10.78	2.25
2	26.88	38.5	17.5	10.48	2.15
3	26.89	39.0	17.1	8.73	-0.01
4	26.89	38.9	16.9	8.28	-0.80
5	26.89	38.9	16.9	8.28	-0.80

FIELD SENSOR

Point Number	Air Temperature (°C)	Relative Humidity (%)	Dewpoint Temperature (°C)	Difference in Dewpoint (Field - Ref) (°C)
1	38.4	8.7	-0.50	-2.75
2	38.4	8.6	-0.66	-2.81
3	38.3	8.5	-0.89	-0.88
4	38.1	8.4	-1.20	-0.40
5	38.1	8.4	-1.20	-0.40

AUDIT RESULTS

Mean Difference: -1.4 PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09
START TIME: 11:30
END TIME: 12:15

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

BAROMETRIC PRESSURE SENSOR
MAKE: Campbell Scientific
MODEL: CS100
SERIAL #: 3629397

REFERENCE SENSOR
MAKE: Druck
MODEL: DPI 705
SERIAL #: 70510462
LAST CALIBRATION DATE: 06/03/09

Druck Pressure (in Hg)	Sensor Pressure (in Hg)	Difference Sensor-Ultimeter (in Hg)	Absolute Difference Sensor-Ultimeter (in Hg)
26.89	26.88	-0.01	0.01
26.89	26.88	-0.01	0.01
26.89	26.88	-0.01	0.01
26.89	26.88	-0.01	0.01
26.89	26.88	-0.01	0.01

Mean Absolute Difference: 0.01
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/09
START TIME: 11:00
END TIME: 16:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SOLAR RADIATION SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: Invisible

REFERENCE SENSOR
MAKE: SOL-A-METER
MODEL: Mk 1-G
SERIAL #: 4795
LAST CALIBRATION DATE: 08/15/09

Time (Hourly Ending)	Sol-A-Meter Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
12	702.0	713.3	11.30	11.30	1.61%
13	804.0	803.0	-1.00	1.00	0.12%
14	758.0	753.3	-4.70	4.70	0.62%
15	653.5	637.1	-16.40	16.40	2.51%
16	465.3	455.2	-10.10	10.10	2.17%

Mean Absolute Difference: 1.41%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Novalynx
MODEL: 255-100
SERIAL #: 527
START TIME: 11:00
END TIME: 13:00

SENSOR CONDITION: Good

EVAPORATION GAUGE VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	30.00	-1	-0.96	-0.04	4.00%
2	30.00	-1	-0.98	-0.02	2.00%
			Mean Difference:	-0.03	3.00%
					PASS

APPLIED ENVIRONMENTAL CONSULTANTS, INC.
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 9/28/2009

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: 860-B
START TIME: 11:30
END TIME: 14:00

SENSOR CONDITION: Good

PRECIPITATION SENSOR VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	0.946	1.00	1.05	0.05	5.00%
2	0.946	1.00	1.05	0.05	5.00%
				Mean Difference:	5.00%
					PASS

APPENDIX B-EQUIP
AUDIT EQUIPMENT CALIBRATION INFORMATION

CERTIFICATE OF ACCURACY

REPORT # [illegible] CUSTOMER [illegible] SALES ORDER [illegible]

This is to certify that Data Instruments/Waters Torque Watch Gauge, SN [illegible] has been inspected to ± 10 % of full scale reading and found accurate.

The weight standards used for this calibration are traceable to NIST Report # 42587.

Test Equipment # [illegible] Accuracy of Standard ±1% Calibration Procedure [illegible] Rev. C

TORQUE WATCH GAUGE CALIBRATION CHART
DATA INSTRUMENTS/WATERS
100 DISCOVERY WAY
ACTON, MA 01720

MODEL 31b-5M SERIAL NUMBER [illegible] P.O. # 708-15

CALIBRATED BY [illegible] DATE 8/20/97 APPROVED [illegible]

TEMPERATURE 74 °F RELATIVE HUMIDITY % 50

CALIBRATION POINT IN Oz. In.	ACTUAL WATCH READING	
#	CW	CCW
See Attached Data		

TORQUE WATCH GAUGE WARRANTY

Each Torque Watch Gauge is designed, manufactured and scientifically tested in accordance with the highest standards of good engineering practice and is warranted by the manufacturer to be free of original defects of design, material, and workmanship. It is further warranted that, at the time of manufacture and test, each Torque Watch Gauge was within a specified accuracy tolerance. The liability of the manufacturer is limited to repairing or replacing, at its option, any defective Torque Watch Gauge, or part thereof, that is returned to the manufacturer's plant, transportation charges prepaid, within a period of ninety days from the date of original shipment.

The manufacturer maintains an adequate service facility to handle annual repairs and recalibration of Torque Watch Gauges. Routine repair and recalibration service, subsequent to the expiration of the warranty period, is handled on a flat rate basis per Gauge for Gauges that have not been damaged or abused through negligence and/or altered or repaired outside the manufacturer's plant.

LOW RANGE TORQUE WATCH DIAL SETTINGS vs. OUTPUT OF LOW RANGE STANDARD

MODEL: 166-3M SERIAL NUMBER: 4944 Units = gm cm Accuracy = 10 % FS

Set Dial To	Low Limit	CW Rdg	CCW Rdg	High Limit
0.0	-.01	0.00	0.00	.01
.2	0.00	.18	.08	.40
.4	.20	.35	.32	.60
.6	.40	.54	.54	.80
.8	.60	.74	.72	1.00
1.0	.80	.95	.92	1.20
1.2	1.00	1.19	1.13	1.40
1.4	1.20	1.41	1.32	1.60
1.6	1.40	1.60	1.54	1.80
1.8	1.60	1.80	1.73	2.00
2.0	1.80	1.99	2.01	2.20

Max pos error (% FS) = .5 % at 1.400
Max neg error (% FS) = -5.8 % at .200

Torque Watch is a: PASS

Meteorological Instruments

YOUNG

Certificate of Calibration and Testing

Test Unit:
Model: 18802 Serial Number: CA02198
Description: Anemometer Drive - 200 to 15,000 Rpm
- Comprised of Models 18820A Control Unit & 18830A Motor Assembly

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	27106D Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
300	50	300	300
2700	450	2700	2700
5100	850	5100	5100
7500	1250	7500	7500
10,200	1700	10200	10200
12,600	2100	12600	12600
15,000	2500	15000	15000
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured frequency output of RM Young Model 27106D standard anemometer attached to motor shaft
(2) 27106D produces 10 pulses per revolution of the anemometer shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

Traceable frequency meter used in calibration BK1823

Date of inspection 2/7/01

Tested By [signature]

R.M. YOUNG COMPANY 2801 Aero Park Drive, Traverse City, Michigan 49686 USA
Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com

MILLER & WEBER, INC.
Precision Thermometers
1637 George Street
Ridgewood, NY 11385-5342
(718) 821-7110

MANUFACTURERS CERTIFICATE OF CALIBRATION

This is to certify that the thermometer listed below has been tested in our most modern calibration laboratory against a *National Institute of Standards and Technology certified master standard. All temperatures in this report are based on the International Temperature Scale of 1990 (ITS-90).

Thermometer Description: ASTM 63F 18/89F .2 Degree F

Thermometer Serial No.: 1F9975

READING OF THERMOMETER	STANDARD TEMPERATURE	CORRECTION
20.02	20.00	-0.02
32.00	32.00	0.00
50.00	50.00	0.00
70.00	70.00	0.00
87.98	88.00	0.02

Estimated uncertainties in the above corrections do not exceed 0.05 degree up to 89 degrees F.

If no sign is given on the correction, the true temperature is higher than the indicated temperature. If the sign given is negative, the true temperature is lower than the indicated temperature.

The tabulated corrections apply provided the ice-point reading, taken after exposure for not fewer than three days to a temperature of about 23 degrees C (73 degrees F), is as shown above. If the ice-point reading is found to be higher (or lower) than stated, all other readings will be higher (or lower) by the same amount. If the thermometer is used at a given temperature shortly after being heated to a higher temperature, an error of 0.01 degree or less for each 10 degree difference between the two temperatures may be introduced. These corrections apply if the thermometer is used in its upright position.

NIST Serial No.: 442140 Date Certified: MAY 14, 1991

NIST Report No.: 209621 Certified By: CHARLES J. MILLER

Standard No.: 409815 Approved By: Donald M. Ensley

*(Formerly National Bureau of Standards)

PURCHASED FROM VIC. CHEMICAL (FILTER)

THERMOMETER CALIBRATION LOG

Date: 8/24/2009
Thermometer: Fisher Scientific 21069755
Standard Thermometer: Miller & Weber 1F9975 NIST Traceable (T_S)

T_S (°F)	T_S (°C)	T_X (°C)	T_X-T_S (°C)
32.1	0.1	0.1	0.0
82.3	28.0	28.0	0.0
105.7	41.0	41.1	0.1

Mean Difference 0.1

Regression Equation (°C): $T_X = a+b\ (T_S)$

Intercept (a):	0.03119
Slope (b):	1.00155
Correlation Coefficient:	1.00000

Calibration complies with ISO 9001 ISO/IEC 17025 AND ANSI/NCSL Z540-1

Calibration Certificate No. 1750.01

Cert. No.: 4000-2142234

Traceable® Certificate of Calibration for Digital Thermometer

Instrument Identification:

Applied Environmental, 1553 W. Elna Rae, Attn: Jonathan Marrufo, Tempe, AZ 85281 U.S.A. (RMA:947199)

Model: 15-077-8 S/N: 61554792 Manufacturer : Control Company

Model: 15-077-7 S/N: 61554859

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC191	A79341		
Thermistor Module	A17118	11/08/09	A8B10067
Temperature Probe	3039	11/26/09	A8B11055
Temperature Probe	149	3/06/09	A82225037-3
Thermistor Module	A27129	8/22/09	1000248949
Temperature Calibration Bath TC218	A73332		

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 2/23/09 Cal Due: 2/23/10

Test Conditions: 24.0°C 37.0 %RH 1030 mBar

Calibration Data:

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±uc	TUR
°C	0.001	0.012	Y	0.001	0.000	Y	-0.049	0.051	0.013	3.8:1
°C	25.001	24.988	Y	25.001	25.000	Y	24.951	25.051	0.013	3.8:1
°C	60.001	60.005	Y	60.001	60.004	Y	59.951	60.051	0.018	2.8:1
°C	100.001	100.016	Y	100.001	100.004	Y	99.951	100.051	0.013	3.8:1

This instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±uc=Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = Nominal(Rounded) - Tolerance; Max = Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Wallace Berry

Wallace Berry, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

Extech Instruments Corporation • 285 Bear Hill Road • Waltham, MA 02451-1064

Certificate of Calibration

Certificate Number: 25359
Document Number: 19252

Customer Details:

Customer Name: APPLIED ENVIRONMENTAL CONSULTANTS

Instrument Details:

Manufacturer:	EXTECH INSTRUMENTS	**Calibration Date:**	July 22, 2009
Description:	DIGITAL PSYCHROMETER	**Calibration Due:**	July 22, 2010
Model Number:	RH390	**Cal. Interval:**	12 MONTHS
Serial Number:	H075361	**As Received:**	IN TOLERANCE
Equip. ID Number:	AEC#266		

Environmental Details:

Temperature: 21 Deg. +/- 5 C **Relative Humidity:** 40 %+/- 15 %

Procedures Used:

Calibration Procedure: EICMRH390-CP

Certification

Extech Instruments certifies that the instrument listed above meets the specifications of the manufacturer at the completion of its calibration. Standards used are traceable to the National Institute of Standards and Technology (NIST), or have been derived from accepted values, natural physical constants, or through the use of the ratio method of self-calibration techniques. Methods used are in accordance with ISO 10012-1 and ANSI/NCSL Z540-1-1994. This certificate is not to be reproduced other than in full, except with prior written approval of Extech Instruments Corporation. All the calibration standards used have an accuracy ratio of 4:1 or better, unless otherwise stated.

Technicians Notes:

Technician: DOLORES MURPHY

Approved By:

Phone: 781.890.7440 ext 210 • Fax: 781.890.3957 • E-mail: repair@extech.com • www.extech.com

CALIBRATION CERTIFICATE
PRESSURE RANGE

AS FOUND / AS LEFT DATA

UNIT UNDER TEST (UUT)

Manufacturer	: Druck
Type Number	: DPI 705
Serial Number	: 70510462
Sales Order Number	: 230053
Parameter Range	: 0.5 to 30 psi abs
Calibration Date	: 03 June 2009
Calibrated By	: Florida Martinez

CALIBRATOR INFORMATION

	Calibration Instrument	: Ruska 7010
	Serial Number	: PG-249
(*1)	Calibrated Against	: CS-134 / NIST# 836/261146-99
	Pressure Medium	: Nitrogen
	Uncertainty	: 75ppm

AMBIENT CONDITIONS

Ambient Temperature (°C) : 22.41

PERFORMANCE DATA

Actual Applied Value psi	Unit Under Test Reading psi (*2)	Unit Under Test Deviation (*3)	Permissible Deviation (± 0.1 % fs) (*4)	Pass/ Fail
0.5000	0.502	+0.007 % fs	± 0.1 % fs	Pass
6.0000	6.003	+0.010 % fs	± 0.1 % fs	Pass
12.0000	12.004	+0.013 % fs	± 0.1 % fs	Pass
18.0000	18.004	+0.013 % fs	± 0.1 % fs	Pass
24.0000	24.005	+0.017 % fs	± 0.1 % fs	Pass
30.0000	30.008	+0.027 % fs	± 0.1 % fs	Pass
15.0000	15.004	+0.013 % fs	± 0.1 % fs	Pass
0.5000	0.502	+0.007 % fs	± 0.1 % fs	Pass

COMMENTS

Certified by: Date: 06/10/09

NOTES
(*1) Traceable to NIST. Calibrated in accordance with ISO9000 Quality Standards
(*2) Actual recorded values. For specification, see Permissible Deviation column.
(*3) Deviation calculated from UUT Reading minus Actual Applied Value.
(*4) Non linearity, hysterisis and repeatability.

GE Industrial Sensing, 10311 Westpark Dr., Houston, TX 77042

MATRIX SOLAR SERVICES INC. 537 S. 31ST ST. • MESA, AZ 85204 USA • PH: (480) 832-1380 • FAX: (480) 832-9261 • EMAIL: MATRIXSOLAR@COX.NET

SOL-A-METER CERTIFICATE OF CALIBRATION

PLACE: Mesa, Arizona DATE: August 15, 2009

MODEL: Mk 1-G SERIAL NUMBER: 4795

CALIBRATION CONDITIONS: Sunshine, clear air, no clouds.

Temperature range 94 °F to 105°F.

REFERENCE STANDARD: Thermopile type pyranometer.
PSP Eppley, Serial Number: 15801F3; Coefficient: 6.60 millivolts/langley min.$^{-1}$

COEFFICIENTS:

1. Mk 1-G & Mk 3.....millivolts x 0.0185 =cal/cm^2/min
   millivolts x _____ =watts/meter^2
2. Mk 14E & Mk 18E – Integrator...counts x _____ =cal/cm^2
   counts x _____ =watt-hours/meter^2

   Recorder...millivolts x _____ =cal/cm^2/min
   millivolts x _____ =watts/meter^2

CONVERSION FACTORS:

Cal/cm^2/min x 221.2 = Btu/ft^2/hr^1
Cal/cm^2/min x 1.000 = Langleys/min^1
Cal/cm^2/min x 69.73 = Milliwatts/cm^2
Cal/cm^2 x 1.162 = Milliwatt-hours/cm^2
Cal/cm^2/min x 697.3 = watts/meter^2
Cal/cm x 3.687 = Btu/ft^2
Cal/cm^2 x 1.000 = Langleys
Btu/ft^2/hr x 3.153 = watts/meter^2
Cal/cm^2 x 11.62 = watt-hours/meter^2

REMARKS _____

CERTIFIED BY: Donald Terking

RETAIN THIS CERTIFICATE. Our calibration data is discarded 18 months after the above date and duplicates will not be available thereafter.