Prepared for:
Basin Electric, Inc.
South Dakota

Basin NextGen Project Ambient Air Quality and Meteorological Monitoring Program
Data Report April through June 2008

ENSR Corporation
August 2008
Document No.: 02450-017-701

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August 14, 2008

Mr. Brad Schultz, Senior Scientist
Air Quality Program
South Dakota Department of Environment & Natural Resources
523 East Capitol
Pierre, SD 57501-3182

RE: Quarterly Data Reports – April through June 2008
NextGen Project Ambient Air Quality and Meteorological Monitoring Program

Dear Mr. Schultz:

ENSR is submitting the referenced quarterly report for the Next Gen monitoring program near Gettysburg South Dakota. Enclosed is a copy of the report for the Second Calendar Quarter, April through June 2008. This will be the final quarterly report for this program, which began in April 2007 and will be completed in July 2008.

Please note that the report includes a summary of monitoring data, comparison to standards for air quality, and various appendices that further provide the data and provide quality assurance documentation.

Please review and call or e-mail with any questions.

Regards

Bruce C. Macdonald, Ph.D.
Senior Program Manager

Ref: 02450-017-701
Enclosure

cc: Cris Miller / Basin Electric

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Basin NextGen Project Ambient Air Quality and Meteorological Program Data Report April through June 2008

Prepared By

Reviewed By

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EXECUTIVE SUMMARY

This report provides a summary of the air quality and meteorological monitoring data collected at the Basin NextGen monitoring site near Gettysburg, South Dakota, during the period of April through June 2008. The ambient air quality data measured during this 3 month period were well below the National Ambient Air Quality Standards (NAAQS). Data recovery for each individual air quality parameter was above the Prevention of Significant Deterioration requirement of 80 percent for the quarter. The quarterly air quality data for the monitoring site are summarized below.

Federal air quality standards require that the 4th highest 8-hour ozone (O^3) average over the course of data collection (or 3 years) be calculated and reported. That value, based on data starting April 5, 2007 and running through this reporting period is 57.6 parts per billion (ppb) (113.0 micrograms per cubic meter [$\mu g/m^3$]) occurring on May 1, 2008.

Parameter	Measured Concentration		Standards NAAQS	
	$\mu g/m^3$	ppb	$\mu g/m^3$	ppb
NO_2				
1-hour Maximum	18	9.5	NS[1]	NS
Quarterly Mean	3	1.7	100[2]	50[2]
O_3				
1-hour Maximum	125	63.6	236	120
8-hour Maximum	120	61.3	157	80
SO_2				
1-hour Maximum	7	2.7	NS	NS
3-hour Maximum	7	2.6	1,300	500
24-hour Maximum	4.4	1.7	365	140
Quarterly Mean	1.0	0.4	80[2]	30[2]
PM_{10}[4]				
24-hour Maximum	23.7	NA[3]	150	NA
Quarterly Mean	12.0	NA	50	NA
$PM_{2.5}$				
24-hour Maximum	19.9	NA		NA
Quarterly Mean	4.3	NA		NA

[1]NS = No Standard.
[2]Quarterly mean concentrations are compared to annual NAAQS.
[3]NA = Not Applicable.
[4]PM_{10} values are based upon primary sampler.

NO_2 = nitrogen dioxide.
SO_2 = sulfur dioxide.
PM_{10} = particulate matter with an aerodynamic diameter of 10 microns or less.
$PM_{2.5}$ = particulate matter with an aerodynamic diameter of 2.5 microns or less.

NAAQS Standards ($\mu g/m^3$)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to $\mu g/m^3$			1.88	2.62	2.62	2.62			1.96
ppm to $\mu g/m^3$							1,150	1,150	

CO = carbon monoxide.
ppm = parts per million.

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1.0 Introduction

Basin Electric, Inc. (Basin) is the owner and operator of the proposed Basin NextGen Project located in central South Dakota. In support of the planned construction and installation of power plant sources, including coal-fired boilers, Basin has retained ENSR Corporation (ENSR) to install and operate an ambient air quality and meteorological monitoring station near the proposed project location. The primary objectives of this monitoring study are:

- To fulfill pre-construction air monitoring potentially required under Prevention of Significant Deterioration (PSD) permitting rules at the site of the proposed source;
- To obtain baseline ambient air quality concentrations; and
- To provide a comprehensive on-site database for use in dispersion modeling using AERMOD.

To meet these objectives, a meteorological and air quality monitoring station, equipped with a 100-meter (m) tower was established at the Basin site. The station monitors the following parameters:

- Nitrogen oxides (NO_2, NO, NO_X);
- Sulfur dioxide (SO_2);
- Ozone (O_3);
- Inhalable particulate matter, with an aerodynamic diameter of 10 micrograms or less (PM_{10});
- Inhalable fine particulate matter, with an aerodynamic diameter of 2.5 micrograms or less ($PM_{2.5}$);
- Barometric pressure;
- 100-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 50-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 10-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 2-m temperature, 10-m temperature, 50-m temperature, 100-m temperature; and
- Precipitation, relative humidity, and solar radiation.

Table 1-1 summarizes the monitoring equipment and measurement methods currently in use at the Basin site. The monitoring system, source environment, sampling frequency, quality assurance program, and data management aspects of the monitoring program are described in the monitoring plan.

This report provides summaries of the data collected for April through June 2008. A chronology of project progress and significant events during the quarter is presented in Chapter 2.0. Chapter 3.0 contains a summary of network performance and data retrieval statistics. Chapter 4.0 contains a summary of the air quality data recorded during the period. The meteorological data are presented and discussed in Chapter 5.0. Appendix A contains the formulae used to determine precision, accuracy, and data retrieval statistics. Appendix B contains the unit vector averaging method for wind directions. Appendix C contains information from the quarterly PM_{10} sampler gas and meteorological calibrations performed on April 22 through 24, 2008. Appendix D presents the complete and validated meteorological and air quality monthly data summarized by hour April through June 2008. Appendix E contains a copy of the Air Resource Specialists (ARS) Audit Report.

Table 1-1 Ambient Monitoring Program Equipment and Measurement Methods

Parameter	Manufacturer/Model	Sample Frequency	Range	Method
NO_X, NO_2, NO (~4m)	Thermo Electron Corporation (Thermo) Model 42C	Continuous	0.001 to 0.500 ppm	Chemiluminescent single chamber
O_3 (~4m)	Thermo Model 49C	Continuous	0.002 to 0.500 ppm	Ultraviolet absorption
SO_2 (~4m)	Thermo Model 43C	Continuous	0.001 to 0.500 ppm	Pulsed fluorescent
PM_{10} (~4m)	Tisch TE-6070V volumetric Flow Controlled PM_{10} monitor	Every 6 days	2 to 750 µg/m^3	10 µm size select inlet, high volume filter sample, gravimetric analysis
$PM_{2.5}$	Met One Model 1020 BAM	Continuous		Very sharp cutoff cyclone (FEM)
Multi-gas calibrator	Thermo Model 146C	NA	0 to 100 cc 0 to 10 lpm	Mass flow meters
Ozone Transfer Standard	Thermo Model 49C TS	NA	0.001 to 0.500 ppm	Pulsed fluorescent
Horizontal wind speed 10m, 50m, -100m	Climatronics Model F460	Continuous	0.1 to 100 mph	Cup Anemometer/Photo-chopper
Horizontal wind direction 10m, 50m, -100m	Climatronics Model F460	Continuous	0° to 360°	Vane/Potentiometer
Sigma-theta 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Vertical Wind Speed 10m, 50m, -100m	Climatronics Model 102236-G0	Continuous	-12.5 to +12.5 mph	Propeller Anemometer
Sigma w 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Temperature 2m, 10m, 50m, -100m	Climatronics Model 100093	Continuous	-30°C to 50°C	Aspirated triple-element thermistor
Temperature Difference (10m-2m, 50m-2m, 100m-2m)	Climatronics Model 100093	Continuous	-5° to 10°	Aspirated triple-element thermistor
Solar Radiation (~4m)	Kipp & Zonen Model CMP3	Continuous	0 to 2 langley/min	Thermopile
Precipitation (~4m)	Climatronics Model 100097-1-G0	Event, 1-hour Accumulation	0.01 in to Unlimited	Tipping Bucket
Relative Humidity (2m)	Campbell Scientific, Model HMP 45C-L	Continuous	0 to 100 percent	Hygrometer
Barometric Pressure (~4m)	Climatronics Model 102663-G0-10	Continuous	600 – 1,100 hPascals	Solid State Piezoresistors
Data logger	Campbell Scientific CR23X	1/second	0-1 v	Digital computer

ppm = parts per million
µg/m^3 = micrograms per cubic meter
µm = micrometers
cc = cubic centimeters
lpm = liters per minute
mph = miles per hour
°C = degrees Celsius
v = volts

2.0 Project Progress and Significant Events

Program activities during this quarter were primarily associated with routine operation, maintenance, and calibration checks. The on-site technician visited the station weekly to change PM_{10} filters and to check on air quality instruments. Data management included collection, processing, and validation of data.

The quarterly calibrations for both meteorological and air quality instruments occurred April 22 through 24, 2008.

The quarterly audit for this site was done by ARS on June 11, 2008. No problems were seen and all parameters were within U.S. Environmental Protection Agency (USEPA) specifications.

3.0 Network Performance Summary

The data retrieval statistics for each air quality and meteorological parameter are presented in this chapter along with a brief summary of missing data. Program goals for data capture, as specified by PSD requirements, call for valid data retrieval of 80 percent for air quality parameters on a quarterly basis and 90 percent for meteorological parameters on an annual or 12-month basis.

3.1 Network Data Capture

Continuous air quality and meteorological data capture percentages have been calculated on the basis of the total number of hours of ambient data collected versus the total number of hours in the month. Hours lost to equipment failure, power outage, routine maintenance, calibrations and audits, as well as hours that do not satisfy program goals for accuracy and resolution have been deleted from the dataset in the data validation process. Particulate data percentages have been calculated based on the number of samples collected versus the total number of sampling days.

The data capture rate for each individual air quality parameter was above the PSD requirement of 80 percent for the quarter. The data capture rate for each meteorological parameter was above the PSD requirement for 90 percent annual data recovery. **Table 3-1** provides a summary of network performance by month for the quarter. Additional station specific information is provided below.

3.2 Station Performance

Summaries of the data capture performance for each parameter are presented in **Table 3-1**.

Table 3-1 Data Recovery by Parameter

	Basin Data Recovery by Parameter									Data Recovery for the Quarter		
Channel	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery
	April	April	April	May	May	May	June	June	June	Qtr	Qtr	Qtr
10 WS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
10 WD	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
10 ST	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
50 WS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
50 WD	720	635	88.2%	744	744	100.0%	720	714	99.2%	2184	2093	95.8%
50 ST	720	635	88.2%	744	744	100.0%	720	714	99.2%	2184	2093	95.8%
100 WS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100 WD	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100 ST	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
10 VWS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
50 VWS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100 VWS	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
10 SW	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
50 SW	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100 SW	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
2 mt	720	719	99.9%	744	744	100.0%	720	718	99.7%	2184	2181	99.9%
10 mt	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
50 mt	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100 mt	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
10-2 dt	720	692	96.1%	744	744	100.0%	720	713	99.0%	2184	2149	98.4%
50-10 dt	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
100-50 dt	720	692	96.1%	744	744	100.0%	720	714	99.2%	2184	2150	98.4%
RH percent	720	720	100.0%	744	744	100.0%	720	719	99.9%	2184	2183	100.0%
Sol w/m^2	720	720	100.0%	744	744	100.0%	720	718	99.7%	2184	2182	99.9%
Precip.	720	718	99.7%	744	744	100.0%	720	720	100.0%	2184	2182	99.9%
Pressure	720	720	100.0%	744	744	100.0%	720	720	100.0%	2184	2184	100.0%
SO_2	720	661	91.8%	744	700	94.1%	720	671	93.2%	2184	2032	93.0%
NO	720	661	91.8%	744	702	94.4%	720	671	93.2%	2184	2034	93.1%
NO_x	720	661	91.8%	744	702	94.4%	720	671	93.2%	2184	2034	93.1%
NO_2	720	661	91.8%	744	702	94.4%	720	671	93.2%	2184	2034	93.1%
O^3	720	668	92.8%	744	708	95.2%	720	677	94.0%	2184	2053	94.0%
Stn T	720	720	100.0%	744	744	100.0%	720	720	100.0%	2184	2184	100.0%
PM_{10}*	5	5	100.0%	5	5	100.0%	5	5	100.0%	15	15	100.0%

PM_{10} recovery values are based on the Primary sampler.

4.0 Air Quality Data Summary

This chapter provides a summary of the air quality data collected for the Basin NextGen monitoring network for April through June 2008.

4.1 Continuous Air Quality Data

A summary of the air quality data, including a comparison of the data to the applicable federal and state ambient air quality standards, is presented in **Tables 4-1** and **4-2**. Additional data summary and discussion are provided later in this chapter. Listings of the individual hourly air quality data summarized in this chapter are provided in Appendix D.

Table 4-1 Basin NextGen Continuous Air Quality Monitoring Data Summary

Parameter		April		May		June		Quarter	
		µg/m³	ppb	µg/m³	ppb	µg/m³	ppb	µg/m³	ppb
NO_2	Average	3	1.5	4	1.9	3	1.6	3	2
	1-hour Maximum	8	4.5	13	6.7	18	9.5	18	10
SO_2	Average	2.6	1.0	0.3	0.1	0.3	0.1	1.0	0.4
	1-hour Maximum	7.1	2.7	6.3	2.4	4.4	1.7	7.1	2.7
	3-hour Maximum	6.8	2.6	3.7	1.4	2.9	1.1	6.8	2.6
	24-hour Maximum	4.4	1.7	1.0	0.4	0.8	0.3	4.4	1.7
O_3	Average	81	41.2	73	37.3	70	35.5	75	38
	1-hour Maximum	119	60.8	125	63.6	120	61.0	125	64
	8-hour Maximum	113	57.6	120	61.3	113	57.6	120	61

ppb = parts per billion.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

NAAQS = National Ambient Air Quality Standards.

Table 4-2 Comparison of Basin NextGen – Air Quality Monitoring Data to NAAQS April through June 2008

Parameter	Measured Concentration		Standards NAAQS	
	µg/m³	ppb	µg/m³	ppb
NO_2				
1-hour Maximum	18	9.5	NS[1]	NS
Quarterly Mean	3	1.7	100[2]	50[2]
O_3				
1-hour Maximum	125	63.6	236	120
8-hour Maximum	120	61.3	157	82
SO_2				
1-hour Maximum	7	2.7	NS	NS
3-hour Maximum	7	2.6	1,300	500
24-hour Maximum	4.4	1.7	365	140
Quarterly Mean	1.0	0.4	80[3]	30[3]
PM_{10}				
24-hour Maximum	23.7	NA[4]	150	NA
Quarterly Mean	12.0	NA	50	NA
$PM_{2.5}$				
24-hour Maximum	19.9	NA		NA
Quarterly Mean	4.3	NA		NA

[1]NAAQS are equivalent.
[2]NS = No Standard.
[3]Quarterly mean concentrations are compared to annual NAAQS.
[4]NA = Not Applicable.
PM_{10} values are based upon primary sampler.

$PM_{2.5}$ = particulate matter with an aerodynamic diameter of 10 microns or less.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average			100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

Table 4-3 NO_2 Summary

	NO_2 Monthly Average ppb	NO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	Hours of QA/QC Data	Hours Of Data Possible	Data Capture Percent
Jan-08	1.6	7.3	01/01/08	703	744	94.5%
Feb-08	1.9	5.8	02/12/08	659	696	94.7%
Mar-08	1.4	9.9	03/31/08	690	744	92.7%
Apr-08	1.5	4.5	04/16/08	661	720	91.8%
May-08	1.9	6.7	05/30/08	702	744	94.4%
Jun-08	1.6	9.5	06/20/08	671	720	93.2%

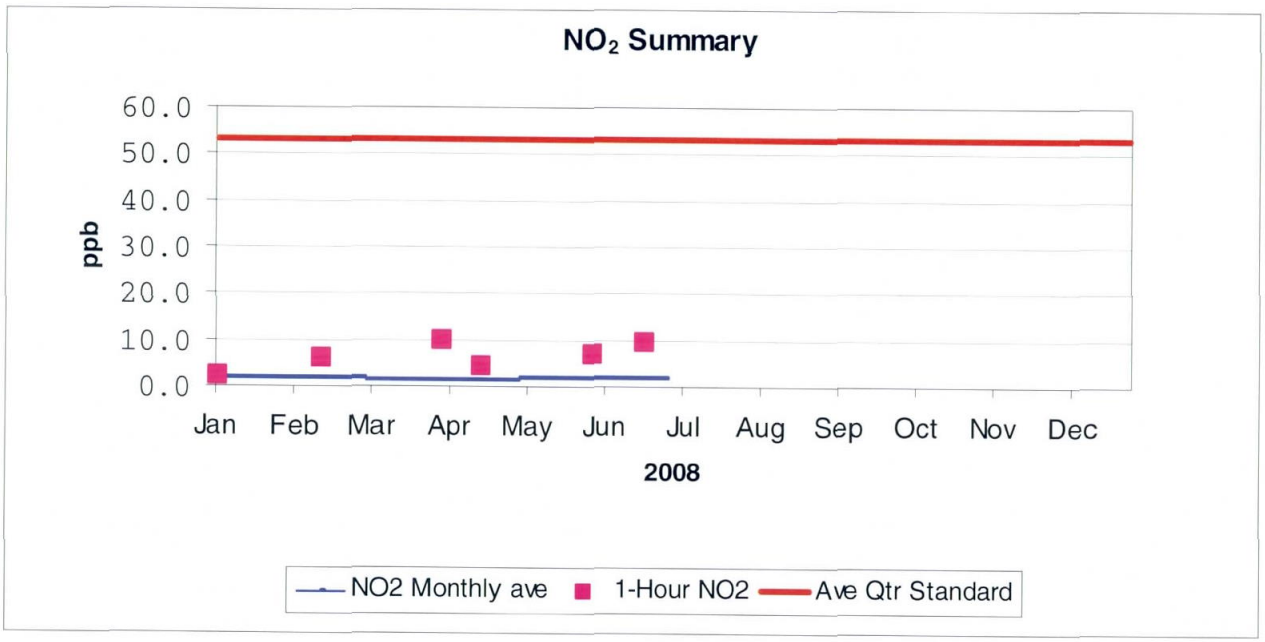

Figure 4-1 NO_2 Summary

NAAQS standards for NO_2 are: 53 ppb (~100 µg/m^3) annual average.

Note: ppb NO_2 to µg/m^3 conversion = 1.88.

Table 4-4 SO_2 Summary

	SO_2 Monthly Average ppb	SO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	SO_2 3-Hour Max ppb	SO_2 24-hour Max ppb	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	0.4	4.7	01/21/08	3.1	1.3	638	744	85.8%
Feb-08	0.9	4.3	02/18/08	3.8	1.8	659	696	94.7%
Mar-08	1.1	3.3	03/11/08	2.5	1.5	683	744	91.8%
Apr-08	1.0	2.7	04/16/08	2.6	1.7	661	720	91.8%
May-08	0.1	2.4	05/12/08	1.4	0.1	700	744	94.1%
Jun-08	0.1	1.7	06/10/08	1.1	0.3	671	720	93.2%

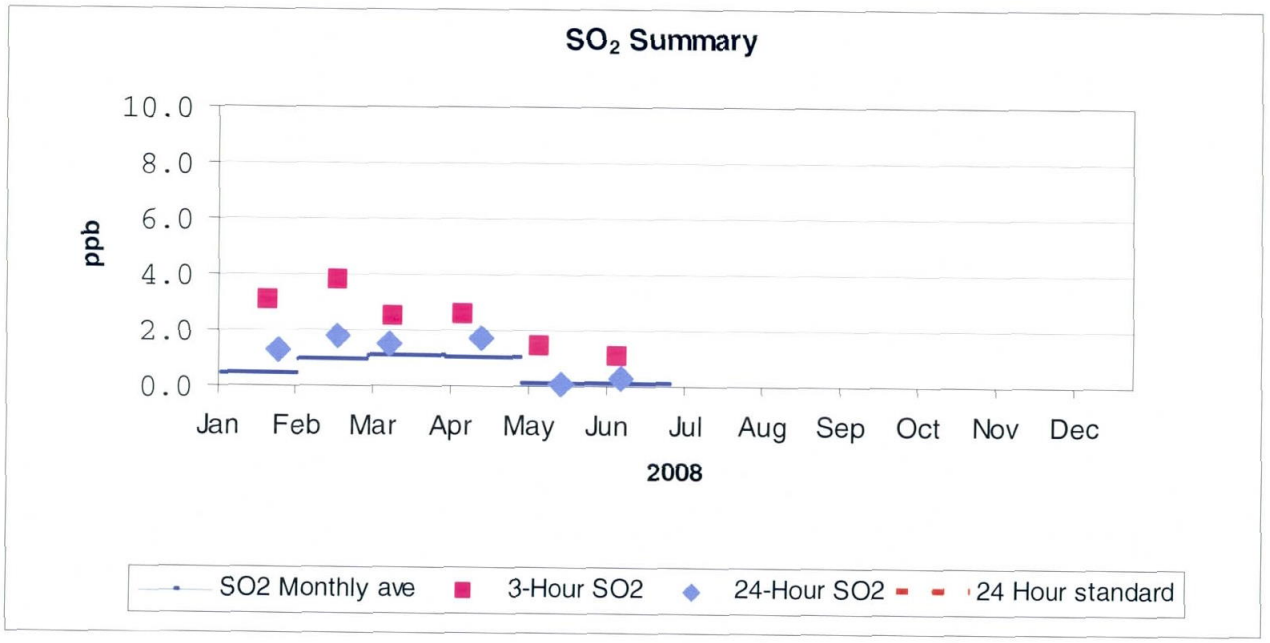

Figure 4-2 SO_2 Summary

NAAQS standards for SO_2 are: 139 ppb (365 µg/m^3) 24-hour average and 30 ppb (80 µg/m^3) annual average.

Note: ppb SO_2 to µg/m^3 conversion = 2.62.

Table 4-5 O_3 Summary

	O_3 Monthly Average ppb	O_3 1-Hour Max ppb	Date 1-Hour Max Occurred	O_3 8-Hour Max ppb	Date 8-Hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	27.0	46.6	01/02/08	40.6	01/26/08	643	744	86.4%
Feb-08	30.7	47.9	02/20/08	40.9	02/24/08	663	696	95.3%
Mar-08	34.9	49.9	03/27/08	47.2	03/18/08	693	744	93.1%
Apr-08	41.2	60.8	04/30/08	57.6	04/30/08	668	720	92.8%
May-08	37.3	63.6	05/05/08	61.3	05/05/08	708	744	95.2%
Jun-08	35.5	61.0	06/01/08	57.6	06/01/08	677	720	94.0%

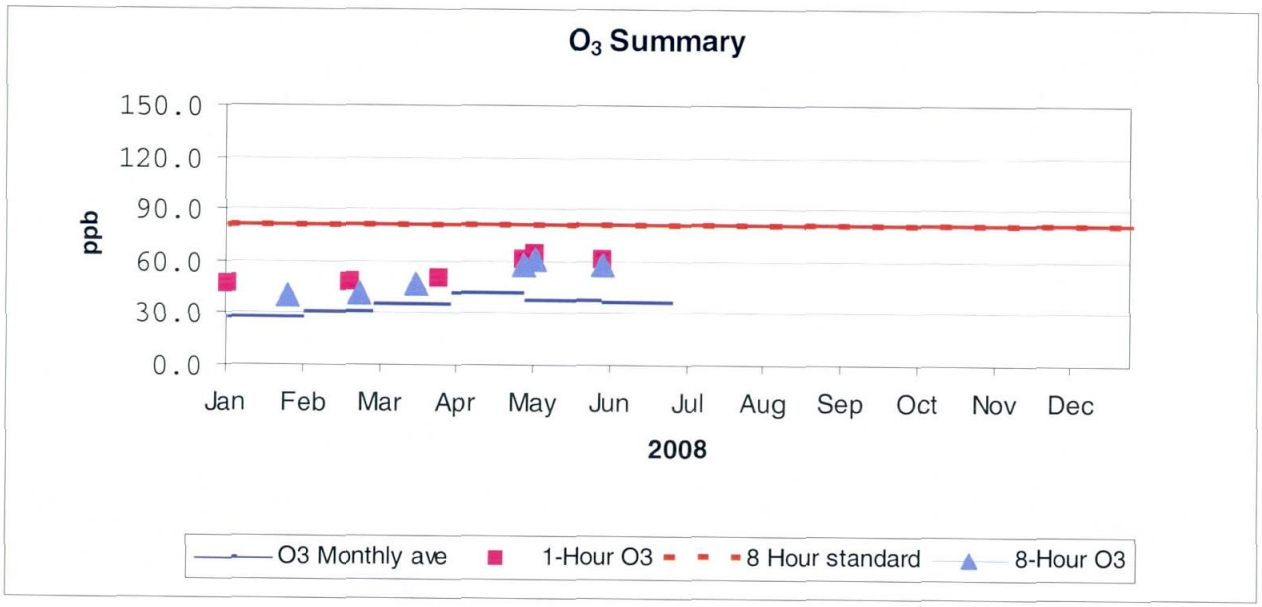

Figure 4-3 O_3 Summary

NAAQS standards for O_3 are: 120 ppb (235 µg/m^3) 1-hour standard and 80 ppb (157 µg/m^3) 8-hour standard

Note: ppb O_3 to µg/m^3 conversion = 1.96.

4.1.1 Continuous Analyzer Precision Statistics

Table 4-6 provides the precision probability intervals for each continuous analyzer. The table presents statistics based on the number of precision checks (N) conducted for each continuous analyzer from April through June 2008. The average percentage difference (dj) between the designated (known) input concentration and the observed (indicated) analyzer response was computed along with the standard deviation (Sj), and upper and lower 95 percent probability limits, using equations defined in Appendix A.

Table 4-6 Continuous Analyzer Precision Statistics – April through June 2008

Analyzer	N	Average Percent Difference (d_i)	Standard Deviation (S_i)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
SO_2	6	-1.2	1.2	1.2	-3.5
NO_2	6	0.9	0.8	2.5	-0.7
NO	6	-2.7	1.7	0.6	-6.0
O_3	6	-1.7	2.2	2.6	-6.0

4.1.2 Continuous Analyzer Accuracy Statistics

Accuracy statistics for the period April through June 2008 were determined from the quarterly network performance quality assurance audit, conducted by ARS on June 11, 2008. During the audit, the air quality analyzers were challenged with three known concentrations spanning the operational range of the instruments. **Table 4-7** provides a summary of the accuracy statistics, defined as the percent difference between the audit input and the analyzer response. A negative value indicates the analyzer was reading low, and a positive value indicates the analyzer was reading high.

Table 4-7 Continuous Analyzer Accuracy Statistics – April through June 2008

Date	Analyzer	Parameter	Accuracy (Percent)[1]		
			30 – 80 ppb	150 - 200 ppb	400 - 450 ppb
June 11, 2008	TEI 42 SN: 70181-365	NO_X[1] NO[1] NO_2[1]	2.0 2.7 -2.2	1.5 2.2 3.3	1.5 1.9 2.6
June 11, 2008	TEI 43A SN: 29727-236	SO_2	-0.3	2.0	2.5
June 11, 2008	TEI 49 SN: 051781-2012	O_3	3.5	1.8	0.5

[1]Project accuracy goal ±10 percent of audit input. USEPA accuracy goal ±15 percent.

4.2 Particulate Data (PM_{10})

The measured inhalable particulate (PM_{10}) 24-hour average concentrations were well below the NAAQS standard of 150 µg/m^3. **Table 4-8** provides a summary of PM_{10} values and the quarterly means. **Table 4-9** shows each PM_{10} sample results including data weight, concentration, initial flow, final flow, and elapsed time.

Table 4-8 24-hour Particulate Data Summary April 6 through June 29, 2008

	PM_{10} (µg/m^3)	
Date	**Primary**	**Collocated**
April 6, 2008	7.0	5.9
April 12, 2008	3.8	4.1
April 18, 2008	7.6	7.7
April 24, 2008	7.1	7.9
April 30, 2008	23.7	23.4
May 6, 2008	15.6	14.8
May 12, 2008	9.0	8.4
May 18, 2008	22.6	23.0
May 24, 2008	10.5	10.5
May 30, 2008	9.3	9.4
June 5, 2008	8.4	8.3
June 11, 2008	6.8	6.3
June 17, 2008	16.3	15.5
June 23, 2008	13.7	12.3
June 29, 2008	18.0	17.0
Quarterly Arithmetic Mean	**12.0**	**11.6**

These values are based on SCFM.

Table 4-9 PM_{10} Sampler Monitoring Data

Date	Unit Designation	Filter Number	Standard ($\mu g/m^3$)	Delta Weight (g)	Initial Flow SCFM	Initial Flow ACFM	Final Flow SCFM	Final Flow ACFM	Time (min)	Comments
04/06/08	PM_{10} (Primary)	000130	**7.0**	0.0110	39.1	38.5	39.2	38.5	1413.0	
04/06/08	PM_{10} (Collocated)	000131	**5.9**	0.0093	38.9	38.3	39.0	38.4	1426.2	
04/12/08	PM_{10} (Primary)	000132	**3.8**	0.0060	39.1	38.4	38.9	38.3	1413.0	
04/12/08	PM_{10} (Collocated)	000133	**4.1**	0.0064	39.0	38.4	38.9	38.2	1426.2	
04/18/08	PM_{10} (Primary)	000134	**7.6**	0.0119	38.9	38.2	38.9	38.3	1412.4	
04/18/08	PM_{10} (Collocated)	000135	**7.7**	0.0122	38.9	38.3	39.0	38.3	1427.4	
04/24/08	PM_{10} (Primary)	000136	**7.1**	0.0114	39.6	38.9	39.6	39.0	1426.2	
04/24/08	PM_{10} (Collocated)	000137	**7.9**	0.0126	39.3	38.7	39.4	38.7	1425.6	
04/30/08	PM_{10} (Primary)	000138	**23.7**	0.0375	39.6	39.0	39.5	38.9	1413.0	
04/30/08	PM_{10} (Collocated)	000139	**23.4**	0.0372	39.5	38.9	39.4	38.8	1425.6	
05/06/08	PM_{10} (Primary)	000140	**15.6**	0.0247	39.5	38.9	39.6	39.0	1412.4	
05/06/08	PM_{10} (Collocated)	000141	**14.8**	0.0235	39.3	38.7	39.4	38.7	1426.8	
05/12/08	PM_{10} (Primary)	000142	**9.0**	0.0142	39.6	39.0	39.5	38.9	1414.2	
05/12/08	PM_{10} (Collocated)	000143	**8.4**	0.0134	39.4	38.8	39.3	38.7	1424.4	
05/18/08	PM_{10} (Primary)	000144	**22.6**	0.0358	39.5	38.9	39.5	38.8	1414.8	
05/18/08	PM_{10} (Collocated)	000145	**23.0**	0.0369	39.7	39.1	39.7	39.0	1426.2	
05/24/08	PM_{10} (Primary)	000146	**10.5**	0.0168	40.1	39.4	40.0	39.4	1413.0	
05/24/08	PM_{10} (Collocated)	000147	**10.5**	0.0169	39.7	39.1	39.7	39.1	1426.2	
05/30/08	PM_{10} (Primary)	000148	**9.3**	0.0148	40.0	39.4	39.9	39.3	1411.8	
05/30/08	PM_{10} (Collocated)	000149	**9.4**	0.0151	39.8	39.2	39.7	39.1	1429.2	
06/05/08	PM_{10} (Primary)	000150	**8.4**	0.0134	39.9	39.3	40.0	39.3	1410.6	
06/05/08	PM_{10} (Collocated)	000151	**8.3**	0.0133	39.7	39.1	39.8	39.1	1425.6	
06/11/08	PM_{10} (Primary)	000152	**6.8**	0.0110	40.0	39.4	40.0	39.4	1430.4	
06/11/08	PM_{10} (Collocated)	000153	**6.3**	0.0102	39.8	39.1	39.7	39.1	1449.6	
06/17/08	PM_{10} (Primary)	000154	**16.3**	0.0261	40.2	39.5	39.9	39.2	1411.2	
06/17/08	PM_{10} (Collocated)	000155	**15.5**	0.0248	39.8	39.1	39.7	39.0	1425.6	
06/23/08	PM_{10} (Primary)	000156	**13.7**	0.0219	39.9	39.3	39.9	39.3	1414.8	
06/23/08	PM_{10} (Collocated)	000157	**12.3**	0.0197	39.6	39.0	39.6	39.0	1425.6	
06/29/08	PM_{10} (Primary)	000158	**18.0**	0.0288	40.0	39.3	39.8	39.2	1414.8	
06/29/08	PM_{10} (Collocated)	000159	**17.0**	0.0273	39.7	39.1	39.6	38.9	1427.4	

Validated By RLT 7/28/08

Analyst DH 7/28/08

NAAQS PM_{10} 24 hr Standard: 150 $\mu g/m^3$ Annual standard 50 $\mu g/m^3$ (arithmetic mean)

4.2.1 Hi-vol Precision and Accuracy Statistics

Table 4-10 presents the precision statistics for the collocated PM_{10} sampler for the quarter. **Table 4-11** presents the accuracy statistics for the period, which were determined from the quality assurance audit conducted June 11, 2008. All samplers were found to be operating within the ±7 percent accuracy goal when compared to the auditor's reference flow standard.

Table 4-10 Hi-vol Precision – April through June 2008

N	Average Percent Difference (d_i)	Standard Deviation (S_i)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
4	0.0	4.6	8.9	-8.9

Table 4-11 Hi-vol Accuracy – April through June 2008

Date	Station/ Sampler	Parameter	Units	Accuracy[1] (%)
June 11, 2008	#1	PM_{10}	ACFM	-1.7
June 11, 2008	#2	PM_{10}	ACFM	-1.3

[1]Values given for accuracy are the percent difference between the flow rate determined with the audit standard and that reported by the station flow rate indicator and calibration curve. Accuracy goal is ±7 percent.

4.3 Particulate Data – $PM_{2.5}$

Particulate matter with aerodynamic diameter less than 2.5 µm are tested using a Met One, BAM Model 1020, $PM_{2.5}$ particulate sampler. This instrument is equipped with a VSCC head to achieve the FEM to generate hourly $PM_{2.5}$ concentrations using a fiber tape and internal $carbon_{14}$ radiation source.

Table 4-12 is a $PM_{2.5}$ data summary and **Figure 4-4** is a graphic presentation of 24-hour average $PM_{2.5}$ data with the concurrent 6-day PM_{10} 24-hour primary sample results.

Table 4-12 $PM_{2.5}$ Data Summary (µg/m^3)

	BAM #1 (Primary)		BAM #2 (Collocated)	
	$PM_{2.5}$ Monthly Ave	$PM_{2.5}$ 24-hour Max	$PM_{2.5}$ Monthly Ave	$PM_{2.5}$ 24-hour Max
January 2008	3.0	8.6	1.7	6.5
February 2008	4.2	12.4	3.1	12.6
March 2008	3.8	9.5	2.5	8.5
April 2008	4.7	10.7	3.0	10.3
May 2008	5.1	19.9	4.8	20.5
June 2008	3.2	10.4	3.8	9.5

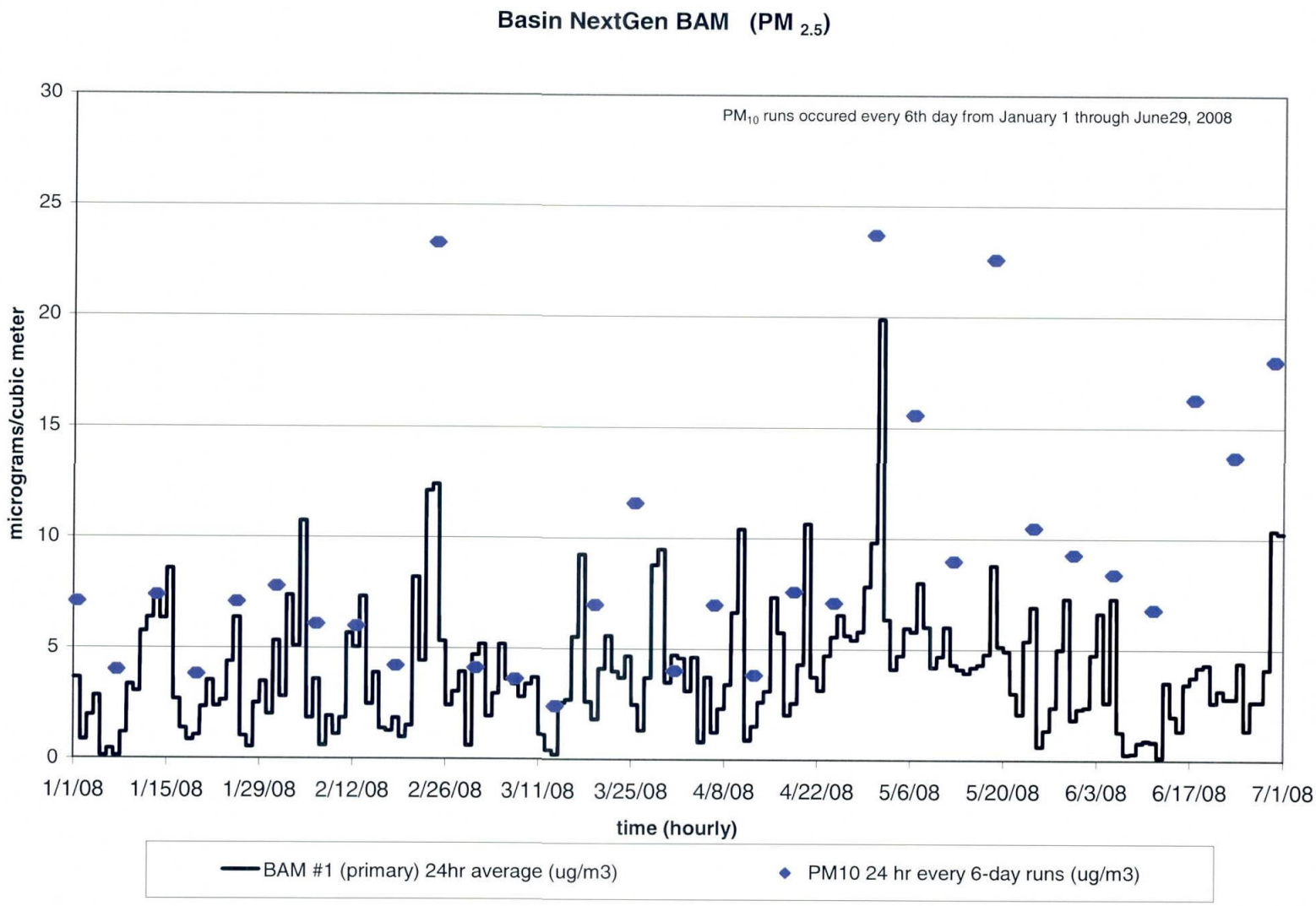

Figure 4-4 **$PM_{2.5}$ Graphical Time Series with Concurrent PM_{10} Data**

5.0 Meteorological Data Summary

At the Basin site, meteorological data are collected in accordance with USEPA Meteorological Monitoring Guidance for Regulation Modeling Applications from an instrumented 100-m tower. The specific instruments and equipment are described in more detail below.

5.1 Horizontal Wind Speed and Direction

Horizontal wind speeds and direction on the tower are measured continuously at the Basin site using Climatronics Model F460 wind systems (100075-G0-H0 for wind speed; 100076-G0-H0 for wind direction). Wind speed is measured using anemometers where the principle of operation is based on a light chopper that produces a frequency proportional to wind speed. The wind direction sensor is a lightweight balanced vane that senses position by a precision potentiometer. The wind sensors are installed at 10 m, 50 m, and 100 m. The standard deviation (sigma-theta) of the wind direction is computed by the data logger using the USEPA preferred Yamartino method (USEPA 2000).

5.2 Temperature and Temperature Difference

Temperatures at the Basin site are measured at four levels on the tower using a Climatronics Model 100093 temperature system. This motor aspirated system includes dual element thermistors mounted at 100 m, 50 m, 10 m, and 2 m above ground level. Delta-T is calculated by the datalogger based on the difference in temperatures measured by identical sensors at each of the levels, 10-2 m, 100-50 m, and 50-10 m. The datalogger resolves the temperature difference to better than 0.1°C.

This sensor configuration is designed to provide complete signal wire compensation and to eliminate any measurement errors resulting from resistance of the signal cable. The aspirator is mechanically ventilated with a fan to prevent conductive interference from precipitation and radiation from solar and terrestrial sources.

5.3 Vertical Wind Speed and Standard Deviation

Vertical wind speeds on the tower are measured continuously at the Basin site using Climatronics Model 102236-G0 wind systems. Vertical wind speeds are measured using an anemometer where the principle of operation is based on a prop that rotates either clockwise or counter-clockwise, which corresponds to positive or negative voltages that are translated into upward and downward vertical wind speed. The wind sensors are installed at 100 m, 50 m, and 10 m. The standard deviation (sigma-w) of the wind direction is computed by the data logger following the guidelines in USEPA (2000).

5.4 Solar Radiation

At the Basin site, radiation measurements using a Kipp & Zonen model CMP3 pyranometer located at about the 2m level. The sensor is designed for measurement of global (sun and sky) radiation. The detector is a differential thermopile made of plated copper on constantan junctions. Hot-junction receivers are covered with a stable black coating, cold junction receivers are whitened with non-hygroscopic barium sulfate. The sensor is temperature compensated using thermistor circuitry to within 1.5 percent of the range of -20°C to +40°C. The sensor is sensitive to wavelengths of 0.285 to 2.800 μm.

5.5 Relative Humidity (RH)

RH is measured, at 2 m, using a Campbell Scientific model HMP 45C-L humidity sensor. The sensing element is a small hygroscopic thin film capacitor that modifies its value as a function of both the water vapor pressure

and temperature of the environment. The sensor probe electronics automatically compensate for temperature effects on the probe. Sensor output signals are data logger compatible requiring no additional processing.

Table 5-1 10-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	5.3	19.1	01/28/08	0.3	01/14/08	744	744	100.0%
Feb-08	5.3	17.5	02/17/08	0.5	02/05/08	696	696	100.0%
Mar-08	5.6	16.6	03/02/08	0.5	03/14/08	742	744	99.7%
Apr-08	6.6	15.1	04/20/08	0.6	04/21/08	692	720	96.1%
May-08	6.7	18.0	05/19/08	0.7	05/28/08	744	744	100.0%
Jun-08	5.3	15.4	06/11/08	0.5	06/29/08	714	720	99.2%

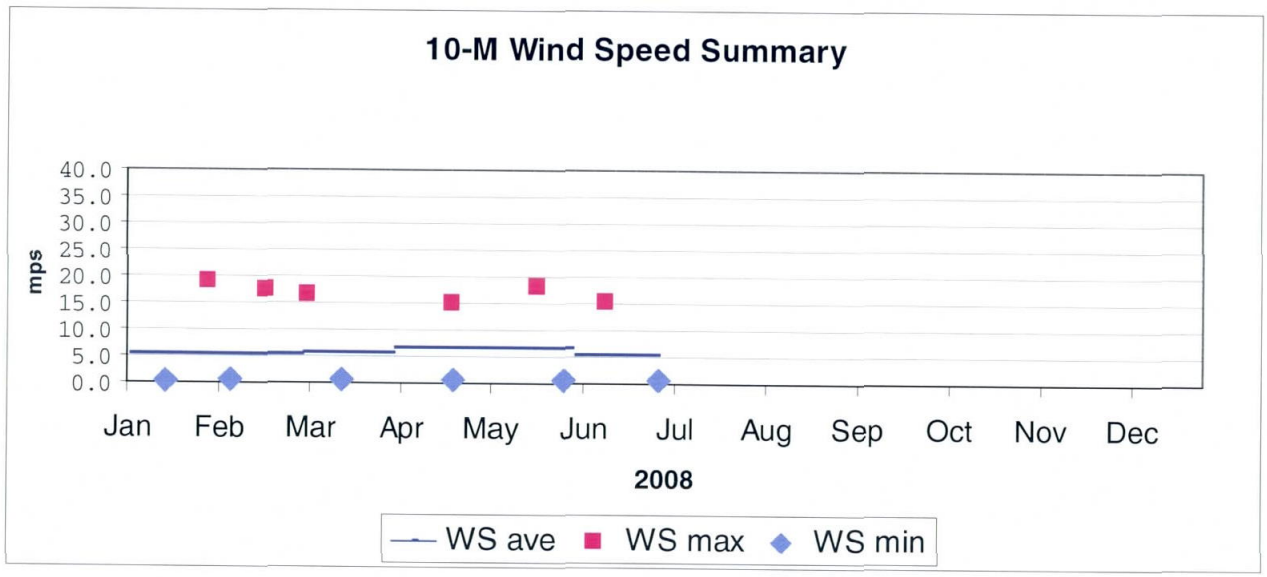

Figure 5-1 10-meter Wind Speed Summary

Table 5-2 50-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	7.6	21.8	01/28/08	0.4	01/20/08	744	744	100.0%
Feb-08	7.0	20.3	02/17/08	0.1	02/04/08	696	696	100.0%
Mar-08	7.5	19.4	03/02/08	0.8	03/14/08	742	744	99.7%
Apr-08	8.8	18.2	04/20/08	0.8	04/28/08	692	720	96.1%
May-08	8.9	22.0	05/24/08	0.8	05/13/08	744	744	100.0%
Jun-08	7.0	20.3	06/11/08	0.7	06/22/08	714	720	99.2%

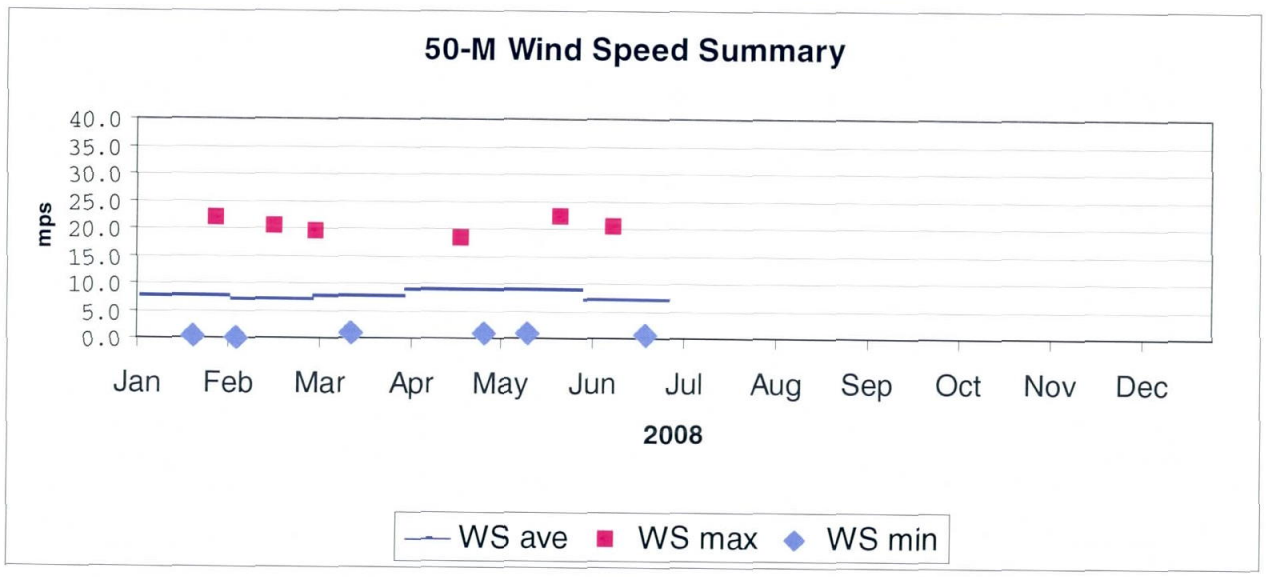

Figure 5-2 50-meter Wind Speed Summary

Table 5-3 100-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	8.7	22.9	01/28/08	0.5	01/14/08	744	744	100.0%
Feb-08	7.7	21.8	02/17/08	0.1	02/04/08	696	696	100.0%
Mar-08	8.4	21.2	03/02/08	0.1	03/21/08	742	744	99.7%
Apr-08	9.7	19.3	04/15/08	0.1	04/6/08	692	720	96.1%
May-08	10.0	24.8	05/24/08	0.8	05/13/08	744	744	100.0%
Jun-08	7.9	23.0	06/11/08	0.5	06/22/08	714	720	99.2%

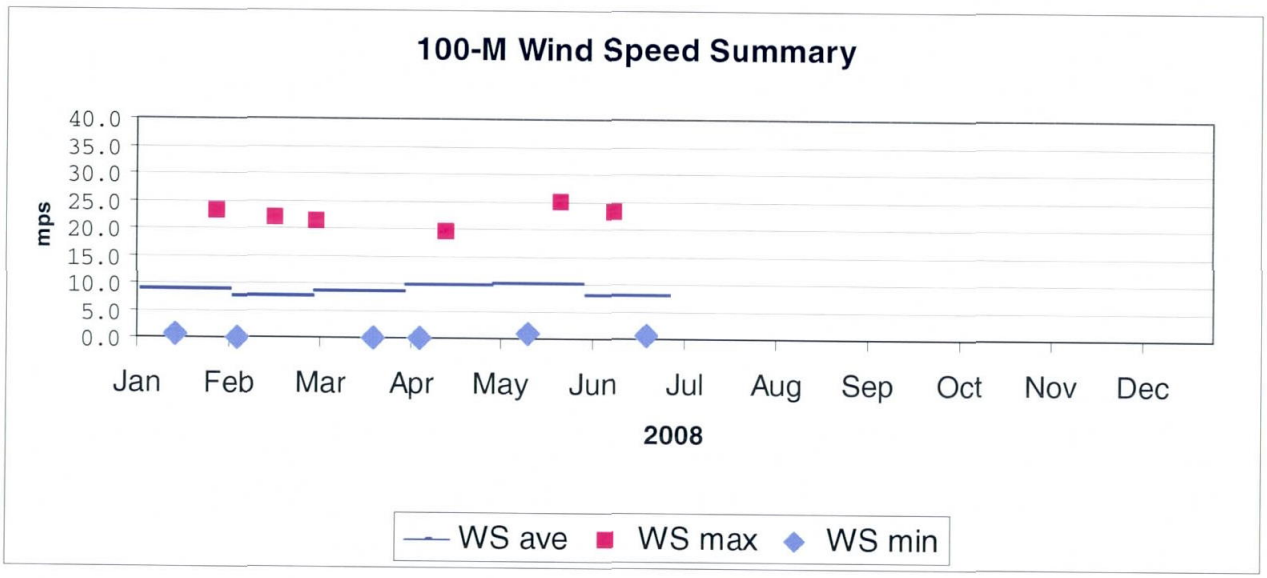

Figure 5-3 100-meter Wind Speed Summary

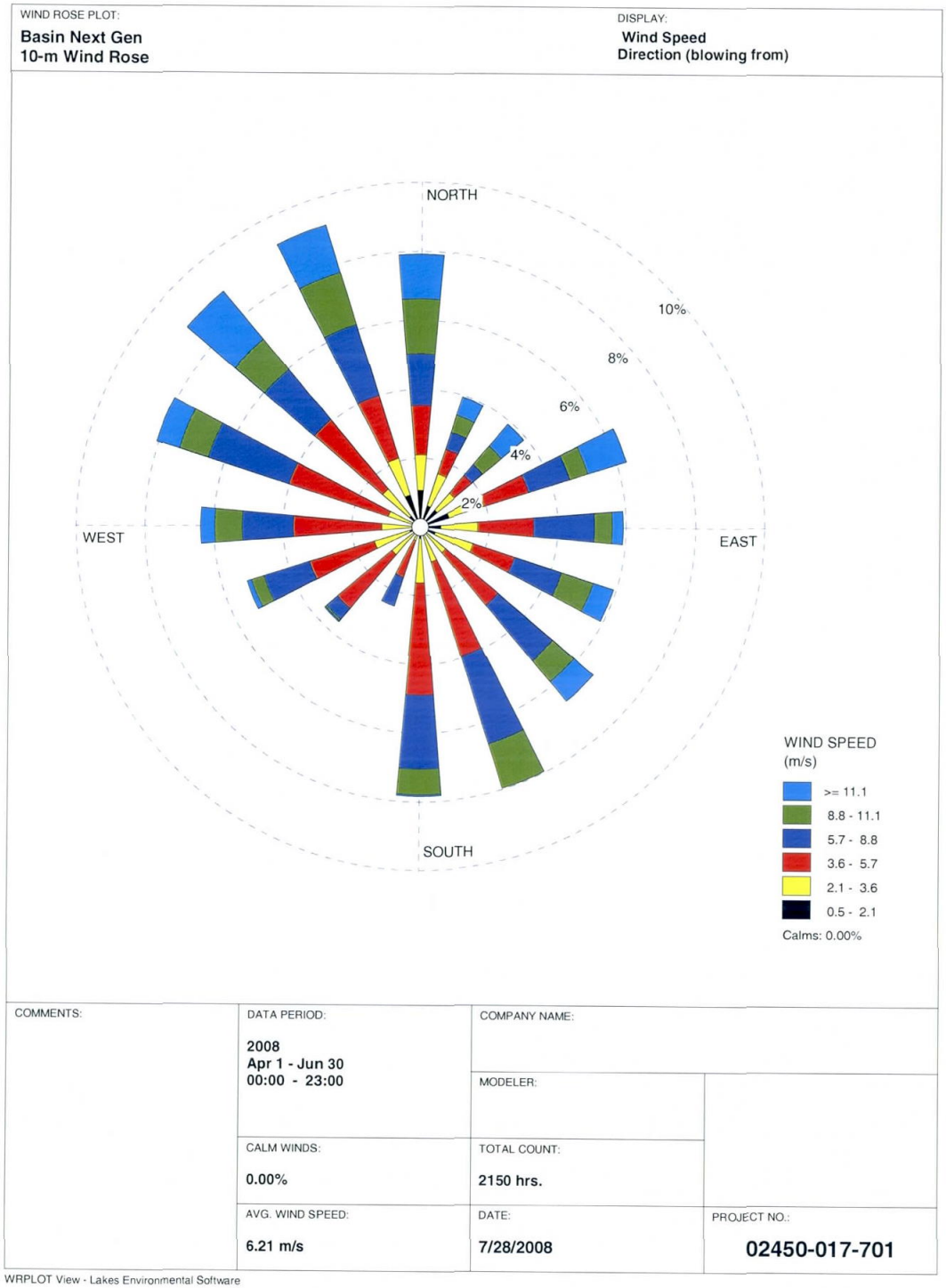

Figure 5-4 10-meter Wind Rose

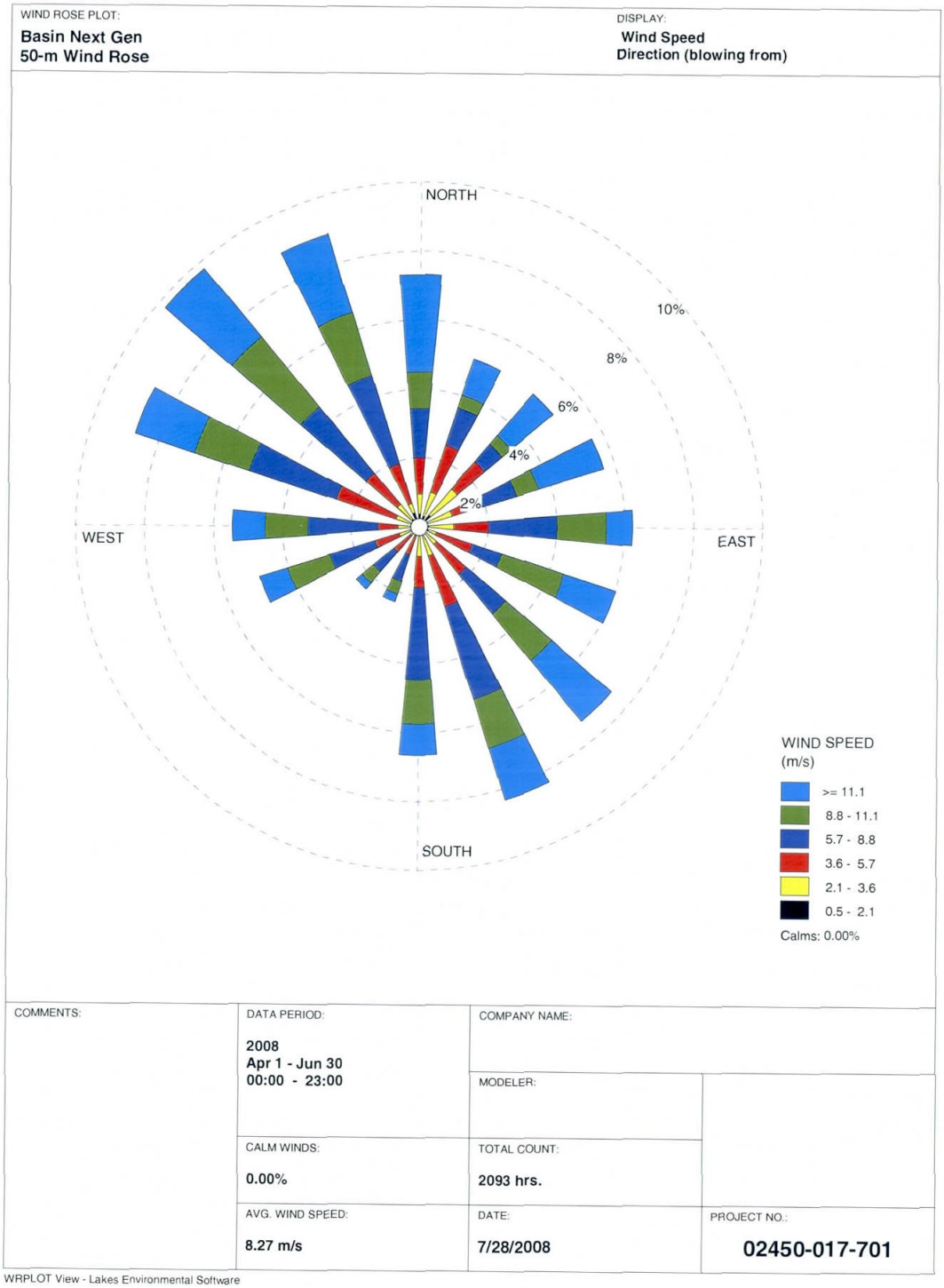

Figure 5-5 50-meter Wind Rose

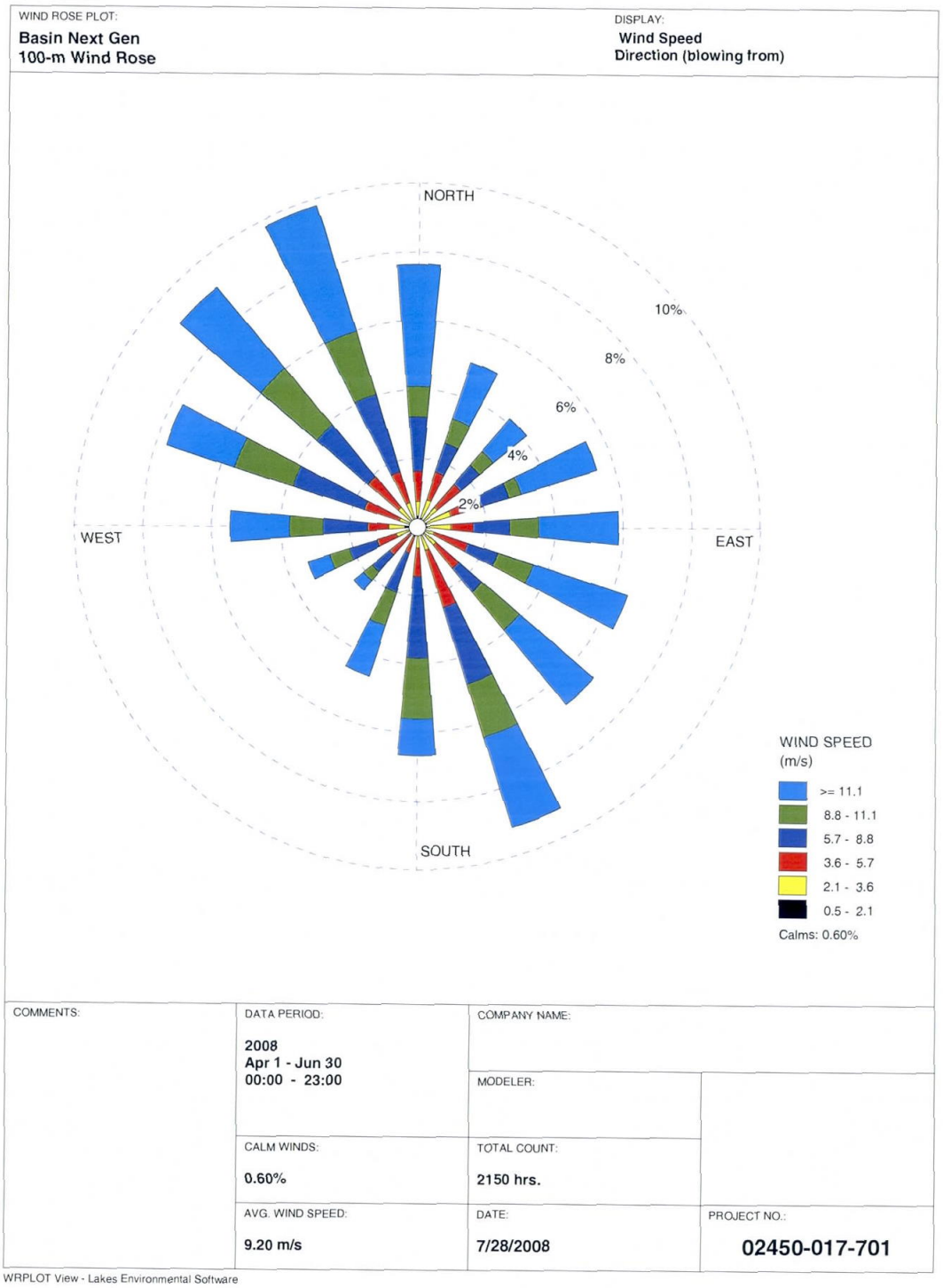

Figure 5-6 100-meter Wind Rose

Table 5-4 2-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	-9.7	8.2	01/28/08	-25.8	01/29/08	744	744	100.0%
Feb-08	-8.2	9.4	02/28/08	-28.8	02/20/08	696	696	100.0%
Mar-08	-1.2	16.1	03/24/08	-22.2	03/07/08	744	744	100.0%
Apr-08	5.1	30.7	04/15/08	-10.7	04/07/08	719	720	99.9%
May-08	11.2	27.2	05/16/08	-3.5	05/03/08	744	744	100.0%
Jun-08	16.9	29.6	06/24/08	5.6	06/12/08	718	720	99.7%

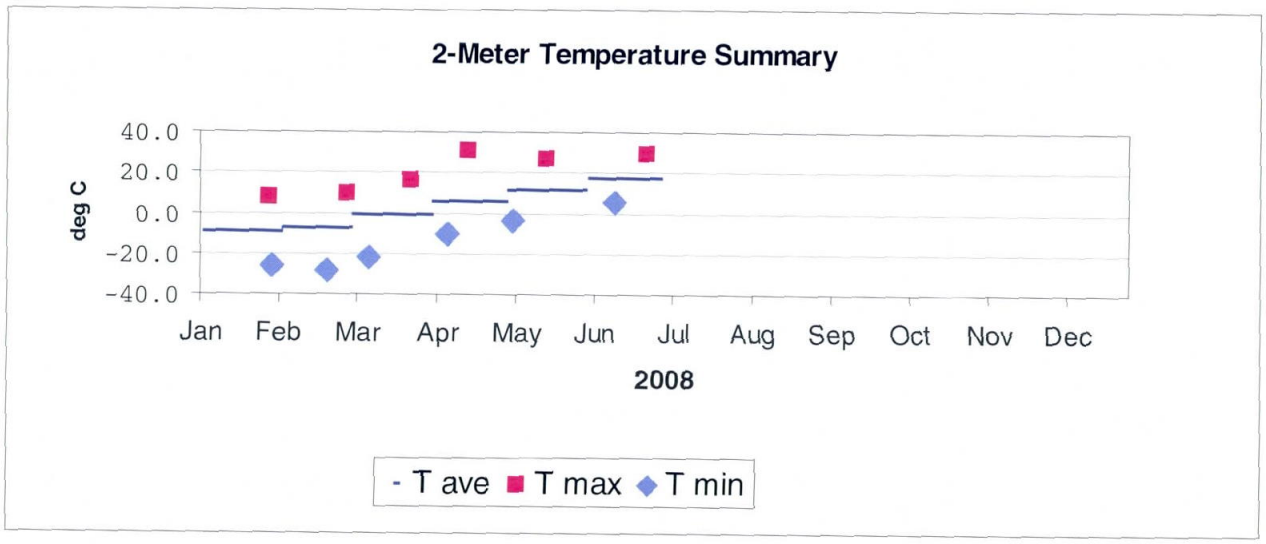

Figure 5-7 2-meter Temperature Summary

Table 5-5 10-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of Valid Data	Hours of Data Possible	Data Capture Percent
Jan-08	-9.3	8.4	01/28/08	-26.4	01/29/08	744	744	100.0%
Feb-08	-8.0	8.4	02/28/08	-28.9	02/20/08	696	696	100.0%
Mar-08	-1.1	15.6	03/24/08	-21.3	03/07/08	742	744	99.7%
Apr-08	5.2	30.2	04/15/08	-8.3	04/7/08	692	720	96.1%
May-08	11.3	26.3	05/16/08	-2.6	05/3/08	744	744	100.0%
Jun-08	17.3	29.4	06/24/08	4.5	06/10/08	714	720	99.2%

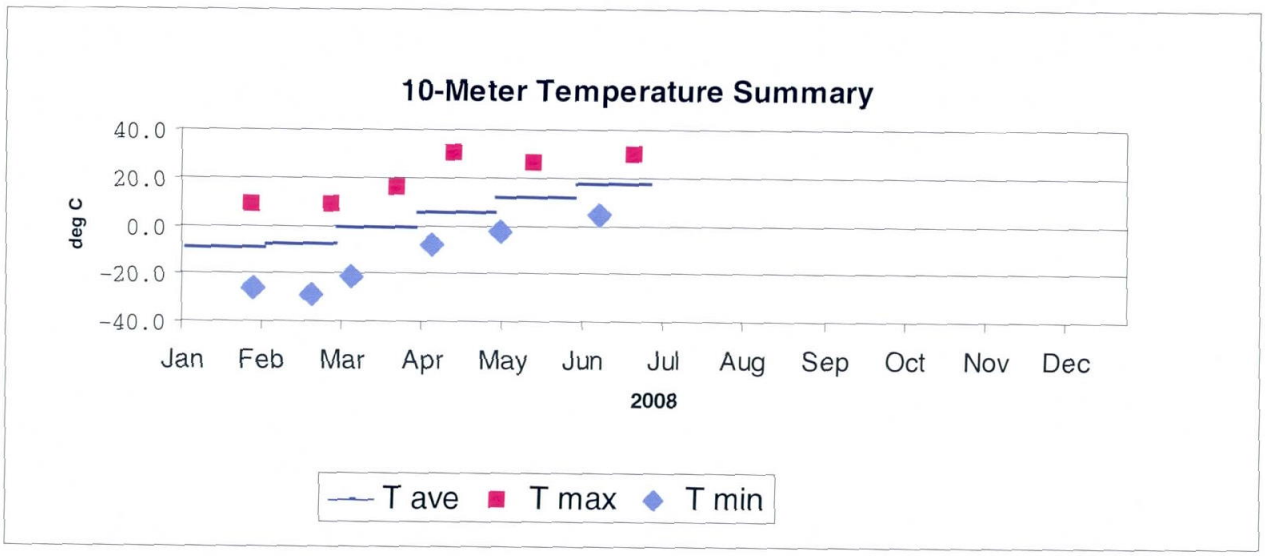

Figure 5-8 10-meter Temperature Summary

Table 5-6 50-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of Valid Data	Hours of Data Possible	Data Capture Percent
Jan-08	-8.3	11.0	01/28/08	-27.1	01/29/08	744	744	100.0%
Feb-08	-7.6	7.6	02/28/08	-29.3	02/20/08	696	696	100.0%
Mar-08	-0.7	15.1	03/24/08	-19.3	03/07/08	742	744	99.7%
Apr-08	5.6	29.6	04/15/08	-5.8	04/7/08	692	720	96.1%
May-08	11.6	25.3	05/16/08	0.1	05/2/08	744	744	100.0%
Jun-08	17.6	28.5	06/24/08	4.3	06/10/08	714	720	99.2%

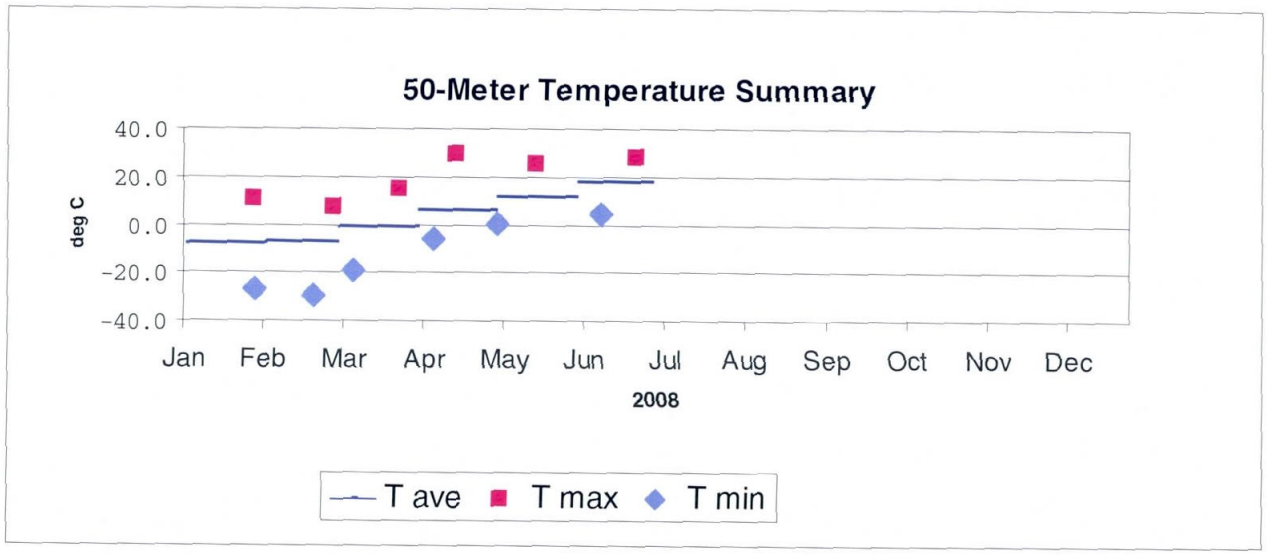

Figure 5-9 50-meter Temperature Summary

Table 5-7 100-meter Temperature Summary

	Temp. Monthly Average deg C	Temp. Monthly Max deg C	Date Max Occurred	Temp. Monthly Min deg C	Date Min Occurred	Hours of Valid Data	Hours of Data Possible	Valid Data Capture Percent
Jan-08	-7.6	12.8	01/28/08	-27.6	01/29/08	744	744	100.0%
Feb-08	-7.4	7.1	02/28/08	-29.7	02/20/08	696	696	100.0%
Mar-08	-0.7	15.0	03/11/08	-19.0	03/07/08	742	744	99.7%
Apr-08	5.6	29.0	04/15/08	-5.3	04/6/08	692	720	96.1%
May-08	11.6	24.6	05/16/08	-0.2	05/2/08	744	744	100.0%
Jun-08	17.6	27.9	06/24/08	4.1	06/10/08	714	720	99.2%

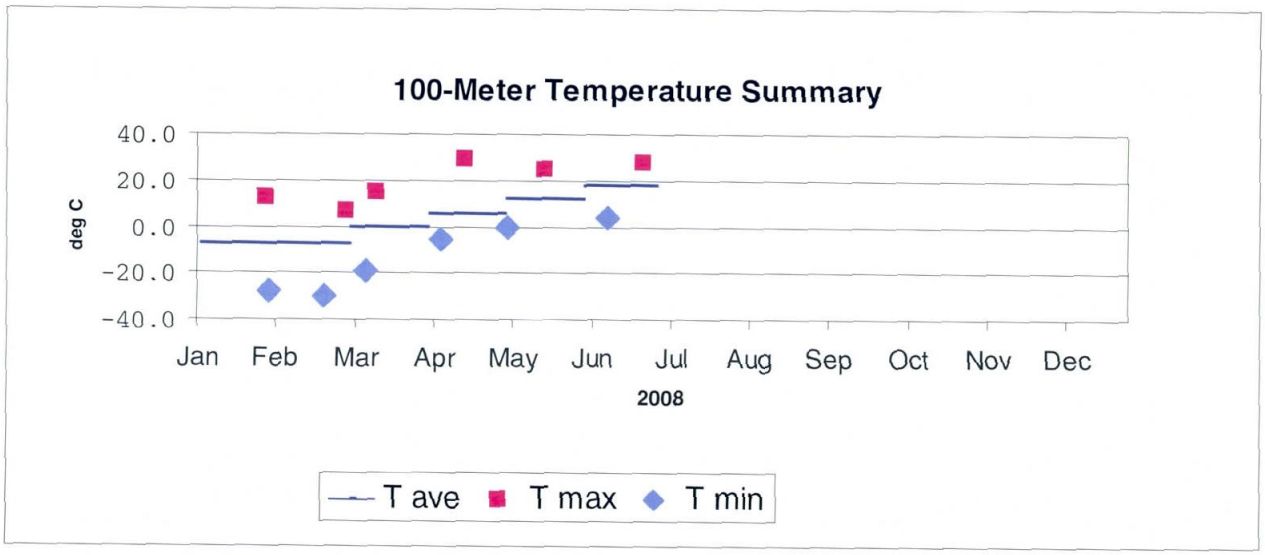

Figure 5-10 100-meter Temperature Summary

Table 5-8 10-2 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
January through March								
Jan-08	0.39	5.50	01/19/08	-1.28	01/15/08	744	744	100.0%
Feb-08	0.20	5.76	02/22/08	-1.41	02/18/08	696	696	100.0%
Mar-08	0.19	4.97	03/26/08	-1.73	03/25/08	742	744	99.7%
Deg C/m								
Jan-08	0.05	0.69	01/19/08	-0.16	01/15/08	744	744	100.0%
Feb-08	0.03	0.72	02/22/08	-0.18	02/18/08	696	696	100.0%
Mar-08	0.02	0.62	03/26/08	-0.22	03/25/08	742	744	99.7%
April through June								
Apr-08	0.24	6.54	04/02/08	-7.72	04/10/08	691	720	96.0%
May-08	0.15	5.98	05/05/08	-1.70	05/03/08	744	744	100.0%
Jun-08	0.38	5.96	06/30/08	-9.74	06/10/08	713	720	99.0%
Deg C/m								
Apr-08	0.03	0.82	04/02/08	-0.97	04/10/08	691	720	96.0%
May-08	0.02	0.75	05/05/08	-0.21	05/03/08	744	744	100.0%
Jun-08	0.05	0.75	06/30/08	-1.22	06/10/08	713	720	99.0%

Table 5-9 50-10 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
January through March								
Jan-08	1.08	8.72	01/05/08	-1.70	01/15/08	744	744	100.0%
Feb-08	0.43	7.10	02/22/08	-1.15	02/02/08	696	696	100.0%
Mar-08	0.34	9.06	03/10/08	-1.07	03/25/08	742	744	99.7%
Deg C/m								
Jan-08	0.03	0.22	01/05/08	-0.04	01/15/08	744	744	100.0%
Feb-08	0.01	0.18	02/22/08	-0.03	02/02/08	696	696	100.0%
Mar-08	0.01	0.23	03/10/08	-0.03	03/25/08	742	744	99.7%
April through June								
Apr-08	0.37	6.98	04/10/08	-1.84	04/07/08	691	720	96.0%
May-08	0.30	6.75	05/16/08	-1.21	05/17/08	744	744	100.0%
Jun-08	0.40	4.84	06/21/08	-1.66	06/03/08	714	720	99.2%
Deg C/m								
Apr-08	0.01	0.17	04/10/08	-0.05	04/07/08	691	720	96.0%
May-08	0.01	0.17	05/16/08	-0.03	05/17/08	744	744	100.0%
Jun-08	0.01	0.12	06/21/08	-0.04	06/03/08	714	720	99.2%

Table 5-10 100-50 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
January through March								
Jan-08	0.63	7.09	01/05/08	-0.81	01/15/08	744	744	100.0%
Feb-08	0.18	5.96	02/15/08	-0.72	02/25/08	696	696	100.0%
Mar-08	-0.01	3.53	03/11/08	-0.88	03/21/08	742	744	99.7%
Deg C/m								
Jan-08	0.01	0.14	01/05/08	-0.02	01/15/08	744	744	100.0%
Feb-08	0.00	0.12	02/15/08	-0.01	02/25/08	696	696	100.0%
Mar-08	0.00	0.07	03/11/08	-0.02	03/21/08	742	744	99.7%
April through June								
Apr-08	0.02	3.95	04/24/08	-0.70	04/20/08	691	720	96.0%
May-08	-0.05	3.44	05/16/08	-1.02	05/25/08	744	744	100.0%
Jun-08	-0.04	3.12	06/19/08	-0.94	06/13/08	714	720	99.2%
Deg C/m								
Apr-08	0.00	0.08	04/24/08	-0.01	04/20/08	691	720	96.0%
May-08	0.00	0.07	05/16/08	-0.02	05/25/08	744	744	100.0%
Jun-08	0.00	0.06	06/19/08	-0.02	06/13/08	714	720	99.2%

Table 5-11 Solar Radiation Summary

	Sol Rad Monthly Total w/m^2	Sol Rad 24 hour Max w/m^2	Sol Rad 1 hour Max w/m^2	Date 1 hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	60015	2917	528	01/24/08	744	744	100.0%
Feb-08	81742	4397	623	02/29/08	696	696	100.0%
Mar-08	117296	5725	865	03/27/08	744	744	100.0%
Apr-08	166064	7409	884	04/28/08	720	720	100.0%
May-08	159953	7996	938	05/31/08	744	744	100.0%
Jun-08	192993	8461	942	06/16/08	718	720	99.7%

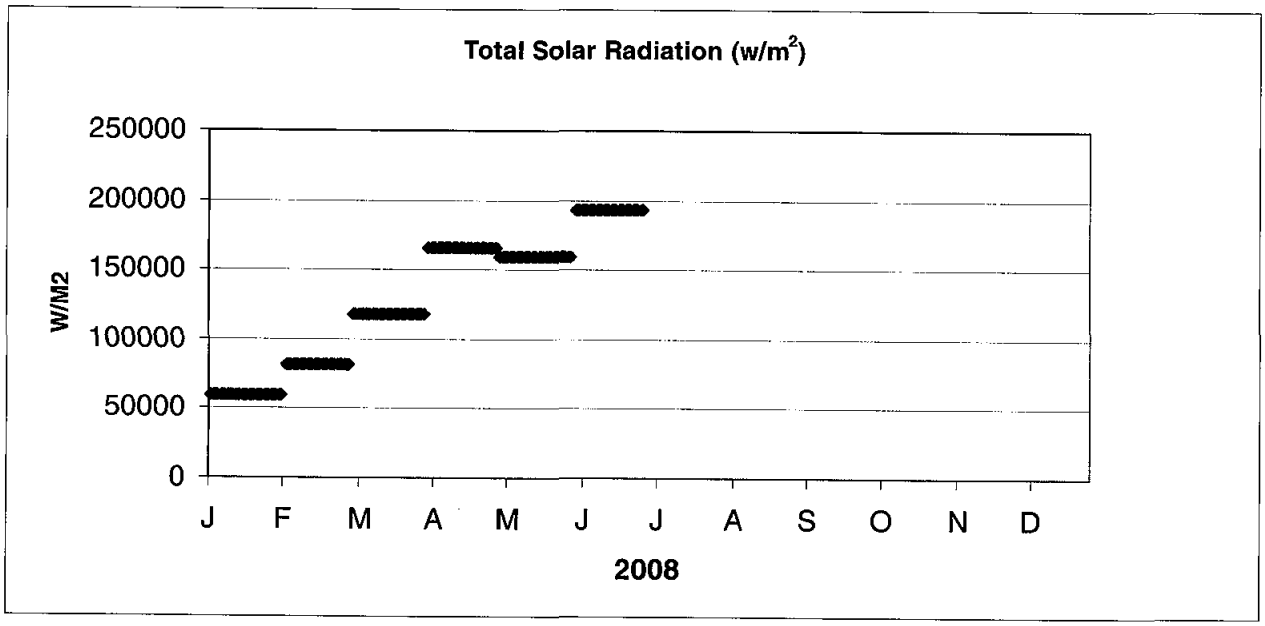

Figure 5-11 Solar Radiation

Table 5-12 Relative Humidity

	RH% Monthly Average	RH% Monthly Max	Date Max Occurred	RH% Monthly Min	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	76.5	98.6	01/15/08	42.6	01/30/08	744	744	100.0%
Feb-08	77.5	99.4	02/04/08	35.6	02/07/08	696	696	100.0%
Mar-08	70.5	100.0	03/20/08	20.9	03/24/08	744	744	100.0%
Apr-08	59.0	100.0	04/10/08	10.0	04/15/08	720	720	100.0%
May-08	65.1	99.1	05/30/08	18.1	05/17/08	744	744	100.0%
Jun-08	69.5	98.7	06/03/08	20.5	06/01/08	719	720	99.9%

Table 5-13 Barometric Pressure Summary

	Pressure Monthly Average (mb)	Pressure Monthly Max (mb)	Date Max Occurred	Pressure Monthly Min (mb)	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	705	722	01/02/08	683	01/28/08	744	744	100.0%
Feb-08	705	719	02/10/08	694	02/13/08	696	696	100.0%
Mar-08	706	719	03/22/08	693	03/01/08	744	744	100.0%
Apr-08	705	715	04/13/08	688	04/15/08	720	720	100.0%
May-08	703	715	05/27/08	692	05/1/08	744	744	100.0%
Jun-08	704	712	06/29/08	687	06/6/08	720	720	100.0%

Table 5-14 Precipitation Summary

	Precip. Monthly Total Inches	Precip. 24 hour Max Inches	Precip. 1 hour Max Inches	Date 1 hour Max Occurred	Hours Of QA/QC Data	Hours of Data Possible	Data Capture Percent
Jan-08	0.00	0.00	0.00	01/01/08	744	744	100.0%
Feb-08	0.07	0.04	0.01	02/04/08	696	696	100.0%
Mar-08	0.31	0.09	0.05	03/27/08	744	744	100.0%
Apr-08	0.36	0.10	0.04	04/9/08	718	720	99.7%
May-08	1.59	0.51	0.30	05/6/08	744	744	100.0%
Jun-08	5.23	1.66	1.12	06/11/08	720	720	100.0%

5.6 Barometric Pressure

Barometric pressure is measured using a Climatronics Model 102663-G0-10 pressure sensor. The pressure sensor is a piezoresistive device. The sensor is ideally suited to applications requiring accurate measurement of pressure. The sensor provides 0-1V DC over a 600 to 1,100 hPascals range.

5.7 Precipitation

A Climatronics Model 100097-1-G0 6-inch tipping bucket precipitation gauge is used to measure rainfall. Precipitation is channeled to a triangular bucket that tips once for each 0.01 inch of water collected. When the bucket empties, it activates a switch that is monitored and recorded by the data acquisition system.

5.8 Data Accuracy

A final independent quality assurance audit was on June 11, 2008. A copy of that report can be found in Appendix E. The report shows all audited systems to be operating within accuracy goals.

6.0 References

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____. 1987. Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD). EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. EPA-450/4-87-007.

Yamartino, R. J. 1984. A Comparison of Several "Single Pass" Estimators of the Standard Deviation of Wind.

Appendix A

Data Processing Specifications and Statistical Formulae

APPENDIX A

Data Processing Specifications and Statistical Formulae

A.1 PM_{10} Arithmetic Mean

The arithmetic mean was computed for each PM_{10} sampler using the following equation:

Arithmetic Mean =

$$\frac{1}{n}\sum_{j=1}^{n} PM_{10j}$$

Where n is the number of valid samples and PM_{10j} is the individual PM_{10} concentrations measured.

A.2 Data Capture Percentage

The total data capture percentage (P_t) for each parameter is determined by:

$$P_t = \frac{h_v}{h_t} x\ 100$$

Where: h_v = number of hours of valid data
h_t = total hours in the period

A.3 Methods for Calculation of Precision and Accuracy Continuous Analyzer[1]

Statistics reported in this monitoring report are performed using the equations and methods according to Section 4 of Appendix A of 40 CFR Part 58 title Calculations for Data Quality Assessment.

A.4 Calculation of Hourly Sigma-Theta Values[2]

The hourly values of sigma-theta were calculated from the 15-minute averages using the following equation:

$$\sigma_\theta(hourly) = \sqrt{\frac{\sum_{i=1}^{n}\sigma_{\theta i}^2}{n}}$$

---

[1]U.S.EPA 40 CFR Part 58 Appendix A (Revised October 2006) Ambient Air Quality Surveillance

[2]U.S. EPA. Guideline on Air Quality Models (Revised). EPA-450/2-78-027R. 1986.

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Appendix B

Unit Vector Averaging Method for Wind Directions

02450-017-701

August 2008

APPENDIX B

Unit Vector Method for Averaging Wind Direction

The unit vector method for averaging wind direction reduces the wind direction for a given period to a "unit vector" and subsequently does not weight the north-south and east-west components of the wind direction by the wind speed. The formula for the components of the wind direction, both in the X-direction and the Y-direction, is as follows;

$$V_x = -(1/N)\ \Sigma \sin (A_i)$$
$$V_y = -(1/N)\ \Sigma \cos (A_i)$$

where A_i is the wind direction for a specific period and N is the number of such observations for the hour.

The formula for calculating wind direction is then:

$$\text{Vector Wind} = \text{Arc Tan } (V_x/V_y)$$

If the Y-direction component (V_y) is zero and the X-direction component (V_x) is non-zero, then the Vector Wind is set to 90°. However, if V_x is set to zero, the Unit Vector Wind is calculated based on the sign of the component winds in the formula below.

$$\text{Unit Vector Wind} = \text{Vector Wind} + \text{FLOW}$$

FLOW is determined by examining the signs of both V_x and V_y. If these are both less than or equal to zero, FLOW is set to zero. If V_x is negative, FLOW is set to 360°. If both are positive, FLOW is set to 180°. The algorithm below describes how FLOW is determined.

```
IF (Vy ≤ 0) THEN
    IF (Vx ≤ 0) THEN
        FLOW = 0°

    ELSE
        FLOW =360°
    ELSE
        FLOW = 180°
```

Appendix C

Quarterly Calibrations, Certifications, and Filter Processing Information

Basin AQ
TECO 146 Flow Calibrations
4/23/08

NO	**30.60**	ppm
SO2	**31.30**	ppm

AIR

M=	1039.83	**B=**	-317.15	**CORR=**	0.999998

GAS

M=	1.1187	**B=**	-0.352	**CORR=**	0.999987

NO FLOWS AND SETTINGS

INPUT	DILUTION FLOW CC/MIN	DILUTION SET	GAS FLOW CC/MIN	GAS SET
0.450	5000	**5.11**	74.63	**67.02**
0.200	5000	**5.11**	32.89	**29.72**
0.090	6000	**6.08**	17.70	**16.14**

SO2 FLOWS AND SETTINGS

INPUT	DILUTION FLOW CC/MIN	DILUTION SET	GAS FLOW CC/MIN	GAS SET
0.450	5000	**5.11**	72.93	**65.51**
0.200	5000	**5.11**	32.15	**29.06**
0.090	6000	**6.08**	17.30	**15.78**

INPUTS

NO	SO2	CO
.450	0.460	0.0
.200	0.205	0.0
.090	0.092	0.0

GAS FLOW = (INPUT*DIL FLOW)/(TANK CONC.-INPUT)

FLOW SET = (FLOW-B)/M

FLOW(accm)= FLOW(sccm)/.8864

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NO/NOX/NO2 CALIBRATION

NETWORK:	East Side Resource	SITE:	Basin Electric	DATE: 4/23/08	FINAL 2nd Quarter 2008

Instrument:	42C			Station Calibrator:	TEI146	SN: 30141-237	Comments:
SN:	70181-365			Cert. Date:			
NO Bkg	6.5	Internal Temp:	34.1	Air M=	1039.8	B= -317.1	External: 506, 719, 468
NOX Bkg	7.2	Chamber Temp:	49.4	Gas M=	1.1	B= -0.352	Internal: 599, 175, 424
NO Coeff	0.783	Cooler Temp	-2.2	DVM:	Fluke 87V	SN: 90850057	
NOx Coeff	0.999	Converter Temp:	323.0	Cert. Date:	1/11/2008		
NO2 Coeff	1.000	Converter Set:	325.0	Station Gas SN:	JJ8689	Conc: 30.6	Tech: BCJ
Sample Flow:	0.674	Pressure:	219.7	Cyl. Pressure:	1220	Exp Date: 2/12/2010	QA Review:

Station Calibrator Settings					Input (ppm)			System Responses						Percent Difference		
O_3 Setting	Gas Setting	Air Setting	Gas Flow ccm	Air Flow ccm	NO_x	NO_2	NO	NOx DAS (ppm)	NO2 DAS (ppm)	NO DAS (ppm)	NOx Response (chart %)	NO2 Response (chart %)	NO Response (volts)	NOx bias/ Δ%	NO2 bias/ Δ%	NO bias/ Δ%
n/a	n/a	5.11	0.0	5000	0.000	0.000	0.000	-0.001	0.001	0.000	n/a	n/a	0.000	-0.001	n/a	0.000
n/a	16.1	6.08	17.7	6000	0.090	0.000	0.090	0.089	0.002	0.090	n/a	n/a	0.175	-1.1	n/a	0.0
n/a	29.7	5.11	32.9	5000	0.200	0.000	0.200	0.200	0.000	0.200	n/a	n/a	0.398	0.0	n/a	0.0
n/a	67.0	5.11	74.6	5000	0.450	0.000	0.450	0.450	-0.001	0.450	n/a	n/a	0.905	0.0	n/a	0.0
GPT Runs:																
425-Internal	67.0	5.11	74.6	5000	0.450	0.362	0.088	0.449	0.362	0.088	n/a	n/a	0.095	-0.2	-0.1	0.2
350-Internal	67.0	5.11	74.6	5000	0.450	0.202	0.248	0.448	0.201	0.248	n/a	n/a	0.493	-0.4	-0.5	0.0
300-external	67.0	5.11	74.6	5000	0.450	0.093	0.357	0.451	0.091	0.357	n/a	n/a	0.722	0.2	-2.1	0.0
270-external	67.0	5.11	74.6	5000	0.450	0.039	0.411	0.447	0.037	0.411	n/a	n/a	0.834	-0.7	-0.002	0.0

Internal Ozone Dial

NO_2 converted to NO for each GPT run:	0.361	1.0018	1.0059	0.9993	**<=Slope**
	0.200	-0.0007	-0.0023	0.0002	**<=Intercept**
	0.094	1.0000	1.0000	1.0000	**<=R2**
	0.036				

Converter Efficiency: 100.4%

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SO2 GAS DILUTION CALIBRATION

NETWORK:	East Side Resource	SITE:	Basin Electric	DATE:	4/23/08	Calibration	2nd Quarter 2008

Instrument:	43A		
SN:	29727-236		
	Initial	Final	
Zero Set	275	275	
Span Set	31	36	
Flow	0.43	0.43	LPM
Vacuum	19.5	19.5	
Lamp Volts	1063	1063	(800-1200)

Calibrator:	Teco 146	SN:	30141-237
Cert. Date:			
Air M=	1039.83	B=	-317.15
Gas M=	1.119	B=	-0.352
DVM:	Fluke 87V	SN:	90850057
Cert. Date:	1/11/2008		
Gas Cylinder SN:	JJ8689	Conc.:	31.3
Cylnder Pressure:	1220	Exp Date:	2/12/2010

Comments:

Flows and Settings				Initial Results				Final Results			Delta %	
Gas Flow		Air Flow		Input	INITIAL			FINAL			Initial	Final
cc/m	Set	L/M	Set	SO2	DAS	Volt	Chart%	DAS	Volt	Chart%	% Error	% Error
N/A	N/A	5000	5.11	.000	0.000	0.003	na	0.000	-0.001	na	N/A	N/A
74.63	67.0	5000	5.11	.460	0.459	0.836	na	0.460	0.876	na	-0.3%	-0.1%
32.89	29.7	5000	5.11	.205	0.195	0.441	na	0.206	0.387	na	-4.7%	0.7%
17.70	16.1	6000	6.08	.092	0.088	0.183	na	0.091	0.171	na	-4.4%	-1.2%

M=	1.011771645	M=	1.000568571
B=	-0.007946131	B=	-0.000119491
Corr.=	0.99982	Corr.=	0.99998

Signature: BCJ

QA/QC:

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OZONE CALIBRATION

DATE: 4/23//2008 NETWORK: East Side Resource STATION: Basin Electric

ANALYZER: TECO 49C SN 0517812012 Background: -0.09 COEF: 0.989

STANDARD: Teco 49TS SN: 33799-246 CERTIFICATION DATE: 4/23/08

	IN-STATION TS		DATALOGGER		DELTA	DISPLAY	CHART	
SETTING	RESULT	PPM	RESULT	PPM	%	PPM	%	PPM
Switch 6,5,1	0.000	0.000	-0.001	0.000	0.000	0.000		0.000
	0.000		0.000			-0.001		
	0.000		0.001			-0.001		
	0.000		0.000			-0.001		
	0.000		0.000			-0.001		
AVG	0.000		0.000			-0.001		
Switch 7,5,1 Level 1 57.0%	0.453	0.452	0.451	0.452	-0.1%	0.449		0.000
	0.452		0.452			0.450		
	0.453		0.452			0.450		
	0.452		0.452			0.450		
	0.451		0.453			0.451		
AVG	0.452		0.452			0.450		
Switch 7,5,1 Level 1 39.0%	0.202	0.202	0.204	0.204	1.0%	0.203		0.000
	0.203		0.204			0.203		
	0.202		0.204			0.203		
	0.203		0.204			0.203		
	0.200		0.204			0.203		
AVG	0.202		0.204			0.203		
Switch 8,5,1 Level 2 32.0%	0.090	0.090	0.090	0.090	0.7%	0.090		0.000
	0.090		0.090			0.089		
	0.089		0.091			0.089		
	0.091		0.090			0.090		
	0.088		0.090			0.090		
AVG	0.090		0.090			0.090		

M= 0.999135 B= 0.000737 CORR.= 0.999988

INTENSITY A: 146544 INTENSITY B: 73160 O_3 LAMP: 70.7

FLOW A: 0.660 FLOW B: 0.615 BENCH LAMP TEMP: 56.3

PRESSURE: 701.9 BENCH TEMP: 32.9

Comments:

TECH: BCJ

QA/QC:

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OZONE TRANSFER STANDARD CALIBRATION

Calibration Date: **4/24/2008**

Initial			
Transfer Standard:	Teco 49 TS		
Freq A:	88666	SN:	33799-246
Freq B:	94810	Span:	534
Flow A:	1.0	Offset:	50
Flow B:	1.0		

Final			
Transfer Standard:	Teco 49 TS		
Freq A:	88353	SN:	33799-246
Freq B:	94801	Span:	558
Flow A:	1.0	Offset:	50
Flow B:	1.0		

Primary:	49TS
SN:	42429-267
Span:	518
Offset:	50
Cert Date:	4/10/2008

	4/23/2008		4/24/2008		12/4/2007		12/5/2007		3/2/2007		3/7/2007	
	Desig.	Obs	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs
TP1	0.452	0.451	0.450	0.450	0.453	0.453	0.451	0.451	0.450	0.449	0.449	0.449
TP2	0.351	0.350	0.350	0.350	0.351	0.352	0.351	0.352	0.349	0.347	0.350	0.35
TP3	0.250	0.250	0.249	0.250	0.252	0.253	0.251	0.252	0.250	0.250	0.250	0.251
TP4	0.151	0.152	0.150	0.149	0.152	0.153	0.151	0.151	0.150	0.150	0.150	0.150
TP5	0.08	0.081	0.080	0.080	0.081	0.081	0.0805	0.082	0.081	0.081	0.081	0.080
TP6	-0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.001
Slope		0.9945683		1.000691		1.001475		0.9990169		0.996449588		1.00118163
Intercept		0.0013282		-0.0001473		-3.03E-05		0.00099221		0.000256829		-0.000251884

AVG. SLOPE	0.998897	(.95to1.05)	**STD.DEV**	0.28%	(<3.7%OK)	**1/M =**	1.001104201
AVG. INTERCEPT	0.00036		**STD.DEV**	0.1%	(<1.5%OK)		

O3 Std ppm = 1.0011 X [O3 indicated - 0.00036]

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HI VOLUME SAMPLER CALIBRATION
(VFC TYPE SAMPLER)
PM_{10}

SAMPLING NETWORK: East Side Resource SITE: Basin Electric DATE: 4/23/2008

SAMPLER:	PM10# 1	ORIFICE SN:	1170	BP (mmHg) :	700.0 =P(a)
SN:	904	CALIBRATION DATE:	4/25/2007	SEASONAL PRESSURE (mmHg) :	708.0 =P(s)
MAN:	Tisch Environmental	M=	0.95733	AMBIENT TEMP (°C) :	20.0 =T(a)
		B=	0.00492	AMBIENT TEMP (°K) :	293.2 =T(a)
		R=	0.99997	SEASONAL TEMP (°K) :	273.1 =T(s)

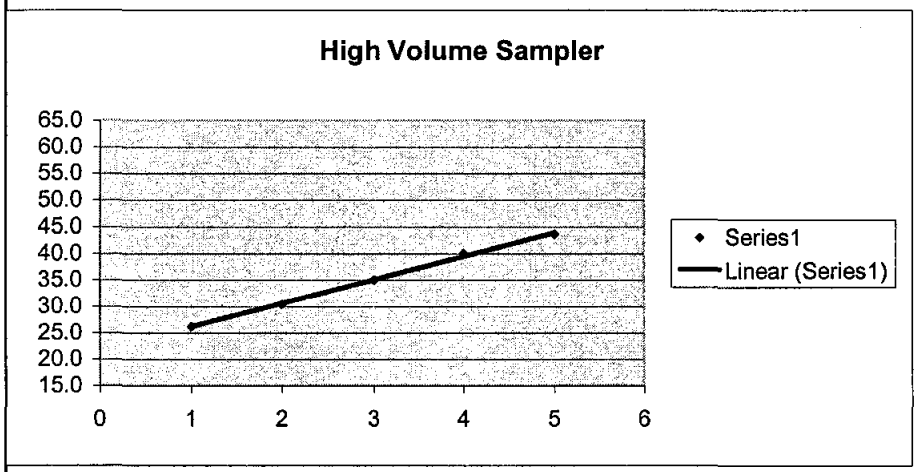
REASON FOR CALIBRATION: Quarterly Calibration

		ORIFICE FLOW			INDICATED (I)		
			X axis		Y axis	2.4	
SETTING	TOTAL H2O (in.H2O)	Qa M^3/min	Qa CFM	Qa $(Ta)^{1/2}$	Pstg (in.H20)	P1=Pa-Pstg mmHg	P1/Pa
1	2.75	1.116	39.4	0.0652	26.2	651.01	0.9300
2	2.70	1.106	39.0	0.0646	30.4	643.15	0.9188
3	2.55	1.074	37.9	0.0627	35.0	634.55	0.9065
4	2.45	1.053	37.2	0.0615	40.0	625.20	0.8931
5	2.40	1.042	36.8	0.0609	43.6	618.47	0.8835
OPERATIONAL FLOW RATE-Qa			1.1429	40.4	21.0	660.73	0.9439
OPERATIONAL FLOW RATE-QaAVG			1.1032	39.0	21.0	668.73	0.9445

QA(orifice)= [{(dH2O)(Ta/Pa)}]SQRT- B] / M

SAMPLER CALIBRATION RELATIONSHIP

M= 9.9131 B= 0.2822 CORR.= 0.9905



For calculation of sampler flow rate:
$Qa=[(P1/Pa-B)(Ta^{1/2})]/M$
$QaAVG=[(P1/Pavg-B)(Tavg^{1/2})]/M$
(Corrected to mean average conditions)
PM10 Flows (36-44 acfm)

TECH: BCJ
QA Review

Comments: Cleaned impaction plate and re-greased surfurce

ENSR AECOM

HI VOLUME SAMPLER CALIBRATION
(VFC TYPE SAMPLER)
PM_{10}

SAMPLING NETWORK: East Side Resources SITE: Basin Electric DATE: 4/23/2008

SAMPLER:	PM10 #2	ORIFICE SN:	1170	BP (mmHg) :	700.0 =P(a)
SN:	903	CALIBRATION DATE:	4/25/2007	SEASONAL PRESSURE (mmHg) :	700.5 =P(s)
MAN:	Tisch Environmental	M=	0.95733	AMBIENT TEMP (°C) :	19.8 =T(a)
		B=	0.00492	AMBIENT TEMP (°K) :	293.0 =T(a)
		R=	0.99997	SEASONAL TEMP (°K) :	273.1 =T(s)

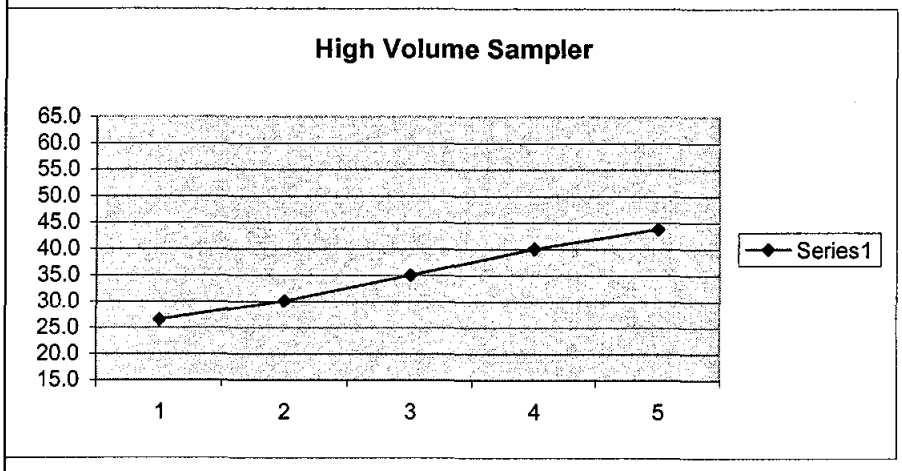
REASON FOR CALIBRATION: Quarterly Calibration

	ORIFICE FLOW		X axis		Y axis	INDICATED (I)	
SETTING	TOTAL H2O (in.H2O)	Qa M^3/min	Qa CFM	Qa $(Ta)^{1/2}$	Pstg (in.H20)	P1=Pa-Pstg mmHg	P1/Pa
1	2.75	1.115	39.4	0.0652	26.5	650.45	0.9292
2	2.65	1.095	38.7	0.0640	30.1	643.71	0.9196
3	2.55	1.074	37.9	0.0627	35.0	634.55	0.9065
4	2.45	1.053	37.2	0.0615	40.0	625.20	0.8931
5	2.40	1.042	36.8	0.0609	43.8	618.09	0.8830
OPERATIONAL FLOW RATE-Qa			1.1350	40.1	21.3	660.17	0.9431
OPERATIONAL FLOW RATE-QaAVG			1.0959	38.7	21.3	660.67	0.9431

QA(orifice)= [{(dH2O)(Ta/Pa)}]SQRT- B] / M

SAMPLER CALIBRATION RELATIONSHIP

M= 10.6300 B= 0.2382 CORR.= 0.9954



For calculation of sampler flow rate:
$Qa=[(P1/Pa-B)(Ta^{1/2})]/M$
$QaAVG=[(P1/Pavg-B)(Tavg^{1/2})]/M$
(Corrected to mean average conditions)
PM10 Flows (36-44 acfm)

TECH: BCJ
QA Review

Comments: *Cleaned impaction plate and re-greased surfurce*

100m WIND SPEED

ENSR | AECOM

Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial/Final Technician: BCJ

Sensor /Instrument		Standard Information					
		Wind Speed Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	5098	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cup SN:	1094	Cal. Date:	1/17/08	Cal. Date:	NA	Cal. Date:	1/11/2008
WS Level:	100m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.1	0	0	0.3	0.46	0.46	-0.16	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: good	900	450	47.6	47.6	2.83	0.02	PASS
Cups: good	1800	900	94.9	94.9	5.19	0.04	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque:	0	0	0.3		0.46	0.30	
(max 0.2 gm/cm)	300	150	16.1		1.25	16.07	
Bearings:	900	450	47.6		2.83	47.62	
Cups:	1800	900	94.9		5.19	94.94	

Comments:

50m WIND SPEED

ENSR

Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial/Final Technician: BCJ

Sensor /Instrument		Standard Information					
		Wind Speed Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	1528	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cups SN:	1074	Cal. Date:	1/17/08	Cal. Date:	NA	Cal. Date:	1/11/2008
WS Level:	50m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.1	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: good	900	450	47.6	47.6	2.83	0.02	PASS
Cups: good	1800	900	94.9	94.9	5.19	0.04	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque:	0	0	0.3		0.46	0.30	
(max 0.2 gm/cm)	300	150	16.1		1.25	16.07	
Bearings:	900	450	47.6		2.83	47.62	
Cups:	1800	900	94.9		5.19	94.94	

Comments:

10m WIND SPEED

ENSR | AECOM

Wind Speed Calibration Form

Network : East Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial Technician: BCJ

Sensor /Instrument		Standard Information Wind Speed Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	5151	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cup SN:	216	Cal. Date:	1/17//08	Cal. Date:	NA	Cal. Date:	1/11/2008
WS Level:	10m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.1	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: ok	900	450	47.6	47.6	2.83	0.02	PASS
Cups: ok	1800	900	94.9	94.9	5.19	0.01	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: <0.1	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: ok	900	450	47.6	47.6	2.83	0.02	PASS
Cups: ok	1800	900	94.9	94.9	5.19	0.04	PASS

Comments:

ENSR

Vertical Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial Technician: BCJ

Sensor /Instrument					
Make:	Climatronics	Make:	Climatronics	Make:	Climatronics
Model:	102236-G0	Model:	102236-G0	Model:	102236-G0
Serial No:	169	Serial No:	171	Serial No:	170
Prop SN:	63226	Prop SN:	62473	Prop SN:	63280
VWS Level:	10m	VWS Level:	50m	VWS Level:	100m

Standard Information					
Wind Speed Motors		Torque Wheel		DVM	
Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	188831-30	Model:	18312	Model:	87V
Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cal. Date:	1/17/08	Cal. Date:	NA	Cal. Date:	1/11/2008

INITIAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
10m	0	NA	0.00	0.12	0.2	0.12	PASS
Sensor Torque	300 CW	83	1.87	1.98	0.3	0.11	PASS
CW: <0.1	300 CCW	-83	-1.87	-1.77	0.3	0.10	PASS
CCW: <0.1	600 CW	166	3.75	3.84	0.4	0.09	PASS
(max 0.2 gm/cm)	600 CCW	-166	-3.75	-3.71	0.4	0.04	PASS
	900 CW	250	5.63	5.71	0.5	0.09	PASS
Props: OK	900 CCW	-250	-5.62	-5.61	0.5	0.01	PASS

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
50m	0	NA	0.00	0.02	0.2	0.02	PASS
Sensor Torque	300 CW	83	1.87	1.89	0.3	0.02	PASS
CW: <0.1	300 CCW	-83	-1.87	-1.89	0.3	0.02	PASS
CCW: <0.1	600 CW	166	3.75	3.84	0.4	0.09	PASS
(max 0.2 gm/cm)	600 CCW	-166	-3.75	-3.76	0.4	0.01	PASS
	900 CW	250	5.63	5.71	0.5	0.09	PASS
Props: OK	900 CCW	-250	-5.62	-5.65	0.5	0.03	PASS

Sensor	Motor RPM	Ideal output m/V mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
100m	0	NA	0.00	0.00	0.2	0.00	PASS
Sensor Torque	300 CW	83	1.87	1.87	0.3	0.00	PASS
CW: 0.1	300 CCW	-83	-1.87	-1.88	0.3	0.01	PASS
CCW: 0.1	600 CW	166	3.75	3.77	0.4	0.02	PASS
(max 0.2 gm/cm)	600 CCW	-166	-3.75	-3.77	0.4	0.02	PASS
	900 CW	250	5.63	5.65	0.5	0.03	PASS
Props: OK	900 CCW	-250	-5.62	-5.66	0.5	0.04	PASS

Comments:

ENSR

Vertical Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Final Technician: BCJ

Sensor /Instrument		
Make: Climatronics	Make: Climatronics	Make: Climatronics
Model: 102236-G0	Model: 102236-G0	Model: 102236-G0
Serial No: 169	Serial No: 171	Serial No: 170
Prop SN: 63226	Prop SN: 62473	Prop SN: 63280
VWS Level: 10m	VWS Level: 50m	VWS Level: 100m

Standard Information		
Wind Speed Motors	Torque Wheel	DVM
Make: RM Young	Make: RM Young	Make: Fluke
Model: 188831-30	Model: 18312	Model: 87V
Serial No: 20101	Serial No: NA	Serial No: 90850057
Cal. Date: 1/17/08	Cal. Date: NA	Cal. Date: 1/11/2008

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
10m	0	NA	0.00		0.2	0.00	
Sensor Torque	300 CW	83	1.87		0.3	1.87	
CW: <0.1	300 CCW	-83	-1.87		0.3	1.87	
CCW: <0.1	600 CW	166	3.75		0.4	3.75	
(max 0.2 gm/cm)	600 CCW	-166	-3.75		0.4	3.75	
	900 CW	250	5.63		0.5	5.63	
Props: OK	900 CCW	-250	-5.62		0.5	5.62	

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
55M	0	NA	0.00		0.2	0.00	
Sensor Torque	300 CW	83	1.87		0.3	1.87	
CW: <0.1	300 CCW	-83	-1.87		0.3	1.87	
CCW: <0.1	600 CW	166	3.75		0.4	3.75	
(max 0.2 gm/cm)	600 CCW	-166	-3.75		0.4	3.75	
	900 CW	250	5.63		0.5	5.63	
Props: OK	900 CCW	-250	-5.62		0.5	5.62	

Sensor	Motor RPM	Ideal output m/V mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
100m	0	NA	0.00		0.2	0.00	
Sensor Torque	300 CW	83	1.87		0.3	1.87	
CW: 0.1	300 CCW	-83	-1.87		0.3	1.87	
CCW: 0.1	600 CW	166	3.75		0.4	3.75	
(max 0.2 gm/cm)	600 CCW	-166	-3.75		0.4	3.75	
	900 CW	250	5.63		0.5	5.63	
Props: OK	900 CCW	-250	-5.62		0.5	5.62	

Comments: No Final Checks

ENSR

Wind Direction Calibration

Network :	East Side Resources	Site :	Basin Electric	Date :	4/22/2008
Location:	Gettysburg, SD	Initial/Final	Initial	Technician:	BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics Model: 100076 Serial No: 179 Vane SN: 361 WD Level: 100m Range: 0 to 360 deg	Description: Radome near due west	Description: Radio Tower SE
	Direction (TRUE): 276	Direction (TRUE): 154

Sensor Performance

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.6	0.6	5.0	PASS
From Landmark 1	96.0	96.0	0.0	5.0	PASS
To Landmark 2	154.0	155.89	1.9	5.0	PASS
From Landmark 2	334.0	335.89	1.9	5.0	PASS

Sensor Linearity Check

Input Value (Degrees)	Clockwise: Das Output (Degrees)	Clockwise: Error Absolute (Degrees)	Clockwise: Error Normalized (Degrees)	Clockwise: (Pass/Fail)	Counter-Clockwise: Das Output (Degrees)	Counter-Clockwise: Error Absolute (Degrees)	Counter-Clockwise: Error Normalized (Degrees)	Counter-Clockwise: (Pass/Fail)
1	0.9	na	na	na				
2	28.4	27.5	-2.5	Pass				
3	58.8	30.5	0.4	Pass				
4	90.2	31.4	1.4	Pass				
5	121.1	30.9	0.9	Pass				
6	150.8	29.7	-0.3	Pass				
7	180.8	30.0	0.0	Pass				
8	210.3	29.5	-0.5	Pass				
9	239.7	29.4	-0.6	Pass				
10	270.2	30.5	0.5	Pass				
11	300.7	30.5	0.5	Pass				
12	330.4	29.7	-0.3	Pass				
13	0.2	29.8	-0.2	Pass				

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.6	0.6	5.0	PASS
From Landmark 1	96.0	96.0	0.0	5.0	PASS
To Landmark 2	154.0	155.89	1.9	5.0	PASS
From Landmark 2	334.0	335.89	1.9	5.0	PASS

Starting Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	3.0	8.0	Pass
CCW	3.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments:

50m WIND DIRECTION

ENSR

Wind Direction Calibration

Network :	East Side Resources	Site :	Basin Electric	Date :	4/22/2008
Location:	Gettysburg, SD	Initial/Final	Initial	Technician:	BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics	Description: Radome near due west	Description: Radio Tower SE
Model: 100076		
Serial No: 1545		
Vane SN: 1049		
WD Level: 50m	Direction (TRUE): 276	Direction (TRUE): 154
Range: 0 to 360 deg		

Sensor Performance

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	275.6	-0.4	5.0	PASS
From Landmark 1	96.0	95.1	-0.9	5.0	PASS
To Landmark 2	154.0	154.5	0.5	5.0	PASS
From Landmark 2	334.0	335.9	1.9	5.0	PASS

Sensor Linearity Check

	INITIAL				FINAL			
Input Value (Position)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)
1	5.7	na	na	na	5.7	na	na	na
2	35.1	29.4	-0.6	Pass	35.1	29.4	-0.6	Pass
3	65.1	30.0	0.0	Pass	65.1	30.0	0.0	Pass
4	96.0	30.9	0.9	Pass	96.0	30.9	0.9	Pass
5	125.9	29.9	-0.1	Pass	125.9	29.9	-0.1	Pass
6	156.3	30.4	0.4	Pass	156.3	30.4	0.4	Pass
7	185.9	29.6	-0.4	Pass	185.9	29.6	-0.4	Pass
8	215.7	29.8	-0.2	Pass	215.7	29.8	-0.2	Pass
9	246.6	30.9	0.9	Pass	246.6	30.9	0.9	Pass
10	277.1	30.5	0.5	Pass	277.1	30.5	0.5	Pass
11	307.1	30.0	0.0	Pass	307.1	30.0	0.0	Pass
12	337.9	30.8	0.8	Pass	337.9	30.8	0.8	Pass
13	5.9	28.0	-2.0	Pass	5.9	28.0	-2.0	Pass

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	275.6	-0.4	5.0	PASS
From Landmark 1	96.0	95.1	-0.9	5.0	PASS
To Landmark 2	154.0	154.5	0.5	5.0	PASS
From Landmark 2	334.0	335.9	1.9	5.0	PASS

Starting Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	1.0	8.0	Pass
CCW	1.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments: Replaced 50 m crossarm 4/22/08

NSR

Wind Direction Calibration

Network :	East Side Resources	Site :	Basin Electric	Date :	4/22/2008
Location:	Gettysburg, SD	Initial/Final	Initial	Technician:	BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics	Description: Radome near due west	Description: Radio Tower SE
Model: 100076		
Serial No: 4829		
Vane SN: 3719		
WD Level: 10m	Direction (TRUE): 276	Direction (TRUE): 154
Range: 0 to 360 deg		

Sensor Performance

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.8	0.8	5.0	PASS
From Landmark 1	96.0	94.4	-1.6	5.0	PASS
To Landmark 2	154.0	154.3	0.3	5.0	PASS
From Landmark 2	334.0	336.1	2.1	5.0	PASS

Sensor Linearity Check

	Clockwise				Counter-Clockwise			
Input Value (Degrees)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)
1	0.1							
2	27.9	27.8	-2.2	Pass				
3	58.3	30.4	0.4	Pass				
4	88.7	30.4	0.4	Pass				
5	119.2	30.5	0.5	Pass				
6	149.7	30.5	0.5	Pass				
7	179.8	30.1	0.1	Pass				
8	210.6	30.8	0.8	Pass				
9	240.3	29.7	-0.3	Pass				
10	270.6	30.3	0.3	Pass				
11	301.9	31.3	1.3	Pass				
12	332.2	30.3	0.3	Pass				
13	0.1	27.9	-2.1	Pass				

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.8	0.8	5.0	PASS
From Landmark 1	96.0	94.4	-1.6	5.0	PASS
To Landmark 2	154.0	154.3	0.3	5.0	PASS
From Landmark 2	334.0	336.1	2.1	5.0	PASS

Initial Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	2.0	8.0	Pass
CCW	2.0	8.0	Pass

Final Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	2.0	8.0	Pass
CCW	2.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments: Replaced Bearings

ENSR | AECOM

Temperature/Delta Temperature Calibration Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial Technician: BCJ

Sensor /Instrument

Make:	Climatronics	Make:	Climatronics	Make:	Climatronics	Make:	Climatronics
Model:	100093	Model:	100093	Model:	100093	Model:	100093
Serial No:	8022	Serial No:	8027	Serial No:	8030	Serial No:	8036
Cal. Date:	NA	Cal. Date:	NA	Cal. Date:	NA	Cal. Date:	NA
Temp Level:	2m	Temp Level:	10m	Temp Level:	50m	Temp Level:	100m

Temperature Standard Information		Asiprators Level/Height	Condition
Make:	Techne	2m:	ok
Model:	4400	10m:	ok
Serial No:	304004	55m	ok
Cal. Date:	1/22/08	100m	ok

Temp Range: -30C to 50C

Delta Temp Range: -10C to 10C

INITIAL SYSTEM CHECKS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	32.0	0.02	0.16	0.14	PASS
10M	32.0	0.02	0.16	0.14	PASS
55M	32.0	0.02	0.08	0.06	PASS
100M	32.0	0.02	0.17	0.15	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
-0.01	10-2 Δ T	PASS
-0.07	50-10 Δ T	PASS
0.09	100-50 Δ T	PASS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	77.2	25.10	24.94	-0.16	PASS
10M	77.2	25.10	24.95	-0.15	PASS
55M	77.2	25.10	24.96	-0.14	PASS
100M	77.2	25.10	24.94	-0.16	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
-0.04	10-2 Δ T	PASS
0.01	50-10 Δ T	PASS
0.01	100-50 Δ T	PASS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	116.0	46.65	46.57	-0.08	PASS
10M	116.0	46.65	46.56	-0.09	PASS
55M	116.0	46.65	46.63	-0.02	PASS
100M	116.0	46.65	46.50	-0.15	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
0.07	10-2 Δ T	PASS
-0.01	50-10 Δ T	PASS
0.00	100-50 Δ T	PASS

Comments:

ENSR | AECOM

Relative Humidity Calibration

Network: East Side Resources Site: Basin Electric Date: 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial Technician: BCJ

Sensor /Instrument		Relative Humidity Standard	
Make:	Vaisala	Make:	Rotronic
Model:	HMP45AC	Model:	Hygropalm 1
Serial No:	A1320004	Serial No:	42489026-134923
Cal. Date:	NA	Cal. Date:	1/29/2008

Initial System Checks

Run	Reference RH	DAS RH	Error %	Required Accuracy (± 10%)	PASS/FAIL
1	26.4	28.4	7.6	2.64	PASS
2	25.7	27.5	7.0	2.57	PASS
3	25.8	27.5	6.6	2.58	PASS
AVG	26.0	27.8	7.1	2.60	PASS

Final System Checks

Run	Reference RH	DAS RH	Error %	Required Accuracy (± 10%)	PASS/FAIL
1					
2					
3					
AVG					

Comments: no final checks

ENSR | AECOM

Barometric Pressure Calibration

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final: Initial Technician: BCJ

Sensor /Instrument	Barometric Pressure Standard
Make: Setra	Make: Meriam
Model: 278	Model: 335
Serial No: 2500480	Serial No: 949570-A1
Cal. Date: NA	Cal. Date: recert. Date 7/19/2008

Initial System Checks

Run	Reference Pressure (mm Hg)	DAS Pressure (mm Hg)	Error	PASS/FAIL
1	709.7	708.4	1.30	PASS
2	709.7	708.5	1.20	PASS
3	709.7	708.5	1.20	PASS
AVG	709.7	708.5	1.23	PASS

Final System Checks

Run	Reference Pressure (mm Hg)	DAS Pressure (mm Hg)	Error
1			
2			
3			
AVG			

Comments: No final cal needed

ENSR | AECOM

Tipping Bucket Type Rain Gauge

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final Initial Technician: BCJ

Sensor /Instrument		Precip Audit Standards	
Make:	MET ONE	Make:	Novalynx
Model:	385	Model:	264-2545
Serial No:	F7976	Serial No:	948
Cal. Date:	NA	Cal. Date:	NA

Initial System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	West Facing	East Facing
1st Test		
2nd Test		
3rd Test		
Average		

System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	West Facing	East Facing
1st Test		
2nd Test		
3rd Test		
Average		

Manufacturer Set Point ==> 18 mL=1 tip = 0.1 mm/tip= 0.010 in. of rain

Volume Check : 800 m/L = 4.44 mm = 0.44 in. of rain

DAS Value : 0.43 in of rain

Error : -2.3% (+/- 10% of designated value)

Heater Operational? : Yes

Comments:

ENSR | AECOM

Solar Radiation Audit Form

Network : East Side Resources Site : Basin Electric Date : 4/22/2008

Location: Gettysburg, SD Initial/Final Initial Technician: BCJ

Sensor /Instrument		Solar Audit Standard Informaton			
		Solar Standard		DVM Standard	
Make:	Eppely	Make:	Eppely	Make:	Fluke
Model:	08/01/48	Model:	8-48	Model:	87V
Serial No:	17696	Serial No:	23154	Serial No:	89250710
Cal. Date:	NA	Cal. Date:	1/18/08	Cal. Date:	1/11/08
Sensor µV-m²/W:	12.18	Sensor µV-m²/W:	9.99		

System Checks

Check 1

Run	Reference mV	Reference W/m²	DAS W/m²
1	2.43	243.2	234.6
2	2.39	239.2	231.7
3	2.41	241.2	233.8
AVG	2.41	241.2	233.4

Tolerance ± 5% of Standard between Solar Reference and DAS : -3.3%

Check 2

Run	Reference mV	Reference W/m²	DAS W/m²
1	5.52	552.6	569.1
2	5.50	550.6	521.0
3	5.52	552.6	541.3
AVG	5.51	551.9	543.8

Tolerance ± 5% of Standard between Solar Reference and DAS : -1.5%

Comments: Changed multiplier from 82.1 to 89.5

STATION 1

BAM 1020 Calibration Sheet

Model:	1020
S/N	G 4595
Audit Date:	4/24/2008

Audited By: BCJ

Flow Audits			
	Model	**S/N**	**Cal Date:**
Flow Reference Standard Used:	Bios DC-HC-1	1837	1/23/2008
Temperature Standard Used:	Techne 4400	304004	1/22/2008
Barometric Standard Used:	Meriam 350	949570	1/20/2008(exp7/19/08)

Leak Check Value (LPM): as found: 0.2 as left: 0.1

		BAM	Ref. Std.			BAM	Ref. Std.
Ambient Temperature:	as found:	4.6	4.2	C	as left:	4.2	4.2
Barometric Pressure:	as found:	702	702	mmHg	as left:	702	702
Flow Rate (Actual Volumetric):	as found:	16.7	16.4	lpm	as left:	16.7	16.7
Flow Rate (EPA Sandard):	as found:			lpm	as left:		

Mechanical Audits		
	as found:	**as left:**
Pump muffler unclogged:	yes	yes
Sample nozzle clean:	yes	yes
Tape support vane clean:	yes	yes
Capstan shaft clean:	yes	yes
Rubber pinch rollers clean:	yes	yes
Chassis Ground wire installed:	yes	yes
PM 10 Particle trap clean:	yes	yes
PM 10 drip jar empty:	yes	yes
PM 10 bug screen clear:	yes	yes
PM 2.5 particle trap clean:	yes	yes
Inlet ube water tight seal OK:	yes	yes
Inlet tube perpendicular to BAM:	yes	yes

Flow Control Range	
Flow Setpoint (LPM)	**BAM Flow (LPM)**
15	15.0
16.7	16.7
18.4	18.4

Membrane Audit	
LAST m (mg):	0.8
ABS (mg):	0.796
Difference (mg):	-0.004
% Difference:	-0.50

Setup and Calibration Values								
Parameter	**Expected**	**Found**	**Parameter**	**Expected**	**Found**	**Parameter**	**Expected**	**Found**
Clock time/date	OK	OK	FLOW TYPE	Actual	Actual	AP	150	150
RS232	9600 8N1	9600 8N1	Cv	0.998	0.998	FR1	10	10
STATION #	1	1	Qo	0.000	0.000	FRH	20	20
RANGE (mg)	1.00	1.00	ABS	0.796	0.796	Password	F1 F2 F3 F4	F1 F2 F3 F4
BAM SAMPLE (min)	42	42	µsw:	0.306	0.306	Cycle Mode	Standard	Standard
MET SAMPLE (min)	60	60	K FACTOR	0.956	0.956	RH Control	Yes	Yes
OFFSET (mg)	-0.015	-0.015	BKGD	-0.0032	-0.0032	RH Setpoint (%)	35	35
CONC UNITS	mg/m3	mg/m3	STD TEMP (C°)	25	25	Datalog RH (CH4)	Yes	Yes
COUNT TIME (min)	8	8	HEATER	Auto	Auto	Delta-T Control	No	No
FLOW RATE (LPM)	16.7	16.7	e1	-0.005	-0.005	Delta-T Set. (C°)	10	10
CONC TYPE	Actual	Actual	Errors	none	none	Datalog D/T (CH5)	Yes	Yes

Last 6 Errors in BAM 1020 Error Log					
Error	**Date**	**Time**	**Error**	**Date**	**Time**
1			4		
2			5		
3			6		

Comments:

ENSR

STATION 2

BAM 1020 Calibration Sheet

Model:	1020
S/N	G 4594
Audit Date:	4/24/2008

Audited By: BCJ

Flow Audits			
	Model	S/N	Cal Date:
Flow Reference Standard Used:	Bios DC-HC-1	1837	1/23/2008
Temperature Standard Used:	Techne 4400	304004	1/22/2008
Barometric Standard Used:	Meriam 350	949570	1/20/2008(exp7/19/08)

Leak Check Value (LPM): as found: 0.2 as left: 0.2

		BAM	Ref. Std.			BAM	Ref. Std.
Ambient Temperature:	as found:	3.8	3.8	C	as left:	3.8	3.8
Barometric Pressure:	as found:	702	702	mmHg	as left:	702	702
Flow Rate (Actual Volumetric):	as found:	16.7	16.7	lpm	as left:	16.7	16.7
Flow Rate (EPA Sandard):	as found:			lpm	as left:		

Mechanical Audits		
	as found:	as left:
Pump muffler unclogged:	yes	yes
Sample nozzle clean:	yes	yes
Tape support vane clean:	yes	yes
Capstan shaft clean:	yes	yes
Rubber pinch rollers clean:	yes	yes
Chassis Ground wire installed:	yes	yes
PM 10 Particle trap clean:	yes	yes
PM 10 drip jar empty:	yes	yes
PM 10 bug screen clear:	yes	yes
PM 2.5 particle trap clean:	yes	yes
Inlet ube water tight seal OK:	yes	yes
Inlet tube perpendicular to BAM:	yes	yes

Flow Control Range	
Flow Setpoint (LPM)	BAM Flow (LPM)
15	15.0
16.7	16.7
18.4	18.4

Membrane Audit	
LAST m (mg):	0.828
ABS (mg):	0.827
Difference (mg):	-0.001
% Difference:	-0.12

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock time/date	OK	OK	FLOW TYPE	Actual	Actual	AP	150	150
RS232	9600 8N1	9600 8N1	Cv	0.9	0.9	FR1	10	10
STATION #	2	2	Qo	-0.097	-0.097	FRH	20	20
RANGE (mg)	1.000	1.000	ABS	0.827	0.827	Password	F1 F2 F3 F4	F1 F2 F3 F4
BAM SAMPLE (min)	42	42	µsw:	0.303	0.303	Cycle Mode	Standard	Standard
MET SAMPLE (min)	60	60	K FACTOR	0.949	0.949	RH Control	Yes	Yes
OFFSET (mg)	-0.015	-0.015	BKGD	-0.0064	-0.0064	RH Setpoint (%)	35	35
CONC UNITS	mg/m3	mg/m3	STD TEMP (C°)	25	25	Datalog RH (CH4)	Yes	Yes
COUNT TIME (min)	8	8	HEATER	Auto	Auto	Delta-T Control	No	No
FLOW RATE (LPM)	16.7	16.7	e1	-0.005	-0.005	Delta-T Set. (C°)	10	10
CONC TYPE	Actual	Actual	Errors	none	none	Datalog D/T (CH5)	Yes	Yes

Last 6 Errors in BAM 1020 Error Log							
	Error	Date	Time		Error	Date	Time
1	NONE			4			
2				5			
3				6			

Comments:

Bios International Calibration Certificate

Report No. 65434
Product DC-HC-1
Serial No. 1837
Cal. Date 23 January 2008
Annual Maint. Recommended

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525
Acct. No. ENSFOR-2
PO No.

NVLAP®
NVLAP Lab Code 200661

As Received Test Data

Calibration Standards Used

All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-24 110409	ML-500 Medium Flow Cell	5/4/2007	5/4/2008
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008

Technician Zenaida Ortiz **Lab. Pressure** 756.19 mmHg
Lab. Temperature 22.2 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
501.9	500.14	110409	0.35 %	1.00%	in tolerance
4998	5007.05	102677	-0.18%	1.00%	in tolerance
49140	49003.5	102677	0.28 %	1.50%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

As Shipped Test Data

Calibration Standards Used

All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-24 110409	ML-500 Medium Flow Cell	5/4/2007	5/4/2008
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008

Technician Zenaida Ortiz **Lab. Pressure** 757.51 mmHg
Lab. Temperature 22.6 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
501.9	500.275	110409	0.32 %	1.00%	in tolerance
5004	5009.05	102677	-0.10%	1.00%	in tolerance
49320	49032	102677	0.59 %	1.50%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

Each DryCal flow calibrator is dynamically tested by comparing it to a laboratory standard primary piston prover of much higher accuracy (±0.25% or better) but of similar operating principles. Flow generators of ±0.03% stability are used for the comparison. Use of provers of similar construction to the device under test assures the validity of the flow generator as a transfer standard. The primary laboratory standards are qualified by direct measurement of their dimensions (diameter, length of measured path, time base) against NIST traceable gauges and instruments (NIST numbers available upon request). A rigorous analysis of their accuracy in accordance with the International Guide to Uncertainty in Measurements has been performed, assuring their traceable accuracy. Test procedures ensure temperature matching of the laboratory standards and the device under test.

Bios International Corporation
10 Park Place, Butler, NJ 07405 USA
www.biosint.com

Printed 23 January 2008

CAL02-15 Rev A *This report shall not be reproduced except in full, without the written approval of Bios International Corporation. Results only relate to the items calibrated.*
All calibrations performed in accordance with ISO 17025.

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: info@eppleylab.com Internet: www.eppleylab.com

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STANDARDIZATION OF EPPLEY BLACK & WHITE PYRANOMETER Model 8-48

Serial Number: 23154

Resistance: 351 Ω at 23 °C
Temperature Compensation Range: -20 to 40 °C

This radiometer has been compared with Standard Black & White Pyranometer, Serial Number 14061 in Eppley's Integrating Hemisphere under radiation intensities of approximately 700 watts meter^{-2} (roughly one half a solar conatant).

As a result of a series of comparisons, it has been found to have a sensitivity of:

9.99 x 10^{-6} volts/watts meter^{-2}

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 1400 watts meter^{-2}. This radiometer is linear to within ±1.0% up to this intensity.

The calibration of this instrument is traceable to standard self-calibrating cavity pyrheliometers in terms of the Systems Internationale des Unites (SI units), which participated in the Tenth International Pyrheliometric Comparisons (IPC X) at Davos, Switzerland in September-October 2005.

Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy. Unless otherwise stated in the remarks section below or on the Sales Order, the results are "AS FOUND / AS LEFT".

Useful conversion facts: 1 cal cm^{-2} min^{-1} = 697.3 watts meter^{-2}
1 BTU/ft^2-hr^{-1} = 3.153 watts meter^{-2}

Shipped to:
ENSR
Ft. Collins, CO

S.O. Number: 61464
Date: January 18, 2008

Date of Test: January 14, 2008

In Charge of Test: R. T. Egeman

Reviewed by: Thomas D. Kurb

Remarks:

meriam
process technologies

a Scott Fetzer company

A36637- 20 - 11
E.O. 5706

Date of Issue: 1/20/2007

Certificate of Calibration
Precision Absolute Manometer 355 (.02%)

Certification Date: 1/19/2007

Recertification Date: 7/19/2008

Sensor I.D. AI92YL29.83

Model Number/Range: 355-AI0900 / 0-900 MMHGA

Serial Number: 949570-A1

The Meriam Instrument Company hereby certifies the accuracy of the above listed instrument to be ± 0.02% of F.S. [includes combined effects of linearity, repeatability, hysteresis and temperature]. This accuracy was verified in accordance with Meriam Instrument procedure A35924 and is traceable to the National Institute of Standards and Technology through the below listed laboratory standards.

Standard #1: C-85 Piston/Mass Set 38342

Standard #2: N/A

Standard #3: N/A

Standard #4: N/A

Standard #5: N/A

Standard #6: N/A

Room Ambient Conditions: Temperature: 22°C ± 3°C Relative Humidity: 10% - 55% RH

As Received Condition

___ In Tolerance

Out of Tolerance

Inoperative

X N/A

As Left Condition

X In Tolerance

___ Out of Tolerance

___ Inoperative

Comments:

There are no special limitations of use imposed on this item due to calibration. We suggest the instrument be evaluated (Recertification Date), however, your particular quality system requirements may supersede this date.

This Certificate of Calibration is provided as support documentation for the customer and may not be reproduced, except in full, without written permission of the issuing organization.

The standards and calibration program are based on the guidelines of ANSI/NCSL Z540-1-1994 and ISO 17025.

Issued By: Jim Poorman JP

10920 Madison Avenue | Cleveland, Ohio 44102 | 216.281-1100 | FAX 216.281-0228
www.meriam.com

CERTIFICATE OF CONFORMANCE

MODEL HYGROCLIP-S SN 134923

Rotronic Instrument Corporation certifies that this instrument was calibrated prior to shipment in accordance to the applicable calibration procedures and meets the published specifications. Detailed specifications are available in the instruction manual.

Rotronic Instrument also certifies that the instrument has been calibrated using standards and instruments traceable to the National Institute of Standards and Technology (NIST). All reference instrumentation is calibrated on a regular and scheduled basis using standards also traceable to NIST.

By: George Maalouf Date: 07/19/07

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By: George Maalouf Date: 07/19/07

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CERTIFICATE OF CALIBRATION

The instrument below has been presented for inspection and test as shown. The indicated work was performed using reference standards that are traceable to the National Institute of Standards and Technology. We employ industry accepted methods, those issued by recognized organizations (ASTM) or by known intrinsic standards for calibration of the device listed.

Model Number:	4400 Thermometer w/SP646	Cal Date:	1/22/2008
Serial Number:	304004	Due Date:	1/22/2009
Certificate Nbr:	20011	Asset Tag ID:	
Customer:	ENSR		
Address:	1601 Prospect Parkway Fort Collins, CO 80525-9769	PO Number:	2058009

Calibration Data:

Standard Reading	UUT As Received	UUT As Left
-15.208°C	-15.19	-15.19
39.995°C	40.00	40.00
89.988°C	89.97	89.97
125.031°C	125.01	125.01

These results meet or exceed the specified accuracy of +/- 0.05°C for this model.
Calibration procedure: **30109** Test ambient: 23 +/- 3.0 deg. Humidity %: 16

Our calibrations are performed in compliance with the requirements of ISO9000:2000 and ANSI/NCSL Z540-1994. We adhere to the following ASTM standards where applicable, E220-07, E563-02, E1137-04, and E644-06. Information contained in NIST technical note 1265, "Guidelines for realizing the International Temperature of 1990 (ITS90)" is used for PRT calibrations. This calibration certificate and attached data shall not be reproduced without the written approval of Techne Inc. These results relate only to the item calibrated or tested whereby the accuracy is based on the manufacturers published specifications.

Measurement and Test Equipment:

Asset Nbr:	Model Nbr:	Manufacturer:	Cal Date:	Cal Due Date:
1052	Tecal Accutemp indicator	Techne	11/2/2007	2/2/2008
1057	832 PRT	Instrulab	1/15/2008	7/15/2008

Measurement Uncertainty (K=2): as related to the procedure listed above.

Measurement	-20 to 200°C	-40.0°C	-80.0°C	1200.0°C	232.0°C	420.0°C	660.0°C
Uncertainty	±0.048	±0.041	±0.042	±4.701	±0.045	±0.062	±0.088

Calibrated by: Darren Fuge

Verified by: David Larsen

Comments:

TECHNE

Techne Incorporated
3 Terri Lane, Suite 10
Burlington, NJ 08016
Telephone: 800-225-9243
Fax: 609-589-2571
www.techneusa.com

CERTIFICATE OF CALIBRATION AND TESTING

MODEL: **18810** (Comprised of Models 18820 Control Unit & 18831 Motor Assembly)
SERIAL NUMBER: 20101

R. M. Young Company certifies that the above equipment was inspected and calibrated prior to shipment in accordance with established manufacturing and testing procedures. Standards established by R.M. Young Company for calibrating the measuring and test equipment used in controlling product quality are traceable to the National Institute of Standards and Technology.

Nominal Motor Rpm	Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
60	320	60	600
120	640	120	1200
240	1280	240	2400
420	2240	420	4200
600	3200	600	6000
810	4320	810	8100
990	5280	990	9900
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output.
(2) Frequency output produces 320 pulses per revolution of motor shaft.
(3) Indicated on the Control Unit LCD display. Note: Divide indicated rpm by 10 to calculate actual motor rpm.

* Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration Model: DP5740 SN: 4863

Date of inspection 17 JAN 2008
Inspection Interval One Year

Tested By EC

FLUKE ® Everett Service Center

1420 75th St. SW
Everett, Washington 98203
USA

Calibration Certificate

NQA ISO 9001: 2000 Certified

Description:	TRUE RMS MULTIMETER	**Certificate Number:**	**2074974-90850057:1200048745**
Manufacturer:	FLUKE	**Date of Calibration:**	11 January 2008
Model:	87 V	**Date of Certificate:**	11 January 2008
Serial Number:	90850057	**Date Due:**	11 January 2009
Customer Name:	ENSR CONSULTING ENGINEERING	**Procedure Name:**	MFG MANUAL
City, State:	FORT COLLINS, CO	**Procedure Revision:**	MAY-04
Customer Item ID:	90850057	**Data Type:**	FOUND-LEFT
PO Number:	0084-09963	**Temperature:**	23 ± 3.0 °Celsius
RMA Number:	3879677	**Relative Humidity:**	25% ≤ RH ≤ 60%
		Test Result:	PASS

The Fluke Corporation, NQA ISO 9001:2000 ISO Certification No. 10100/2, certifies that the instrument identified above was calibrated in accordance with applicable Fluke calibration procedures. Its calibration processes are ISO-9001 controlled and are designed to certify that the instrument was within its published specifications at the time of calibration.

The measurement standards and instruments used during the calibration of this instrument are traceable to the United States National Institute of Standards and Technology (NIST), other reputable National Institutes, natural physical constants, consensus standards, or by ratio type measurements.

This certificate applies to only the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation. The user is obliged to have the in object recalibrated at appropriate intervals. Calibration Certificates without signature are not valid.

The Data type that could be found in this certificate is interpreted as follows:

- As Found — The unit needed adjustment and/or repair.
- As Left — The unit was adjusted and/or repaired.
- As Found/ As Left — The unit was calibrated without any adjustment and/or repair performed.

Comments:

Long Le
Metrology Technician

CERTIFICATE OF CALIBRATION AND TESTING

MODEL: **18801** (Comprised of Models 18820 Control Unit & 18830 Motor Assembly)
SERIAL NUMBER: 20101

R. M. Young Company certifies that the above equipment was inspected and calibrated prior to shipment in accordance with established manufacturing and testing procedures. Standards established by R.M. Young Company for calibrating the measuring and test equipment used in controlling product quality are traceable to the National Institute of Standards and Technology.

Nominal Motor Rpm	Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6,000	3200	6000	6000
8,100	4320	8100	8100
9,900	5280	9900	9900
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output.
(2) Frequency output produces 32 pulses per revolution of motor shaft.
(3) Indicated on the Control Unit LCD display.

* Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration Model: DP5740 SN: 4863

Date of inspection 17 JAN 2008
Inspection Interval One Year

Tested By EC

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - Apr 25, 2007 Rootsmeter S/N 9833620 Ta (K) - 295
Operator Tisch Orifice I.D. - 1170 Pa (mm) - 758.19

PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2530	4.2	1.50
2	NA	NA	1.00	0.9650	7.1	2.50
3	NA	NA	1.00	0.8820	8.4	3.00
4	NA	NA	1.00	0.8140	9.8	3.50
5	NA	NA	1.00	0.6140	17.1	6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)
1.0021	0.7998	1.2295
0.9983	1.0345	1.5873
0.9965	1.1299	1.7388
0.9947	1.2220	1.8781
0.9850	1.6043	2.4590

Qstd slope (m) = 1.52884
intercept (b) = 0.00793
coefficient (r) = 0.99997

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Va	(x axis) Qa	(y axis)
0.9944	0.7936	0.7640
0.9906	1.0265	0.9863
0.9889	1.1212	1.0804
0.9870	1.2126	1.1670
0.9774	1.5919	1.5279

Qa slope (m) = 0.95733
intercept (b) = 0.00492
coefficient (r) = 0.99997

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

ENSR

Appendix D

Meteorological and Air Quality Data Listings

02450-017-701

August 2008

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	5.0	3.7	3.9	4.4	4.6	4.2	3.3	2.7	1.5	1.6	2.8	2.7	1.9	3.1	4.9	6.1	6.1	6.7	5.2	4.4	4.3	5.3	5.1	4.9	24	6.7	1.5	4.1
4/2/08	4.7	5.6	4.1	6.8	5.1	5.8	6.0	5.8	5.6	3.9	3.2	2.5	3.1	3.3	3.9	4.8	5.6	4.9	3.4	3.8	3.4	3.6	3.6	3.7	24	6.8	2.5	4.4
4/3/08	4.6	4.9	4.0	4.1	3.0	2.5	2.5	2.1	2.9	4.3	4.4	3.7	3.3	3.7				4.0	2.7	2.2	2.9	3.9	4.6	4.6	21	4.9	2.1	3.6
4/4/08	5.1	5.0	4.8	4.4	4.8	5.1	5.3	5.1	4.8	6.0	6.0	6.4	6.2	6.1	7.1	7.6	7.4	7.7	4.6	3.9	4.1	4.0	4.2	4.3	24	7.7	3.9	5.4
4/5/08	4.0	3.8	4.2	5.2	5.5	6.2	5.8	6.5	10.2	12.4	12.6	11.7	11.9	11.4	11.0	10.6	11.1	10.9	11.3	10.7	9.6	10.2	10.6	9.9	24	12.6	3.8	9.1
4/6/08	9.1	9.7	8.1	8.1	6.9	6.4	5.5	5.4	6.1	7.6	7.5	7.6	9.4	11.0	13.3	12.3	12.9	11.1	7.1	7.0	7.8	7.4	7.2	6.3	24	13.3	5.4	8.4
4/7/08	5.7	5.4	4.5	4.7	4.4	4.7	5.2	3.8	3.7	2.8	3.3	2.7	1.9	2.3	2.9	2.3	2.2	2.0	2.4	2.3	1.9	2.2	2.2	3.4	24	5.7	1.9	3.3
4/8/08	3.8	3.1	2.4	1.6	1.1	1.5	1.6	2.2	1.8	2.9	2.7	2.7	3.3	4.7	5.5	5.1	5.0	5.6	4.7	2.9	3.7	4.2	4.6	4.4	24	5.6	1.1	3.4
4/9/08	4.5	5.8	5.6	4.8	4.1	3.5	4.5	5.1	6.3	8.2	8.7	9.3	9.0	7.8	7.6	7.6	7.3	7.4	5.1	2.6	3.3	4.3	6.3	7.3	24	9.3	2.6	6.1
4/10/08	5.7	4.5	4.3	6.9	7.9	6.4	6.7	5.1	6.3	7.2	8.4	9.6	10.4	9.6	9.7	10.0	10.6	9.2	9.6	10.8	11.8	11.8	12.0	12.9	24	12.9	4.3	8.6
4/11/08	13.5	12.3	12.1	12.6	11.7	12.0	11.6	11.0	12.1	11.9	12.6	12.8	11.8	12.4	12.0	11.2	12.0	10.8	8.1	4.1	4.3	5.6	5.4	3.7	24	13.5	3.7	10.3
4/12/08	3.8	4.7	5.7	6.2	6.0	5.5	5.6	6.3	6.8	8.5	9.5	10.1	9.9	10.0	10.1	10.4	10.8	9.8	6.9	4.4	3.7	3.1	2.2	2.5	24	10.8	2.2	6.8
4/13/08	2.1	2.8	4.5	4.3	4.5	4.8	3.8	3.6	4.8	4.1	3.4	3.6	3.1	2.7	2.4	2.0	1.9	1.7	1.2	3.9	5.1	4.3	5.0	5.6	24	5.6	1.2	3.6
4/14/08	6.3	5.6	5.9	6.4	5.9	4.5	4.9	6.4	7.9	9.6	10.2	10.8	10.0	10.1	10.2	10.4	9.8	9.0	8.7	8.3	8.4	8.3	8.2	9.2	24	10.8	4.5	8.1
4/15/08	10.8	9.2	8.6	7.6	7.0	6.9	8.2	9.9	10.8	10.9	10.6	10.7	10.6	11.7	11.3	12.6	11.0	9.3	6.5	5.5	6.7	7.3	9.9	9.5	24	12.6	5.5	9.3
4/16/08	8.6	7.4	9.8	11.5	8.5	8.9	7.7	7.9	8.0	9.4	9.9	9.2	9.7	7.2	7.5	6.6	5.4	5.4	5.0	3.7	4.8	5.1	5.3	5.4	24	11.5	3.7	7.4
4/17/08	4.8	3.6	3.7	4.9	3.6	2.6	2.5	1.6	2.3	2.1	2.0	2.4	2.8	2.7	3.0	3.2	2.6	2.0	1.9	1.0	1.4	2.8	2.9	3.5	24	4.9	1.0	2.7
4/18/08	4.1	4.6	4.9	4.7	4.4	4.8	3.8	3.4	4.0	3.0	2.0	2.2	2.8	2.5	3.0	2.5	2.5	2.4	2.7	4.5	5.5	6.6	6.8	5.7	24	6.8	2.0	3.9
4/19/08	5.9	4.8	4.2	4.3	4.9	4.0	3.4	4.6	6.0	8.1	8.0	8.2	8.5	8.5	8.4	8.8	8.7	8.3	6.4	5.5	6.6	8.2	8.2	8.9	24	8.9	3.4	6.7
4/20/08	10.1	10.5	10.5	10.5	10.1	9.3	8.8	10.3	13.0	14.9	13.8	14.8	15.1	14.3	13.5	12.0	11.8	10.9	9.5	7.1	6.1	7.7	4.3	4.0	24	15.1	4.0	10.5
4/21/08	12.4	15.1	13.7	14.0	13.5	13.1	12.8	12.7	12.9	11.7	10.3	9.7	9.1	8.8	7.7	5.5	5.4	4.8	3.3	1.7	0.6	1.3	1.7	1.4	24	15.1	0.6	8.5
4/22/08	3.5	3.9	4.3	4.5	4.2	4.6	5.5	5.6	8.3	9.0	8.5	5.9													12	9.0	3.5	5.7
4/23/08														9.2	9.2	9.0	8.7	10.9	8.7	7.4	6.6	5.0	5.7	7.1	11	10.9	5.0	8.0
4/24/08	3.6	3.3	6.7	3.5	2.3	2.9	6.4	5.5	6.8	7.6	7.4	7.8	7.5	9.0	8.4	8.8	8.7	8.8	9.6	8.7	9.0	9.3	8.7	8.5	24	9.6	2.3	7.0
4/25/08	9.1	9.0	10.5	9.8	9.6	8.5	9.7	9.8	10.2	10.1	10.0	10.1	11.4	12.4	12.5	11.8	11.7	11.1	9.0	6.8	5.8	4.7	5.0	4.3	24	12.5	4.3	9.3
4/26/08	4.5	4.7	5.2	4.5	5.0	5.4	4.7	6.4	9.1	11.7	12.9	13.3	13.7	14.2	14.5	13.7	12.9	11.3	9.1	5.6	3.8	4.4	5.9	6.2	24	14.5	3.8	8.4
4/27/08	5.4	5.8	6.2	6.5	5.7	4.8	4.8	5.6	4.2	4.4	5.1	7.8	8.3	10.0	11.1	10.9	9.5	8.4	6.7	4.0	3.0	2.8	1.7	0.9	24	11.1	0.9	6.0
4/28/08	2.0	2.3	1.3	1.4	1.5	1.4	1.7	2.8	3.7	3.4	3.3	3.3	3.6	3.9	4.1	4.7	5.1	5.7	5.7	5.9	6.8	7.8	7.7	8.0	24	8.0	1.3	4.0
4/29/08	7.9	8.7	11.0	9.8	8.0	7.6	8.7	9.1	8.0	7.1	6.0	5.6	6.1	6.3	6.6	6.9	7.3	7.8	7.0	5.8	7.3	7.5	6.9	7.4	24	11.0	5.6	7.5
4/30/08	7.8	9.4	8.7	8.7	9.2	11.0	8.8	9.8	10.0	10.1	10.2	9.4	10.6	10.1	8.9	8.8	7.9	8.1	8.3	5.9	4.8	5.2	4.4	5.4	24	11.0	4.4	8.4
																									0			
hr max	13.5	15.1	13.7	14.0	13.5	13.1	12.8	12.7	13.0	14.9	13.8	14.8	15.1	14.3	14.5	13.7	12.9	11.3	11.3	10.8	11.8	11.8	12.0	12.9				
hr min	2.0	2.3	1.3	1.4	1.1	1.4	1.6	1.6	1.5	1.6	2.0	2.2	1.9	2.3	2.4	2.0	1.9	1.7	1.2	1.0	0.6	1.3	1.7	0.9				
average	6.2	6.2	6.3	6.4	6.0	5.8	5.9	6.1	6.8	7.4	7.4	7.5	7.7	7.9	8.2	8.1	7.9	7.4	6.2	5.2	5.3	5.7	5.7	5.8				

monthly max hr	monthly min hr	monthly ave hr
15.1	0.6	6.6
4/20/08	4/21/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	6.8	5.7	6.6	7.0	7.4	7.1	5.9	4.3	2.5	1.9	3.2	3.1	2.1	3.5	5.6	7.3	7.3	8.3	7.3	8.0	9.1	8.6	8.3	7.3	24	9.1	1.9	6.0
4/2/08	7.2	10.4	8.8	9.5	7.2	10.4	10.3	8.4	6.5	4.4	3.5	2.8	3.6	3.7	4.5	5.5	6.3	5.6	4.7	4.6	4.0	3.6	4.7	6.8	24	10.4	2.8	6.1
4/3/08	10.0	9.2	7.3	7.1	4.0	3.4	3.8	4.8	3.9	4.7	4.9	4.2	3.8	4.1				4.6	4.2	3.4	2.6	3.3	6.4	8.6	21	10.0	2.6	5.2
4/4/08	9.8	9.9	10.4	9.0	9.3	10.5	10.3	8.4	5.9	6.5	6.6	7.1	6.9	6.7	7.9	8.6	8.4	8.8	6.6	5.7	5.5	5.3	4.3	4.4	24	10.5	4.3	7.6
4/5/08	4.9	6.0	7.7	7.9	8.8	10.3	9.3	9.2	13.5	16.0	15.6	14.2	14.8	14.0	13.2	11.9	13.1	14.7	14.8	14.4	13.1	13.3	14.3	13.6	24	16.0	4.9	12.0
4/6/08	12.3	13.1	10.5	9.3	8.9	8.0	6.3	6.2	6.8	8.6	8.3	8.5	10.6	12.1	14.6	13.6	14.6	12.9	9.3	10.2	11.4	11.1	11.8	11.3	24	14.6	6.2	10.4
4/7/08	11.2	10.0	8.4	6.7	6.2	5.0	4.6	4.1	3.9	3.9	3.5	2.8	2.0	2.5	3.1	2.6	2.3	2.0	2.7	4.0	5.0	6.4	6.6	8.1	24	11.2	2.0	4.9
4/8/08	6.0	4.7	2.6	2.4	1.9	2.7	4.2	4.5	1.9	3.1	2.9	3.1	3.7	5.1	5.8	5.4	6.1	6.2	6.0	5.4	7.4	8.8	10.1	9.6	24	10.1	1.9	5.0
4/9/08	10.2	11.5	11.4	9.9	8.1	7.8	9.7	9.6	8.3	9.8	10.4	11.0	10.4	9.0	8.5	8.4	8.1	9.2	5.9	4.9	6.5	7.4	9.4	10.1	24	11.5	4.9	9.0
4/10/08	8.4	7.3	6.7	9.1	10.3	8.6	8.9	6.4	7.5	9.2	11.0	12.7	13.8	12.6	13.0	12.9	13.6	12.1	12.8	14.0	15.0	14.9	14.6	15.3	24	15.3	6.4	11.3
4/11/08	16.2	14.8	14.5	14.8	14.1	14.2	13.9	13.0	14.2	13.9	14.4	14.8	14.1	14.0	14.2	13.3	14.4	13.3	11.0	7.0	7.5	9.8	8.9	6.4	24	16.2	6.4	12.8
4/12/08	6.0	7.9	9.2	9.5	9.7	8.5	8.2	7.8	7.8	9.7	11.1	11.6	11.4	11.7	11.6	12.0	12.8	11.7	9.5	8.3	7.6	6.6	4.6	5.2	24	12.8	4.6	9.2
4/13/08	3.4	2.4	3.1	3.9	4.0	4.4	4.9	5.6	5.2	4.3	3.8	4.0	3.4	2.9	2.5	2.1	1.9	1.7	1.3	4.8	8.0	7.4	8.6	10.9	24	10.9	1.3	4.4
4/14/08	11.9	10.5	11.7	11.4	11.1	8.3	6.6	7.5	8.5	10.0	10.6	11.7	10.5	10.6	10.6	11.1	10.5	9.9	11.0	11.8	11.1	10.0	10.1	12.8	24	12.8	6.6	10.4
4/15/08	15.9	13.9	13.6	12.3	11.1	11.2	12.3	13.4	13.2	13.1	12.9	12.8	12.9	14.1	13.3	15.2	13.2	11.4	8.8	9.5	11.2	10.8	13.2	12.5	24	15.9	8.8	12.6
4/16/08	11.6	10.2	12.5	14.1	10.7	10.9	9.5	9.1	9.2	11.0	11.5	10.6	11.1	8.1	8.3	7.2	6.1	6.0	6.6	5.7	6.1	7.3	9.0	9.0	24	14.1	5.7	9.2
4/17/08	7.7	6.6	7.1	7.5	4.2	2.8	2.0	1.8	2.1	2.1	2.1	2.5	3.2	2.9	3.3	3.6	2.9	2.3	2.1	1.3	1.0	2.5	3.0	4.4	24	7.7	1.0	3.4
4/18/08	6.0	8.8	9.8	9.0	7.9	8.6	7.6	6.7	4.4	3.4	2.3	2.4	3.0	2.6	3.3	2.7	2.8	2.8	3.3	8.0	11.1	12.8	13.2	11.8	24	13.2	2.3	6.4
4/19/08	12.1	9.6	8.4	9.6	10.1	9.5	8.9	6.2	6.9	9.5	9.3	9.3	9.9	9.7	9.8	10.3	10.4	10.7	9.4	9.8	11.4	13.2	13.0	13.8	24	13.8	6.2	10.0
4/20/08	14.8	15.1	14.9	14.9	14.2	13.2	12.1	13.2	16.1	18.0	16.8	17.8	18.2	17.3	16.4	14.8	14.5	13.8	12.7	11.1	10.7	12.4	6.7	5.4	24	18.2	5.4	14.0
4/21/08	15.0	17.9	16.0	16.4	15.7	15.3	14.8	14.6	14.4	12.9	11.2	10.6	10.0	9.5	8.5	6.2	6.0	5.5	5.1	3.7	1.8	2.1	3.5	4.2	24	17.9	1.8	10.0
4/22/08	6.4	8.7	9.1	9.0	9.0	9.0	10.5	6.6	9.9	10.6	9.9	6.9													12	10.6	6.4	8.8
4/23/08														11.0	11.0	10.7	11.1	13.7	11.8	11.9	11.3	7.3	8.3	10.2	11	13.7	7.3	10.8
4/24/08	5.0	3.8	9.3	4.3	3.7	4.0	7.3	6.4	7.6	8.7	8.5	9.3	8.9	10.6	10.2	10.8	10.7	10.8	11.8	10.9	11.3	11.7	10.9	10.6	24	11.8	3.7	8.6
4/25/08	11.5	11.1	13.2	12.3	12.0	10.6	11.8	11.7	12.1	11.9	12.1	12.0	13.5	14.6	14.9	13.9	13.8	12.9	10.8	8.9	8.3	8.1	8.9	8.3	24	14.9	8.1	11.6
4/26/08	8.1	8.0	9.2	8.3	9.4	9.9	7.6	8.0	10.0	13.1	14.7	15.1	15.3	16.0	16.0	15.4	14.4	12.8	10.8	8.1	7.2	8.6	10.1	9.8	24	16.0	7.2	11.1
4/27/08	9.6	10.1	10.3	10.6	9.5	8.4	7.8	6.8	4.6	4.7	5.7	8.6	9.2	11.1	12.4	12.4	11.0	9.8	8.6	6.8	6.3	6.9	4.8	4.3	24	12.4	4.3	8.3
4/28/08	3.2	3.4	1.9	0.8	0.8	1.5	4.0	3.7	4.3	3.8	3.6	3.8	4.0	4.3	4.6	4.9	5.6	6.3	7.3	8.4	9.4	10.6	10.7	11.1	24	11.1	0.8	5.1
4/29/08	11.5	12.5	15.3	13.9	11.7	11.3	12.0	10.8	8.3	7.0	6.6	6.1	6.6	6.9	7.3	7.8	8.4	9.1	9.6	10.5	12.1	12.2	11.8	12.7	24	15.3	6.1	10.1
4/30/08	12.8	14.4	13.3	12.3	13.8	15.9	11.9	12.3	10.4	10.9	11.9	11.1	12.1	11.6	10.0	10.1	9.1	9.8	10.2	9.7	9.5	9.5	7.6	9.3	24	15.9	7.6	11.2
																									0			

hr max	16.2	17.9	16.0	16.4	15.7	15.9	14.8	14.6	16.1	18.0	16.8	17.8	18.2	17.3	16.4	15.4	14.6	14.7	14.8	14.4	15.0	14.9	14.6	15.3
hr min	3.2	2.4	1.9	0.8	0.8	1.5	2.0	1.8	1.9	1.9	2.1	2.4	2.0	2.5	2.5	2.1	1.9	1.7	1.3	1.3	1.0	2.1	3.0	4.2
average	9.5	9.6	9.8	9.4	8.8	8.7	8.5	8.0	7.9	8.5	8.6	8.6	8.9	9.1	9.4	9.3	9.3	8.9	8.1	8.0	8.4	8.7	8.9	9.2

monthly	monthly	monthly
max hr	min hr	ave hr
18.2	0.8	8.8
4/20/08	4/28/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
4/1/08	8.0	6.9	7.5	7.4	7.5	6.8	5.7	3.9	2.6	2.6	3.2	3.2	2.2	3.8	5.8	7.4	7.4	8.7	8.4	10.3	12.5	15.0	14.4	14.3	24	15.00	2.20	7.31
4/2/08	13.5	12.9	12.5	13.1	11.3	12.3	13.1	11.5	6.9	4.5	3.6	2.7	3.7	3.8	4.7	5.7	6.4	5.9	4.9	4.6	5.0	4.6	5.1	8.4	24	13.5	2.7	7.5
4/3/08	12.6	11.6	9.3	7.7	3.3	2.0	5.0	6.3	5.5	5.0	5.1	4.4	4.1	4.4				5.0	4.8	4.3	3.1	3.1	6.3	8.5	21	12.6	2.0	5.8
4/4/08	10.1	12.4	12.9	9.8	9.4	10.6	10.4	8.0	7.5	7.0	6.8	7.3	7.2	7.0	8.2	9.1	8.8	9.6	7.5	6.7	6.9	5.9	4.9	4.5	24	12.9	4.5	8.3
4/5/08	5.4	6.3	9.8	11.4	12.4	14.5	13.4	13.4	15.3	16.3	15.9	14.7	15.0	14.8	14.2	14.2	15.4	14.9	15.5	14.8	14.0	14.2	14.7	13.7	24	16.3	5.4	13.5
4/6/08	13.0	13.8	11.3	11.0	4.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.9	12.8	14.4	15.0	15.9	14.2	24	15.9	0.1	5.5
4/7/08	14.6	13.6	12.6	8.6	8.4	6.5	4.4	3.0	2.6	3.7	4.3	3.4	2.5	2.6	3.0	2.5	2.1	1.9	2.7	3.3	4.8	6.4	8.0	9.4	24	14.6	1.9	5.6
4/8/08	6.8	4.8	2.6	3.4	2.6	3.2	4.5	5.0	2.5	3.4	2.8	3.0	3.8	5.2	6.4	6.0	6.5	6.9	7.5	7.9	10.6	11.3	12.2	12.0	24	12.2	2.5	5.9
4/9/08	12.2	14.4	14.0	9.5	7.2	7.9	9.9	10.2	11.0	10.8	10.8	11.0	9.9	8.5	8.7	8.3	8.1	9.5	7.0	6.0	8.4	9.4	11.4	11.8	24	14.4	6.0	9.8
4/10/08	10.3	9.4	8.1	10.2	11.6	9.9	9.9	7.1	9.1	10.3	11.5	12.8	14.0	12.8	13.1	13.7	14.9	14.1	15.2	16.4	17.3	17.3	17.1	17.2	24	17.3	7.1	12.6
4/11/08	17.7	16.4	16.0	16.2	15.5	15.5	15.3	14.5	15.8	15.3	16.0	16.1	15.4	15.5	15.2	14.1	15.4	14.5	12.8	9.1	9.6	11.9	11.0	8.0	24	17.7	8.0	14.3
4/12/08	5.4	7.8	11.4	12.4	13.4	11.5	11.1	9.8	8.4	10.1	11.6	12.3	12.0	12.3	12.3	12.6	13.5	12.8	11.0	10.5	10.8	9.3	8.9	8.3	24	13.5	5.4	10.8
4/13/08	6.0	3.2	2.5	2.7	3.4	3.4	4.3	5.9	5.9	4.5	4.0	4.2	3.6	3.0	2.6	2.1	1.9	1.7	1.4	4.5	7.7	9.0	15.2	14.6	24	15.2	1.4	4.9
4/14/08	14.8	14.4	15.0	14.6	14.8	13.8	14.5	12.0	10.6	11.0	11.0	13.1	11.0	11.0	10.8	10.6	10.7	9.9	11.0	11.7	11.8	11.5	15.2	17.9	24	17.9	9.9	12.6
4/15/08	19.3	17.7	17.7	16.2	13.9	14.8	15.6	15.7	14.0	13.6	13.4	13.6	13.5	14.9	14.2	15.9	14.0	12.3	10.5	11.4	14.0	14.1	15.7	14.8	24	19.3	10.5	14.6
4/16/08	13.7	12.3	14.7	15.9	12.1	12.7	10.9	10.0	10.1	11.7	12.3	11.1	11.7	8.7	8.7	7.6	6.4	6.4	7.4	6.7	6.8	8.3	9.3	10.3	24	15.9	6.4	10.2
4/17/08	9.9	9.1	8.7	8.0	4.9	3.4	3.7	2.8	1.1	1.9	2.1	2.5	3.5	2.9	3.4	3.7	3.1	2.2	2.2	1.3	0.8	2.1	2.9	3.3	24	9.9	0.8	3.7
4/18/08	5.3	9.1	10.2	9.9	9.8	9.4	8.6	7.0	4.7	3.5	2.3	2.6	3.0	2.7	3.3	2.6	2.8	2.8	3.3	8.3	10.8	14.6	15.8	14.6	24	15.8	2.3	7.0
4/19/08	14.2	12.4	11.7	13.7	14.0	12.8	9.9	7.9	7.6	9.5	9.5	9.7	10.4	10.0	10.2	10.7	10.8	11.4	11.2	12.8	15.7	17.8	17.3	17.8	24	17.8	7.6	12.0
4/20/08	18.6	18.0	17.7	18.0	17.1	16.2	14.5	15.2	16.8	18.7	17.4	18.3	18.9	17.8	16.9	15.4	15.0	14.7	14.1	14.0	14.6	16.5	10.2	6.7	24	18.9	6.7	15.9
4/21/08	16.7	19.2	17.4	17.8	17.0	16.6	15.8	15.2	14.9	13.3	11.6	10.9	10.2	9.9	8.9	6.4	6.3	5.8	5.4	3.6	1.8	2.2	4.0	4.4	24	19.2	1.8	10.6
4/22/08	7.2	10.5	9.7	10.1	9.8	9.1	11.8	8.7	10.4	11.0	10.0	7.1													12	11.8	7.1	9.6
4/23/08														11.3	11.3	10.9	12.1	15.0	13.9	14.9	15.0	8.7	8.5	11.9	11	15.0	8.5	12.1
4/24/08	6.8	3.8	9.0	4.6	3.8	4.6	8.2	7.5	7.7	8.9	8.7	9.5	9.1	11.0	10.6	11.2	11.2	11.3	12.6	11.8	12.4	12.7	11.8	11.5	24	12.7	3.8	9.2
4/25/08	12.4	12.0	14.1	13.3	13.0	11.5	12.7	12.4	12.8	12.5	13.0	12.7	14.2	15.3	15.5	14.7	14.4	13.8	11.7	10.3	10.2	10.7	11.2	10.8	24	15.5	10.2	12.7
4/26/08	10.7	9.2	10.0	9.4	9.8	10.9	10.6	10.3	10.4	13.4	15.2	15.5	15.7	16.4	16.5	15.9	14.8	13.3	11.5	9.6	9.2	11.0	12.8	12.0	24	16.5	9.2	12.3
4/27/08	11.5	11.3	10.7	11.1	10.9	9.7	10.0	8.1	4.9	4.8	5.9	8.8	9.6	11.5	12.9	12.8	11.5	10.3	9.2	7.7	9.3	8.0	6.4	4.2	24	12.9	4.2	9.2
4/28/08	2.9	2.2	2.4	2.6	1.3	1.1	2.4	3.9	4.3	4.0	3.7	4.0	4.2	4.2	4.7	5.0	5.5	6.2	7.8	10.2	10.9	12.3	13.0	13.5	24	13.5	1.1	5.5
4/29/08	14.6	16.1	18.8	17.1	15.1	14.9	14.8	9.8	7.4	6.7	5.9	6.0	6.3	6.6	6.9	7.3	8.0	9.3	9.8	12.4	15.4	15.9	15.6	14.3	24	18.8	5.9	11.5
4/30/08	14.8	16.7	16.4	13.5	17.0	18.8	12.0	11.9	10.4	10.0	11.5	11.2	12.3	11.4	9.9	9.8	9.1	10.4	10.9	12.7	13.5	14.1	11.1	12.4	24	18.8	9.1	12.6
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	19.3	19.2	18.8	18.0	17.1	18.8	15.8	15.7	16.8	18.7	17.4	18.3	18.9	17.8	16.9	15.9	15.4	15.0	15.5	16.4	17.3	17.8	17.3	17.9	19.3	0.1	9.7
hr min	2.9	2.2	2.4	2.6	1.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4	1.3	0.8	2.1	2.9	3.3	4/15/08	4/6/08	
average	11.3	11.3	11.5	11.0	10.1	9.8	9.8	8.9	8.3	8.6	8.6	8.7	8.8	8.9	9.3	9.2	9.2	9.0	8.8	9.3	10.3	10.8	11.2	11.2			

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
4/1/08	1	340	333	330	317	305	312	312	320	310	284	283	268	232	214	209	209	199	189	185	177	177	176	175	24
4/2/08	173	179	176	178	173	184	191	203	216	240	259	276	239	231	235	247	256	255	221	189	173	167	171	172	24
4/3/08	178	186	195	198	339	329	327	2	18	13	19	357	340	322				294	291	281	246	217	209	229	21
4/4/08	225	219	228	242	236	233	246	256	274	303	305	307	289	285	283	287	279	290	293	273	265	266	232	226	24
4/5/08	285	350	27	65	71	79	69	65	74	81	83	81	82	74	72	62	60	45	37	44	50	38	44	47	24
4/6/08	49	51	51	59	50	42	29	18	9	5	4	355	358	354	349	346	345	343	335	321	331	344	335	337	24
4/7/08	358	1	353	327	324	308	294	283	299	344	24	17	68	117	107	124	121	88	62	75	103	93	111	128	24
4/8/08	196	222	242	306	99	40	57	134	77	114	118	118	99	76	64	65	70	68	68	69	93	103	108	109	24
4/9/08	112	123	130	130	132	133	136	127	128	130	139	149	159	161	169	168	167	165	172	151	125	137	133	140	24
4/10/08	122	110	78	91	100	92	97	76	65	56	50	48	40	39	45	36	32	26	22	16	12	18	24	28	24
4/11/08	28	21	16	11	9	3	1	357	359	355	356	356	357	358	357	351	360	6	18	18	351	352	6	353	24
4/12/08	322	314	317	325	335	344	335	339	354	348	355	3	5	6	5	7	7	12	18	10	359	20	18	23	24
4/13/08	3	314	291	294	297	294	281	284	285	309	336	339	324	316	307	237	28	166	194	144	150	173	179	186	24
4/14/08	185	179	182	186	178	173	168	172	172	173	172	176	172	171	169	166	168	166	164	161	164	165	171	177	24
4/15/08	184	186	183	192	191	195	190	186	190	190	186	186	191	189	216	247	250	301	357	352	335	345	348	6	24
4/16/08	17	335	330	341	341	336	338	325	322	330	351	352	1	359	334	325	331	331	316	303	298	299	293	299	24
4/17/08	300	324	331	317	316	305	323	321	312	314	352	332	271	269	289	259	269	20	301	278	174	162	166	162	24
4/18/08	165	175	187	207	200	218	221	239	252	237	243	153	161	178	223	220	171	194	156	136	137	141	145	150	24
4/19/08	152	165	176	177	179	176	171	173	162	146	139	130	120	121	123	124	129	127	122	122	108	123	121	123	24
4/20/08	129	129	127	133	137	129	124	125	131	128	125	129	133	141	145	145	138	131	121	113	107	113	69	357	24
4/21/08	316	321	329	325	323	330	325	318	326	325	328	321	325	326	341	347	349	2	9	31	142	96	73	79	24
4/22/08	106	111	118	140	147	137	148	178	184	191	207	223													12
4/23/08														88	83	85	122	140	137	124	118	85	62	208	11
4/24/08	256	137	171	311	8	347	326	334	334	341	358	354	355	352	359	354	0	4	5	3	3	7	6	7	24
4/25/08	11	357	358	5	5	356	350	349	342	345	348	345	341	340	340	339	337	333	332	334	330	319	321	331	24
4/26/08	323	310	313	296	300	303	281	296	302	309	310	312	315	324	328	326	323	320	329	331	319	306	305	304	24
4/27/08	293	296	290	275	273	261	272	284	302	292	308	322	331	331	340	335	350	357	17	41	66	89	74	81	24
4/28/08	183	178	10	8	9	37	74	89	97	114	91	110	101	140	157	164	156	153	145	137	135	139	144	141	24
4/29/08	143	146	149	145	142	142	151	160	163	168	161	154	161	160	155	155	153	150	152	149	142	140	142	144	24
4/30/08	148	149	152	157	153	148	163	162	167	160	153	150	147	153	154	153	144	130	119	109	102	105	77	72	24
																									0

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
4/1/08	307	18	22	22	20	19	22	22	22	2															10
4/2/08																									0
4/3/08					359	12	5	12	18	15	19	358	336	324				288	299	299	283	223	221	227	17
4/4/08	222	218	235	248	244	243	258	269	278	297	300	301	283	280	278	282	274	284	291	288	282	289	265	251	24
4/5/08	313	13	42	68	82	83	74	70	75	82	83	80	81	73	71	61	59	44	37	48	52	39	43	51	24
4/6/08	53	55	55	62	54	46	34	22	13	8	7	358	1	356	351	349	347	345	339	331	340	350	347	349	24
4/7/08	7	12	10	353	355	347	333	320	329	3	36	32	79	121	114	132	131	96	72	85	117	111	123	137	24
4/8/08	184	211	262	317	54	36	58	131	99	126	126	118	105	83	71	72	77	75	75	82	99	107	111	111	24
4/9/08	121	131	137	143	147	142	145	139	136	144	138	148	160	169	169	165	173	165	170	153	127	133	131	139	24
4/10/08	120	111	81	87	104	98	102	80	68	60	54	51	44	36	43	33	30	24	20	14	9	15	21	26	24
4/11/08	26	19	14	8	7	360	357	353	355	351	351	352	353	354	353	346	355	3	15	17	3	357	7	7	24
4/12/08	343	328	320	325	334	341	333	335	349	343	351	359	2	2	2	3	4	8	15	17	19	33	54	52	24
4/13/08	43	2	320	309	303	296	286	281	282	304	332	336	319	314	306	241	12	172	190	140	149	170	173	178	24
4/14/08	178	175	180	182	178	173	168	170	176	176	175	178	176	174	172	225	167	166	174	163	175	223	235	249	24
4/15/08	230	184	182	189	191	189	185	182	186	187	184	183	188	186	212	241	245	296	351	353	336	343	343	3	24
4/16/08	16	334	326	338	337	330	333	320	317	325	346	348	360	357	329	321	325	327	314	315	315	316	302	312	24
4/17/08	314	321	327	335	353	3	39	19	307	302	342	325	270	264	283	259	264	12	304	311	187	158	162	159	24
4/18/08	161	177	195	209	217	232	243	253	249	236	239	131	166	190	221	214	172	188	159	134	135	140			22
4/19/08														119	122	124	130	138	133	132	121	126	121	124	11
4/20/08	130	129	128	233	206	131	126	125	130	126	123	127	131	141	145	146	139	132	122	114	111	114	90	34	24
4/21/08	312	315	323	320	317	324	319	312	321	320	321	315	319	321	336	343	344	358	8	30	36	62	55	62	24
4/22/08	87	250	102	120	134	134	146	172	181	188	253	219													12
4/23/08														87	83	84	123	141	138	124	118	88	76	200	11
4/24/08	275	113	159	306	350	337	323	331	332	339	357	352	354	350	357	353	360	3	4	3	3	7	6	6	24
4/25/08	10	356	357	4	5	355	349	346	340	343	346	343	338	338	337	336	334	330	329	331	330	324	329	338	24
4/26/08	336	327	321	306	307	312	294	298	301	307	307	309	313	321	325	323	321	318	326	334	333	320	309	307	24
4/27/08	302	301	296	284	279	275	282	286	301	289	305	320	329	328	336	332	349	356	17	44	59	94	112	131	24
4/28/08	158	180	165	196	338	345	59	92	96	111	97	112	102	140	157	164	156	153	146	138	136	139	144	142	24
4/29/08	145	147	148	145	143	143	151	160	164	167	161	153	161	159	156	155	154	150	153	150	143	143	145	147	24
4/30/08	149	149	150	156	152	149	160	161	166	161	153	149	147	153	153	153	144	129	118	109	103	108	89	77	24
																									0

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	635
possible hours	720
data capture	88.2%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
4/1/08	12	4	4	6	355	343	353	347	332	291	285	281	272	229	221	216	216	204	196	195	192	187	187	187	24
4/2/08	187	193	194	183	184	194	203	213	229	252	267	283	248	235	242	250	258	259	232	207	188	180	177	181	24
4/3/08	186	185	184	193	294	350	346	12	27	19	20	2	339	329				297	310	314	302	258	235	236	21
4/4/08	231	230	249	264	262	263	283	302	304	308	309	310	293	289	286	291	285	294	302	302	301	308	292	288	24
4/5/08	338	38	60	77	86	91	87	83	84	89	91	89	90	82	80	71	68	53	46	51	59	47	50	55	24
4/6/08	57	59	60	66	58	50	38	26	16	11	10	1	4	359	353	351	349	347	343	341	348	356	359	2	24
4/7/08	15	22	26	19	26	26	13	358	358	22	48	48	90	124	120	140	141	105	82	94	131	130	135	145	24
4/8/08	172	201	283	329	10	33	60	129	121	137	133	118	112	89	78	79	84	81	83	95	106	111	115	114	24
4/9/08	130	139	144	156	161	152	154	150	145	139	146	156	165	168	176	174	173	171	178	160	137	140	139	147	24
4/10/08	131	124	97	101	109	103	106	85	72	64	58	55	47	46	53	43	40	35	30	24	18	25	32	36	24
4/11/08	35	29	23	18	16	8	6	3	4	0	0	1	2	2	2	355	3	12	24	24	18	14	23	28	24
4/12/08	3	346	345	346	350	354	348	347	357	352	360	8	10	10	10	11	12	17	25	29	34	53	69	68	24
4/13/08	65	44	353	334	324	318	301	294	296	315	342	347	330	331	320	259	29	191	203	151	156	178	186	190	24
4/14/08	192	192	194	194	194	190	185	182	180	179	178	181	178	177	175	173	175	173	170	169	172	174	181	187	24
4/15/08	194	194	194	197	199	196	194	192	194	195	193	193	197	195	220	249	253	304	359	2	350	355	352	11	24
4/16/08	26	346	333	345	346	339	342	330	326	334	355	356	6	5	337	329	332	332	323	328	335	335	318	329	24
4/17/08	331	333	347	5	35	63	93	112	239	299	339	329	277	268	294	269	273	20	311	317	200	167	164	167	24
4/18/08	165	183	195	212	226	234	245	252	254	243	236	129	179	189	231	207	176	192	167	142	141	144	148	152	24
4/19/08	158	165	184	191	195	192	181	179	169	153	146	137	127	128	129	130	135	134	131	132	126	130	131	134	24
4/20/08	138	139	138	142	144	141	135	134	138	135	132	135	139	148	151	151	144	138	129	123	123	124	111	131	24
4/21/08	321	324	331	328	326	333	328	321	329	329	329	324	327	329	343	351	352	6	17	40	49	78	66	74	24
4/22/08	91	103	114	126	141	142	152	179	190	196	212	228													12
4/23/08														95	92	92	131	147	146	134	132	105	102	217	11
4/24/08	293	72	154	295	301	322	327	337	337	344	2	356	1	356	4	359	5	8	10	8	9	13	11	11	24
4/25/08	15	1	2	9	10	1	354	351	345	347	350	347	343	343	342	341	340	335	334	336	337	335	341	349	24
4/26/08	350	343	331	322	319	323	317	314	308	312	312	315	318	326	330	327	326	323	331	340	341	329	321	321	24
4/27/08	317	317	311	300	296	297	301	302	308	295	311	326	334	333	341	337	353	0	23	49	61	98	117	119	24
4/28/08	140	171	202	228	265	1	44	91	104	118	109	120	111	147	162	171	164	160	154	146	143	146	150	149	24
4/29/08	152	154	154	152	151	152	158	166	171	173	167	160	166	164	163	163	160	157	159	158	154	155	160	162	24
4/30/08	162	160	157	163	159	158	166	167	173	167	159	155	153	158	160	159	151	136	126	119	118	121	106	90	24
																									0

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	6.7	4.0	3.3	3.5	4.2	3.3	4.1	6.1	10.6	17.1	12.5	17.0	26.7	30.5	14.2	10.7	10.7	10.5	8.3	6.8	5.3	5.8	6.4	5.4	24	30.5	3.3	9.7
4/2/08	5.8	5.8	5.5	6.4	5.5	5.1	6.9	7.5	7.1	10.4	13.3	20.0	22.7	26.7	26.0	18.7	13.0	13.3	6.9	3.6	2.0	1.6	1.7	2.8	24	26.7	1.6	9.9
4/3/08	4.4	4.9	4.7	4.4	20.1	5.8	7.5	8.9	10.1	9.5	12.0	20.3	32.0	24.2				12.2	8.2	9.9	7.2	2.9	4.3	2.9	21	32.0	2.9	10.3
4/4/08	1.2	4.2	3.5	6.2	4.7	4.6	4.3	4.8	6.3	7.1	9.3	11.3	14.4	13.6	17.3	14.5	11.7	7.3	5.4	6.2	2.1	3.7	4.8	5.7	24	17.3	1.2	7.3
4/5/08	7.0	4.4	6.2	7.9	8.2	8.0	8.7	8.4	8.2	8.3	8.0	9.3	9.5	9.3	9.6	9.4	9.2	7.7	7.7	7.5	7.6	8.1	7.0	7.5	24	9.6	4.4	8.0
4/6/08	7.6	7.2	7.9	7.8	7.5	8.2	8.7	7.8	6.5	6.1	5.8	6.3	5.5	5.1	4.9	5.4	5.1	5.0	4.3	3.1	3.6	4.4	4.4	3.8	24	8.7	3.1	5.9
4/7/08	3.9	7.3	7.9	6.7	7.6	7.9	4.1	9.5	6.1	7.7	10.1	12.5	27.1	18.6	14.9	20.1	12.6	12.3	6.3	5.9	10.1	8.5	23.2	8.8	24	27.1	3.9	10.8
4/8/08	10.3	6.1	10.1	23.4	11.9	13.0	16.2	31.9	26.5	12.0	19.9	21.5	15.8	14.5	10.1	8.4	8.5	7.9	8.0	7.0	6.5	5.5	5.4	5.8	24	31.9	5.4	12.8
4/9/08	6.1	6.0	6.0	5.8	5.2	4.4	5.9	6.9	7.0	7.0	8.3	9.3	9.5	10.3	9.7	8.6	7.5	6.8	6.8	7.2	10.1	6.1	6.9	6.8	24	10.3	4.4	7.3
4/10/08	7.1	7.0	8.0	7.9	7.8	8.1	8.0	10.0	8.5	8.7	8.2	8.1	7.5	8.1	7.9	7.3	7.7	6.4	5.8	5.7	6.0	6.4	5.9	6.5	24	10.0	5.7	7.4
4/11/08	6.3	6.1	6.0	5.8	5.9	5.3	5.5	5.0	7.4	6.5	5.4	5.5	5.7	6.3	6.7	7.0	6.2	6.0	6.0	8.2	5.6	4.4	5.5	6.1	24	8.2	4.4	6.0
4/12/08	6.7	5.4	5.1	5.2	4.9	4.8	5.6	5.7	6.9	6.5	7.5	8.6	8.9	9.4	9.0	9.2	7.9	7.1	6.1	3.6	3.3	9.0	4.7	4.6	24	9.4	3.3	6.5
4/13/08	9.3	6.6	2.0	2.2	2.4	2.6	3.5	4.7	6.0	9.5	19.6	20.5	28.6	51.5	33.8	61.1	50.1	41.6	19.4	5.2	4.5	5.0	5.2	5.5	24	61.1	2.0	16.7
4/14/08	5.6	5.0	5.6	6.4	5.6	5.3	5.9	6.6	6.4	6.9	7.1	7.6	8.2	8.1	7.9	7.6	7.7	6.9	6.3	6.0	6.2	6.2	6.0	6.4	24	8.2	5.0	6.6
4/15/08	6.9	7.5	6.7	7.3	8.4	8.0	8.3	7.3	8.1	8.4	8.3	9.4	10.7	8.9	11.7	9.2	7.7	22.9	6.9	5.5	4.4	6.7	6.0	6.7	24	22.9	4.4	8.4
4/16/08	6.5	8.8	5.8	10.5	8.8	5.3	5.3	5.6	6.1	5.7	6.7	7.5	7.7	13.1	13.1	12.4	12.7	12.9	5.3	4.2	3.1	4.4	3.1	2.7	24	13.1	2.7	7.4
4/17/08	2.0	14.0	5.2	3.4	5.6	6.7	5.6	8.3	10.1	21.0	44.4	41.1	49.5	49.6	37.1	44.6	26.8	40.8	35.4	11.1	6.0	2.3	3.6	2.3	24	49.6	2.0	19.9
4/18/08	2.3	6.2	3.5	3.4	6.6	4.3	2.7	7.1	8.1	19.9	54.7	55.2	38.8	63.9	48.8	51.6	55.7	34.8	13.6	4.4	5.2	5.6	5.6	5.9	24	63.9	2.3	21.2
4/19/08	5.5	5.4	5.2	4.3	3.8	3.8	5.0	6.4	7.9	8.3	10.6	10.6	10.8	11.6	11.0	11.4	9.8	7.5	6.8	5.4	6.4	6.3	6.8	6.6	24	11.6	3.8	7.4
4/20/08	6.4	6.3	6.7	6.6	7.0	6.5	7.4	7.6	6.9	7.0	8.0	7.6	8.2	8.6	8.9	9.3	8.1	7.5	6.6	6.7	6.2	6.8	9.4	31.5	24	31.5	6.2	8.4
4/21/08	5.4	5.2	6.0	6.0	5.8	5.3	5.7	5.3	6.4	6.9	9.6	9.7	10.3	11.0	12.3	15.9	11.6	10.9	8.1	12.6	40.5	12.6	6.1	11.7	24	40.5	5.2	10.0
4/22/08	12.0	4.8	5.0	5.1	5.9	5.7	7.2	7.2	8.8	9.8	11.7	17.5													12	17.5	4.8	8.4
4/23/08														8.1	8.0	9.7	12.3	6.6	6.5	6.2	6.4	10.8	8.1	28.5	11	28.5	6.2	10.1
4/24/08	17.5	30.1	35.8	12.0	10.0	12.8	5.7	6.1	6.1	5.8	6.6	7.2	6.7	7.2	6.7	5.6	6.1	6.6	5.9	6.3	6.5	6.3	6.0	6.1	24	35.8	5.6	9.7
4/25/08	6.8	5.9	6.3	6.4	6.4	5.7	6.0	5.6	5.7	6.2	6.1	5.6	5.7	6.0	5.6	6.0	6.9	5.8	5.1	4.9	4.6	4.6	4.1	4.0	24	6.9	4.0	5.7
4/26/08	6.0	4.8	5.9	5.8	4.9	4.9	6.3	6.1	6.3	7.6	6.6	7.6	7.6	8.3	7.1	7.6	8.8	8.2	6.9	4.7	4.7	5.2	4.1	4.2	24	8.8	4.1	6.3
4/27/08	4.1	4.2	4.9	4.7	4.8	5.2	6.2	6.4	10.2	12.1	15.1	12.9	12.0	9.7	11.6	11.5	8.4	8.6	9.8	5.0	6.0	7.0	16.3	36.0	24	36.0	4.1	9.7
4/28/08	14.1	25.2	39.6	7.3	6.2	5.6	7.0	9.5	13.4	21.6	26.7	38.2	29.9	26.8	28.1	15.9	12.4	11.8	6.5	6.1	6.7	6.5	6.3	6.4	24	39.6	5.6	15.7
4/29/08	6.6	6.6	6.2	6.2	6.6	6.5	6.2	7.1	7.4	9.6	10.4	13.8	11.8	13.0	12.8	11.4	10.0	8.6	6.1	5.6	5.7	5.9	6.0	6.1	24	13.8	5.6	8.2
4/30/08	6.2	6.0	6.8	8.5	7.3	6.4	6.7	6.4	7.7	8.1	9.8	10.3	9.3	9.9	10.6	11.1	12.9	8.8	8.0	6.1	6.3	6.8	9.2	7.5	24	12.9	6.0	8.2
																									0			

hr max	17.5	30.1	39.6	23.4	20.1	13.0	16.2	31.9	26.5	21.6	54.7	55.2	49.5	63.9	48.8	61.1	55.7	41.6	35.4	12.6	40.5	12.6	23.2	36.0
hr min	1.2	4.0	2.0	2.2	2.4	2.6	2.7	4.7	5.7	5.7	5.4	5.5	5.5	5.1	4.9	5.4	5.1	5.0	4.3	3.1	2.0	1.6	1.7	2.3
average	6.8	7.6	8.0	6.8	6.9	6.2	6.4	7.8	8.4	9.7	13.2	14.9	15.8	17.0	14.5	15.0	13.1	12.2	8.4	6.2	6.9	6.0	6.6	8.4

monthly	monthly	monthly
max hr	min hr	ave hr
63.9	1.2	9.7
4/18/08	4/4/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
50sigT

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
4/1/08	40.2	22.3	5.7	11.6	1.0	0.4	0.4	5.6	14.6	4.0															10	40.2	0.4	10.6
4/2/08																									0			
4/3/08					8.1	1.5	8.0	3.4	7.1	7.2	9.9	17.9	23.4	19.5				11.3	6.7	3.7	5.2	5.2	3.2	0.7	17	23.4	0.7	8.4
4/4/08	0.9	1.5	1.7	2.5	2.1	1.7	1.8	3.7	5.9	5.4	7.0	8.7	12.8	12.1	13.8	12.7	10.2	5.7	4.6	1.9	1.9	2.5	5.8	6.5	24	13.8	0.9	5.6
4/5/08	6.5	6.4	2.9	6.8	7.9	13.1	26.3	7.7	6.3	5.0	5.5	7.3	6.7	6.1	6.5	7.1	6.2	5.0	5.2	5.4	7.6	7.2	10.4	25.8	24	26.3	2.9	8.4
4/6/08	5.2	5.3	4.6	2.3	2.0	2.1	2.3	14.2	31.6	47.0	33.6	9.7	24.6	8.6	2.3	3.2	1.3	1.4	1.0	0.7	0.8	0.9	0.9	0.6	24	47.0	0.6	8.6
4/7/08	17.0	11.4	21.0	17.2	33.3	14.5	1.7	2.2	1.6	16.8	6.9	20.2	6.7	5.4	4.0	5.4	4.1	3.7	1.6	1.2	1.0	1.0	0.9	0.9	24	33.3	0.9	8.3
4/8/08	3.5	2.5	3.5	34.9	35.0	1.9	2.8	3.8	9.8	3.9	5.2	6.3	4.8	4.1	2.9	2.1	2.3	2.4	2.1	1.9	1.7	1.3	4.5	3.9	24	35.0	1.3	6.1
4/9/08	3.6	3.7	3.2	0.7	0.7	0.7	0.6	1.3	2.0	34.0	6.2	7.6	8.1	8.8	7.9	6.1	6.6	5.4	4.5	3.3	4.5	3.5	4.4	4.5	24	34.0	0.6	5.5
4/10/08	4.6	4.0	5.4	15.1	7.2	5.2	6.2	2.9	3.3	4.8	4.6	5.0	35.4	5.6	5.3	5.2	5.3	4.4	4.1	4.4	4.5	4.8	4.6	4.6	24	35.4	2.9	6.5
4/11/08	4.7	4.5	4.3	4.2	4.5	5.0	4.0	4.3	3.9	4.3	4.2	4.1	4.4	4.7	6.6	5.9	5.2	4.1	3.9	6.3	3.7	1.9	2.9	3.9	24	6.6	1.9	4.4
4/12/08	3.2	3.7	3.4	3.5	3.0	3.5	3.9	4.3	5.6	5.4	5.6	7.3	7.2	7.9	7.2	8.0	5.9	5.2	3.9	1.4	1.8	5.0	3.3	1.4	24	8.0	1.4	4.6
4/13/08	3.7	7.8	1.7	1.6	1.4	1.7	1.2	1.9	4.7	7.2	15.7	15.5	26.9	32.3	32.9	52.5	40.4	30.1	16.5	7.1	3.0	2.2	1.8	1.3	24	52.5	1.2	13.0
4/14/08	1.0	1.2	2.3	3.1	2.7	2.1	3.3	4.1	31.3	28.1	10.1	25.1	6.0	14.5	17.2	17.1	5.9	4.6	8.6	11.0	22.8	20.5	5.6	3.7	24	31.3	1.0	10.5
4/15/08	19.3	5.2	4.6	4.1	5.1	5.1	5.8	5.1	5.9	6.0	6.4	7.2	8.5	6.2	10.8	7.8	6.3	21.7	6.0	4.3	2.7	4.9	4.7	5.2	24	21.7	2.7	7.0
4/16/08	4.7	8.0	4.5	9.7	9.3	3.8	3.9	4.4	5.1	4.4	6.1	6.9	7.8	12.7	11.5	10.2	13.2	12.2	4.8	3.4	4.8	7.5	3.5	2.0	24	13.2	2.0	6.9
4/17/08	1.4	6.8	2.4	4.6	6.2	9.5	19.4	18.9	8.8	16.9	31.8	36.3	47.2	44.0	29.8	41.6	25.8	29.2	32.1	11.5	11.6	2.4	2.4	1.6	24	47.2	1.4	18.4
4/18/08	2.2	6.6	1.8	2.1	3.7	1.3	1.2	2.5	6.1	13.0	38.7	58.8	32.7	54.1	38.8	43.1	42.6	30.8	12.4	2.5	1.2	7.9			22	58.8	1.2	18.4
4/19/08														9.4	9.4	9.4	8.5	5.5	4.0	2.5	3.3	3.9	3.8	4.1	11	9.4	2.5	5.8
4/20/08	5.0	4.7	5.3	11.0	18.9	6.5	6.6	7.1	5.5	5.3	6.1	6.4	6.1	6.7	6.6	7.3	6.3	5.3	4.1	3.3	2.9	3.3	7.3	35.1	24	35.1	2.9	7.6
4/21/08	4.2	4.1	6.6	4.9	4.6	4.1	4.6	3.7	4.7	5.6	8.2	8.3	8.5	8.8	10.7	12.8	10.9	9.9	5.6	5.4	10.0	5.3	2.0	2.2	24	12.8	2.0	6.5
4/22/08	35.5	51.6	2.5	2.2	2.5	2.6	3.4	5.8	6.8	7.8	34.8	14.9													12	51.6	2.2	14.2
4/23/08														5.5	5.2	8.2	11.7	5.1	4.5	3.5	3.3	9.6	6.0	18.8	11	18.8	3.3	7.4
4/24/08	21.3	32.0	38.2	10.7	8.6	10.5	4.2	4.5	4.0	3.9	4.0	5.0	4.9	4.9	4.5	3.9	4.7	4.3	4.2	3.9	4.2	3.8	3.8	4.2	24	38.2	3.8	8.3
4/25/08	4.6	4.7	4.1	4.8	4.6	4.5	4.0	4.7	4.6	5.2	4.7	4.6	4.4	4.6	4.0	4.9	5.3	4.0	3.4	3.3	2.7	2.8	2.1	2.1	24	5.3	2.1	4.1
4/26/08	3.1	3.6	3.0	3.9	2.5	3.1	4.4	5.2	5.0	6.2	5.7	6.6	6.8	6.7	5.5	6.3	7.5	7.0	5.9	3.7	2.2	2.3	2.7	2.6	24	7.5	2.2	4.6
4/27/08	1.8	1.6	1.7	1.4	2.5	3.0	4.1	5.7	8.3	9.1	12.4	10.5	10.8	8.4	10.8	9.5	7.5	7.6	9.1	3.3	2.3	5.0	4.7	3.4	24	12.4	1.4	6.0
4/28/08	4.4	4.3	19.3	21.9	17.3	11.8	5.5	6.5	9.4	16.1	23.5	32.4	20.8	23.3	19.0	13.0	10.3	9.2	5.0	3.7	4.2	4.0	4.0	4.0	24	32.4	3.7	12.2
4/29/08	3.7	4.4	3.9	3.6	4.2	3.8	4.0	4.2	4.6	6.7	7.4	11.1	9.3	11.2	10.7	8.7	7.7	6.1	3.5	2.5	2.5	2.9	2.9	2.3	24	11.2	2.3	5.5
4/30/08	2.9	2.9	3.9	5.5	4.4	3.4	4.1	4.4	5.7	6.0	7.4	7.8	7.4	7.9	8.1	9.0	11.9	7.8	5.7	2.9	2.5	4.0	6.0	4.1	24	11.9	2.5	5.7
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	40.2	51.6	38.2	34.9	35.0	14.5	26.3	18.9	31.6	47.0	38.7	58.8	47.2	54.1	38.8	52.5	42.6	30.8	32.1	11.5	22.8	20.5	10.4	35.1	58.8	0.4	8.1
hr min	0.9	1.2	1.7	0.7	0.7	0.4	0.4	1.3	1.6	3.9	4.0	4.1	4.4	4.1	2.3	2.1	1.3	1.4	1.0	0.7	0.8	0.9	0.9	0.6	4/18/08	4/1/08	
average	8.0	8.3	6.2	7.5	7.5	4.7	5.1	5.3	7.9	10.6	12.0	13.5	13.7	12.7	11.2	12.3	10.5	9.2	6.4	4.0	4.4	4.7	4.0	5.8			

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	635
possible hours	720
data capture	88.2%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	4.7	4.1	3.8	3.3	4.2	2.9	1.9	2.9	2.9	9.5	8.8	13.7	17.2	17.2	10.0	6.9	6.9	8.2	4.5	2.2	1.9	1.7	2.1	1.8	24	17.2	1.7	6.0
4/2/08	2.0	2.6	2.6	2.7	2.4	2.3	2.1	2.6	4.1	7.4	10.6	17.7	13.6	21.5	16.2	14.5	10.8	10.3	7.4	3.1	3.0	1.1	1.3	2.6	24	21.5	1.1	6.9
4/3/08	1.3	1.3	1.1	2.1	23.2	9.7	6.9	4.3	4.4	6.4	9.8	16.6	19.9	16.6				9.9	7.5	3.9	4.4	8.5	4.6	1.1	21	23.2	1.1	7.8
4/4/08	0.6	2.1	2.0	3.2	2.1	2.2	1.6	2.9	5.1	5.6	6.8	7.8	11.5	11.3	12.4	12.5	9.6	5.0	4.7	1.9	1.1	1.9	2.3	5.5	24	12.5	0.6	5.1
4/5/08	6.3	7.3	2.1	4.1	3.6	3.0	3.8	5.1	4.2	4.2	4.2	6.2	6.4	5.2	5.4	6.2	5.3	4.5	4.5	4.4	4.9	5.5	4.3	4.4	24	7.3	2.1	4.8
4/6/08	4.7	4.2	5.2	5.0	4.6	5.3	6.3	6.2	5.1	4.3	4.8	5.5	3.9	6.0	4.5	4.7	4.0	4.0	3.3	1.6	1.6	3.6	5.0	1.7	24	6.3	1.6	4.4
4/7/08	1.6	1.0	2.5	2.4	1.1	2.6	6.7	8.6	6.6	4.9	5.3	6.9	17.3	13.1	9.5	13.1	12.5	9.4	3.7	3.8	1.8	1.5	0.7	1.6	24	17.3	0.7	5.8
4/8/08	9.4	6.0	9.6	7.9	6.3	3.6	6.0	7.2	20.2	8.6	12.3	12.3	10.5	9.1	5.7	4.1	3.2	3.9	3.5	3.1	1.6	0.8	0.6	0.9	24	20.2	0.6	6.5
4/9/08	2.8	0.6	0.9	1.4	1.7	1.7	1.7	1.7	2.7	3.7	5.3	6.9	6.8	8.0	7.7	5.7	4.5	4.4	3.7	2.8	3.3	2.8	3.2	4.1	24	8.0	0.6	3.7
4/10/08	3.3	2.8	4.6	4.8	4.8	4.8	4.4	6.4	5.3	6.0	4.8	4.7	4.0	5.0	4.4	4.6	4.2	3.2	3.2	3.5	3.9	4.2	4.0	3.9	24	6.4	2.8	4.4
4/11/08	3.8	4.3	3.8	3.8	4.1	4.0	4.7	4.8	4.0	5.3	5.6	5.7	4.5	5.2	5.5	7.2	5.4	3.8	3.1	4.3	2.8	1.2	2.4	3.6	24	7.2	1.2	4.3
4/12/08	3.8	3.3	1.9	2.4	1.8	3.3	3.1	3.9	5.9	5.3	5.8	6.9	7.4	7.7	7.1	8.0	5.8	4.8	3.4	1.3	0.9	4.6	1.0	0.8	24	8.0	0.8	4.2
4/13/08	1.0	3.4	4.9	2.4	3.0	2.3	1.3	1.5	3.9	7.1	13.7	14.9	22.7	27.7	32.0	47.0	44.2	38.8	14.8	7.3	2.4	2.3	1.4	1.5	24	47.0	1.0	12.6
4/14/08	1.6	2.0	2.2	2.1	2.6	2.5	2.6	3.4	4.0	3.9	4.0	4.6	5.2	5.4	5.3	4.4	4.6	4.1	2.8	2.2	2.5	2.8	2.8	3.7	24	5.4	1.6	3.4
4/15/08	3.1	3.4	2.9	3.4	4.8	3.7	3.2	3.8	4.4	4.5	5.0	5.9	6.9	5.5	10.4	7.2	5.8	21.4	4.6	3.8	1.6	4.8	5.7	4.7	24	21.4	1.6	5.4
4/16/08	3.9	7.6	4.0	9.6	8.4	3.2	3.5	3.9	4.6	3.9	5.8	5.9	6.8	10.9	10.5	9.3	13.0	12.4	5.0	3.3	3.2	6.4	4.1	1.8	24	13.0	1.8	6.3
4/17/08	1.6	1.9	4.7	6.4	7.2	10.3	7.2	11.8	51.9	18.7	28.1	32.1	45.6	35.5	32.2	40.9	20.7	33.7	24.7	11.8	12.9	2.2	2.2	1.5	24	51.9	1.5	18.6
4/18/08	2.5	4.9	2.5	2.4	1.5	1.1	1.1	1.7	6.1	11.6	31.3	59.5	34.8	39.0	32.3	40.8	42.7	27.5	10.1	2.4	1.1	1.4	0.8	0.8	24	59.5	0.8	15.0
4/19/08	1.1	1.1	2.9	1.9	2.0	2.2	1.6	2.3	5.4	5.0	7.6	8.0	7.8	8.2	8.6	8.3	6.8	4.5	2.8	1.5	2.1	1.6	1.9	2.0	24	8.6	1.1	4.1
4/20/08	2.4	2.5	3.1	2.7	2.7	2.7	3.7	4.1	3.9	3.8	4.7	4.8	4.9	5.9	6.0	6.6	5.5	4.0	3.1	2.2	1.9	1.7	5.8	37.9	24	37.9	1.7	5.3
4/21/08	3.1	3.4	4.7	4.2	4.2	3.6	4.1	3.1	3.8	4.8	7.0	6.9	7.6	7.3	10.1	12.0	9.9	9.3	5.4	5.4	9.0	4.2	1.6	2.7	24	12.0	1.6	5.7
4/22/08	3.8	1.9	2.0	1.1	2.5	3.0	2.3	4.7	5.7	6.1	7.5	13.3													12	13.3	1.1	4.5
4/23/08														4.7	4.4	7.4	11.4	4.2	3.6	2.5	2.6	9.1	8.1	13.3	11	13.3	2.5	6.5
4/24/08	17.4	36.2	39.9	10.4	8.6	13.5	3.6	3.9	3.6	3.3	4.9	5.3	5.9	5.0	4.9	4.7	4.0	3.4	3.6	3.5	4.4	3.6	3.7	3.8	24	39.9	3.3	8.4
4/25/08	3.8	5.4	4.7	4.6	4.1	5.7	4.9	4.7	3.9	4.7	4.2	3.7	3.4	3.7	3.6	4.5	4.3	3.5	3.3	2.9	2.0	1.8	1.6	1.6	24	5.7	1.6	3.8
4/26/08	2.2	3.1	2.6	2.7	1.4	1.8	2.4	3.6	4.7	5.3	4.8	5.4	5.7	6.1	4.9	5.6	6.6	6.3	5.5	3.5	2.6	1.5	2.2	1.9	24	6.6	1.4	3.9
4/27/08	1.6	1.2	1.6	1.8	1.0	1.2	2.0	5.0	7.1	8.1	11.4	9.6	9.9	8.0	10.6	8.8	7.8	8.1	9.1	3.2	2.4	5.0	2.3	4.6	24	11.4	1.0	5.5
4/28/08	5.2	4.2	4.7	3.2	7.5	16.8	10.9	4.3	8.1	14.1	21.0	22.4	21.9	20.8	15.6	12.6	9.5	8.1	4.8	2.4	3.1	3.0	2.8	2.8	24	22.4	2.4	9.6
4/29/08	2.6	2.8	2.3	2.2	2.5	2.0	2.5	3.7	4.0	5.8	6.6	9.6	9.0	10.2	9.2	8.1	7.2	5.2	2.4	2.2	1.5	1.6	1.1	1.4	24	10.2	1.1	4.4
4/30/08	1.4	1.8	2.2	3.9	2.1	2.1	2.6	3.7	5.4	5.4	6.5	7.4	7.0	7.5	7.2	8.0	10.9	6.6	4.5	2.3	2.0	3.2	5.0	2.8	24	10.9	1.4	4.6
																									0			

hr max	17.4	36.2	39.9	10.4	23.2	16.8	10.9	11.8	51.9	18.7	31.3	59.5	45.6	39.0	32.3	47.0	44.2	38.8	24.7	11.8	12.9	9.1	8.1	37.9
hr min	0.6	0.6	0.9	1.1	1.0	1.1	1.1	1.5	2.7	3.3	4.0	3.7	3.4	3.7	3.6	4.1	3.2	3.2	2.4	1.3	0.9	0.8	0.6	0.8
average	3.5	4.4	4.6	3.7	4.3	4.2	3.7	4.3	6.9	6.5	8.9	11.4	11.7	11.6	10.6	11.6	10.3	9.4	5.6	3.4	3.1	3.2	2.9	4.2

monthly	monthly	monthly
max hr	min hr	ave hr
59.5	0.6	6.4
4/18/08	4/4/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

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April-08
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.37	0.30	0.32	0.33	0.35	0.27	0.19	0.17	0.17	0.11	0.18	0.16	0.12	0.24	0.11	0.22	0.22	0.22	0.22	0.17	0.13	0.13	0.16	0.14	24	0.37	0.11	0.21
4/2/08	0.14	0.15	0.13	0.17	0.18	0.18	0.21	0.23	0.19	0.22	0.17	0.23	0.12	0.14	0.22	0.24	0.31	0.26	0.15	0.12	0.10	0.15	0.15	0.13	24	0.31	0.10	0.18
4/3/08	0.14	0.17	0.12	0.10	0.21	0.18	0.19	0.17	0.22	0.29	0.39	0.29	0.26	0.29				0.32	0.20	0.14	0.12	0.12	0.12	0.12	21	0.39	0.10	0.20
4/4/08	0.12	0.13	0.16	0.18	0.18	0.19	0.22	0.28	0.33	0.42	0.44	0.49	0.38	0.40	0.47	0.55	0.53	0.56	0.38	0.26	0.21	0.24	0.13	0.12	24	0.56	0.12	0.31
4/5/08	0.24	0.33	0.30	0.30	0.31	0.37	0.33	0.41	0.66	0.86	0.91	0.84	0.87	0.89	0.80	0.74	0.86	0.89	0.88	0.87	0.81	0.83	0.89	0.85	24	0.91	0.24	0.67
4/6/08	0.76	0.81	0.69	0.63	0.61	0.60	0.45	0.41	0.43	0.52	0.48	0.45	0.60	0.70	0.99	0.97	1.05	0.93	0.64	0.55	0.65	0.63	0.62	0.54	24	1.05	0.41	0.65
4/7/08	0.52	0.47	0.41	0.36	0.34	0.25	0.18	0.23	0.29	0.25	0.29	0.26	0.14	0.19	0.13	0.20	0.15	0.16	0.18	0.13	0.10	0.17	0.18	0.23	24	0.52	0.10	0.24
4/8/08	0.12	0.12	0.12	0.13	0.12	0.14	0.13	0.12	0.19	0.18	0.23	0.24	0.21	0.33	0.42	0.37	0.36	0.44	0.39	0.19	0.25	0.24	0.26	0.26	24	0.44	0.12	0.23
4/9/08	0.27	0.33	0.32	0.28	0.23	0.21	0.24	0.31	0.37	0.43	0.55	0.56	0.47	0.43	0.35	0.34	0.38	0.36	0.21	0.16	0.21	0.25	0.40	0.47	24	0.56	0.16	0.34
4/10/08	0.34	0.29	0.30	0.45	0.50	0.44	0.43	0.35	0.46	0.52	0.60	0.75	0.82	0.76	0.76	0.72	0.84	0.71	0.82	1.00	1.13	1.14	1.15	1.24	24	1.24	0.29	0.69
4/11/08	1.30	1.23	1.30	1.33	1.30	1.23	1.18	1.08	1.21	1.24	1.24	1.32	1.22	1.19	1.06	1.07	1.05	0.93	0.68	0.38	0.38	0.48	0.48	0.31	24	1.33	0.31	1.01
4/12/08	0.29	0.35	0.44	0.50	0.50	0.46	0.47	0.54	0.58	0.72	0.83	0.89	0.86	0.87	0.85	0.85	0.92	0.82	0.57	0.39	0.32	0.27	0.16	0.19	24	0.92	0.16	0.57
4/13/08	0.15	0.12	0.19	0.18	0.22	0.27	0.19	0.24	0.37	0.31	0.25	0.25	0.26	0.21	0.19	0.12	0.10	0.21	0.11	0.20	0.21	0.12	0.12	0.17	24	0.37	0.10	0.20
4/14/08	0.18	0.11	0.15	0.20	0.15	0.16	0.21	0.23	0.29	0.38	0.46	0.42	0.48	0.51	0.56	0.62	0.63	0.63	0.54	0.49	0.52	0.53	0.38	0.32	24	0.63	0.11	0.38
4/15/08	0.38	0.36	0.30	0.29	0.26	0.24	0.29	0.35	0.36	0.45	0.44	0.40	0.43	0.46	0.51	0.80	0.71	0.71	0.52	0.45	0.56	0.58	0.82	0.74	24	0.82	0.24	0.48
4/16/08	0.62	0.59	0.86	1.03	0.71	0.77	0.65	0.66	0.67	0.86	0.90	0.78	0.80	0.56	0.61	0.49	0.43	0.45	0.42	0.27	0.23	0.36	0.35	0.37	24	1.03	0.23	0.60
4/17/08	0.35	0.30	0.32	0.36	0.28	0.23	0.19	0.15	0.18	0.19	0.16	0.23	0.12	0.15	0.24	0.18	0.17	0.17	0.22	0.13	0.12	0.12	0.11	0.12	24	0.36	0.11	0.20
4/18/08	0.13	0.12	0.14	0.12	0.12	0.12	0.13	0.19	0.15	0.13	0.09	0.23	0.11	0.18	0.18	0.18	0.14	0.13	0.19	0.23	0.28	0.30	0.32	0.26	24	0.32	0.09	0.17
4/19/08	0.28	0.19	0.12	0.14	0.13	0.12	0.14	0.18	0.22	0.44	0.47	0.45	0.55	0.50	0.53	0.56	0.53	0.52	0.38	0.32	0.37	0.45	0.45	0.54	24	0.56	0.12	0.36
4/20/08	0.64	0.72	0.72	0.67	0.64	0.59	0.56	0.74	0.86	1.13	1.04	1.11	1.19	1.10	1.04	0.92	0.85	0.78	0.65	0.48	0.39	0.52	0.29	0.26	24	1.19	0.26	0.75
4/21/08	1.02	1.36	1.25	1.26	1.21	1.20	1.13	1.10	1.18	1.03	0.91	0.83	0.73	0.74	0.63	0.47	0.47	0.41	0.28	0.17	0.12	0.11	0.12	0.12	24	1.36	0.11	0.74
4/22/08	0.17	0.20	0.23	0.21	0.17	0.23	0.27	0.20	0.29	0.29	0.30	0.23													12	0.30	0.17	0.23
4/23/08														0.77	0.74	0.73	0.73	0.94	0.76	0.65	0.55	0.43	0.40	0.37	11	0.94	0.37	0.64
4/24/08	0.19	0.29	0.43	0.18	0.18	0.15	0.28	0.27	0.35	0.36	0.40	0.46	0.40	0.48	0.47	0.49	0.49	0.49	0.54	0.51	0.56	0.61	0.52	0.50	24	0.61	0.15	0.40
4/25/08	0.57	0.50	0.62	0.59	0.58	0.49	0.56	0.54	0.56	0.51	0.60	0.59	0.61	0.68	0.72	0.67	0.68	0.60	0.49	0.39	0.33	0.23	0.23	0.21	24	0.72	0.21	0.52
4/26/08	0.21	0.18	0.21	0.17	0.18	0.20	0.19	0.27	0.30	0.54	0.56	0.65	0.68	0.81	0.84	0.81	0.71	0.58	0.50	0.34	0.19	0.18	0.23	0.27	24	0.84	0.17	0.41
4/27/08	0.21	0.23	0.23	0.24	0.23	0.19	0.20	0.28	0.23	0.20	0.22	0.35	0.47	0.56	0.66	0.67	0.59	0.54	0.47	0.34	0.23	0.22	0.15	0.13	24	0.67	0.13	0.33
4/28/08	0.11	0.14	0.14	0.12	0.13	0.12	0.14	0.28	0.33	0.30	0.37	0.25	0.27	0.27	0.33	0.37	0.37	0.44	0.44	0.49	0.59	0.64	0.63	0.64	24	0.64	0.11	0.33
4/29/08	0.64	0.69	0.86	0.78	0.64	0.62	0.70	0.78	0.69	0.46	0.48	0.39	0.43	0.45	0.49	0.56	0.59	0.63	0.57	0.47	0.56	0.60	0.55	0.57	24	0.86	0.39	0.59
4/30/08	0.62	0.74	0.72	0.67	0.77	0.89	0.69	0.82	0.78	0.86	0.87	0.79	0.92	0.83	0.78	0.72	0.69	0.73	0.77	0.48	0.38	0.41	0.34	0.42	24	0.92	0.34	0.70
																									0			
hr max	1.30	1.36	1.30	1.33	1.30	1.23	1.18	1.10	1.21	1.24	1.24	1.32	1.22	1.19	1.06	1.07	1.05	0.94	0.88	1.00	1.13	1.14	1.15	1.24				
hr min	0.11	0.11	0.12	0.10	0.12	0.12	0.13	0.12	0.15	0.11	0.09	0.16	0.11	0.14	0.11	0.12	0.10	0.13	0.11	0.12	0.10	0.11	0.11	0.12				
average	0.38	0.40	0.42	0.41	0.39	0.38	0.37	0.40	0.45	0.49	0.51	0.51	0.52	0.54	0.56	0.56	0.56	0.54	0.45	0.37	0.37	0.38	0.37	0.37				

monthly max hr	monthly min hr	monthly ave hr
1.36	0.09	0.44
4/21/08	4/18/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Geltysburg S.D. Monitoring Program

April-08

mps

50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.18	0.09	0.11	0.21	0.05	0.03	0.04	0.03	0.02	-0.03	-0.03	0.04	-0.15	0.29	0.08	0.24	0.24	0.42	0.28	0.09	0.01	0.27	0.20	0.52	24	0.52	-0.15	0.13
4/2/08	0.52	-0.03	0.06	0.32	0.52	0.03	0.43	0.32	0.24	0.11	0.09	0.04	-0.15	0.08	0.10	0.14	0.14	0.10	0.12	0.11	0.14	0.35	0.17	0.15	24	0.52	-0.15	0.17
4/3/08	-0.09	-0.09	-0.03	0.12	0.06	0.03	0.01	0.11	0.01	0.07	0.21	0.14	0.10	0.03				0.04	0.07	0.01	-0.01	0.06	0.05	0.02	21	0.21	-0.09	0.04
4/4/08	0.02	0.38	0.50	0.02	0.02	0.02	0.02	0.07	0.07	0.07	0.07	0.08	-0.08	0.00	0.10	0.13	0.16	-0.01	0.11	0.05	0.03	0.05	0.03	0.07	24	0.50	-0.08	0.08
4/5/08	0.05	0.12	0.27	0.30	0.35	0.47	0.36	0.37	0.72	0.80	0.92	0.74	0.88	0.87	0.64	0.58	0.62	0.67	0.63	0.69	0.60	0.60	0.58	0.62	24	0.92	0.05	0.56
4/6/08	0.60	0.61	0.49	0.51	0.42	0.42	0.34	0.26	0.25	0.27	0.23	0.13	0.25	0.19	0.11	0.03	0.08	0.09	0.17	0.20	0.31	0.38	0.42	0.35	24	0.61	0.03	0.30
4/7/08	0.48	0.33	0.34	0.09	0.16	0.06	0.02	0.10	0.08	0.01	0.13	0.07	-0.01	0.15	0.00	0.21	0.10	0.09	0.08	0.00	0.26	0.52	0.59	0.77	24	0.77	-0.01	0.19
4/8/08	*0.32*	*0.05*	*0.04*	*0.03*	*0.03*	*0.05*	*0.18*	*0.21*	*0.16*	*0.11*	*0.09*	*0.23*	*0.15*	*0.18*	*0.25*	*0.25*	*0.39*	*0.27*	*0.34*	*0.19*	*0.35*	*0.52*	*0.67*	*0.61*	24	0.67	0.03	0.24
4/9/08	0.73	0.84	0.88	0.78	0.61	0.60	0.70	0.70	0.50	0.58	0.74	0.65	0.56	0.73	0.45	0.39	0.51	0.50	0.30	0.33	0.44	0.48	0.60	0.67	24	0.88	0.30	0.59
4/10/08	0.52	0.44	0.34	0.54	0.59	0.50	0.46	0.41	0.39	0.49	0.47	0.53	0.60	0.66	0.60	0.53	0.64	0.46	0.47	0.63	0.66	0.70	0.69	0.67	24	0.70	0.34	0.54
4/11/08	0.79	0.69	0.77	0.70	0.78	0.58	0.56	0.54	0.51	0.48	0.48	0.55	0.47	0.54	0.40	0.53	0.47	0.50	0.44	0.29	0.24	0.32	0.34	0.20	24	0.79	0.20	0.51
4/12/08	0.05	0.10	0.16	0.19	0.19	0.19	0.16	0.19	0.30	0.11	0.41	0.30	0.51	0.41	0.46	0.32	0.37	0.48	0.41	0.37	0.25	0.23	0.13	0.16	24	0.51	0.05	0.27
4/13/08	0.07	0.02	0.02	0.02	0.02	0.02	0.02	0.07	0.17	0.00	0.04	0.06	0.28	-0.01	-0.04	0.00	-0.02	0.15	-0.02	0.31	0.42	0.52	0.36	-0.17	24	0.52	-0.17	0.10
4/14/08	-0.28	0.03	-0.11	0.00	-0.04	0.36	0.48	0.41	0.43	0.52	0.64	0.45	0.47	0.69	0.70	0.64	0.75	0.80	0.73	0.80	0.75	0.78	0.71	0.30	24	0.80	-0.28	0.46
4/15/08	0.14	0.23	0.12	0.40	0.45	0.31	0.28	0.12	0.25	0.41	0.28	0.25	0.46	0.31	0.25	0.56	0.34	0.30	0.24	0.33	0.24	0.28	0.34	0.40	24	0.56	0.12	0.30
4/16/08	0.39	0.22	0.26	0.35	0.24	0.24	0.20	0.22	0.17	0.24	0.44	0.21	0.17	0.31	0.28	-0.04	0.05	0.20	0.10	0.03	-0.01	0.11	0.01	0.02	24	0.44	-0.04	0.18
4/17/08	0.02	0.13	0.08	0.07	0.07	0.07	0.03	0.04	0.00	-0.01	0.10	-0.08	0.12	0.02	-0.09	0.11	-0.04	0.00	0.08	0.05	0.05	0.04	0.02	0.02	24	0.13	-0.09	0.04
4/18/08	0.32	0.22	0.17	0.02	0.09	0.43	0.39	0.24	-0.05	0.03	0.01	0.35	0.04	0.20	0.15	0.07	0.21	0.15	0.24	0.57	0.81	0.90	0.89	0.73	24	0.90	-0.05	0.30
4/19/08	0.77	0.67	0.24	0.08	0.01	-0.05	0.05	0.24	0.27	0.46	0.57	0.43	0.56	0.50	0.59	0.63	0.63	0.66	0.61	0.61	0.67	0.83	0.84	0.90	24	0.90	-0.05	0.49
4/20/08	1.01	1.02	1.04	1.08	0.98	0.92	0.92	1.00	1.06	1.36	1.46	1.27	1.20	1.17	1.12	1.11	1.02	0.94	0.86	0.73	0.69	0.78	0.30	0.04	24	1.46	0.04	0.96
4/21/08	0.28	0.37	0.40	0.42	0.34	0.34	0.27	0.15	0.24	0.23	0.22	0.30	0.13	0.29	0.30	0.20	0.26	0.19	0.16	0.03	0.03	0.05	0.08	0.03	24	0.42	0.03	0.22
4/22/08	0.32	0.53	0.60	0.64	0.61	0.66	0.70	0.20	0.13	0.35	0.16	0.18													12	0.70	0.13	0.42
4/23/08														*0.37*	*0.34*	*0.48*	*0.46*	*0.64*	*0.56*	*0.60*	*0.49*	*0.34*	*0.21*	*0.53*	*11*	*0.64*	*0.21*	*0.46*
4/24/08	0.19	0.16	0.49	0.18	0.07	0.10	0.19	0.20	0.29	0.19	0.24	0.38	0.18	0.24	0.24	0.17	0.22	0.15	0.29	0.37	0.30	0.25	0.29	0.22	24	0.49	0.07	0.23
4/25/08	0.32	0.31	0.36	0.29	0.31	0.34	0.32	0.39	0.31	0.33	0.40	0.37	0.33	0.42	0.48	0.52	0.38	0.39	0.35	0.28	0.25	0.27	0.23	0.18	24	0.52	0.18	0.34
4/26/08	0.17	0.17	0.29	0.27	0.30	0.36	0.26	0.21	0.17	0.50	0.46	0.50	0.47	0.38	0.39	0.38	0.40	0.40	0.33	0.30	0.24	0.36	0.35	0.33	24	0.50	0.17	0.33
4/27/08	0.38	0.43	0.35	0.29	0.39	0.37	0.31	0.30	0.17	0.13	0.22	0.23	0.40	0.33	0.42	0.40	0.39	0.30	0.25	0.15	0.11	0.18	0.12	0.17	24	0.43	0.11	0.28
4/28/08	0.04	0.03	0.08	0.03	0.03	0.04	0.04	0.12	0.15	0.28	0.40	0.17	0.07	0.04	0.25	0.19	0.21	0.27	0.36	0.38	0.41	0.51	0.52	0.51	24	0.52	0.03	0.21
4/29/08	0.55	0.63	0.87	0.81	0.63	0.59	0.66	0.60	0.52	0.28	0.22	0.26	0.10	0.30	0.19	0.45	0.39	0.51	0.55	0.60	0.65	0.65	0.64	0.73	24	0.87	0.10	0.52
4/30/08	0.72	0.81	0.76	0.64	0.73	0.94	0.66	0.77	0.57	0.71	0.68	0.42	0.65	0.51	0.58	0.41	0.44	0.59	0.45	0.42	0.34	0.36	0.18	0.24	24	0.94	0.18	0.57
																									0			
hr max	1.01	1.02	1.04	1.08	0.98	0.94	0.92	1.00	1.06	1.36	1.46	1.27	1.20	1.17	1.12	1.11	1.02	0.94	0.86	0.80	0.81	0.90	0.89	0.90	monthly	monthly	monthly
hr min	-0.28	-0.09	-0.11	0.00	-0.04	-0.05	0.01	0.03	-0.05	-0.03	-0.03	-0.08	-0.15	-0.01	-0.09	-0.04	-0.04	-0.01	-0.02	0.00	-0.01	0.04	0.01	-0.17	max hr	min hr	ave hr	
average	0.33	0.33	0.34	0.32	0.31	0.31	0.31	0.30	0.28	0.31	0.36	0.32	0.31	0.35	0.33	0.34	0.35	0.35	0.33	0.33	0.34	0.40	0.36	0.34	1.46	-0.28	0.33	
																									4/20/08	4/14/08		

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.76	0.67	0.77	0.79	0.79	0.68	0.57	0.37	0.16	0.05	0.04	0.14	-0.12	0.31	0.15	0.33	0.33	0.73	0.68	0.90	0.49	-1.23	-0.93	-1.32	24	0.90	-1.32	0.25
4/2/08	-1.01	0.83	1.07	-0.85	-0.60	1.08	1.15	0.89	0.45	0.27	0.12	0.09	-0.11	0.18	0.12	0.41	0.50	0.42	0.31	0.28	-0.23	-0.28	0.02	-0.69	24	1.15	-1.01	0.18
4/3/08	-1.41	-1.30	-1.03	0.24	0.28	0.06	0.38	0.55	0.39	0.36	0.40	0.34	0.34	0.21				0.35	0.47	0.43	0.28	0.17	0.44	0.68	21	0.68	-1.41	0.13
4/4/08	0.82	1.05	1.23	0.91	0.85	1.03	1.02	0.78	0.74	0.68	0.61	0.58	0.44	0.42	0.66	0.78	0.76	0.76	0.78	0.68	0.72	0.62	0.52	0.43	24	1.23	0.42	0.74
4/5/08	0.53	0.43	0.72	0.70	0.81	1.22	1.06	0.99	1.28	1.29	1.34	1.10	1.34	1.25	0.98	1.22	1.28	1.62	1.70	1.64	1.49	1.47	1.52	1.50	24	1.70	0.43	1.19
4/6/08	1.27	1.43	1.05	0.97	1.06	0.96	0.71	0.41	0.83	1.05	1.02	0.92	1.21	1.38	1.70	1.42	1.22	1.12	1.05	1.32	1.65	1.80	1.98	1.61	24	1.98	0.41	1.21
4/7/08	1.68	1.49	1.38	0.84	0.85	0.64	0.40	0.29	0.23	0.25	0.36	0.23	0.16	0.05	-0.01	0.19	0.00	0.03	0.07	0.00	0.15	0.42	0.65	0.80	24	1.68	-0.01	0.46
4/8/08	0.04	0.03	0.06	0.16	0.09	0.17	0.25	0.27	0.19	0.08	0.02	0.17	0.08	0.32	0.35	0.38	0.56	0.42	0.51	0.41	0.75	0.86	0.98	0.97	24	0.98	0.02	0.34
4/9/08	1.04	1.21	1.17	0.72	0.48	0.60	0.75	0.79	0.83	0.82	0.91	0.67	0.50	0.64	0.08	0.15	0.37	0.38	-0.02	0.45	0.59	0.69	0.86	0.89	24	1.21	-0.02	0.65
4/10/08	0.77	0.67	0.52	0.76	0.86	0.73	0.71	0.54	0.61	0.91	1.13	1.27	1.50	1.49	1.39	1.43	1.71	1.54	1.74	2.01	2.18	2.12	2.06	2.17	24	2.18	0.52	1.28
4/11/08	2.29	2.05	2.15	2.15	2.16	2.02	1.97	1.89	1.95	1.92	2.02	2.01	1.83	1.98	1.72	1.91	1.85	1.74	1.50	1.07	1.04	1.34	1.22	0.82	24	2.29	0.82	1.78
4/12/08	0.58	0.87	1.31	1.48	1.60	1.37	1.31	1.17	1.04	1.01	1.47	1.27	1.58	1.48	1.36	1.46	1.39	1.52	1.27	1.13	1.11	0.85	0.64	0.61	24	1.60	0.58	1.20
4/13/08	0.43	0.27	0.21	0.18	0.22	0.24	0.27	0.53	0.46	0.27	0.26	0.47	0.61	0.12	0.09	-0.15	-0.09	-0.02	-0.12	0.02	0.25	-0.37	-1.51	0.06	24	0.61	-1.51	0.11
4/14/08	0.47	0.56	1.14	1.19	1.01	-0.19	-1.46	-0.88	-0.24	-0.07	0.09	-0.59	-0.04	0.22	0.29	0.53	0.43	0.64	0.80	0.96	1.00	0.82	-0.64	-0.62	24	1.19	-1.46	0.23
4/15/08	1.67	1.61	1.78	1.56	1.27	1.40	1.43	0.66	0.87	1.02	0.57	0.51	0.96	0.62	0.40	1.44	1.20	1.27	1.16	1.30	1.68	1.71	1.95	1.72	24	1.95	0.40	1.24
4/16/08	1.54	1.40	1.79	1.89	1.43	1.53	1.29	1.16	1.12	1.42	1.61	1.23	1.21	1.07	1.03	0.51	0.60	0.65	0.83	0.70	0.76	0.93	0.94	1.12	24	1.89	0.51	1.16
4/17/08	1.10	1.09	0.94	0.84	0.32	0.07	-0.01	0.00	0.03	0.09	0.18	-0.08	0.41	0.12	0.00	0.34	-0.10	0.06	0.26	0.14	0.01	-0.02	0.00	0.01	24	1.10	-0.10	0.24
4/18/08	0.02	-0.24	0.86	0.76	0.79	0.77	0.77	0.65	0.25	0.17	-0.16	0.60	-0.08	0.11	0.33	0.10	0.14	0.13	0.11	0.51	0.80	1.19	1.30	1.19	24	1.30	-0.24	0.46
4/19/08	1.10	1.00	-0.02	-0.08	1.23	0.33	-0.76	-0.05	-0.02	0.52	0.64	0.46	0.58	0.44	0.60	0.65	0.77	0.72	0.89	0.99	1.26	1.51	1.47	1.55	24	1.55	-0.76	0.66
4/20/08	1.65	1.57	1.65	1.68	1.56	1.50	1.40	1.42	1.42	1.65	1.86	1.63	1.49	1.38	1.29	1.24	1.28	1.16	1.17	1.13	1.23	1.38	0.69	0.34	24	1.86	0.34	1.37
4/21/08	1.95	2.31	2.17	2.25	2.07	2.04	1.86	1.66	1.67	1.47	1.39	1.21	0.98	1.18	1.05	0.66	0.67	0.50	0.55	0.30	0.04	0.01	0.00	0.00	24	2.31	0.00	1.17
4/22/08	0.23	0.77	0.71	0.75	0.69	0.68	0.89	0.02	0.01	0.67	0.43	0.29													12	0.89	0.01	0.51
4/23/08														0.75	0.89	0.98	0.99	1.08	1.11	1.19	1.23	0.80	0.47	1.02	11	1.23	0.47	0.96
4/24/08	0.49	0.14	0.69	0.42	0.31	0.36	0.66	0.68	0.75	0.81	0.79	1.14	0.78	1.03	1.00	0.95	1.02	0.97	1.22	1.29	1.26	1.22	1.24	1.10	24	1.29	0.14	0.85
4/25/08	1.25	1.23	1.43	1.37	1.36	1.24	1.24	1.39	1.27	1.32	1.37	1.40	1.42	1.55	1.71	1.72	1.42	1.39	1.18	1.07	1.05	1.12	1.13	1.10	24	1.72	1.05	1.32
4/26/08	1.07	0.92	0.99	0.90	0.94	1.09	0.96	0.85	0.73	1.24	1.43	1.50	1.41	1.53	1.58	1.46	1.41	1.41	1.21	1.05	1.01	1.18	1.32	1.21	24	1.58	0.73	1.18
4/27/08	1.17	1.15	1.06	0.98	1.01	0.90	0.99	0.79	0.39	0.34	0.45	0.69	1.01	1.06	1.44	1.24	1.28	1.02	0.92	0.71	0.78	0.53	0.24	0.14	24	1.44	0.14	0.85
4/28/08	0.04	-0.05	0.06	0.05	0.03	0.06	0.10	0.16	0.11	0.31	0.45	0.35	-0.01	-0.11	0.02	0.02	0.06	0.29	0.56	0.75	0.80	0.94	1.01	1.06	24	1.06	-0.11	0.29
4/29/08	1.21	1.35	1.60	1.54	1.34	1.31	1.18	0.71	0.43	0.12	0.10	0.26	-0.02	0.30	0.22	0.40	0.41	0.71	0.77	0.98	1.27	1.30	1.26	1.18	24	1.60	-0.02	0.83
4/30/08	1.25	1.42	1.38	1.05	1.40	1.59	1.01	0.98	0.35	0.68	0.83	0.55	0.96	0.71	0.62	0.53	0.60	0.84	0.78	1.01	1.10	1.16	0.79	0.96	24	1.59	0.35	0.94
																									0			
hr max	2.29	2.31	2.17	2.25	2.16	2.04	1.97	1.89	1.95	1.92	2.02	2.01	1.83	1.98	1.72	1.91	1.85	1.74	1.74	2.01	2.18	2.12	2.06	2.17				
hr min	-1.41	-1.30	-1.03	-0.85	-0.60	-0.19	-1.46	-0.88	-0.24	-0.07	-0.16	-0.59	-0.12	-0.11	-0.01	-0.15	-0.10	-0.02	-0.12	0.00	-0.23	-1.23	-1.51	-1.32				
average	0.83	0.89	0.99	0.90	0.90	0.88	0.76	0.68	0.63	0.71	0.75	0.70	0.73	0.75	0.75	0.80	0.79	0.81	0.81	0.84	0.89	0.84	0.75	0.75				

monthly	monthly	monthly
max hr	min hr	ave hr
2.31	-1.51	0.80
4/21/08	4/13/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.28	0.13	0.12	0.12	0.13	0.14	0.11	0.10	0.18	0.28	0.26	0.34	0.43	0.45	0.44	0.45	0.45	0.45	0.33	0.21	0.22	0.30	0.34	0.28	24	0.45	0.10	0.27
4/2/08	0.31	0.28	0.22	0.42	0.32	0.23	0.27	0.38	0.37	0.35	0.36	0.41	0.45	0.47	0.54	0.48	0.44	0.35	0.17	0.08	0.05	0.12	0.14	0.15	24	0.54	0.05	0.31
4/3/08	0.17	0.14	0.08	0.08	0.17	0.10	0.11	0.16	0.29	0.39	0.50	0.52	0.49	0.51				0.26	0.13	0.09	0.05	0.01	0.05	0.01	21	0.52	0.01	0.21
4/4/08	0.05	0.09	0.13	0.13	0.14	0.17	0.19	0.23	0.29	0.35	0.42	0.47	0.50	0.50	0.55	0.53	0.45	0.39	0.21	0.11	0.11	0.11	0.05	0.02	24	0.55	0.02	0.26
4/5/08	0.13	0.11	0.17	0.39	0.43	0.47	0.45	0.50	0.77	0.80	0.80	0.79	0.78	0.81	0.80	0.78	0.76	0.70	0.74	0.70	0.69	0.68	0.66	0.67	24	0.81	0.11	0.61
4/6/08	0.61	0.69	0.57	0.52	0.47	0.39	0.33	0.29	0.29	0.39	0.39	0.39	0.48	0.50	0.55	0.54	0.56	0.49	0.28	0.21	0.22	0.27	0.25	0.18	24	0.69	0.18	0.41
4/7/08	0.17	0.21	0.13	0.13	0.12	0.17	0.15	0.13	0.15	0.24	0.36	0.35	0.34	0.37	0.36	0.36	0.28	0.23	0.10	0.09	0.14	0.12	0.17	0.16	24	0.37	0.09	0.21
4/8/08	0.13	0.08	0.04	0.06	0.04	0.08	0.10	0.21	0.31	0.32	0.46	0.43	0.42	0.47	0.46	0.39	0.39	0.45	0.39	0.17	0.20	0.20	0.22	0.21	24	0.47	0.04	0.26
4/9/08	0.24	0.33	0.32	0.25	0.19	0.15	0.24	0.35	0.47	0.56	0.61	0.69	0.65	0.58	0.58	0.58	0.54	0.54	0.40	0.16	0.18	0.25	0.43	0.49	24	0.69	0.15	0.41
4/10/08	0.37	0.28	0.29	0.47	0.50	0.46	0.47	0.39	0.48	0.53	0.61	0.65	0.68	0.65	0.62	0.62	0.68	0.56	0.53	0.58	0.66	0.70	0.68	0.72	24	0.72	0.28	0.55
4/11/08	0.77	0.68	0.67	0.64	0.66	0.62	0.63	0.58	0.64	0.59	0.61	0.62	0.58	0.60	0.60	0.62	0.64	0.59	0.49	0.17	0.16	0.22	0.27	0.13	24	0.77	0.13	0.53
4/12/08	0.13	0.19	0.25	0.27	0.26	0.27	0.26	0.34	0.43	0.46	0.56	0.62	0.62	0.61	0.62	0.61	0.63	0.59	0.41	0.15	0.10	0.18	0.08	0.09	24	0.63	0.08	0.36
4/13/08	0.08	0.11	0.13	0.12	0.13	0.12	0.12	0.19	0.28	0.32	0.42	0.50	0.47	0.53	0.49	0.49	0.43	0.31	0.12	0.11	0.19	0.20	0.22	0.22	24	0.53	0.08	0.26
4/14/08	0.26	0.26	0.26	0.28	0.31	0.28	0.37	0.53	0.63	0.70	0.70	0.71	0.70	0.73	0.73	0.74	0.72	0.67	0.61	0.57	0.61	0.61	0.58	0.58	24	0.74	0.26	0.55
4/15/08	0.55	0.52	0.45	0.36	0.33	0.39	0.50	0.54	0.61	0.59	0.62	0.66	0.63	0.70	0.72	0.71	0.62	0.48	0.34	0.18	0.20	0.40	0.49	0.60	24	0.72	0.18	0.51
4/16/08	0.53	0.34	0.45	0.59	0.41	0.41	0.39	0.37	0.39	0.45	0.54	0.50	0.55	0.57	0.53	0.49	0.40	0.40	0.22	0.11	0.15	0.10	0.13	0.13	24	0.59	0.10	0.38
4/17/08	0.10	0.14	0.12	0.14	0.14	0.15	0.11	0.12	0.24	0.37	0.43	0.55	0.52	0.53	0.58	0.49	0.38	0.39	0.18	0.09	0.07	0.02	0.05	0.00	24	0.58	0.00	0.25
4/18/08	0.11	0.13	0.10	0.04	0.06	0.02	0.05	0.20	0.30	0.42	0.57	0.54	0.51	0.59	0.56	0.51	0.42	0.41	0.21	0.14	0.25	0.36	0.37	0.31	24	0.59	0.02	0.30
4/19/08	0.30	0.29	0.18	0.15	0.14	0.11	0.19	0.36	0.45	0.57	0.61	0.58	0.67	0.66	0.66	0.65	0.59	0.51	0.41	0.28	0.39	0.51	0.52	0.56	24	0.67	0.11	0.43
4/20/08	0.64	0.65	0.71	0.69	0.67	0.61	0.61	0.72	0.79	0.86	0.84	0.88	0.89	0.85	0.86	0.77	0.71	0.69	0.57	0.41	0.35	0.48	0.26	0.30	24	0.89	0.26	0.66
4/21/08	0.56	0.63	0.61	0.61	0.56	0.53	0.53	0.52	0.53	0.56	0.58	0.59	0.60	0.63	0.57	0.53	0.42	0.33	0.17	0.09	0.02	0.12	0.07	0.02	24	0.63	0.02	0.43
4/22/08	0.12	0.12	0.12	0.16	0.13	0.17	0.29	0.40	0.53	0.59	0.57	0.57													12	0.59	0.12	0.31
4/23/08														0.57	0.57	0.60	0.57	0.64	0.56	0.41	0.38	0.33	0.35	0.54	11	0.64	0.33	0.50
4/24/08	0.25	0.21	0.41	0.19	0.13	0.13	0.35	0.30	0.34	0.38	0.44	0.47	0.42	0.50	0.49	0.49	0.51	0.50	0.54	0.53	0.53	0.56	0.51	0.52	24	0.56	0.13	0.40
4/25/08	0.55	0.54	0.63	0.62	0.57	0.50	0.53	0.52	0.53	0.54	0.55	0.54	0.57	0.61	0.60	0.59	0.57	0.54	0.42	0.33	0.27	0.19	0.18	0.14	24	0.63	0.14	0.48
4/26/08	0.14	0.16	0.21	0.18	0.24	0.24	0.25	0.40	0.52	0.62	0.66	0.67	0.68	0.69	0.69	0.67	0.64	0.54	0.46	0.26	0.11	0.13	0.25	0.27	24	0.69	0.11	0.40
4/27/08	0.21	0.25	0.25	0.27	0.27	0.23	0.29	0.37	0.34	0.39	0.54	0.63	0.65	0.64	0.68	0.69	0.62	0.55	0.40	0.20	0.15	0.12	0.08	0.06	24	0.69	0.06	0.37
4/28/08	0.04	0.09	0.08	0.04	0.05	0.02	0.09	0.28	0.43	0.51	0.56	0.65	0.64	0.62	0.58	0.54	0.47	0.43	0.35	0.39	0.44	0.49	0.50	0.51	24	0.65	0.02	0.37
4/29/08	0.51	0.58	0.70	0.64	0.54	0.52	0.59	0.63	0.58	0.55	0.54	0.57	0.57	0.58	0.56	0.55	0.56	0.48	0.42	0.30	0.40	0.43	0.41	0.41	24	0.70	0.30	0.53
4/30/08	0.45	0.54	0.60	0.60	0.59	0.67	0.63	0.72	0.69	0.68	0.67	0.68	0.67	0.66	0.61	0.65	0.53	0.51	0.51	0.32	0.26	0.30	0.24	0.36	24	0.72	0.24	0.55
																									0			
hr max	0.77	0.69	0.71	0.69	0.67	0.67	0.63	0.72	0.79	0.86	0.84	0.88	0.89	0.85	0.86	0.78	0.76	0.70	0.74	0.70	0.69	0.70	0.68	0.72				
hr min	0.04	0.08	0.04	0.04	0.04	0.02	0.05	0.10	0.15	0.24	0.26	0.34	0.34	0.37	0.36	0.36	0.28	0.23	0.10	0.08	0.02	0.01	0.05	0.00				
average	0.30	0.30	0.31	0.32	0.30	0.29	0.32	0.37	0.44	0.50	0.54	0.57	0.58	0.59	0.59	0.58	0.54	0.48	0.37	0.26	0.26	0.29	0.29	0.30				

monthly max hr	monthly min hr	monthly ave hr
0.89	0.00	0.40
4/20/08	4/17/08	

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.45	0.16	0.16	0.17	0.10	0.03	0.09	0.06	0.23	0.26	0.42	0.66	0.59	0.82	0.77	0.73	0.73	0.63	0.42	0.24	0.22	0.34	0.35	0.25	24	0.82	0.03	0.37
4/2/08	0.26	0.24	0.29	0.51	0.33	0.21	0.21	0.40	0.47	0.51	0.64	0.67	0.79	0.80	0.88	0.83	0.74	0.56	0.29	0.16	0.19	0.11	0.21	0.34	24	0.88	0.11	0.44
4/3/08	0.23	0.14	0.15	0.15	0.37	0.12	0.16	0.19	0.38	0.60	0.88	0.94	0.93	0.93				0.53	0.21	0.10	0.27	0.10	0.10	0.00	21	0.94	0.00	0.36
4/4/08	0.00	0.24	0.14	0.00	0.00	0.00	0.00	0.17	0.44	0.62	0.79	0.97	0.96	0.92	1.02	0.98	0.83	0.62	0.33	0.13	0.10	0.10	0.07	0.13	24	1.02	0.00	0.40
4/5/08	0.14	0.17	0.21	0.50	0.59	0.62	0.61	0.72	0.96	1.10	1.10	1.23	1.18	1.21	1.16	1.10	1.02	0.91	0.92	0.95	0.99	0.96	0.93	1.01	24	1.23	0.14	0.85
4/6/08	0.90	0.95	0.89	0.76	0.66	0.56	0.43	0.38	0.39	0.51	0.54	0.51	0.64	0.80	0.87	0.85	0.88	0.71	0.38	0.30	0.31	0.36	0.33	0.26	24	0.95	0.26	0.59
4/7/08	0.25	0.35	0.22	0.20	0.17	0.18	0.12	0.17	0.18	0.19	0.41	0.44	0.50	0.62	0.52	0.60	0.42	0.33	0.11	0.15	0.18	0.18	0.28	0.08	24	0.62	0.08	0.29
4/8/08	0.26	0.19	0.11	0.13	0.09	0.19	0.22	0.30	0.47	0.43	0.60	0.71	0.71	0.78	0.69	0.51	0.49	0.59	0.47	0.29	0.33	0.20	0.15	0.19	24	0.78	0.09	0.38
4/9/08	0.15	0.11	0.11	0.12	0.09	0.10	0.12	0.25	0.50	0.68	0.86	0.98	1.04	0.93	0.85	0.78	0.79	0.67	0.52	0.21	0.15	0.25	0.48	0.61	24	1.04	0.09	0.47
4/10/08	0.43	0.30	0.34	0.58	0.69	0.63	0.57	0.54	0.63	0.72	0.79	0.87	0.88	0.87	0.88	0.91	0.91	0.69	0.72	0.86	0.98	0.97	0.96	1.06	24	1.06	0.30	0.74
4/11/08	1.06	1.05	0.96	0.99	0.97	0.99	0.98	0.89	0.98	0.96	1.09	1.03	1.01	1.05	1.04	1.05	1.02	0.86	0.61	0.28	0.20	0.24	0.34	0.20	24	1.09	0.20	0.83
4/12/08	0.08	0.17	0.32	0.33	0.34	0.37	0.37	0.52	0.64	0.80	1.04	1.10	1.16	1.15	1.20	1.09	1.02	0.84	0.52	0.16	0.17	0.27	0.14	0.14	24	1.20	0.08	0.58
4/13/08	0.14	0.11	0.02	0.04	0.00	0.02	0.00	0.18	0.48	0.54	0.80	0.90	0.88	1.05	0.94	0.88	0.75	0.61	0.27	0.20	0.26	0.18	0.30	0.17	24	1.05	0.00	0.41
4/14/08	0.16	0.36	0.22	0.22	0.29	0.32	0.41	0.62	0.83	0.94	0.94	0.93	1.00	1.05	1.03	1.00	0.99	0.92	0.75	0.61	0.75	0.77	0.71	0.71	24	1.05	0.16	0.69
4/15/08	0.61	0.60	0.45	0.37	0.41	0.45	0.56	0.61	0.76	0.81	0.81	0.90	1.02	0.89	1.08	1.11	1.03	0.84	0.50	0.26	0.30	0.67	0.72	0.83	24	1.11	0.26	0.69
4/16/08	0.70	0.45	0.73	0.96	0.62	0.67	0.62	0.63	0.65	0.73	0.89	0.87	0.97	1.15	1.11	0.95	0.73	0.73	0.36	0.14	0.12	0.17	0.09	0.04	24	1.15	0.04	0.63
4/17/08	0.04	0.32	0.16	0.22	0.17	0.11	0.10	0.16	0.24	0.53	0.91	0.96	1.06	0.94	1.01	0.93	0.66	0.80	0.35	0.12	0.11	0.05	0.01	0.00	24	1.06	0.00	0.42
4/18/08	0.19	0.36	0.22	0.00	0.15	0.09	0.09	0.27	0.43	0.70	0.98	0.96	0.95	1.10	1.10	0.88	0.84	0.79	0.32	0.13	0.09	0.18	0.18	0.20	24	1.10	0.00	0.47
4/19/08	0.14	0.20	0.39	0.29	0.14	0.14	0.35	0.38	0.70	0.84	1.04	1.02	1.05	1.08	1.09	1.04	0.95	0.64	0.42	0.25	0.43	0.51	0.53	0.56	24	1.09	0.14	0.59
4/20/08	0.73	0.73	0.80	0.76	0.70	0.71	0.76	0.93	1.00	1.13	1.21	1.26	1.32	1.30	1.34	1.15	1.09	0.84	0.66	0.44	0.33	0.48	0.42	0.69	24	1.34	0.33	0.87
4/21/08	0.83	1.07	0.98	1.08	0.98	0.98	0.94	0.88	0.97	1.10	1.17	1.21	1.22	1.18	1.12	1.04	0.89	0.61	0.21	0.07	0.04	0.29	0.22	0.05	24	1.22	0.04	0.80
4/22/08	0.26	0.10	0.08	0.08	0.08	0.09	0.16	0.51	0.71	0.87	0.94	1.08													12	1.08	0.08	0.41
4/23/08														0.88	0.84	1.04	0.76	0.92	0.73	0.40	0.42	0.46	0.42	0.84	11	1.04	0.40	0.70
4/24/08	0.42	0.31	0.59	0.27	0.13	0.20	0.52	0.43	0.56	0.52	0.65	0.69	0.61	0.65	0.68	0.71	0.72	0.64	0.74	0.67	0.76	0.74	0.71	0.70	24	0.76	0.13	0.57
4/25/08	0.70	0.74	0.86	0.86	0.78	0.72	0.74	0.82	0.82	0.81	0.79	0.81	0.89	0.86	0.90	0.93	0.86	0.86	0.69	0.52	0.37	0.25	0.23	0.20	24	0.93	0.20	0.71
4/26/08	0.23	0.23	0.24	0.23	0.28	0.26	0.33	0.56	0.83	1.15	0.98	1.17	1.16	1.26	1.30	1.28	1.11	0.97	0.71	0.37	0.19	0.18	0.28	0.33	24	1.30	0.18	0.65
4/27/08	0.23	0.23	0.28	0.27	0.27	0.23	0.34	0.53	0.53	0.66	1.01	1.21	1.24	1.25	1.39	1.25	1.10	0.87	0.59	0.24	0.20	0.22	0.17	0.20	24	1.39	0.17	0.60
4/28/08	0.06	0.13	0.12	0.09	0.03	0.10	0.06	0.41	0.69	0.95	1.02	1.20	1.17	1.08	1.13	0.98	0.85	0.77	0.49	0.43	0.52	0.63	0.62	0.65	24	1.20	0.03	0.59
4/29/08	0.63	0.77	0.79	0.73	0.70	0.59	0.71	0.94	0.87	0.88	0.95	0.97	0.97	1.03	1.02	1.05	0.90	0.74	0.48	0.24	0.38	0.44	0.39	0.31	24	1.05	0.24	0.73
4/30/08	0.44	0.54	0.67	0.71	0.69	0.63	0.74	0.92	1.04	1.14	1.16	1.18	1.21	1.23	1.06	1.12	0.96	0.83	0.74	0.34	0.28	0.36	0.35	0.44	24	1.23	0.28	0.78
																									0			

hr max	1.06	1.07	0.98	1.08	0.98	0.99	0.98	0.94	1.04	1.15	1.21	1.26	1.32	1.30	1.39	1.28	1.11	0.97	0.92	0.95	0.99	0.97	0.96	1.06
hr min	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.06	0.18	0.19	0.41	0.44	0.50	0.62	0.52	0.51	0.42	0.33	0.11	0.07	0.04	0.05	0.01	0.00
average	0.37	0.39	0.40	0.40	0.37	0.36	0.39	0.50	0.63	0.75	0.88	0.95	0.97	1.00	1.00	0.96	0.86	0.74	0.50	0.32	0.33	0.37	0.37	0.39

monthly max hr	monthly min hr	monthly ave hr
1.39	0.00	0.59
4/27/08	4/3/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.47	0.12	0.12	0.09	0.11	0.10	0.10	0.09	0.14	0.28	0.51	0.79	0.67	0.92	0.92	0.85	0.85	0.79	0.55	0.22	0.63	0.49	0.77	0.45	24	0.92	0.09	0.46
4/2/08	0.75	0.53	0.37	0.79	0.67	0.17	0.10	0.28	0.37	0.51	0.76	0.85	0.99	1.02	0.97	1.01	0.86	0.70	0.34	0.17	0.44	0.36	0.28	0.53	24	1.02	0.10	0.58
4/3/08	0.20	0.22	0.15	0.49	0.46	0.12	0.33	0.16	0.34	0.54	1.01	1.19	1.09	1.16				0.63	0.27	0.12	0.13	0.19	0.21	0.10	21	1.19	0.10	0.43
4/4/08	0.07	0.10	0.08	0.13	0.10	0.09	0.10	0.14	0.39	0.63	0.82	1.19	1.15	1.11	1.19	1.06	0.94	0.62	0.33	0.12	0.07	0.12	0.08	0.17	24	1.19	0.07	0.45
4/5/08	0.18	0.23	0.17	0.54	0.56	0.51	0.60	0.74	0.88	1.02	1.14	1.43	1.32	1.28	1.22	1.13	1.06	0.80	0.80	0.93	0.99	0.94	0.87	1.06	24	1.43	0.17	0.85
4/6/08	0.91	0.85	0.86	0.79	0.59	0.58	0.50	0.47	0.33	0.42	0.47	0.44	0.59	0.70	0.68	0.79	0.81	0.68	0.34	0.18	0.19	0.25	0.14	0.07	24	0.91	0.07	0.53
4/7/08	0.08	0.20	0.15	0.11	0.16	0.17	0.14	0.17	0.16	0.16	0.23	0.35	0.39	0.51	0.53	0.59	0.36	0.28	0.11	0.01	0.17	0.18	0.19	0.08	24	0.59	0.01	0.23
4/8/08	0.42	0.38	0.15	0.16	0.12	0.13	0.20	0.24	0.35	0.36	0.61	0.79	0.70	0.87	0.70	0.49	0.38	0.43	0.40	0.33	0.20	0.08	0.06	0.07	24	0.87	0.06	0.36
4/9/08	0.08	0.06	0.08	0.21	0.09	0.11	0.10	0.08	0.29	0.54	0.89	0.83	0.74	0.67	0.90	0.75	0.60	0.76	0.57	0.16	0.15	0.21	0.43	0.55	24	0.90	0.06	0.41
4/10/08	0.36	0.25	0.33	0.62	0.65	0.63	0.56	0.61	0.63	0.67	0.74	0.74	0.69	0.77	0.80	0.91	0.82	0.52	0.60	0.75	0.90	0.88	0.90	0.93	24	0.93	0.25	0.68
4/11/08	0.96	0.96	0.86	0.84	0.79	0.78	0.79	0.78	0.80	0.80	0.93	0.92	0.91	0.93	1.01	1.00	0.94	0.75	0.49	0.37	0.22	0.16	0.28	0.22	24	1.01	0.16	0.73
4/12/08	0.09	0.23	0.19	0.16	0.17	0.25	0.23	0.47	0.63	0.87	1.09	1.25	1.30	1.22	1.31	1.14	1.03	0.73	0.43	0.11	0.06	0.33	0.09	0.10	24	1.31	0.06	0.56
4/13/08	0.11	0.10	0.10	0.11	0.13	0.09	0.14	0.10	0.44	0.54	0.96	1.14	1.02	1.21	1.03	0.97	0.88	0.86	0.33	0.17	0.30	0.78	0.45	0.34	24	1.21	0.09	0.51
4/14/08	0.38	0.40	0.29	0.23	0.47	0.68	0.45	0.74	0.87	0.93	0.98	1.15	0.99	1.14	1.00	0.77	0.83	0.62	0.43	0.31	0.41	0.49	1.14	1.30	24	1.30	0.23	0.71
4/15/08	0.81	0.72	0.46	0.34	0.54	0.49	0.64	1.08	1.05	1.03	1.20	1.32	1.31	1.32	1.53	1.07	1.01	0.90	0.42	0.24	0.17	0.59	0.59	0.78	24	1.53	0.17	0.82
4/16/08	0.59	0.40	0.57	0.86	0.51	0.49	0.53	0.52	0.56	0.64	0.83	0.92	1.02	1.29	1.26	1.10	0.86	0.90	0.37	0.21	0.12	0.21	0.17	0.12	24	1.29	0.12	0.63
4/17/08	0.09	0.27	0.10	0.23	0.18	0.14	0.10	0.22	0.17	0.56	1.09	1.22	1.33	1.13	1.30	1.09	0.80	1.00	0.44	0.16	0.07	0.06	0.00	0.03	24	1.33	0.00	0.49
4/18/08	0.08	0.82	0.08	0.06	0.11	0.07	0.08	0.14	0.42	0.85	1.17	1.15	1.13	1.39	1.32	1.05	1.00	0.91	0.41	0.21	0.07	0.23	0.06	0.08	24	1.39	0.06	0.54
4/19/08	0.07	0.16	0.87	0.96	0.12	0.94	0.76	0.72	0.76	0.81	1.17	1.14	1.28	1.25	1.25	1.21	1.03	0.71	0.33	0.16	0.30	0.27	0.30	0.33	24	1.28	0.07	0.70
4/20/08	0.45	0.50	0.62	0.51	0.44	0.45	0.62	0.78	0.92	1.06	1.24	1.40	1.45	1.25	1.26	1.03	1.17	0.82	0.60	0.31	0.16	0.22	0.47	0.94	24	1.45	0.16	0.78
4/21/08	0.63	0.80	0.81	0.93	0.88	0.79	0.78	0.72	0.97	1.14	1.35	1.35	1.42	1.35	1.27	1.18	1.05	0.71	0.22	0.12	0.10	0.04	0.00	0.01	24	1.42	0.00	0.78
4/22/08	0.33	0.08	0.07	0.07	0.09	0.12	0.09	0.76	1.02	1.19	1.18	1.21													12	1.21	0.07	0.52
4/23/08														0.94	0.81	1.09	0.69	0.86	0.61	0.29	0.28	0.58	0.61	1.08	11	1.09	0.28	0.71
4/24/08	0.48	0.39	0.73	0.35	0.20	0.32	0.39	0.40	0.48	0.43	0.68	0.69	0.68	0.60	0.64	0.67	0.69	0.61	0.58	0.56	0.55	0.62	0.60	0.61	24	0.73	0.20	0.54
4/25/08	0.59	0.70	0.82	0.75	0.62	0.59	0.65	0.76	0.70	0.76	0.73	0.72	0.70	0.80	0.80	0.82	0.80	0.73	0.58	0.41	0.26	0.12	0.11	0.08	24	0.82	0.08	0.61
4/26/08	0.13	0.18	0.21	0.14	0.09	0.08	0.31	0.48	0.86	1.19	0.99	1.25	1.25	1.48	1.34	1.42	1.17	1.06	0.67	0.35	0.13	0.11	0.12	0.19	24	1.48	0.08	0.63
4/27/08	0.11	0.09	0.08	0.17	0.09	0.11	0.18	0.45	0.50	0.70	1.28	1.44	1.54	1.39	1.58	1.51	1.25	1.00	0.60	0.23	0.11	0.23	0.23	0.22	24	1.58	0.08	0.63
4/28/08	0.08	0.17	0.13	0.10	0.08	0.14	0.14	0.31	0.77	1.16	1.19	1.50	1.45	1.10	1.23	0.97	0.83	0.76	0.39	0.31	0.39	0.49	0.40	0.44	24	1.50	0.08	0.61
4/29/08	0.33	0.35	0.34	0.33	0.36	0.25	0.26	0.47	0.61	0.75	0.76	1.02	0.90	1.00	0.98	0.95	0.79	0.57	0.21	0.19	0.14	0.14	0.08	0.09	24	1.02	0.08	0.49
4/30/08	0.10	0.21	0.34	0.43	0.18	0.19	0.32	0.46	0.90	0.86	0.88	1.12	1.09	1.17	0.92	1.01	0.97	0.72	0.78	0.19	0.11	0.20	0.33	0.32	24	1.17	0.10	0.58
																									0			
hr max	0.96	0.96	0.87	0.96	0.88	0.94	0.79	1.08	1.05	1.19	1.35	1.50	1.54	1.48	1.58	1.51	1.25	1.06	0.80	0.93	0.99	0.94	1.14	1.30				
hr min	0.07	0.06	0.07	0.06	0.08	0.07	0.08	0.08	0.14	0.16	0.23	0.35	0.39	0.51	0.53	0.49	0.36	0.28	0.11	0.01	0.06	0.04	0.00	0.01				
average	0.34	0.36	0.35	0.40	0.33	0.33	0.35	0.46	0.60	0.74	0.93	1.05	1.04	1.07	1.06	0.99	0.87	0.74	0.46	0.27	0.27	0.33	0.34	0.39				

monthly max hr	monthly min hr	monthly ave hr
1.58	0.00	0.58
4/27/08	4/17/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	-2.9	-3.9	-5.7	-6.5	-7.7	-8.8	-8.9	-6.5	-4.0	-1.9	0.1	1.4	2.1	3.6	4.0	4.3	4.3	3.5	2.3	0.3	-1.3	-2.0	-2.3	-2.9	24	4.3	-8.9	-1.6
4/2/08	-2.8	-3.1	-2.9	-0.2	-1.4	-2.9	-2.8	-0.9	1.4	3.8	5.8	7.4	8.6	9.5	10.1	10.3	10.2	9.6	7.7	2.1	0.4	-0.1	-0.1	0.7	24	10.3	-3.1	2.9
4/3/08	0.9	0.5	-0.1	-0.5	-1.1	-1.8	-0.1	1.7	4.9	8.1	10.0	11.4	11.7	12.3	12.5	12.6	12.3	11.6	9.1	5.8	3.4	1.8	1.5	0.3	24	12.6	-1.8	5.4
4/4/08	0.0	-0.4	-0.6	-1.0	-1.2	-1.2	-0.3	1.8	5.9	8.7	11.4	13.1	13.8	14.7	15.4	15.7	15.7	15.1	12.2	7.3	5.9	4.6	2.6	2.5	24	15.7	-1.2	6.7
4/5/08	3.0	2.9	1.5	1.6	1.4	1.1	0.7	2.0	5.0	6.9	8.9	10.8	11.6	11.2	11.0	11.7	11.2	8.1	5.2	3.4	2.4	1.0	-0.2	-1.0	24	11.7	-1.0	5.1
4/6/08	-0.7	-1.3	-1.4	-1.6	-1.4	-1.7	-2.3	-2.5	-2.4	-3.3	-3.5	-3.8	-3.9	-4.1	-4.3	-3.7	-3.6	-3.0	-2.1	-2.8	-3.4	-3.6	-5.1	-6.9	24	-0.7	-6.9	-3.0
4/7/08	-7.5	-8.2	-10.4	-10.3	-10.7	-10.1	-6.5	-7.9	-6.1	-4.0	-2.7	-1.6	-0.2	1.6	2.3	3.2	3.2	3.0	0.9	-1.0	-1.3	-1.9	-1.1	-0.6	24	3.2	-10.7	-3.2
4/8/08	-0.9	-1.7	-2.0	-2.2	-3.5	-2.4	-3.4	-1.0	1.5	2.2	4.0	5.3	6.5	7.1	5.9	5.1	5.0	5.0	3.8	1.8	1.4	1.1	0.7	0.5	24	7.1	-3.5	1.7
4/9/08	0.1	-0.2	-0.6	-0.7	-1.1	-1.5	-0.9	1.9	5.1	7.7	10.1	11.7	12.5	12.4	12.2	11.4	10.5	9.1	7.4	5.6	5.2	4.7	4.0	3.8	24	12.5	-1.5	5.4
4/10/08	3.3	3.2	2.7	2.4	1.9	1.5	1.1	1.3	1.3	1.7	2.0	2.0	2.2	2.3	2.6	2.7	2.2	0.5	0.2	0.1	0.1	0.1	0.1	0.1	24	3.3	0.1	1.6
4/11/08	-0.2	-0.5	-0.7	-0.6	-0.9	-1.2	-1.3	-1.0	-0.8	-0.9	-1.1	-0.8	-0.6	0.5	2.1	4.1	5.4	5.3	3.7	0.5	-0.6	-0.1	-0.5	-2.4	24	5.4	-2.4	0.3
4/12/08	-2.6	-3.2	-3.1	-3.3	-3.6	-3.5	-3.4	-1.3	0.5	2.6	4.1	5.2	6.7	7.5	8.1	8.3	8.2	7.6	5.9	1.3	-0.8	-1.6	-1.7	-2.5	24	8.3	-3.6	1.5
4/13/08	-2.9	-3.2	-4.0	-3.8	-3.7	-3.5	-2.2	1.0	3.6	6.1	7.6	8.6	9.5	10.0	10.7	11.1	11.3	11.1	10.3	4.7	2.9	1.4	0.8	0.3	24	11.3	-4.0	3.7
4/14/08	0.2	-0.3	-0.5	0.2	0.0	-0.5	0.5	3.6	6.7	9.8	11.6	13.6	14.8	15.9	16.8	17.4	17.7	17.6	16.1	13.8	13.1	12.4	11.5	11.5	24	17.7	-0.5	9.3
4/15/08	10.9	10.5	9.7	8.5	8.4	7.8	8.5	9.4	12.2	15.1	17.9	21.0	23.9	27.1	29.3	30.7	30.4	28.3	23.2	17.2	15.1	14.6	13.4	12.0	24	30.7	7.8	16.9
4/16/08	10.1	8.4	8.6	7.9	7.0	5.9	5.8	5.5	5.1	4.8	5.0	6.2	8.1	10.4	11.8	12.2	11.8	12.3	10.6	6.4	4.2	3.1	2.8	2.2	24	12.3	2.2	7.3
4/17/08	1.0	2.1	0.6	0.5	-0.4	-1.1	0.4	3.0	6.0	9.1	11.0	12.1	12.5	13.1	13.7	13.9	13.5	13.5	12.5	10.3	6.3	3.8	3.8	2.3	24	13.9	-1.1	6.8
4/18/08	1.5	0.7	0.8	0.7	-0.9	0.4	1.1	6.5	11.0	13.1	13.7	14.8	15.5	16.0	16.4	16.6	16.6	16.3	14.7	9.4	8.2	7.1	6.0	5.2	24	16.6	-0.9	8.8
4/19/08	4.2	3.4	1.8	1.5	1.5	0.3	2.7	6.7	10.1	13.2	14.8	15.9	16.8	17.3	17.7	17.9	17.7	16.3	14.6	11.9	10.3	10.1	9.3	8.9	24	17.9	0.3	10.2
4/20/08	8.8	8.0	7.1	6.6	6.2	5.7	6.3	7.3	8.8	9.8	12.2	14.6	16.5	18.2	19.6	19.4	19.4	19.3	18.2	15.7	13.5	12.9	10.7	9.8	24	19.6	5.7	12.3
4/21/08	4.0	2.7	2.2	1.1	-0.2	-0.6	-0.6	-0.7	0.5	1.8	3.8	5.2	6.6	7.8	8.7	9.3	9.0	8.2	6.2	4.7	4.7	3.9	3.5	2.4	24	9.3	-0.7	3.9
4/22/08	-0.3	-0.6	-1.6	-1.1	-1.8	-0.1	0.5	3.0	6.1	8.7	11.4	13.3	14.4	15.1	15.8	16.3	16.6	16.4	17.9	12.0	8.2	7.5	4.3	5.2	24	17.9	-1.8	7.8
4/23/08	3.6	2.2	1.3	0.2	-0.3	-0.2	0.7	4.7	6.5	7.8	10.0	11.7	14.0	14.7	15.9	18.6	19.9	21.4	20.4	17.9	16.6	14.6	10.2	11.8	24	21.4	-0.3	10.2
4/24/08	11.3	10.0	10.2	7.1	5.9	4.9	3.5	3.8	3.5		4.6	4.9	4.6	4.0	3.5	3.8	3.8	3.9	3.3	2.2	1.2	0.5	-0.1	-0.5	23	11.3	-0.5	4.3
4/25/08	-1.0	-1.2	-1.4	-1.5	-1.7	-2.1	-2.4	-2.3	-2.0	-1.6	-2.0	-2.0	-1.4	0.2	1.0	1.5	1.7	1.7	1.5	1.2	0.4	-0.8	-2.1	-3.1	24	1.7	-3.1	-0.8
4/26/08	-3.3	-3.7	-3.4	-4.0	-3.7	-3.7	-3.0	-0.1	2.7	4.6	3.7	5.1	5.4	6.4	7.0	7.4	7.3	7.0	5.7	2.8	0.3	-0.7	-0.6	-1.2	24	7.4	-4.0	1.6
4/27/08	-2.7	-2.6	-2.9	-3.3	-3.4	-3.9	-2.5	0.3	2.6	4.3	6.5	8.0	8.6	9.0	9.0	9.0	8.4	7.9	6.4	2.7	-0.3	-1.6	-1.7	-2.0	24	9.0	-3.9	2.3
4/28/08	-2.8	-3.6	-6.5	-5.6	-5.5	-5.5	-5.3	-0.3	3.0	4.7	5.9	6.9	7.8	8.6	9.4	9.8	9.3	9.1	7.7	6.5	5.2	3.2	2.0	1.4	24	9.8	-6.5	2.7
4/29/08	0.4	0.4	0.7	-0.1	-1.0	-1.3	0.2	3.0	6.0	9.1	11.9	14.1	16.3	18.0	19.4	20.8	21.4	21.1	19.8	16.0	13.9	12.0	10.3	9.0	24	21.4	-1.3	10.1
4/30/08	8.5	8.5	8.5	8.5	8.0	7.8	8.4	9.3	12.0	13.9	15.9	18.6	20.6	21.6	21.8	22.5	22.4	21.3	20.3	16.9	14.0	12.6	10.7	9.7	24	22.5	7.8	14.3
																									0			
hr max	11.3	10.5	10.2	8.5	8.4	7.8	8.5	9.4	12.2	15.1	17.9	21.0	23.9	27.1	29.3	30.7	30.4	28.3	23.2	17.9	16.6	14.6	13.4	12.0				
hr min	-7.5	-8.2	-10.4	-10.3	-10.7	-10.1	-8.9	-7.9	-6.1	-4.0	-3.5	-3.8	-3.9	-4.1	-4.3	-3.7	-3.6	-3.0	-2.1	-2.8	-3.4	-3.6	-5.1	-6.9				
average	1.4	0.9	0.3	0.0	-0.5	-0.7	-0.2	1.7	3.9	5.7	7.2	8.5	9.5	10.4	11.0	11.5	11.4	10.9	9.5	6.6	5.0	4.0	3.1	2.6				

monthly	monthly	monthly
max hr	min hr	ave hr
30.7	-10.7	5.1
4/15/08	4/7/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	-2.7	-3.3	-4.4	-5.3	-6.4	-7.0	-6.8	-5.8	-4.4	-2.4	-0.7	0.6	1.6	2.6	3.1	3.4	3.4	3.2	2.5	0.9	-0.7	-1.6	-2.0	-2.6	24	3.4	-7.0	-1.5
4/2/08	-2.5	-2.7	-2.4	0.3	-1.0	-2.5	-2.5	-1.2	0.7	2.9	5.0	6.6	7.5	8.4	9.0	9.4	9.5	9.3	8.5	7.5	6.9	5.0	3.8	3.1	24	9.5	-2.7	3.7
4/3/08	1.8	1.4	1.7	1.7	0.9	0.6	3.2	2.1	4.3	7.2	8.9	10.1	10.5	10.9				11.4	10.3	9.3	8.5	8.0	5.9	5.3	21	11.4	0.6	5.9
4/4/08	4.5	2.5	1.1	0.2	-0.1	-0.4	0.3	1.8	5.4	7.5	9.9	11.5	12.3	13.2	14.0	14.5	15.0	14.8	13.5	11.8	11.6	10.7	8.8	6.6	24	15.0	-0.4	8.0
4/5/08	7.8	5.6	2.5	1.9	1.6	1.4	0.8	1.9	4.6	6.3	8.0	9.6	10.4	9.9	9.9	10.9	10.6	7.9	5.2	3.4	2.4	1.0	-0.1	-1.0	24	10.9	-1.0	5.1
4/6/08	-0.8	-1.4	-1.5	-1.7	-1.5	-1.7	-2.3	-2.6	-2.6	-3.5	-3.8	-4.0	-4.1	-4.3	-4.5	-3.7	-3.7	-3.0	-1.8	-2.2	-2.7	-3.0	-4.1	-5.5	24	-0.8	-5.5	-2.9
4/7/08	-6.1	-6.9	-8.3	-7.1	-7.0	-7.0	-5.5	-2.3	-2.3	-4.6	-3.4	-2.3	-0.3	0.8	1.6	2.5	2.7	2.6	1.3	0.0	-0.5	-1.0	-0.4	0.1	24	2.7	-8.3	-2.2
4/8/08	-0.3	0.0	1.6	1.3	-0.9	-0.5	-3.2	-1.2	0.9	1.5	3.1	4.4	5.5	6.0	4.9	4.5	4.5	4.3	3.6	2.4	2.2	2.0	1.7	1.6	24	6.0	-3.2	2.1
4/9/08	0.9	0.2	-0.2	-0.2	-0.5	-0.6	-0.4	1.7	4.5	6.9	9.0	10.7	11.5	11.7	11.7	11.1	10.3	9.1	7.5	5.9	5.4	5.0	4.2	3.9	24	11.7	-0.6	5.4
4/10/08	3.5	3.4	2.7	2.4	2.0	1.5	1.1	1.1	1.1	1.6	1.8	1.8	1.2	-5.4	2.5	2.7	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24	3.5	-5.4	1.1
4/11/08	-0.5	-0.6	-0.8	-0.7	-1.1	-1.3	-1.4	-1.2	-0.9	-1.2	-1.3	-1.1	-0.8	0.3	2.0	3.9	5.2	5.4	4.0	1.7	0.7	0.5	0.1	-1.3	24	5.4	-1.4	0.4
4/12/08	-1.8	-2.6	-2.7	-2.8	-3.0	-2.9	-3.1	-1.5	-0.1	1.7	3.0	4.0	5.3	6.2	6.9	7.3	7.5	7.3	6.2	3.4	1.7	0.3	-0.5	-0.5	24	7.5	-3.1	1.6
4/13/08	-0.2	-0.1	-2.7	-2.1	-1.2	-0.6	-0.6	0.9	2.8	4.7	6.3	7.3	8.2	8.9	9.7	10.4	10.6	10.7	10.4	8.2	4.6	2.2	1.5	0.9	24	10.7	-2.7	4.2
4/14/08	0.8	0.3	0.0	0.7	0.4	0.1	0.7	3.4	6.1	9.0	10.8	12.5	13.7	14.8	15.8	16.6	17.2	17.4	16.4	14.2	13.5	12.8	11.9	11.9	24	17.4	0.0	9.2
4/15/08	11.3	10.9	10.1	9.1	9.1	8.4	8.7	9.4	11.5	14.2	16.8	19.8	22.7	25.9	28.5	30.2	30.1	28.2	23.7	18.6	15.9	15.3	13.8	12.3	24	30.2	8.4	16.9
4/16/08	10.3	8.8	8.8	8.0	7.1	6.0	5.8	6.6	3.3	4.1	4.2	5.6	7.1	9.0	10.5	10.8	11.1	11.7	11.2	9.7	8.9	7.3	4.6	3.9	24	11.7	3.3	7.7
4/17/08	3.9	3.7	3.2	2.4	2.7	1.7	4.0	3.5	5.5	8.3	10.1	11.1	11.5	12.0	12.6	12.9	12.9	12.9	12.7	11.7	10.4	10.2	8.9	8.0	24	12.9	1.7	8.2
4/18/08	6.1	4.3	4.0	4.4	3.5	4.4	3.7	6.2	10.2	12.2	12.9	13.9	14.3	14.8	15.4	15.7	15.9	15.8	15.1	11.4	9.3	7.9	6.6	5.8	24	15.9	3.5	9.7
4/19/08	4.7	4.0	2.7	2.7	2.7	2.5	3.3	6.4	9.3	12.1	13.5	14.3	15.1	15.7	16.2	16.6	16.9	16.2	14.8	12.6	10.8	10.5	9.7	9.3	24	16.9	2.5	10.1
4/20/08	9.0	8.2	7.2	6.8	6.3	5.9	6.3	7.0	8.1	8.9	11.0	13.4	15.2	16.9	18.5	18.7	18.9	19.0	18.3	16.1	14.1	13.3	11.3	10.3	24	19.0	5.9	12.0
4/21/08	4.0	2.6	2.0	1.1	-0.2	-0.6	-0.8	-1.0	-0.3	0.4	2.0	3.2	4.5	5.8	7.1	7.9	8.1	7.9	6.7	5.8	5.6	5.9	5.1	4.0	24	8.1	-1.0	3.6
4/22/08	2.8	1.6	0.9	0.5	-0.1	0.9	0.9	2.6	5.3	7.6	10.0	11.9													12	11.9	-0.1	3.7
4/23/08														14.1	15.3	17.7	19.8	21.2	20.6	18.4	16.9	14.7	10.4	12.1	11	21.2	10.4	16.5
4/24/08	11.7	10.7	10.5	7.1	6.1	5.3	3.4	3.6	3.3	3.4	4.0	4.5	4.3	3.7	3.3	3.7	3.7	3.8	3.2	2.2	1.2	0.4	-0.1	-0.5	24	11.7	-0.5	4.3
4/25/08	-1.1	-1.2	-1.5	-1.5	-1.8	-2.1	-2.5	-2.4	-2.2	-1.8	-2.3	-2.3	-1.6	0.0	0.7	1.3	1.5	1.6	1.6	1.4	0.8	-0.2	-1.2	-2.0	24	1.6	-2.5	-0.8
4/26/08	-2.2	-2.8	-2.7	-3.3	-3.1	-3.2	-3.0	-0.5	1.8	3.5	3.1	3.9	4.2	4.9	5.6	6.1	6.3	6.4	5.7	3.8	1.8	0.5	0.1	-0.6	24	6.4	-3.3	1.5
4/27/08	-2.1	-2.0	-2.4	-2.9	-3.1	-3.5	-2.5	-0.1	2.0	3.5	5.2	6.3	6.9	7.3	7.5	7.5	7.4	7.3	6.4	4.1	1.3	0.0	-0.7	-1.0	24	7.5	-3.5	2.2
4/28/08	-1.0	-1.3	-3.9	-3.2	-3.3	-3.6	-4.6	-0.7	2.1	3.6	4.7	5.7	6.6	7.3	8.1	8.6	8.5	8.6	7.7	6.6	5.3	3.3	2.1	1.6	24	8.6	-4.6	2.9
4/29/08	0.6	0.5	0.8	0.1	-0.8	-1.1	0.2	2.6	5.2	7.9	10.4	12.5	14.7	16.5	18.1	19.7	20.6	20.7	20.0	16.7	14.5	12.5	10.7	9.4	24	20.7	-1.1	9.7
4/30/08	8.9	8.8	8.8	8.7	8.2	7.9	8.4	9.2	11.3	12.9	14.9	17.2	19.1	20.3	20.8	21.5	21.6	20.9	20.2	17.4	14.7	13.1	11.2	10.0	24	21.6	7.9	14.0
																									0			

hr max	11.7	10.9	10.5	9.1	9.1	8.4	8.7	9.4	11.5	14.2	16.8	19.8	22.7	25.9	28.5	30.2	30.1	28.2	23.7	18.6	16.9	15.3	13.8	12.3
hr min	-6.1	-6.9	-8.3	-7.1	-7.0	-7.0	-6.8	-5.8	-4.4	-4.6	-3.8	-4.0	-4.1	-5.4	-4.5	-3.7	-3.7	-3.0	-1.8	-2.2	-2.7	-3.0	-4.1	-5.5
average	2.5	1.8	1.2	1.0	0.5	0.3	0.4	1.7	3.3	4.8	6.1	7.3	8.1	8.9	9.8	10.4	10.6	10.4	9.5	7.7	6.4	5.4	4.3	3.6

monthly max hr	monthly min hr	monthly ave hr
30.2	-8.3	5.2
4/15/08	4/7/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4/1/08	-2.8	-2.9	-3.2	-3.6	-4.1	-4.0	-4.2	-4.1	-4.0	-2.8	-1.3	-0.1	0.8	1.8	2.3	2.7	2.7	2.6	2.3	1.4	0.4	-0.8	-1.5	-1.8
4/2/08	-1.7	-1.6	-1.1	0.9	-0.4	-1.0	-1.4	-1.4	0.1	2.3	4.3	5.8	6.7	7.5	8.2	8.7	8.8	8.9	8.8	8.5	8.3	8.2	8.0	6.8
4/3/08	4.6	4.5	4.4	4.2	2.8	2.8	4.4	3.7	3.9	6.5	8.1	9.2	9.6	10.1				11.0	10.7	10.2	10.2	9.8	9.1	9.4
4/4/08	8.9	6.2	6.5	5.1	5.7	4.9	4.1	4.1	5.3	6.9	9.2	10.6	11.5	12.4	13.3	13.8	14.4	14.5	13.8	13.5	13.1	12.9	12.3	11.4
4/5/08	10.2	7.6	4.4	2.1	1.7	1.7	1.0	1.8	4.0	5.6	7.0	8.5	9.3	8.6	8.8	9.9	9.8	7.4	4.8	3.0	2.0	0.7	-0.5	-1.4
4/6/08	-1.2	-1.9	-1.9	-2.1	-2.0	-2.1	-2.7	-3.0	-3.1	-4.0	-4.3	-4.5	-4.6	-4.7	-4.9	-3.9	-3.9	-3.2	-1.6	-1.4	-1.7	-2.1	-2.4	-2.9
4/7/08	-3.3	-4.7	-5.8	-4.7	-4.0	-4.6	-4.3	-4.1	-3.5	-4.2	-3.9	-2.7	-1.1	0.3	1.0	1.9	2.2	2.2	1.7	1.5	2.8	2.8	2.4	3.8
4/8/08	1.7	2.6	2.3	1.7	1.6	1.2	0.0	-0.6	0.4	0.9	2.3	3.7	4.8	5.2	4.0	3.8	3.9	3.6	3.2	2.7	3.0	3.4	3.9	3.5
4/9/08	2.9	2.0	1.7	2.1	4.0	5.4	3.4	3.0	4.0	6.2	8.2	9.8	10.7	11.0	11.0	10.5	9.9	8.8	7.2	6.2	5.8	5.2	4.1	3.7
4/10/08	3.4	3.5	2.7	2.1	1.7	1.2	0.8	0.7	0.7	1.1	1.3	1.2	1.3	1.6	2.0	2.3	1.9	0.3	0.0	0.0	0.0	-0.1	-0.2	-0.4
4/11/08	-0.8	-0.8	-1.0	-0.8	-1.1	-1.4	-1.5	-1.4	-1.2	-1.4	-1.5	-1.3	-1.2	0.3	1.8	3.3	4.8	5.1	4.1	2.5	2.1	2.0	0.8	-0.3
4/12/08	-0.4	-1.4	-2.1	-2.4	-2.5	-2.7	-3.0	-2.0	-0.7	0.9	2.1	3.0	4.3	5.1	5.9	6.4	6.7	6.8	6.2	5.2	4.3	2.6	1.2	1.1
4/13/08	0.8	1.2	1.8	1.9	2.3	2.0	1.7	1.8	2.4	4.0	5.5	6.4	7.3	8.0	8.8	9.7	9.9	10.2	10.1	9.3	7.6	4.9	3.5	3.0
4/14/08	2.9	2.3	2.1	1.8	1.6	1.3	1.2	3.1	5.6	8.2	10.0	11.5	12.7	13.8	14.8	15.7	16.5	17.0	16.4	14.8	14.0	13.2	12.3	12.3
4/15/08	11.7	11.3	10.7	10.0	10.1	9.0	8.8	9.1	10.9	13.3	15.9	18.8	21.6	24.9	27.7	29.5	29.6	27.9	24.0	20.8	18.2	15.9	14.0	12.3
4/16/08	10.3	9.0	8.7	7.8	6.9	5.8	5.5	5.1	4.5	3.9	3.9	5.1	6.3	8.1	9.7	10.0	10.5	11.1	11.3	10.7	10.3	9.5	8.1	7.5
4/17/08	6.8	6.0	5.4	4.9	5.1	4.7	5.2	5.4	5.5	7.6	9.4	10.2	10.8	11.3	11.8	12.2	12.2	12.4	12.3	11.9	11.2	11.2	10.8	10.7
4/18/08	10.0	8.5	8.5	8.0	6.8	8.1	8.1	8.7	9.8	11.5	12.3	13.0	13.5	14.1	14.5	14.9	15.3	15.3	14.9	13.7	13.0	10.7	8.8	7.9
4/19/08	7.2	6.0	5.4	6.0	5.7	5.7	6.3	6.6	8.7	11.2	12.4	13.3	14.0	14.6	15.1	15.6	16.0	15.8	14.8	13.6	11.9	11.2	10.2	9.7
4/20/08	9.2	8.2	7.2	6.7	6.1	5.8	6.1	6.5	7.3	7.9	9.9	12.1	13.9	15.7	17.4	17.8	18.1	18.4	18.1	16.5	15.0	13.9	11.8	10.6
4/21/08	3.6	2.1	1.5	0.6	-0.6	-1.1	-1.2	-1.7	-1.2	-0.7	0.9	2.0	3.4	4.7	6.1	7.1	7.4	7.4	6.9	6.6	6.5	6.4	6.2	6.1
4/22/08	5.1	4.0	3.7	3.6	3.5	3.9	3.0	2.2	4.5	6.7	9.0	11.0												
4/23/08														13.3	14.5	16.7	19.4	20.7	20.5	19.2	17.9	14.8	12.0	13.8
4/24/08	11.7	11.2	11.0	7.3	6.5	5.5	3.0	3.1	2.8		3.3	3.8	3.6	3.1	2.8	3.2	3.2	3.3	2.7	1.8	0.8	0.1	-0.5	-0.9
4/25/08	-1.5	-1.6	-1.9	-1.9	-2.2	-2.6	-3.0	-2.9	-2.6	-2.2	-2.8	-2.8	-2.1	-0.5	0.2	0.8	1.0	1.2	1.3	1.3	0.9	0.4	0.1	-0.6
4/26/08	-0.7	-1.3	-1.3	-1.8	-1.5	-1.5	-2.5	-1.0	1.0	2.6	2.3	2.9	3.3	3.8	4.6	5.0	5.4	5.6	5.3	4.3	3.1	2.4	1.3	0.2
4/27/08	-0.2	-0.5	-0.8	-1.1	-2.3	-2.6	-2.2	-0.7	1.3	2.8	4.3	5.3	5.9	6.2	6.4	6.4	6.5	6.6	6.1	4.8	3.3	2.0	0.8	1.2
4/28/08	1.4	1.0	-0.3	-0.5	-0.5	-0.3	-1.4	-1.0	1.3	2.8	3.9	4.8	5.6	6.4	7.1	7.7	7.8	7.9	7.4	6.5	5.1	3.1	2.0	1.4
4/29/08	0.6	0.4	0.8	0.0	-0.8	-1.1	-0.1	1.9	4.3	6.9	9.3	11.6	13.6	15.4	17.1	18.7	19.7	20.1	19.7	17.9	15.5	13.2	11.6	10.6
4/30/08	9.7	9.3	9.0	8.6	8.2	8.0	8.2	8.8	10.4	11.8	13.8	16.1	17.9	19.2	19.8	20.4	20.7	20.3	19.7	18.0	16.0	14.1	11.9	10.4

	hr max	hr min	average
0	11.7	-3.3	3.8
1	11.3	-4.7	3.1
2	11.0	-5.8	2.7
3	10.0	-4.7	2.3
4	10.1	-4.1	2.0
5	9.0	-4.6	1.8
6	8.8	-4.3	1.5
7	9.1	-4.1	1.8
8	10.9	-4.0	2.8
9	13.3	-4.2	4.2
10	15.9	-4.3	5.3
11	18.8	-4.5	6.5
12	21.6	-4.6	7.3
13	24.9	-4.7	8.3
14	27.7	-4.9	9.0
15	29.5	-3.9	9.7
16	29.6	-3.9	10.0
17	27.9	-3.2	10.0
18	24.0	-1.6	9.4
19	20.8	-1.4	8.4
20	18.2	-1.7	7.6
21	15.9	-2.1	6.6
22	14.0	-2.4	5.6
23	13.8	-2.9	5.1

valid hr count	daily max hr	daily min hr	daily ave hr
24	2.7	-4.2	-1.0
24	8.9	-1.7	4.3
21	11.0	2.8	7.1
24	14.5	4.1	9.8
24	10.2	-1.4	4.9
24	-1.2	-4.9	-2.9
24	3.8	-5.8	-1.2
24	5.2	-0.6	2.6
24	11.0	1.7	6.1
24	3.5	-0.4	1.2
24	5.1	-1.5	0.5
24	6.8	-3.0	1.9
24	10.2	0.8	5.2
24	17.0	1.2	9.4
24	29.6	8.8	16.9
24	11.3	3.9	7.9
24	12.4	4.7	9.0
24	15.3	6.8	11.2
24	16.0	5.4	10.7
24	18.4	5.8	11.7
24	7.4	-1.7	3.3
12	11.0	2.2	5.0
11	20.7	12.0	16.6
23	11.7	-0.9	4.0
24	1.3	-3.0	-1.0
24	5.6	-2.5	1.7
24	6.6	-2.6	2.5
24	7.9	-1.4	3.3
24	20.1	-1.1	9.5
24	20.7	8.0	13.8
0			

monthly max hr	monthly min hr	monthly ave hr
29.6	-5.8	5.6
4/15/08	4/7/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	691
possible hours	720
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4/1/08	-3.20	-3.10	-3.40	-3.80	-4.10	-4.10	-4.30	-4.20	-4.10	-3.10	-1.80	-0.60	0.30	1.30	1.80	2.10	2.10	2.10	1.90	1.50	1.20	0.30	-0.60	-0.70
4/2/08	-1.00	-1.30	0.10	1.20	-0.30	-0.80	-0.60	-0.70	-0.30	1.90	3.80	5.30	6.20	7.00	7.60	8.10	8.30	8.40	8.40	8.20	8.10	8.00	7.90	7.20
4/3/08	6.90	7.00	7.10	6.60	3.60	3.00	4.80	5.00	5.00	6.10	7.50	8.60	9.00	9.50				10.50	10.40	10.20	10.10	9.80	9.40	9.60
4/4/08	9.60	8.80	8.90	7.60	7.30	6.70	6.70	7.30	6.40	6.60	8.60	10.00	10.80	11.80	12.70	13.10	13.70	13.90	13.60	13.30	13.30	13.10	12.70	11.70
4/5/08	10.00	7.80	4.60	2.00	1.90	2.30	1.60	2.20	3.70	5.10	6.40	7.90	8.60	8.00	8.20	9.30	9.30	6.90	4.30	2.60	1.60	0.20	-0.90	-1.90
4/6/08	-1.60	-2.30	-2.40	-2.60	-2.40	-2.60	-3.20	-3.40	-3.50	-4.40	-4.70	-4.90	-5.00	-5.10	-5.30	-4.30	-4.30	-3.40	-1.50	-1.00	-1.20	-1.30	-1.10	-1.80
4/7/08	-1.80	-1.90	-2.30	-3.50	-2.40	-2.80	-3.70	-3.80	-3.70	-3.80	-3.20	-2.70	-1.50	-0.20	0.50	1.40	1.70	1.70	1.60	2.20	3.60	4.30	4.20	4.50
4/8/08	2.70	3.20	2.00	1.50	1.50	1.70	0.80	0.50	0.30	0.50	1.80	3.10	4.20	4.60	3.50	3.40	3.50	3.00	2.80	2.90	3.80	4.50	5.00	4.70
4/9/08	4.30	3.40	3.40	4.90	5.60	5.60	5.30	5.00	4.70	5.70	7.60	9.20	10.00	10.40	10.50	10.00	9.40	8.40	6.90	6.00	5.70	5.10	3.90	3.40
4/10/08	3.20	3.40	2.50	1.80	1.30	0.80	0.40	0.20	0.20	0.60	0.80	0.70	0.80	1.10	1.60	1.80	1.40	0.10	-0.10	-0.30	-0.30	-0.40	-0.50	-0.50
4/11/08	-0.80	-1.00	-1.30	-1.10	-1.50	-1.80	-1.90	-1.80	-1.70	-1.90	-2.00	-1.80	-1.70	-0.20	1.30	2.80	4.30	4.60	3.80	2.70	2.20	2.30	1.00	-0.20
4/12/08	-0.50	-0.40	-0.80	-1.50	-1.60	-2.50	-2.80	-2.10	-1.20	0.40	1.50	2.40	3.70	4.50	5.30	5.80	6.10	6.30	5.90	5.30	5.10	3.30	2.10	1.90
4/13/08	1.80	1.90	1.80	2.10	2.60	2.40	2.30	2.20	2.20	3.60	5.00	5.90	6.70	7.40	8.20	9.00	9.40	9.70	9.60	8.90	7.90	6.70	5.20	4.90
4/14/08	4.30	3.60	3.20	2.90	2.80	2.30	2.40	3.10	5.10	7.60	9.40	10.80	12.00	13.10	14.10	15.10	15.90	16.50	16.20	15.10	14.20	13.30	12.60	12.40
4/15/08	12.00	11.60	11.40	11.00	10.50	9.50	9.00	8.80	10.30	12.70	15.20	18.10	20.90	24.20	27.00	28.90	29.00	27.40	23.70	20.90	18.80	16.10	13.80	12.00
4/16/08	10.10	9.00	8.50	7.40	6.50	5.40	5.10	4.60	4.20	3.70	3.40	4.50	5.80	7.50	9.10	9.40	10.00	10.60	10.90	10.60	10.60	9.70	8.50	8.10
4/17/08	7.60	7.10	6.20	6.10	5.90	6.00	6.80	6.70	6.10	7.20	8.80	9.60	10.20	10.70	11.10	11.60	11.70	11.80	11.80	11.60	11.10	11.00	10.80	10.60
4/18/08	10.10	9.10	9.20	9.10	8.50	8.80	9.10	9.70	9.70	11.00	11.60	12.40	12.90	13.50	14.00	14.40	14.70	14.80	14.40	13.50	12.80	11.50	10.50	10.20
4/19/08	9.40	8.40	6.80	7.30	7.80	8.10	8.40	8.20	8.40	10.60	11.80	12.60	13.30	13.90	14.50	15.00	15.40	15.30	14.50	13.90	12.90	12.30	10.90	10.30
4/20/08	9.60	8.30	7.20	6.90	6.20	5.80	5.90	6.10	6.80	7.20	9.20	11.50	13.30	15.10	16.80	17.20	17.50	17.90	17.70	16.70	15.80	14.60	12.30	10.90
4/21/08	3.40	1.60	1.10	0.20	-1.10	-1.50	-1.70	-2.20	-1.70	-1.40	0.30	1.40	2.80	4.10	5.50	6.40	6.80	6.90	6.50	6.20	6.30	6.10	6.00	6.00
4/22/08	5.30	4.40	4.10	3.90	4.00	4.30	3.80	2.70	3.90	6.10	8.40	10.30												
4/23/08														12.70	13.90	16.10	19.00	20.20	20.20	19.50	18.70	14.90	13.50	14.50
4/24/08	11.60	11.50	11.50	8.60	10.40	7.40	2.60	2.80	2.30	2.20	2.80	3.30	3.10	2.60	2.20	2.60	2.70	2.80	2.20	1.30	0.30	-0.40	-1.00	-1.40
4/25/08	-2.00	-2.10	-2.40	-2.40	-2.70	-3.00	-3.40	-3.40	-3.10	-2.70	-3.30	-3.30	-2.60	-1.00	-0.30	0.30	0.50	0.70	0.90	0.90	0.70	0.70	0.30	-0.30
4/26/08	-0.40	-1.40	-1.30	-1.40	-1.00	-0.90	-0.90	-0.50	0.50	2.00	1.70	2.20	2.60	3.20	3.90	4.40	4.70	5.10	4.80	4.00	3.10	2.70	1.90	0.50
4/27/08	0.30	0.00	-0.40	-0.70	-1.50	-1.70	-1.70	-0.70	0.80	2.30	3.70	4.70	5.20	5.60	5.80	5.80	6.00	6.10	5.60	4.60	3.50	2.30	1.60	1.60
4/28/08	1.60	1.30	0.60	0.30	0.70	0.60	-0.50	-0.70	0.80	2.20	3.30	4.20	5.10	5.90	6.50	7.10	7.30	7.40	7.00	6.20	4.70	2.80	1.70	1.20
4/29/08	0.60	0.50	0.90	-0.10	-0.80	-0.80	-0.10	1.30	3.70	6.30	8.80	10.90	13.00	14.80	16.50	18.10	19.10	19.50	19.30	18.10	16.20	14.10	13.10	12.00
4/30/08	11.00	10.30	9.20	8.70	8.70	8.40	8.10	8.40	9.80	11.20	13.10	15.40	17.20	18.60	19.10	19.80	20.10	19.70	19.20	18.30	17.70	15.60	12.50	10.80
hr max	12.00	11.60	11.50	11.00	10.50	9.50	9.10	9.70	10.30	12.70	15.20	18.10	20.90	24.20	27.00	28.90	29.00	27.40	23.70	20.90	18.80	16.10	13.80	14.50
hr min	-3.20	-3.10	-3.40	-3.80	-4.10	-4.10	-4.30	-4.20	-4.10	-4.40	-4.70	-4.90	-5.00	-5.10	-5.30	-4.30	-4.30	-3.40	-1.50	-1.00	-1.20	-1.30	-1.10	-1.90
average	4.28	3.75	3.31	2.86	2.63	2.30	2.01	2.11	2.61	3.64	4.81	5.92	6.68	7.74	8.41	9.10	9.48	9.48	9.05	8.41	7.88	7.01	6.11	5.59

valid hr count	daily max hr	daily min hr	daily ave hr
24	2.10	-4.30	-1.10
24	8.40	-1.30	4.20
21	10.50	3.00	7.60
24	13.90	6.40	10.34
24	10.00	-1.90	4.65
24	-1.00	-5.30	-3.05
24	4.50	-3.80	-0.48
24	5.00	0.30	2.73
24	10.50	3.40	6.43
24	3.40	-0.50	0.86
24	4.60	-2.00	0.18
24	6.30	-2.80	1.93
24	9.70	1.80	5.31
24	16.50	2.30	9.50
24	29.00	8.80	16.78
24	10.90	3.40	7.63
24	11.80	5.90	9.09
24	14.80	8.50	11.48
24	15.40	6.80	11.25
24	17.90	5.80	11.52
24	6.90	-2.20	2.83
12	10.30	2.70	5.10
11	20.20	12.70	16.65
24	11.60	-1.40	3.92
24	0.90	-3.40	-1.38
24	5.10	-1.40	1.65
24	6.10	-1.70	2.45
24	7.40	-0.70	3.22
24	19.50	-0.80	9.38
24	20.10	8.10	13.79
0			

monthly max hr	monthly min hr	monthly ave hr
29.00	-5.30	5.62
4/15/08	4/6/08	

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	692
possible hours	720
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.17	0.59	1.25	1.17	1.30	1.82	2.13	0.64	-0.36	-0.44	-0.73	-0.80	-0.53	-0.99	-0.94	-0.84	-0.84	-0.32	0.16	0.55	0.59	0.41	0.36	0.35	24	2.13	-0.99	0.20
4/2/08	0.37	0.35	0.46	0.44	0.40	0.42	0.30	-0.30	-0.72	-0.86	-0.82	-0.74	-1.05	-1.11	-1.04	-0.90	-0.75	-0.29	0.77	5.42	6.54	5.12	3.91	2.43	24	6.54	-1.11	0.76
4/3/08	0.88	0.90	1.72	2.16	2.05	2.36	3.30	0.41	-0.65	-0.91	-1.13	-1.30	-1.20	-1.33				-0.22	1.17	3.54	5.06	6.29	4.45	4.96	21	6.29	-1.33	1.55
4/4/08	4.45	2.88	1.78	1.22	1.08	0.80	0.69	0.07	-0.50	-1.17	-1.50	-1.67	-1.56	-1.47	-1.34	-1.22	-0.74	-0.21	1.31	4.52	5.72	6.06	6.16	4.20	24	6.16	-1.67	1.23
4/5/08	4.79	2.67	0.91	0.24	0.22	0.26	0.14	-0.13	-0.43	-0.56	-0.92	-1.21	-1.18	-1.30	-1.08	-0.88	-0.57	-0.16	-0.04	0.01	0.02	0.02	0.03	-0.02	24	4.79	-1.30	0.03
4/6/08	-0.06	-0.09	-0.06	-0.09	-0.13	-0.05	-0.03	-0.11	-0.21	-0.22	-0.26	-0.18	-0.21	-0.23	-0.18	-0.03	-0.07	0.05	0.33	0.62	0.71	0.58	0.98	1.42	24	1.42	-0.26	0.10
4/7/08	1.38	1.31	2.14	3.18	3.75	3.10	1.06	5.65	3.80	-0.54	-0.67	-0.66	-0.16	-0.73	-0.72	-0.66	-0.47	-0.32	0.44	0.97	0.80	0.89	0.68	0.65	24	5.65	-0.73	1.04
4/8/08	0.60	1.68	3.53	3.50	2.57	1.92	0.23	-0.22	-0.52	-0.73	-0.90	-0.90	-1.04	-1.12	-1.05	-0.60	-0.49	-0.72	-0.20	0.56	0.76	0.85	0.91	1.00	24	3.53	-1.12	0.40
4/9/08	0.75	0.43	0.39	0.49	0.62	0.89	0.49	-0.14	-0.61	-0.86	-1.08	-1.01	-0.99	-0.70	-0.53	-0.35	-0.20	-0.03	0.08	0.28	0.21	0.28	0.18	0.10	24	0.89	-1.08	-0.05
4/10/08	0.15	0.19	0.06	-0.01	0.06	0.02	0.00	-0.13	-0.13	-0.16	-0.20	-0.23	-1.00	-7.72	-0.12	0.00	-0.17	-0.20	-0.18	-0.09	-0.09	-0.06	-0.03	-0.04	24	0.19	-7.72	-0.42
4/11/08	-0.31	-0.15	-0.14	-0.13	-0.13	-0.12	-0.11	-0.13	-0.15	-0.22	-0.26	-0.28	-0.25	-0.15	-0.17	-0.26	-0.14	0.11	0.33	1.18	1.30	0.61	0.62	1.09	24	1.30	-0.31	0.09
4/12/08	0.83	0.54	0.45	0.45	0.54	0.60	0.30	-0.22	-0.55	-0.94	-1.10	-1.23	-1.36	-1.34	-1.24	-1.03	-0.69	-0.25	0.28	2.02	2.45	1.85	1.19	2.02	24	2.45	-1.36	0.15
4/13/08	2.67	3.16	1.36	1.67	2.48	2.88	1.66	-0.17	-0.71	-1.37	-1.23	-1.33	-1.27	-1.05	-0.99	-0.78	-0.69	-0.42	0.16	3.54	1.70	0.83	0.72	0.64	24	3.54	-1.37	0.56
4/14/08	0.54	0.54	0.52	0.50	0.46	0.51	0.21	-0.22	-0.53	-0.77	-0.78	-1.10	-1.16	-1.14	-1.00	-0.84	-0.52	-0.18	0.23	0.45	0.42	0.40	0.39	0.40	24	0.54	-1.16	-0.11
4/15/08	0.40	0.44	0.46	0.57	0.69	0.58	0.22	-0.02	-0.62	-0.94	-1.06	-1.21	-1.23	-1.19	-0.84	-0.55	-0.29	-0.06	0.53	1.41	0.83	0.65	0.41	0.28	24	1.41	-1.23	-0.02
4/16/08	0.26	0.44	0.21	0.12	0.14	0.11	0.02	1.10	-1.84	-0.62	-0.82	-0.60	-0.98	-1.37	-1.29	-1.36	-0.65	-0.54	0.53	3.34	4.69	4.20	1.82	1.69	24	4.69	-1.84	0.36
4/17/08	2.87	1.62	2.55	1.83	3.06	2.88	3.66	0.48	-0.56	-0.74	-0.88	-1.01	-1.00	-1.03	-1.04	-1.00	-0.65	-0.53	0.15	1.35	4.04	6.36	5.10	5.71	24	6.36	-1.04	1.38
4/18/08	4.60	3.59	3.17	3.66	4.39	4.05	2.60	-0.37	-0.73	-0.90	-0.80	-0.94	-1.17	-1.14	-1.03	-0.90	-0.70	-0.45	0.40	1.98	1.10	0.75	0.58	0.66	24	4.60	-1.17	0.93
4/19/08	0.59	0.57	0.95	1.21	1.12	2.19	0.59	-0.31	-0.78	-1.10	-1.36	-1.53	-1.74	-1.64	-1.48	-1.21	-0.85	-0.07	0.16	0.71	0.58	0.45	0.41	0.36	24	2.19	-1.74	-0.09
4/20/08	0.28	0.23	0.19	0.16	0.09	0.14	0.01	-0.26	-0.63	-0.92	-1.17	-1.26	-1.31	-1.27	-1.12	-0.71	-0.57	-0.26	0.10	0.44	0.52	0.41	0.59	0.48	24	0.59	-1.31	-0.24
4/21/08	0.02	-0.14	-0.13	-0.05	-0.04	-0.07	-0.11	-0.32	-0.84	-1.45	-1.81	-1.94	-2.04	-1.92	-1.68	-1.31	-0.86	-0.24	0.57	1.09	0.98	1.95	1.59	1.60	24	1.95	-2.04	-0.30
4/22/08	3.13	2.22	2.49	1.63	1.63	1.04	0.35	-0.35	-0.74	-1.07	-1.36	-1.44													12	3.13	-1.44	0.63
4/23/08														-0.60	-0.65	-0.91	-0.09	-0.18	0.18	0.51	0.39	0.16	0.14	0.31	11	0.51	-0.91	-0.07
4/24/08	0.37	0.62	0.30	-0.05	0.19	0.45	-0.09	-0.23	-0.23		-0.61	-0.44	-0.33	-0.30	-0.16	-0.11	-0.11	-0.15	-0.10	-0.02	-0.01	-0.02	-0.03	-0.05	23	0.62	-0.61	-0.05
4/25/08	-0.05	-0.05	-0.05	-0.04	-0.06	-0.05	-0.08	-0.11	-0.14	-0.17	-0.23	-0.27	-0.23	-0.23	-0.23	-0.22	-0.17	-0.06	0.07	0.20	0.37	0.61	0.84	1.03	24	1.03	-0.27	0.03
4/26/08	1.04	0.82	0.75	0.70	0.55	0.54	0.02	-0.42	-0.91	-1.05	-0.62	-1.19	-1.20	-1.51	-1.43	-1.31	-1.02	-0.60	0.01	0.97	1.57	1.14	0.72	0.58	24	1.57	-1.51	-0.08
4/27/08	0.62	0.58	0.52	0.39	0.37	0.36	0.02	-0.43	-0.66	-0.83	-1.38	-1.76	-1.68	-1.69	-1.58	-1.48	-0.98	-0.56	0.01	1.38	1.60	1.57	1.03	0.99	24	1.60	-1.76	-0.15
4/28/08	1.78	2.31	2.67	2.47	2.27	1.86	0.69	-0.46	-0.87	-1.11	-1.18	-1.19	-1.24	-1.25	-1.24	-1.16	-0.73	-0.53	0.02	0.13	0.10	0.12	0.12	0.17	24	2.67	-1.25	0.16
4/29/08	0.21	0.09	0.13	0.16	0.17	0.17	-0.07	-0.44	-0.83	-1.18	-1.44	-1.52	-1.59	-1.52	-1.33	-1.13	-0.78	-0.38	0.15	0.71	0.58	0.47	0.45	0.41	24	0.71	-1.59	-0.35
4/30/08	0.39	0.33	0.26	0.15	0.18	0.13	0.03	-0.13	-0.69	-1.06	-1.07	-1.38	-1.47	-1.31	-0.95	-1.04	-0.82	-0.32	-0.12	0.50	0.70	0.54	0.53	0.29	24	0.70	-1.47	-0.26
																									0			

hr max	4.79	3.59	3.53	3.66	4.39	4.05	3.66	5.65	3.80	-0.16	-0.20	-0.18	-0.16	-0.15	-0.12	0.00	-0.07	0.11	1.31	5.42	6.54	6.36	6.16	5.71
hr min	-0.31	-0.15	-0.14	-0.13	-0.13	-0.12	-0.11	-0.46	-1.84	-1.45	-1.81	-1.94	-2.04	-7.72	-1.68	-1.48	-1.02	-0.72	-0.20	-0.09	-0.09	-0.06	-0.03	-0.05
average	1.16	0.99	0.99	0.96	1.04	1.03	0.63	0.09	-0.46	-0.82	-0.94	-1.05	-1.08	-1.32	-0.94	-0.81	-0.56	-0.28	0.26	1.32	1.53	1.50	1.20	1.16

monthly	monthly	monthly
max hr	min hr	ave hr
6.54	-7.72	0.24
4/2/08	4/10/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	691
possible hours	720
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	-0.13	0.40	1.25	1.77	2.31	3.00	2.57	1.71	0.32	-0.44	-0.60	-0.70	-0.75	-0.82	-0.78	-0.76	-0.76	-0.57	-0.22	0.50	1.07	0.77	0.44	0.83	24	3.00	-0.82	0.43
4/2/08	0.76	1.06	1.34	0.61	0.59	1.49	1.12	-0.18	-0.61	-0.62	-0.66	-0.84	-0.79	-0.86	-0.83	-0.72	-0.60	-0.44	0.31	1.06	1.40	3.16	4.26	3.64	24	4.26	-0.86	0.57
4/3/08	2.76	3.10	2.77	2.57	1.81	2.29	1.21	1.64	-0.34	-0.66	-0.79	-0.88	-0.84	-0.84				-0.38	0.44	0.89	1.74	1.72	3.15	4.12	21	4.12	-0.88	1.21
4/4/08	4.46	3.72	5.40	4.90	5.82	5.30	3.78	2.29	-0.10	-0.55	-0.78	-0.87	-0.78	-0.77	-0.74	-0.74	-0.62	-0.38	0.37	1.69	1.44	2.20	3.53	4.76	24	5.82	-0.87	1.81
4/5/08	2.35	2.03	1.96	0.17	0.12	0.33	0.15	-0.12	-0.56	-0.71	-0.93	-1.09	-1.13	-1.24	-1.12	-0.92	-0.78	-0.48	-0.39	-0.34	-0.34	-0.33	-0.33	-0.38	24	2.35	-1.24	-0.17
4/6/08	-0.41	-0.44	-0.41	-0.41	-0.46	-0.41	-0.38	-0.39	-0.46	-0.49	-0.50	-0.46	-0.46	-0.44	-0.39	-0.21	-0.29	-0.17	0.13	0.74	0.96	0.89	1.65	2.62	24	2.62	-0.50	-0.01
4/7/08	2.82	2.20	2.50	2.47	2.98	2.46	1.19	-1.84	-1.18	0.36	-0.48	-0.47	-0.77	-0.55	-0.60	-0.63	-0.54	-0.48	0.32	1.56	3.25	3.85	2.81	3.76	24	3.85	-1.84	1.04
4/8/08	2.04	2.65	0.76	0.39	2.49	1.67	3.21	0.67	-0.52	-0.60	-0.78	-0.75	-0.70	-0.81	-0.86	-0.66	-0.61	-0.75	-0.45	0.33	0.81	1.41	2.20	1.95	24	3.21	-0.86	0.55
4/9/08	2.05	1.72	1.93	2.29	4.54	5.96	3.77	1.31	-0.51	-0.71	-0.85	-0.87	-0.85	-0.75	-0.65	-0.56	-0.46	-0.31	-0.22	0.27	0.44	0.21	-0.05	-0.20	24	5.96	-0.87	0.73
4/10/08	-0.08	0.06	-0.07	-0.28	-0.27	-0.30	-0.33	-0.44	-0.46	-0.47	-0.51	-0.55	0.12	6.98	-0.48	-0.38	-0.11	0.03	0.07	0.03	0.00	-0.12	-0.29	-0.47	24	6.98	-0.55	0.07
4/11/08	-0.31	-0.24	-0.18	-0.08	-0.08	-0.08	-0.06	-0.20	-0.31	-0.25	-0.16	-0.24	-0.32	-0.06	-0.18	-0.58	-0.46	-0.29	0.04	0.82	1.38	1.49	0.67	1.00	24	1.49	-0.58	0.06
4/12/08	1.36	1.26	0.55	0.36	0.57	0.25	0.07	-0.41	-0.65	-0.74	-0.88	-0.97	-1.03	-1.07	-0.98	-0.90	-0.77	-0.54	-0.01	1.84	2.66	2.30	1.73	1.64	24	2.66	-1.07	0.24
4/13/08	1.06	1.31	4.49	3.96	3.53	2.59	2.33	0.95	-0.43	-0.67	-0.82	-0.87	-0.94	-0.90	-0.90	-0.70	-0.64	-0.50	-0.35	1.08	2.99	2.65	2.05	2.08	24	4.49	-0.94	0.97
4/14/08	2.10	2.00	2.09	1.14	1.18	1.26	0.54	-0.29	-0.57	-0.75	-0.79	-0.99	-1.00	-1.02	-1.02	-0.90	-0.71	-0.45	0.06	0.58	0.47	0.34	0.39	0.36	24	2.10	-1.02	0.17
4/15/08	0.39	0.40	0.55	0.93	1.00	0.64	0.13	-0.24	-0.68	-0.88	-0.96	-1.00	-1.01	-1.02	-0.82	-0.64	-0.49	-0.29	0.25	2.18	2.23	0.59	0.21	-0.03	24	2.23	-1.02	0.06
4/16/08	-0.02	0.25	-0.08	-0.24	-0.23	-0.26	-0.32	-1.59	1.17	-0.23	-0.28	-0.57	-0.78	-0.93	-0.85	-0.84	-0.62	-0.61	0.14	0.98	1.42	2.23	3.47	3.59	24	3.59	-1.59	0.20
4/17/08	2.93	2.30	2.24	2.53	2.43	2.99	1.16	1.91	0.09	-0.70	-0.70	-0.87	-0.76	-0.74	-0.86	-0.77	-0.60	-0.60	-0.37	0.18	0.80	1.00	1.95	2.71	24	2.99	-0.87	0.76
4/18/08	3.90	4.20	4.55	3.67	3.36	3.64	4.36	2.59	-0.42	-0.71	-0.69	-0.87	-0.81	-0.77	-0.85	-0.74	-0.66	-0.51	-0.17	2.32	3.70	2.78	2.19	2.02	24	4.55	-0.87	1.50
4/19/08	2.43	1.99	2.73	3.30	3.06	3.16	3.01	0.13	-0.64	-0.93	-1.04	-1.05	-1.10	-1.08	-1.12	-1.04	-0.85	-0.43	-0.03	1.00	1.07	0.67	0.51	0.42	24	3.30	-1.12	0.59
4/20/08	0.20	0.05	-0.05	-0.02	-0.14	-0.11	-0.26	-0.52	-0.84	-1.05	-1.15	-1.22	-1.26	-1.26	-1.17	-0.87	-0.81	-0.57	-0.24	0.42	0.92	0.58	0.54	0.31	24	0.92	-1.26	-0.36
4/21/08	-0.37	-0.51	-0.49	-0.45	-0.44	-0.45	-0.47	-0.61	-0.87	-1.10	-1.09	-1.18	-1.09	-1.11	-0.99	-0.89	-0.71	-0.52	0.15	0.82	0.87	0.52	1.07	2.07	24	2.07	-1.18	-0.33
4/22/08	2.28	2.36	2.81	3.04	3.59	2.99	2.18	-0.39	-0.82	-0.94	-1.01	-0.90													12	3.59	-1.01	1.27
4/23/08														-0.76	-0.80	-1.04	-0.40	-0.48	-0.06	0.82	0.94	0.02	1.67	1.71	11	1.71	-1.04	0.15
4/24/08	-0.03	0.59	0.52	0.24	0.39	0.14	-0.46	-0.48	-0.53		-0.72	-0.68	-0.62	-0.54	-0.50	-0.47	-0.45	-0.48	-0.45	-0.39	-0.38	-0.39	-0.40	-0.41	23	0.59	-0.72	-0.28
4/25/08	-0.42	-0.42	-0.42	-0.41	-0.43	-0.42	-0.44	-0.46	-0.48	-0.49	-0.53	-0.53	-0.47	-0.49	-0.51	-0.51	-0.48	-0.42	-0.30	-0.13	0.12	0.64	1.30	1.45	24	1.45	-0.53	-0.22
4/26/08	1.56	1.51	1.40	1.49	1.63	1.70	0.53	-0.41	-0.74	-0.89	-0.72	-0.98	-0.97	-1.10	-1.03	-1.09	-0.89	-0.75	-0.42	0.49	1.28	1.92	1.17	0.77	24	1.92	-1.10	0.23
4/27/08	1.90	1.55	1.65	1.73	0.75	0.94	0.34	-0.52	-0.63	-0.66	-0.85	-0.95	-1.03	-1.07	-1.05	-1.11	-0.90	-0.72	-0.36	0.73	1.96	2.01	1.52	2.13	24	2.13	-1.11	0.31
4/28/08	2.35	2.32	3.52	2.65	2.73	3.32	3.19	-0.28	-0.81	-0.85	-0.87	-0.88	-0.92	-0.89	-0.98	-0.94	-0.75	-0.66	-0.34	-0.17	-0.23	-0.20	-0.15	-0.11	24	3.52	-0.98	0.42
4/29/08	0.01	-0.10	-0.06	-0.06	-0.04	0.01	-0.30	-0.71	-0.91	-0.94	-1.06	-0.97	-1.02	-1.06	-0.95	-1.01	-0.91	-0.68	-0.21	1.22	1.01	0.75	0.87	1.18	24	1.22	-1.06	-0.25
4/30/08	0.78	0.53	0.20	-0.02	0.07	0.06	-0.20	-0.45	-0.87	-1.02	-1.08	-1.10	-1.19	-1.10	-1.03	-1.02	-0.90	-0.67	-0.49	0.60	1.33	0.96	0.68	0.44	24	1.33	-1.19	-0.23
																									0			
hr max	4.46	4.20	5.40	4.90	5.82	5.96	4.36	2.59	1.17	0.36	-0.16	-0.24	0.12	6.98	-0.18	-0.21	-0.11	0.03	0.44	2.32	3.70	3.85	4.26	4.76				
hr min	-0.42	-0.51	-0.49	-0.45	-0.46	-0.45	-0.47	-1.84	-1.18	-1.10	-1.15	-1.22	-1.26	-1.26	-1.17	-1.11	-0.91	-0.75	-0.49	-0.39	-0.38	-0.39	-0.40	-0.47				
average	1.34	1.31	1.50	1.32	1.48	1.52	1.09	0.09	-0.50	-0.67	-0.77	-0.84	-0.83	-0.59	-0.82	-0.77	-0.63	-0.49	-0.10	0.76	1.22	1.19	1.34	1.52				

monthly max hr	monthly min hr	monthly ave hr
6.98	-1.84	0.37
4/10/08	4/7/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	691
possible hours	720
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4/1/08	-0.36	-0.21	-0.23	-0.18	0.01	-0.09	-0.14	-0.12	-0.04	-0.26	-0.49	-0.52	-0.55	-0.56	-0.54	-0.56	-0.56	-0.52	-0.37	0.17	0.81	1.10	0.97	1.07
4/2/08	0.69	0.37	1.19	0.29	0.15	0.25	0.84	0.69	-0.39	-0.46	-0.54	-0.56	-0.56	-0.56	-0.58	-0.56	-0.52	-0.51	-0.40	-0.33	-0.24	-0.15	-0.12	0.44
4/3/08	2.35	2.43	2.64	2.34	0.81	0.13	0.43	1.24	1.08	-0.44	-0.60	-0.56	-0.59	-0.57				-0.49	-0.32	-0.06	-0.15	0.00	0.32	0.19
4/4/08	0.66	2.59	2.33	2.51	1.55	1.83	2.55	3.13	1.07	-0.39	-0.57	-0.60	-0.67	-0.63	-0.62	-0.63	-0.61	-0.54	-0.28	-0.15	0.25	0.20	0.37	0.29
4/5/08	-0.16	0.17	0.13	-0.02	0.21	0.61	0.65	0.44	-0.32	-0.52	-0.58	-0.63	-0.68	-0.66	-0.58	-0.63	-0.56	-0.50	-0.48	-0.44	-0.42	-0.43	-0.43	-0.45
4/6/08	-0.45	-0.46	-0.46	-0.43	-0.46	-0.46	-0.46	-0.39	-0.41	-0.43	-0.48	-0.45	-0.43	-0.42	-0.41	-0.37	-0.39	-0.28	0.12	0.42	0.53	0.75	1.33	1.08
4/7/08	1.55	2.75	3.48	1.19	1.58	1.74	0.60	0.33	-0.14	0.41	0.63	0.06	-0.40	-0.46	-0.46	-0.49	-0.47	-0.43	-0.12	0.72	0.83	1.50	1.78	0.66
4/8/08	0.97	0.60	-0.32	-0.17	-0.10	0.48	0.76	1.02	-0.12	-0.41	-0.49	-0.56	-0.59	-0.57	-0.54	-0.47	-0.47	-0.53	-0.35	0.14	0.82	1.09	1.16	1.23
4/9/08	1.40	1.48	1.65	2.81	1.60	0.26	1.93	1.98	0.67	-0.45	-0.58	-0.63	-0.62	-0.60	-0.56	-0.52	-0.50	-0.41	-0.37	-0.19	-0.07	-0.12	-0.21	-0.30
4/10/08	-0.18	-0.10	-0.16	-0.38	-0.40	-0.41	-0.45	-0.47	-0.49	-0.50	-0.51	-0.52	-0.52	-0.51	-0.49	-0.47	-0.45	-0.19	-0.13	-0.29	-0.28	-0.31	-0.28	-0.12
4/11/08	-0.04	-0.14	-0.27	-0.26	-0.32	-0.35	-0.39	-0.43	-0.45	-0.48	-0.48	-0.49	-0.53	-0.50	-0.51	-0.53	-0.50	-0.45	-0.27	0.11	0.11	0.32	0.21	0.10
4/12/08	-0.02	0.96	1.30	0.98	0.86	0.17	0.24	-0.13	-0.46	-0.50	-0.56	-0.60	-0.61	-0.61	-0.62	-0.59	-0.57	-0.52	-0.30	0.10	0.72	0.73	0.83	0.77
4/13/08	1.01	0.64	0.02	0.20	0.24	0.42	0.53	0.42	-0.18	-0.47	-0.56	-0.55	-0.58	-0.57	-0.57	-0.64	-0.51	-0.55	-0.49	-0.35	0.31	1.84	1.61	1.94
4/14/08	1.43	1.35	1.09	1.14	1.21	0.96	1.14	0.06	-0.43	-0.61	-0.62	-0.69	-0.67	-0.64	-0.65	-0.63	-0.58	-0.50	-0.20	0.25	0.26	0.13	0.31	0.16
4/15/08	0.26	0.34	0.72	1.01	0.40	0.49	0.18	-0.29	-0.58	-0.64	-0.65	-0.69	-0.69	-0.64	-0.62	-0.64	-0.60	-0.49	-0.29	0.13	0.66	0.20	-0.14	-0.29
4/16/08	-0.26	-0.05	-0.22	-0.37	-0.36	-0.36	-0.41	-0.46	-0.27	-0.21	-0.54	-0.53	-0.55	-0.60	-0.57	-0.57	-0.52	-0.51	-0.36	-0.10	0.25	0.16	0.41	0.64
4/17/08	0.81	1.09	0.83	1.16	0.76	1.22	1.66	1.29	0.54	-0.45	-0.53	-0.62	-0.59	-0.59	-0.61	-0.56	-0.58	-0.51	-0.50	-0.31	-0.12	-0.21	-0.02	-0.07
4/18/08	0.14	0.63	0.64	1.05	1.71	0.73	0.99	0.96	-0.11	-0.56	-0.61	-0.62	-0.63	-0.60	-0.55	-0.53	-0.60	-0.52	-0.44	-0.25	-0.22	0.81	1.71	2.33
4/19/08	2.24	2.45	1.41	1.27	2.13	2.43	2.08	1.66	-0.35	-0.58	-0.62	-0.63	-0.69	-0.65	-0.63	-0.63	-0.59	-0.48	-0.22	0.33	1.02	1.13	0.71	0.60
4/20/08	0.35	0.07	0.01	0.18	0.02	-0.01	-0.20	-0.42	-0.53	-0.63	-0.69	-0.68	-0.70	-0.62	-0.58	-0.61	-0.58	-0.55	-0.39	0.15	0.79	0.68	0.52	0.27
4/21/08	-0.24	-0.48	-0.47	-0.47	-0.45	-0.47	-0.47	-0.51	-0.57	-0.64	-0.61	-0.67	-0.61	-0.63	-0.62	-0.61	-0.56	-0.50	-0.41	-0.35	-0.26	-0.29	-0.21	-0.05
4/22/08	0.14	0.47	0.40	0.36	0.53	0.43	0.76	0.49	-0.58	-0.63	-0.63	-0.64												
4/23/08														-0.58	-0.56	-0.60	-0.43	-0.49	-0.31	0.27	0.85	0.18	1.41	0.68
4/24/08	-0.03	0.29	0.50	1.25	3.95	1.92	-0.39	-0.25	-0.47		-0.48	-0.51	-0.50	-0.56	-0.57	-0.61	-0.49	-0.47	-0.49	-0.47	-0.46	-0.46	-0.47	-0.47
4/25/08	-0.47	-0.47	-0.47	-0.47	-0.48	-0.46	-0.48	-0.49	-0.49	-0.50	-0.47	-0.48	-0.47	-0.49	-0.50	-0.50	-0.49	-0.47	-0.43	-0.36	-0.17	0.23	0.23	0.27
4/26/08	0.33	-0.05	-0.04	0.45	0.48	0.56	1.59	0.47	-0.52	-0.64	-0.60	-0.68	-0.64	-0.61	-0.65	-0.59	-0.62	-0.55	-0.46	-0.25	0.01	0.29	0.59	0.38
4/27/08	0.51	0.47	0.32	0.43	0.85	0.87	0.48	-0.08	-0.48	-0.55	-0.60	-0.61	-0.62	-0.61	-0.63	-0.60	-0.56	-0.54	-0.46	-0.24	0.24	0.34	0.76	0.49
4/28/08	0.22	0.34	0.95	0.82	1.19	0.86	0.89	0.26	-0.53	-0.58	-0.60	-0.59	-0.55	-0.56	-0.60	-0.55	-0.52	-0.55	-0.44	-0.30	-0.35	-0.37	-0.26	-0.22
4/29/08	-0.03	0.10	0.08	-0.05	0.04	0.28	0.01	-0.52	-0.56	-0.60	-0.59	-0.63	-0.60	-0.60	-0.63	-0.58	-0.61	-0.56	-0.42	0.21	0.66	0.89	1.53	1.43
4/30/08	1.31	0.99	0.23	0.03	0.42	0.44	-0.05	-0.39	-0.59	-0.64	-0.63	-0.65	-0.66	-0.59	-0.66	-0.63	-0.62	-0.59	-0.54	0.24	1.73	1.48	0.65	0.36
hr max	2.35	2.75	3.48	2.81	3.95	2.43	2.55	3.13	1.08	0.41	0.63	0.06	-0.40	-0.42	-0.41	-0.37	-0.39	-0.19	0.12	0.72	1.73	1.84	1.78	2.33
hr min	-0.47	-0.48	-0.47	-0.47	-0.48	-0.47	-0.48	-0.52	-0.59	-0.64	-0.69	-0.69	-0.70	-0.66	-0.66	-0.64	-0.62	-0.59	-0.54	-0.47	-0.46	-0.46	-0.47	-0.47
average	0.49	0.64	0.60	0.57	0.63	0.50	0.51	0.33	-0.23	-0.48	-0.53	-0.57	-0.59	-0.58	-0.58	-0.57	-0.54	-0.49	-0.35	-0.04	0.28	0.40	0.53	0.46

valid hr count	daily max hr	daily min hr	daily ave hr
24	1.10	-0.56	-0.09
24	1.19	-0.58	-0.07
21	2.64	-0.60	0.48
24	3.13	-0.67	0.57
24	0.65	-0.68	-0.26
24	1.33	-0.48	-0.14
24	3.48	-0.49	0.70
24	1.23	-0.59	0.11
24	2.81	-0.63	0.32
24	-0.10	-0.52	-0.36
24	0.32	-0.53	-0.27
24	1.30	-0.62	0.07
24	1.94	-0.64	0.13
24	1.43	-0.69	0.14
24	1.01	-0.69	-0.12
24	0.64	-0.60	-0.27
24	1.66	-0.62	0.13
24	2.33	-0.63	0.23
24	2.45	-0.69	0.56
24	0.79	-0.70	-0.17
24	-0.05	-0.67	-0.46
12	0.76	-0.64	0.09
11	1.41	-0.60	0.04
23	3.95	-0.61	-0.01
24	0.27	-0.50	-0.37
24	1.59	-0.68	-0.07
24	0.87	-0.63	-0.03
24	1.19	-0.60	-0.09
24	1.53	-0.63	-0.07
24	1.73	-0.66	0.03
0			

monthly max hr	monthly min hr	monthly ave hr
3.95	-0.70	0.02
4/24/08	4/20/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	691
possible hours	720
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4/1/08	1.1	1.2	1.2	1.2	1.2	1.3	1.6	1.9	1.4	1.3	1.2	1.3	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	
4/2/08	1.1			1.0	1.1	1.1	1.2	1.3	1.6	1.7	1.7	1.3	1.2	1.1	1.1	1.1	0.9	1.0	1.3	1.3	1.2	1.2	1.1	
4/3/08	1.4	1.8	2.2	2.2	2.3	2.9	2.7	3.0	2.4	1.8	1.5	1.5	1.5	1.4	1.4	1.7	1.5		2.0	1.6	2.3	2.1	1.9	
4/4/08	1.8	1.8	2.0	2.1	2.1	1.8	2.2	2.1	1.9	1.4	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.4	2.1	2.4	2.1	2.5	
4/5/08	2.6	1.6	2.1	2.4	2.2	2.2	2.3	2.4	2.2	2.0	2.0	2.0	2.1	2.4	2.6	2.6	2.6	2.8	2.8	2.6	2.4	2.2	2.1	
4/6/08	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.2	1.4	1.5	1.2	1.2	1.2	1.2	1.2	1.3	1.1	1.4	1.5	1.3	1.2	1.2	
4/7/08	1.1	1.1	1.2	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.4	1.3	1.1	0.7	0.7	0.7	0.8	1.0	1.6	1.1	0.9	0.7	
4/8/08	0.7	0.8	0.8	0.9	1.2	1.6	2.4	1.5	1.3	1.2	1.2	1.3	1.2	1.3	1.6	1.5	1.8	2.9	3.5	2.7	2.4	2.2	1.9	
4/9/08	1.6			2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.4	2.7	2.9	3.1	
4/10/08	2.6	2.6	2.7	3.0	3.2	3.7	3.4	3.3	3.2	3.7	4.1	3.8	3.6	3.2	2.2	2.2	2.4	2.3	2.3	2.2	2.2	2.2	1.9	
4/11/08	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.2	1.3	1.6	1.3	
4/12/08	1.4	1.3	1.2	1.3	1.2	1.2	1.3	1.3	1.2	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.2	1.2	1.2	
4/13/08	1.2	1.3	1.5	1.2	1.2	1.2	1.5	1.7	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.4	1.3	1.5	1.5	
4/14/08	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.3	1.3	1.6	1.7	1.7	1.8	1.7	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.1	
4/15/08	2.1	2.2	2.3	2.4	2.6	2.7	3.1	3.7	3.7	3.6	3.3	2.9	2.8	2.6	2.0	1.4	1.3	1.7	2.9	3.5	3.6	3.1	2.3	
4/16/08	1.7			3.4	3.8	4.7	4.5	3.7	3.2	2.7	1.8	2.1	1.8	1.6	1.6	1.9	2.1	1.9	1.7	2.4	2.2	1.6	1.8	
4/17/08	1.4	1.4	1.8	1.5	1.7	1.5	2.5	3.2	2.0	1.5	1.3	1.1	1.2	1.2	1.2	1.3	1.0	1.1	1.3	1.3	1.7	1.5	1.5	
4/18/08	1.2	1.4	1.5	1.6	1.6	1.6	1.7	2.1	1.8	1.2	1.0	1.1	1.1	1.1	1.1	1.0	1.1	1.2	1.2	1.8	1.5	1.6	1.9	
4/19/08	2.2	1.9	1.9	1.9	2.0	2.0	2.2	2.2	2.1	1.7	1.7	1.6	1.5	1.3	1.3	1.3	1.3	1.6	1.8	1.9	1.9	1.7	1.8	
4/20/08	2.4	2.9	3.0	3.0	2.9	2.8	2.7	2.7	3.0	3.2	2.9	2.8	2.7	2.8	2.8	2.9	2.8	2.7	2.7	2.9	3.0	2.8	3.1	
4/21/08	2.5	2.4	2.3	2.1	1.9	1.7	1.6	1.6	1.5	1.5	1.5	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.7	2.2	2.7	2.3	2.0	
4/22/08	2.2	1.8	2.2	2.1	2.1	2.0	2.2	2.2	2.1	1.9	1.8	1.7	1.2	1.2	1.2	1.3	1.2	1.2	1.2	2.8	2.1	1.6	2.8	
4/23/08	2.7			2.5	2.2	2.3	2.3	1.7																
4/24/08	1.8	1.9	1.8	2.3	3.0	3.3	2.7	2.6				1.7	1.6	1.3	1.3	1.4	1.3	1.2	1.0	1.2	1.1	1.0	0.8	
4/25/08	0.7	0.9	0.8	0.8	0.8	0.9	0.9	1.2	1.2	1.2	1.3	1.1	1.2	1.4	1.2	1.1	1.0	1.0	0.9	1.0	1.2	1.2	1.0	
4/26/08	1.1	1.1	0.8	0.8	0.9	1.1	1.4	1.9	1.8	2.2	1.0	1.1	1.2	1.0	1.1	1.1	1.3	1.1	1.2	1.2	1.6	1.7	1.3	
4/27/08	0.8	0.9	0.8	0.9	0.8	0.8	1.0	1.0	0.9	1.1	1.1	1.0	1.1	1.4	1.6	1.1	1.2	1.2	1.1	1.2	1.3	1.7	1.3	
4/28/08	1.1	1.0	1.3	1.4	1.2	1.4	1.9	1.4	1.2	0.9	0.8	0.8	0.8	0.7	0.7	0.8	1.0	1.1	1.1	1.3	1.4	1.2	1.1	
4/29/08	0.9	1.0	0.9	1.0	1.1	1.2	1.4	1.7	1.8	1.9	1.7	1.7	1.8	1.7	1.9	2.0	2.0	2.1	2.3	4.1	2.3	2.4	2.3	
4/30/08	2.2			2.0	2.2	2.3	2.5	2.9	3.3	2.9	2.7	2.3	2.2	2.2	2.3	2.2	2.3	2.2	2.1	2.5	2.7	3.1	3.5	
hr max	2.7	2.9	3.0	3.4	3.8	4.7	4.5	3.7	3.7	3.7	4.1	3.8	3.6	3.2	2.8	2.9	2.8	2.9	3.5	4.1	3.6	3.1	3.5	0.0
hr min	0.7	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.1	0.9	0.7	0.0
average	1.6	1.5	1.6	1.7	1.8	1.9	2.0	2.1	1.9	1.8	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.9	1.9	1.8	1.8	#DIV/0!

valid hr count	daily max hr	daily min hr	daily ave hr
23	1.9	1.1	1.3
21	1.7	0.9	1.2
22	3.0	1.4	2.0
23	2.5	1.1	1.7
23	2.8	1.6	2.3
23	1.5	1.1	1.3
23	1.6	0.7	1.1
23	3.5	0.7	1.6
21	3.1	1.6	2.3
23	4.1	1.9	2.9
23	1.6	1.0	1.3
23	1.4	0.7	1.0
23	1.7	1.1	1.3
23	2.1	1.2	1.6
23	3.7	1.3	2.7
21	4.7	1.6	2.5
23	3.2	1.0	1.5
23	2.1	1.0	1.4
23	2.2	1.3	1.8
23	3.2	2.4	2.8
23	2.7	1.2	1.8
23	2.8	1.2	1.8
6	2.7	1.7	2.3
20	3.3	0.8	1.7
23	1.4	0.7	1.0
23	2.2	0.8	1.3
23	1.7	0.8	1.1
23	1.9	0.7	1.1
23	4.1	0.9	1.8
21	3.5	2.0	2.5
0			

monthly max hr	monthly min hr	monthly ave hr
4.70	0.70	1.71
4/16/08	4/7/08	

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.7	0.6	0.5	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
4/2/08	0.2			0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		21	0.6	0.2	0.3
4/3/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.6	0.5	0.3	0.3	0.2	0.3	0.4	0.6	0.5		0.2	0.2	0.2	0.2	0.2		22	0.6	0.2	0.3
4/4/08	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
4/5/08	1.2	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3		23	1.2	0.3	0.6
4/6/08	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2		23	0.5	0.2	0.3
4/7/08	0.3	0.2	0.3	0.2	0.3	0.2	0.4	0.6	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2		23	0.7	0.2	0.4
4/8/08	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.5	0.4	0.3	0.2	0.2	0.3		23	0.5	0.2	0.3
4/9/08	0.3			0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2		21	0.5	0.2	0.3
4/10/08	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3		23	0.7	0.2	0.4
4/11/08	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3		23	0.5	0.3	0.4
4/12/08	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2		23	0.6	0.2	0.3
4/13/08	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
4/14/08	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
4/15/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
4/16/08	0.2			0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.2	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2		21	0.4	0.2	0.3
4/17/08	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.5	0.4	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.8	0.2	0.3
4/18/08	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
4/19/08	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		23	0.5	0.2	0.3
4/20/08	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.6	0.6	0.7	0.7	0.6	0.5	0.3	0.4	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2		23	0.7	0.2	0.4
4/21/08	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.7	0.7	0.6	0.5	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.4
4/22/08	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.6	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1		23	0.7	0.1	0.3
4/23/08	0.1			0.2	0.2	0.2	0.3	0.3																	6	0.3	0.1	0.2
4/24/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4				0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2		20	0.4	0.1	0.2
4/25/08	0.1	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
4/26/08	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.7	0.7	0.7	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		23	0.7	0.1	0.3
4/27/08	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2		23	0.4	0.1	0.2
4/28/08	0.2	0.1	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2		23	0.5	0.1	0.2
4/29/08	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.6	0.7	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1		23	0.7	0.1	0.3
4/30/08	0.1			0.2	0.2	0.2	0.2	0.5	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2		21	0.8	0.1	0.3
																									0			
hr max	1.2	0.5	0.6	0.7	0.6	0.7	0.6	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.0				
hr min	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0				
average	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
1.2	0.1	0.3
4/5/08	4/23/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	0.9	1.0	1.0	1.1	1.1	1.1	1.4	1.4	1.0	1.0	0.9	1.0	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1		23	1.4	0.9	1.1
4/2/08	0.9			0.8	0.9	1.0	1.0	1.2	1.2	1.3	1.4	1.1	1.2	1.0	0.9	0.9	0.8	0.9	1.1	1.2	1.2	1.1	1.0		21	1.4	0.8	1.1
4/3/08	1.3	1.7	1.9	2.1	2.2	2.7	2.5	2.7	2.0	1.5	1.3	1.3	1.2	1.3	1.2	1.2	1.3		1.9	1.6	2.2	1.9	1.8		22	2.7	1.2	1.8
4/4/08	1.7	1.7	1.8	1.8	1.9	1.7	2.0	1.8	1.4	1.2	1.1	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.3	1.9	2.2	2.0	2.3		23	2.3	0.8	1.5
4/5/08	2.6	1.3	1.7	2.0	1.8	1.8	1.8	1.9	1.8	1.6	1.6	1.6	1.7	1.9	2.1	2.1	2.2	2.5	2.6	2.4	2.2	1.9	2.0		23	2.6	1.3	2.0
4/6/08	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	0.9	1.2	1.4	1.2	1.1	1.0		23	1.4	0.9	1.1
4/7/08	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.8	0.6	0.7	0.7	0.7	0.9	1.4	1.0	0.8	0.7		23	1.4	0.6	0.9
4/8/08	0.5	0.7	0.7	0.8	0.9	1.3	2.1	1.2	1.0	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.6	2.7	3.2	2.6	2.3	2.0	1.7		23	3.2	0.5	1.4
4/9/08	1.4			1.8	2.0	1.9	1.9	1.9	2.1	2.1	2.1	1.9	1.8	1.8	1.8	1.9	1.9	2.1	2.2	2.3	2.6	2.8	2.9		21	2.9	1.4	2.1
4/10/08	2.4	2.4	2.6	2.8	3.0	3.5	3.3	3.1	2.9	3.3	3.7	3.4	3.2	2.8	1.8	2.0	2.2	2.1	2.1	2.0	2.0	1.9	1.8		23	3.7	1.8	2.6
4/11/08	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.1	1.2	1.1	1.0	1.0	0.9	0.8	0.9	0.9	0.8	0.9	1.1	1.2	1.4	1.1		23	1.4	0.8	1.1
4/12/08	1.1	1.2	1.2	1.1	1.1	1.0	1.1	1.1	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.9	1.0	1.0	1.0		23	1.2	0.6	0.9
4/13/08	0.9	1.2	1.3	1.1	1.1	1.1	1.2	1.3	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.2	1.3	1.3		23	1.3	0.9	1.1
4/14/08	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9		23	1.9	1.1	1.5
4/15/08	2.0	2.2	2.2	2.3	2.5	2.7	3.0	3.4	3.3	3.2	2.9	2.6	2.5	2.3	1.8	1.3	1.2	1.6	2.7	3.3	3.5	3.0	2.1		23	3.5	1.2	2.5
4/16/08	1.7			3.4	3.7	4.5	4.3	3.5	2.9	2.5	1.7	1.9	1.7	1.5	1.4	1.6	1.9	1.8	1.5	2.2	2.1	1.5	1.6		21	4.5	1.4	2.3
4/17/08	1.2	1.3	1.6	1.3	1.4	1.4	2.2	2.6	1.6	1.2	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.8	1.0	1.2	1.6	1.5	1.4		23	2.6	0.8	1.3
4/18/08	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.8	1.5	1.0	0.8	0.8	0.9	0.8	0.8	0.9	0.9	0.9	1.1	1.7	1.3	1.5	1.9		23	1.9	0.8	1.2
4/19/08	2.0	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.6	1.4	1.3	1.3	1.2	1.2	1.1	1.2	1.4	1.6	1.8	1.8	1.7	1.8		23	2.0	1.1	1.6
4/20/08	2.3	2.8	2.9	2.8	2.7	2.7	2.5	2.4	2.5	2.7	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.8	2.8	2.7	3.0		23	3.0	2.3	2.7
4/21/08	2.4	2.3	2.3	1.9	1.8	1.6	1.3	1.2	1.2	1.1	1.2	1.1	1.0	1.0	1.1	1.1	1.2	1.2	1.5	2.0	2.6	2.3	1.9		23	2.6	1.0	1.6
4/22/08	2.0	1.7	1.9	1.9	1.8	1.7	2.0	1.7	1.7	1.6	1.6	1.4	1.2	1.0	1.1	1.1	1.0	1.1	1.2	2.7	2.0	1.5	2.8		23	2.8	1.0	1.6
4/23/08	2.6			2.4	2.1	2.2	2.1	1.5																	6	2.6	1.5	2.2
4/24/08	1.7	1.8	1.8	2.2	3.0	3.3	2.6	2.4				1.4	1.4	1.2	1.4	1.2	1.1	1.1	1.1	1.2	1.1	1.0	0.9		20	3.3	0.9	1.6
4/25/08	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.1	1.2	1.2	1.0	1.0	1.2	1.2	0.9	0.9	0.9	0.8	1.0	1.1	1.1	1.1		23	1.2	0.8	1.0
4/26/08	1.1	1.0	0.8	0.8	0.8	0.9	1.2	1.5	1.4	1.6	0.8	0.9	0.9	0.8	0.8	0.8	1.0	0.9	1.0	1.2	1.4	1.6	1.2		23	1.6	0.8	1.1
4/27/08	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	1.1	1.3	1.0	1.1	1.1	1.0	1.2	1.3	1.6	1.3		23	1.6	0.8	1.0
4/28/08	1.0	0.9	1.3	1.3	1.0	1.3	1.6	1.2	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.3	1.3	1.2	1.1		23	1.6	0.7	1.0
4/29/08	0.9	0.9	0.9	1.0	1.0	1.1	1.2	1.4	1.5	1.5	1.5	1.6	1.7	1.7	1.7	1.8	1.8	1.9	2.2	3.9	2.3	2.3	2.3		23	3.9	0.9	1.7
4/30/08	2.1			2.0	2.1	2.2	2.3	2.6	2.8	2.6	2.3	2.1	2.2	2.1	2.2	2.1	2.1	2.2	2.0	2.3	2.6	3.0	3.4		21	3.4	2.0	2.3
																									0			
hr max	2.6	2.8	2.9	3.4	3.7	4.5	4.3	3.5	3.3	3.3	3.7	3.4	3.2	2.8	2.6	2.7	2.7	2.7	3.2	3.9	3.5	3.0	3.4	0.0				
hr min	0.5	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.9	1.0	0.8	0.7	0.0				
average	1.5	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.6	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.5	1.8	1.8	1.7	1.7	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
4.5	0.5	1.5
4/16/08	4/8/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	1.2	1.3	1.3	1.5	1.3	1.4	1.5	1.1	1.3	1.5	1.4	1.5	1.1	1.1	1.1	1.2	1.2	1.5	1.1	1.3	1.1	1.1	1.3		23	1.5	1.1	1.3
4/2/08	1.1			1.3	1.2	1.1	1.2	1.0	0.1	1.4	1.4	1.6	1.2	1.7	1.0	1.2	1.2	1.3	1.1	1.2	1.1	1.5	1.4		21	1.7	0.1	1.2
4/3/08	1.6	0.1	1.5	1.3	1.3	1.2	1.3	1.2	1.4	1.2	1.3	1.3	1.7	1.5	1.5	2.1	1.4		1.4	1.3	1.1	1.6	1.4		22	2.1	0.1	1.3
4/4/08	1.3	1.0	1.2	1.0	1.2	1.1	1.3	1.0	1.2	1.1	1.0	1.2	1.3	1.4	1.3	1.3	1.1	0.1	1.3	1.2	1.2	0.1	1.2		23	1.4	0.1	1.1
4/5/08	2.4	1.1	1.1	1.0	1.3	1.3	1.4	1.1	1.4	1.4	1.2	1.5	1.1	1.4	1.4	1.5	1.1	1.2	0.1	1.1	1.4	1.2	1.3		23	2.4	0.1	1.3
4/6/08	1.2	1.2	1.2	1.2	0.1	1.2	1.3	1.2	0.1	1.2	1.1	1.0	1.0	1.3	1.2	1.6	1.3	1.5	1.3	1.0	1.4	1.4	1.9		23	1.9	0.1	1.2
4/7/08	1.2	1.1	1.4	1.1	1.1	1.6	1.3	1.1	1.7	1.2	1.2	1.5	1.8	1.3	1.5	1.0	1.3	1.0	1.3	1.4	1.1	1.4	1.5		23	1.8	1.0	1.3
4/8/08	1.4	1.3	1.5	1.4	1.4	1.4	1.3	1.2	1.4	1.4	1.3	1.5	1.4	1.2	1.4	1.2	1.8	2.2	1.9	1.3	1.3	1.4	1.5		23	2.2	1.2	1.4
4/9/08	1.1			1.3	0.1	1.7	1.5	1.2	1.2	1.4	1.2	1.5	1.3	1.3	1.2	1.3	1.4	1.2	1.2	1.1	1.0	1.2	1.3		21	1.7	0.1	1.2
4/10/08	1.3	1.2	1.3	1.0	1.2	1.2	1.0	1.2	1.4	1.1	1.1	1.2	1.5	1.4	1.0	1.2	1.0	1.2	1.3	1.0	1.1	1.2	1.2		23	1.5	1.0	1.2
4/11/08	1.2	1.1	1.2	1.2	1.5	1.1	1.2	1.1	1.0	1.3	1.1	1.3	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.0	1.2	1.2	1.3		23	1.5	1.0	1.2
4/12/08	1.3	1.1	1.3	1.5	1.4	1.4	1.3	1.1	1.2	1.2	1.2	1.2	1.3	1.1	1.2	1.2	1.1	1.2	1.2	0.1	1.2	1.2	1.5		23	1.5	0.1	1.2
4/13/08	1.6	1.4	1.1	1.4	1.3	1.1	1.4	1.4	1.3	1.4	1.4	1.3	1.0	1.4	1.3	1.3	1.3	1.4	1.4	1.3	1.2	1.2	1.3		23	1.6	1.0	1.3
4/14/08	1.1	1.0	1.7	1.2	1.2	1.2	1.3	1.4	1.3	1.7	1.5	1.3	1.9	1.6	1.4	1.4	1.4	1.3	1.1	1.2	1.3	1.5	1.3		23	1.9	1.0	1.4
4/15/08	1.4	1.4	1.3	1.4	1.7	1.7	1.6	1.5	1.6	1.5	1.5	1.6	1.6	1.5	1.4	1.1	1.1	1.3	2.0	2.4	1.9	1.6	1.7		23	2.4	1.1	1.6
4/16/08	1.4			2.7	2.4	2.3	1.9	1.6	1.4	1.3	1.2	1.3	1.2	1.0	1.2	1.5	2.4	2.0	1.2	1.3	1.1	1.3	1.4		21	2.7	1.0	1.6
4/17/08	1.1	0.1	1.3	1.2	1.1	1.0	1.4	1.5	1.4	1.3	1.4	1.2	1.5	1.5	1.2	1.8	1.4	1.6	1.4	1.3	1.3	1.2	1.2		23	1.8	0.1	1.3
4/18/08	1.2	1.1	0.1	1.2	1.2	1.1	1.1	1.1	1.2	1.6	1.2	1.2	1.2	1.5	1.5	1.3	1.2	1.4	1.2	1.3	1.4	1.4	1.0		23	1.6	0.1	1.2
4/19/08	1.4	1.2	1.5	1.3	1.4	1.2	1.5	1.5	1.3	1.4	1.7	1.6	1.7	1.4	1.6	1.7	1.6	1.8	1.6	1.7	1.2	1.5	1.4		23	1.8	1.2	1.5
4/20/08	1.3	1.4	1.1	1.2	1.1	1.2	1.2	1.3	1.4	1.2	1.2	1.5	1.1	1.6	1.6	1.6	1.4	1.6	1.5	1.3	1.2	1.2	1.1		23	1.6	1.1	1.3
4/21/08	1.2	1.0	0.1	1.0	1.2	1.3	1.3	1.4	1.2	1.3	1.2	1.3	1.4	1.4	1.5	1.2	1.1	1.1	1.4	1.5	1.3	1.2	1.6		23	1.6	0.1	1.2
4/22/08	1.4	1.5	1.4	1.8	1.7	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.3	1.7	1.5	1.7	1.6	1.3	1.6	1.4	1.3	1.4	1.5		23	1.8	1.3	1.6
4/23/08	1.7			1.4	1.4	1.5	1.5	1.6																	6	1.7	1.4	1.5
4/24/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		20	0.1	0.1	0.1
4/25/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
4/26/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	2.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	2.0	0.1	0.2
4/27/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.3	0.1	0.2
4/28/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
4/29/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
4/30/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	21	0.1	0.0	0.1
																									0			
hr max	2.4	1.5	1.7	2.7	2.4	2.3	1.9	1.7	1.7	2.0	1.7	1.6	1.9	1.7	1.6	2.1	2.4	2.2	2.0	2.4	1.9	1.6	1.9	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0				
average	1.1	0.8	0.9	1.0	1.0	1.1	1.1	1.0	1.0	1.2	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	#DIV/0!				

	monthly max hr	monthly min hr	monthly ave hr
	2.7	0.0	1.0
	4/16/08	4/30/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	661
possible hours	720
data capture	91.8%

Max 3 hr ave.	2.6	4/16/08 3:00
Max 24 hr ave.	1.7	4/15/08 19:00

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	37.3	34.6	31.5	29.8	28.6	27.1	26.6	28.8	32.0	36.9	39.5	41.2	43.6	44.8	45.7	47.1	47.1	48.6	46.2	40.9	38.3	37.2	37.2		23	48.6	26.6	37.9
4/2/08	35.3		46.6	39.2	36.2	31.1	29.4	29.2	30.6	33.6	41.7	47.6	49.0	50.0	50.8	51.2	51.8	51.5	45.8	39.8	37.3	38.2	39.3		22	51.8	29.2	41.1
4/3/08	35.6	30.8	26.9	26.4	26.9	26.4	34.8	30.8	37.7	43.8	47.7	50.0	51.6	53.2	54.4	54.6	54.4	52.1	43.9	45.0	40.2	36.5	35.4		23	54.6	26.4	40.8
4/4/08	30.2	30.2	28.0	27.1	26.3	25.3	28.2	29.9	36.6	40.4	42.6	46.0	47.2	47.5	48.5	48.4	48.3	47.5	43.7	39.7	37.3	36.4	28.9		23	48.5	25.3	37.6
4/5/08	31.3	29.6	26.2	27.9	30.1	30.4	28.5	29.1	34.7	37.8	38.8	39.9	40.7	37.6	38.3	41.6	43.6	39.5	38.4	37.6	36.6	36.6	37.5		23	43.6	26.2	35.3
4/6/08	36.4	35.5	35.4	34.8	34.9	35.6	36.9	39.0	40.7	39.2	38.9	41.8	44.3	45.3	46.3	48.4	49.3	50.4	48.4	46.7	45.9	45.9	45.8		23	50.4	34.8	42.0
4/7/08	45.4	44.6	43.6	44.4	44.4	44.4	42.5	43.1	44.9	46.5	48.4	50.1	51.8	53.8	53.6	52.4	52.2	51.2	47.5	42.5	44.0	42.6	45.9		23	53.8	42.5	46.9
4/8/08	43.8	38.4	44.2	43.3	34.7	33.4	24.1	38.7	48.8	49.4	49.5	49.0	49.8	50.1	52.8	55.7	57.9	57.1	54.1	52.0	49.5	47.1	44.7		23	57.9	24.1	46.4
4/9/08	42.2		47.3	33.4	31.1	30.1	30.3	35.6	42.1	46.9	46.8	49.7	50.2	49.7	51.3	50.4	48.1	45.8	43.7	37.5	32.6	32.1	33.7		22	51.3	30.1	41.4
4/10/08	41.6	35.7	29.2	30.6	29.4	26.1	28.5	28.5	30.6	28.7	29.8	26.4	20.8	26.4	35.2	38.6	40.4	41.1	42.3	41.5	41.4	42.1	42.4		23	42.4	20.8	33.8
4/11/08	42.5	42.2	41.6	41.1	41.2	41.5	42.3	41.7	40.3	38.4	39.4	40.4	42.3	44.8	46.2	43.1	44.8	45.4	43.8	37.5	32.8	34.0	36.0		23	46.2	32.8	41.0
4/12/08	28.5	28.1	30.4	31.0	31.0	32.4	31.0	33.0	35.6	40.9	44.4	45.5	47.1	47.5	48.1	49.3	49.6	49.3	46.9	40.4	36.2	35.0	34.6		23	49.6	28.1	38.9
4/13/08	38.0	38.3	31.4	33.6	36.9	36.9	37.8	40.8	44.7	45.8	50.5	51.5	51.3	50.8	51.2	51.6	51.9	51.5	50.9	41.7	39.8	37.2	37.8		23	51.9	31.4	43.6
4/14/08	38.3	38.0	37.9	39.7	39.4	37.9	37.6	40.1	42.5	45.7	48.7	49.8	51.3	51.2	52.1	53.1	53.1	52.3	50.6	48.0	48.3	47.2	45.2		23	53.1	37.6	45.6
4/15/08	43.3	42.6	41.5	39.3	40.1	40.0	41.5	42.4	42.0	43.3	44.7	46.5	48.3	50.2	52.1	53.1	53.3	50.2	48.5	41.9	37.1	39.5	39.3		23	53.3	37.1	44.4
4/16/08	40.5		49.6	32.6	30.1	24.3	25.3	28.1	30.1	36.4	44.4	44.3	50.5	53.2	53.2	53.6	54.0	53.2	47.6	41.0	36.4	36.9	34.8		22	54.0	24.3	40.9
4/17/08	31.9	32.1	30.3	29.6	30.3	27.8	29.1	23.7	32.3	39.7	46.0	49.6	51.1	53.1	54.1	54.5	54.5	54.7	51.9	51.5	47.5	44.7	46.6		23	54.7	23.7	42.0
4/18/08	40.4	37.3	35.4	33.9	30.5	34.1	31.8	38.6	48.2	52.5	55.3	55.4	55.8	56.1	56.5	56.9	57.4	57.0	53.9	43.5	44.6	45.0	43.6		23	57.4	30.5	46.2
4/19/08	39.4	37.7	33.5	33.0	33.4	30.9	33.7	40.9	46.2	53.4	55.2	56.4	56.3	55.4	55.3	55.7	57.5	57.4	53.4	49.2	47.7	47.9	46.2		23	57.5	30.9	46.8
4/20/08	45.0	40.6	34.7	29.9	26.9	25.5	26.9	29.5	32.0	34.0	38.7	43.3	47.5	50.4	53.3	54.5	53.7	53.3	51.7	47.4	43.4	41.7	35.4		23	54.5	25.5	40.8
4/21/08	17.4	17.5	18.0	19.6	22.2	24.2	25.6	26.5	27.4	28.7	30.3	31.8	32.3	35.2	36.7	40.2	41.8	41.3	37.6	34.1	31.4	30.2	32.1		23	41.8	17.4	29.7
4/22/08	27.8	29.5	27.1	26.3	25.9	27.3	27.8	28.8	32.9	35.1	39.6	45.7	52.1	53.2	53.2	53.8	55.3	56.2	54.9	49.5	48.0	47.5	39.5		23	56.2	25.9	40.7
4/23/08	39.4		46.7	32.0	32.1	32.4	30.5	34.4																	7	46.7	30.5	35.4
4/24/08	38.3	29.8	33.9	25.4	20.8	16.4	19.4	21.7			24.6	26.4	26.6	27.1	29.1	32.0	33.6	36.0	36.4	35.4	36.8	39.8	41.0		21	41.0	16.4	30.0
4/25/08	44.0	44.9	47.3	50.0	48.7	48.3	48.5	47.5	46.0	46.8	46.6	45.2	47.0	49.0	49.6	46.9	46.5	45.1	44.0	41.6	38.6	34.5	32.5		23	50.0	32.5	45.2
4/26/08	29.7	29.4	31.6	29.9	30.0	30.0	27.0	33.0	37.1	37.4	31.1	34.2	35.8	40.0	46.4	50.0	51.8	51.8	49.9	42.5	32.6	30.7	34.4		23	51.8	27.0	36.8
4/27/08	29.8	29.8	28.8	27.9	27.4	26.2	27.4	31.2	37.6	39.7	42.9	47.3	48.0	53.7	57.2	57.3	57.0	57.5	53.5	45.5	40.0	35.9	36.7		23	57.5	26.2	40.8
4/28/08	38.5	37.7	27.8	31.8	35.6	34.6	26.0	38.0	45.7	48.4	50.4	51.9	53.7	54.9	55.0	56.0	56.4	55.8	51.8	48.6	45.4	45.2	46.2		23	56.4	26.0	45.0
4/29/08	44.0	42.9	44.6	42.0	38.5	37.0	37.8	38.8	39.0	39.2	41.6	44.2	46.9	49.1	49.9	51.9	54.5	55.8	53.8	45.3	48.2	46.1	44.9		23	55.8	37.0	45.0
4/30/08	42.2		53.7	41.0	39.8	39.5	40.0	39.9	42.9	45.0	47.5	51.6	54.4	56.4	57.5	59.3	60.8	59.6	58.8	54.3	49.0	43.4	37.3		22	60.8	37.3	48.8
																									0			
hr max	45.4	44.9	53.7	50.0	48.7	48.3	48.5	47.5	48.8	53.4	55.3	56.4	56.3	56.4	57.5	59.3	60.8	59.6	58.8	54.3	49.5	47.9	46.6	0.0				
hr min	17.4	17.5	18.0	19.6	20.8	16.4	19.4	21.7	27.4	28.7	24.6	26.4	20.8	26.4	29.1	32.0	33.6	36.0	36.4	34.1	31.4	30.2	28.9	0.0				
average	37.3	35.1	36.2	33.6	32.8	31.9	31.9	34.4	38.6	41.2	43.0	44.9	46.5	47.9	49.4	50.4	51.1	50.6	48.1	43.5	40.9	39.9	39.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
60.8	16.4	41.2
4/30/08	4/24/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	668
possible hours	720
data capture	92.8%

Max 8 hr ave. 57.6 4/30/08 13:00

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
DegC
StnT

data
channel
DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	23	23	23	23	23	22	22	22	23	23	23	23	23	24	24	24	24	24	24	23	23	23	23	23	24	24	22	23
4/2/08	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	23	23	24	23	22	23
4/3/08	23	23	22	23	23	23	23	23	22	22	23	23	23	23	23	23	22	22	24	24	25	24	24	24	24	25	22	23
4/4/08	23	22	22	22	22	22	22	22	22	23	24	24	24	24	24	24	24	24	24	24	24	25	25	25	24	25	22	23
4/5/08	24	24	23	23	23	22	23	23	23	23	24	24	24	24	24	24	24	24	25	25	24	24	23	23	24	25	22	24
4/6/08	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22	22	22
4/7/08	21	21	21	21	21	21	21	21	22	22	22	22	22	23	23	24	24	25	25	24	23	23	22	23	24	25	21	22
4/8/08	22	22	22	22	22	22	22	22	23	23	24	24	24	24	24	24	25	24	24	24	24	24	23	23	24	25	22	23
4/9/08	23	23	23	22	22	22	22	22	23	23	24	24	24	24	24	24	24	24	24	24	25	25	25	25	24	25	22	24
4/10/08	25	24	24	23	23	23	23	23	23	23	22	22	23	23	22	22	22	22	22	22	22	22	22	22	24	25	22	23
4/11/08	22	22	22	22	22	22	22	21	22	22	22	22	22	22	22	22	23	23	24	23	23	22	22	22	24	24	21	22
4/12/08	22	22	22	21	21	21	21	21	22	22	22	23	23	24	25	25	25	25	25	25	24	23	23	22	24	25	21	23
4/13/08	22	22	22	22	21	21	21	22	22	22	23	24	25	25	25	25	25	25	25	25	25	25	24	24	24	25	21	23
4/14/08	23	23	22	22	22	22	22	22	22	23	24	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25	22	24
4/15/08	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26	27	27	27	27	27	26	26	25	26	24	27	25	26
4/16/08	25	25	26	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	26	25	25
4/17/08	24	24	23	23	22	22	22	22	23	24	25	25	25	25	26	26	26	26	25	25	25	25	25	25	24	26	22	24
4/18/08	25	24	23	23	22	22	22	23	23	25	25	25	26	26	26	26	26	26	25	25	25	25	25	26	24	26	22	24
4/19/08	25	25	24	24	23	23	23	23	23	25	25	25	25	25	25	26	26	25	25	25	25	25	25	25	24	26	23	25
4/20/08	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26	26	25	25	25	25	25	24	26	25	25
4/21/08	25	25	24	24	23	22	22	22	22	22	22	23	24	25	25	25	25	25	25	25	25	25	25	25	24	25	22	24
4/22/08	25	24	23	23	22	22	22	22	23	23	24	25	25	24	24	25	25	25	25	23	23	24	25	25	24	25	22	24
4/23/08	25	25	25	24	24	23	23	23	24	25	25	25	25	25	25	25	25	26	26	26	25	26	25	25	24	26	23	25
4/24/08	25	24	25	25	25	25	24	24	24	25	25	24	24	23	23	23	22	23	23	23	23	23	23	23	24	25	22	24
4/25/08	23	23	23	23	23	23	23	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	24	23	22	23
4/26/08	23	23	22	22	22	22	22	23	23	23	23	23	23	22	22	22	22	22	22	22	23	23	23	23	24	23	22	23
4/27/08	23	23	23	22	22	22	22	23	23	23	22	22	22	23	23	23	23	23	22	22	22	23	23	23	24	23	22	23
4/28/08	23	23	23	22	22	22	22	23	23	22	22	22	23	23	23	23	23	23	23	23	22	22	23	23	24	24	22	23
4/29/08	23	23	23	23	23	23	23	23	23	22	23	23	23	23	24	24	24	24	24	24	23	23	23	23	24	24	22	23
4/30/08	23	23	23	22	22	22	22	22	22	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	0			

																									monthly	monthly	monthly
hr max	25.4	25.4	25.6	25.5	25.4	25.4	25.4	25.3	25.3	25.3	25.1	25.3	25.5	25.8	26.3	26.8	27.2	27.3	27.1	26.5	26.0	25.7	25.4	25.5	max hr	min hr	ave hr
hr min	21.4	21.3	21.2	21.0	20.9	20.8	20.7	21.0	21.5	21.5	21.5	21.6	21.6	21.7	21.8	21.8	21.8	21.7	21.8	21.8	21.7	21.7	21.6	21.7	27.3	20.7	23.5
average	23.5	23.2	23.1	22.8	22.7	22.6	22.5	22.6	22.8	23.1	23.4	23.6	23.8	23.9	24.0	24.1	24.1	24.2	24.2	24.0	23.8	23.8	23.7	23.7	4/15/08	4/7/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	720
possible hours	720
data capture	100.0%

Nevada/NAAQS 8hr standard = 80 ppb or 157 $\mu g/m^3$ (ppb to $\mu g/m^3$ factor =1.96)

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
4/1/08	0	0	0	0	0	0	29	200	415	572	683	766	689	669	522	418	418	241	80	0	0	0	0	0	24	766	5702	5702
4/2/08	0	0	0	0	0	0	24	170	367	546	683	766	810	801	730	593	464	272	81	0	0	0	0	0	24	810	6306	6306
4/3/08	0	0	0	0	0	0	25	172	374	503	641	767	808	797	734	622	442	187	64	0	0	0	0	0	24	808	6135	6135
4/4/08	0	0	0	0	0	0	19	158	372	552	689	768	803	753	728	604	440	270	79	0	0	0	0	0	24	803	6237	6237
4/5/08	0	0	0	0	0	0	28	155	344	436	654	780	731	795	684	567	406	122	28	0	0	0	0	0	24	795	5730	5730
4/6/08	0	0	0	0	0	0	0	36	99	124	162	102	163	235	236	225	192	117	46	4	0	0	0	0	24	236	1742	1742
4/7/08	0	0	0	0	0	0	43	198	359	566	745	839	882	879	742	640	378	242	58	0	0	0	0	0	24	882	6570	6570
4/8/08	0	0	0	0	0	0	17	147	333	417	712	683	632	705	551	301	273	380	125	0	0	0	0	0	24	712	5274	5274
4/9/08	0	0	0	0	0	0	37	202	390	545	669	739	708	460	360	265	179	75	26	0	0	0	0	0	24	739	4654	4654
4/10/08	0	0	0	0	0	0	10	52	57	79	115	135	157	106	77	79	54	34	10	0	0	0	0	0	24	157	964	964
4/11/08	0	0	0	0	0	0	17	77	169	165	220	327	352	415	565	632	473	248	96	0	0	0	0	0	24	632	3757	3757
4/12/08	0	0	0	0	0	0	55	199	369	586	713	810	867	850	782	663	508	315	112	6	0	0	0	0	24	867	6833	6833
4/13/08	0	0	0	0	0	0	57	228	426	599	730	814	852	838	773	658	501	313	115	6	0	0	0	0	24	852	6909	6909
4/14/08	0	0	0	0	0	0	62	237	434	606	632	818	796	810	772	662	482	301	101	6	0	0	0	0	24	818	6718	6718
4/15/08	0	0	0	0	0	0	69	154	435	612	682	774	808	840	772	669	503	315	95	0	0	0	0	0	24	840	6728	6728
4/16/08	0	0	0	0	0	0	30	33	62	106	368	372	724	784	582	628	277	281	99	8	0	0	0	0	24	784	4353	4353
4/17/08	0	0	0	0	0	0	52	130	348	538	739	812	780	814	804	672	449	349	128	9	0	0	0	0	24	814	6624	6624
4/18/08	0	0	0	0	0	0	75	252	447	615	746	827	860	846	782	670	513	324	120	10	0	0	0	0	24	860	7086	7086
4/19/08	0	0	0	0	0	0	75	248	442	613	747	829	865	850	785	675	500	182	81	8	0	0	0	0	24	865	6899	6899
4/20/08	0	0	0	0	0	5	76	225	434	605	731	803	844	826	763	477	398	259	107	9	0	0	0	0	24	844	6562	6562
4/21/08	0	0	0	0	0	0	32	103	342	612	765	846	882	861	778	653	396	182	40	0	0	0	0	0	24	882	6492	6492
4/22/08	0	0	0	0	0	0	81	260	448	613	737	813	859	837	762	649	492	312	131	13	0	0	0	0	24	859	7007	7007
4/23/08	0	0	0	0	0	6	82	199	250	368	632	665	560	308	382	552	155	0	57	13	0	0	0	0	24	665	4228	4228
4/24/08	0	0	0	0	0	0	16	63	50	0	277	176	116	128	85	85	60	86	47	0	0	0	0	0	24	277	1190	1190
4/25/08	0	0	0	0	0	0	12	30	43	66	111	149	189	261	251	219	171	102	45	7	0	0	0	0	24	261	1656	1656
4/26/08	0	0	0	0	0	5	85	257	469	510	257	547	528	740	739	666	533	352	127	15	0	0	0	0	24	740	5830	5830
4/27/08	0	0	0	0	0	7	96	228	270	343	711	812	746	753	802	711	517	343	144	20	0	0	0	0	24	812	6500	6500
4/28/08	0	0	0	0	0	13	152	321	482	647	779	850	884	845	801	697	406	289	77	9	0	0	0	0	24	884	7252	7252
4/29/08	0	0	0	0	0	9	109	285	473	641	771	842	883	865	803	683	531	344	151	20	0	0	0	0	24	883	7409	7409
4/30/08	0	0	0	0	0	7	84	181	477	631	631	791	863	805	580	659	521	280	189	20	0	0	0	0	24	863	6717	6717
																									0		0	0

																									monthly	monthly	monthly
hr max	0	0	0	0	0	13	152	321	482	647	779	850	884	879	804	711	533	380	189	20	0	0	0	0	max hr	Max24hr	Total
hr min	0	0	0	0	0	0	0	30	43	0	111	102	116	106	77	79	54	0	10	0	0	0	0	0	884	7409	166064
average	0	0	0	0	0	2	52	173	333	460	591	667	688	683	624	543	388	237	89	6	0	0	0	0	4/28/08	4/29/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	711	712	712	712	713	713	714	714	714	714	714	714	714	713	713	713	713	712	712	712	712	712	711	711	24	714	711	713
4/2/08	711	710	709	709	709	709	709	709	709	709	709	709	708	708	707	707	707	706	706	706	707	707	707	707	24	711	706	708
4/3/08	707	707	706	706	706	706	706	707	707	707	707	707	706	706	706	706	705	705	705	706	706	706	706	705	24	707	705	706
4/4/08	705	705	704	704	704	703	703	703	703	703	703	703	702	702	701	701	700	700	700	700	700	700	700	700	24	705	700	702
4/5/08	700	700	700	700	699	699	699	699	699	698	698	698	697	696	697	696	696	696	697	697	698	698	699	698	24	700	696	698
4/6/08	698	698	698	698	698	698	699	700	700	700	701	702	702	702	703	703	704	705	705	706	706	706	707	707	24	707	698	702
4/7/08	707	707	707	707	707	707	708	708	708	708	708	708	708	708	708	707	707	707	707	708	708	708	708	708	24	708	707	708
4/8/08	708	708	708	708	708	708	708	708	708	708	708	708	708	707	707	706	706	706	706	706	707	707	707	707	24	708	706	707
4/9/08	707	707	707	707	707	707	707	707	707	707	707	706	706	705	705	706	706	706	706	705	706	706	706	706	24	707	705	706
4/10/08	706	706	705	704	705	705	705	704	704	704	703	702	701	701	701	700	700	701	701	700	700	700	700	700	24	706	700	702
4/11/08	700	700	700	700	700	701	701	702	702	702	703	703	703	704	704	704	704	704	705	706	707	707	707	708	24	708	700	703
4/12/08	708	708	708	708	708	708	709	709	709	710	710	710	710	710	710	710	711	711	711	712	713	713	714	714	24	714	708	710
4/13/08	714	714	714	714	714	714	714	715	715	715	715	715	714	714	714	713	713	712	712	712	712	712	712	712	24	715	712	713
4/14/08	712	711	710	710	709	709	709	708	708	707	706	706	705	704	703	703	702	701	700	699	699	699	698	698	24	712	698	705
4/15/08	697	697	696	696	695	695	694	694	693	692	691	691	690	689	688	688	688	688	689	690	691	692	692	692	24	697	688	692
4/16/08	692	694	695	696	696	697	698	699	700	701	702	702	703	703	704	704	704	704	704	705	706	707	707	707	24	707	692	701
4/17/08	708	708	707	707	708	708	709	709	709	709	709	709	708	708	707	707	707	707	706	706	706	707	706	706	24	709	706	708
4/18/08	706	706	705	705	705	705	706	706	706	706	705	705	705	704	704	704	703	703	703	703	704	704	704	704	24	706	703	705
4/19/08	704	704	705	705	705	705	705	705	705	705	705	705	704	704	704	703	703	703	703	703	703	703	703	702	24	705	702	704
4/20/08	702	702	701	701	701	700	700	700	699	699	698	697	697	696	696	696	695	696	696	696	697	697	697	698	24	702	695	698
4/21/08	699	700	701	702	703	703	705	706	706	707	707	708	707	707	707	707	708	708	708	708	709	709	709	709	24	709	699	706
4/22/08	708	708	708	708	708	708	708	708	708	708	708	707	707	707	707	706	706	706	706	706	706	707	707	707	24	708	706	707
4/23/08	707	708	708	708	708	708	709	709	709	708	708	707	706	705	704	703	702	702	701	700	700	699	699	699	24	709	699	705
4/24/08	700	699	699	700	699	700	700	701	701	701	701	701	702	702	702	703	703	703	704	705	705	706	707	707	24	707	699	702
4/25/08	706	707	706	706	706	706	706	706	706	706	706	706	705	705	704	704	704	704	704	704	705	705	705	705	24	707	704	705
4/26/08	705	705	705	706	706	706	706	707	707	708	708	708	709	709	709	709	710	710	710	711	712	712	712	712	24	712	705	708
4/27/08	712	712	712	712	711	711	711	711	711	711	710	710	710	710	709	710	709	709	709	709	710	710	710	710	24	712	709	710
4/28/08	711	711	711	711	711	711	711	711	711	711	711	711	710	709	709	709	708	708	708	707	707	707	707	707	24	711	707	709
4/29/08	706	706	705	705	705	705	704	704	703	703	703	702	702	701	700	700	699	699	698	698	698	698	698	697	24	706	697	702
4/30/08	697	696	696	695	694	694	694	694	694	694	694	694	693	693	693	693	693	693	693	693	693	694	694	694	24	697	693	694
																									0			
hr max	714	714	714	714	714	714	714	715	715	715	715	715	714	714	714	713	713	712	712	712	713	713	714	714				
hr min	692	694	695	695	694	694	694	694	693	692	691	691	690	689	688	688	688	688	689	690	691	692	692	692				
average	705	705	705	705	705	705	705	705	705	705	705	705	705	704	704	704	704	704	704	704	704	704	705	705				

monthly max hr	monthly min hr	monthly ave hr
715	687.9	704.6
4/13/08	4/15/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
4/1/08	83.4	86.4	90.3	92.2	93.6	94.1	93.9	86.8	77.0	67.3	65.5	62.4	53.6	50.8	51.0	51.2	51.2	52.8	58.0	71.0	77.1	80.5	82.9	86.4	24	94.1	50.8	73.3
4/2/08	87.0	88.5	91.1	78.0	82.3	89.1	90.7	85.2	75.3	63.6	53.7	39.2	32.4	27.5	25.8	23.8	21.9	25.0	35.4	56.5	61.1	61.2	59.6	56.8	24	91.1	21.9	58.8
4/3/08	69.8	84.6	88.8	91.6	91.4	92.8	87.5	79.2	52.9	35.4	29.7	27.8	24.5	22.1	20.7	21.5	21.7	24.8	38.5	45.8	53.7	63.2	62.0	70.1	24	92.8	20.7	54.2
4/4/08	70.9	71.5	74.9	77.0	78.6	78.4	74.4	67.2	48.4	34.6	27.3	22.4	21.2	20.5	19.7	20.2	20.1	21.0	28.1	42.3	45.9	47.9	59.3	59.8	24	78.6	19.7	47.2
4/5/08	57.0	57.7	64.9	82.0	86.5	85.1	84.9	79.4	64.9	54.3	49.6	47.2	47.4	52.5	53.7	51.3	53.0	64.0	72.0	76.3	77.4	74.8	72.3	82.5	24	86.5	47.2	66.3
4/6/08	86.9	89.2	91.2	95.6	97.3	96.7	96.2	97.6	98.2	97.5	97.1	96.9	96.9	96.9	96.7	92.0	88.6	85.8	70.5	68.3	65.3	58.2	57.0	59.4	24	98.2	57.0	86.5
4/7/08	59.9	65.1	73.3	72.4	72.6	70.9	76.6	68.5	61.9	55.3	50.6	46.0	36.6	32.1	27.8	31.2	29.7	32.0	46.2	61.3	57.5	55.5	47.8	41.9	24	76.6	27.8	53.0
4/8/08	49.1	63.9	60.8	55.0	72.4	73.4	81.4	63.6	45.1	45.8	42.0	42.3	40.3	45.1	52.2	46.5	51.7	53.5	59.8	70.3	71.7	73.5	73.2	71.0	24	81.4	40.3	58.5
4/9/08	75.6	87.5	93.2	94.0	93.1	92.0	89.6	79.0	67.7	57.6	49.0	40.9	39.6	42.9	43.5	45.2	49.5	56.0	63.6	76.3	80.0	84.1	91.1	93.5	24	94.0	39.6	70.2
4/10/08	92.9	94.0	96.6	97.0	95.2	95.5	95.1	95.2	94.2	94.2	92.2	91.0	89.8	88.7	86.4	86.7	92.2	97.5	99.7	100.0	100.0	100.0	100.0	100.0	24	100.0	86.4	94.8
4/11/08	97.9	95.7	95.9	94.9	94.4	93.9	93.5	95.7	96.6	95.6	93.2	92.5	92.4	84.5	74.7	61.1	46.2	39.3	48.9	68.5	77.8	78.4	77.8	86.4	24	97.9	39.3	82.3
4/12/08	87.1	85.8	81.1	77.6	78.7	75.6	75.4	68.4	59.0	47.7	40.4	34.8	29.3	26.2	24.5	22.3	22.5	22.1	28.1	46.7	60.7	62.2	63.2	65.7	24	87.1	22.1	53.5
4/13/08	66.9	70.2	78.0	74.8	71.3	69.7	65.8	57.5	47.1	35.3	26.6	25.6	24.6	24.1	23.9	23.4	22.1	23.1	25.2	48.5	56.7	68.1	69.6	72.1	24	78.0	22.1	48.8
4/14/08	70.2	69.8	69.1	64.8	66.2	69.3	66.1	54.4	44.9	36.1	32.6	31.0	30.0	30.1	29.8	29.4	30.1	31.3	35.7	43.2	45.5	47.5	51.0	50.5	24	70.2	29.4	47.0
4/15/08	52.4	53.7	56.2	60.1	59.8	61.5	59.8	58.1	50.6	42.6	35.5	29.7	25.4	21.1	15.5	10.1	10.0	12.9	23.1	37.0	45.2	44.6	48.4	53.9	24	61.5	10.0	40.3
4/16/08	60.7	68.5	69.3	73.0	79.4	87.1	87.5	89.6	93.4	91.6	90.2	85.7	70.1	50.8	40.7	38.8	36.3	32.2	32.0	45.7	54.2	57.8	61.1	65.6	24	93.4	32.0	65.1
4/17/08	72.1	73.2	78.5	81.6	81.0	83.7	80.3	75.9	60.1	40.2	28.5	23.6	23.4	21.6	20.4	19.4	19.0	19.4	22.1	29.3	43.6	52.2	51.2	54.8	24	83.7	19.0	48.1
4/18/08	58.7	64.3	64.6	64.3	72.1	66.6	65.8	46.2	31.6	24.5	20.8	20.0	19.6	18.2	17.6	17.4	17.6	17.8	21.9	37.7	41.1	44.7	52.2	58.5	24	72.1	17.4	40.2
4/19/08	65.2	69.4	76.8	78.4	77.9	83.4	76.3	61.0	47.3	30.5	26.6	24.6	23.5	22.7	22.1	21.1	20.6	23.2	26.9	33.4	46.8	50.7	57.8	65.0	24	83.4	20.6	47.1
4/20/08	70.5	79.7	87.5	90.2	94.0	95.3	93.3	89.4	83.1	77.7	66.9	55.6	49.1	45.1	41.5	42.8	44.6	46.1	49.9	59.0	67.9	71.5	79.6	81.3	24	95.3	41.5	69.2
4/21/08	69.4	67.3	72.1	76.9	77.3	75.5	72.4	70.3	62.8	57.0	49.5	42.7	35.0	29.5	29.1	26.3	25.9	28.0	33.9	40.6	46.7	52.7	49.9	53.1	24	77.3	25.9	51.8
4/22/08	65.2	63.2	68.4	70.2	71.9	69.1	67.9	59.7	48.1	40.5	31.8	23.6	16.5	14.9	14.5	14.3	13.7	13.5	14.5	21.8	30.9	30.3	40.9	38.2	24	71.9	13.5	39.3
4/23/08	44.5	50.6	55.6	59.8	61.1	60.5	62.8	47.6	39.0	35.3	31.9	32.6	31.4	31.7	29.6	29.2	26.5	23.5	24.1	29.4	35.3	41.8	56.9	73.0	24	73.0	23.5	42.2
4/24/08	87.2	91.0	90.8	93.2	94.8	96.2	94.6	92.1	93.9	93.2	90.2	87.7	88.8	92.4	92.3	88.2	85.1	81.9	79.1	81.8	83.8	84.4	85.6	87.0	24	96.2	79.1	89.0
4/25/08	88.0	88.3	87.5	86.0	88.1	89.4	87.7	84.2	81.3	77.5	86.4	88.6	82.3	66.9	61.6	54.3	49.1	48.2	50.5	55.9	60.7	67.3	74.8	78.9	24	89.4	48.2	74.3
4/26/08	80.0	80.9	80.0	85.3	86.0	83.2	84.6	71.1	58.4	54.8	70.7	63.6	60.4	52.2	41.9	36.8	32.5	29.9	34.5	45.1	61.1	69.9	69.0	72.6	24	86.0	29.9	62.7
4/27/08	79.6	81.7	83.5	84.0	85.8	87.2	83.3	72.9	60.2	53.7	42.6	33.9	30.9	24.6	21.4	22.3	24.5	24.9	28.5	40.3	51.3	57.5	65.6	69.6	24	87.2	21.4	54.6
4/28/08	75.7	81.4	90.7	87.7	90.0	90.3	85.0	62.2	41.3	34.0	29.3	26.9	25.5	23.8	22.7	22.3	23.6	25.8	30.7	34.6	42.7	49.0	49.4	53.3	24	90.7	22.3	49.9
4/29/08	59.5	62.3	58.8	64.2	70.8	72.5	64.3	54.5	50.2	46.8	43.0	39.5	35.4	32.6	31.5	29.9	28.8	28.4	30.3	43.3	51.4	57.5	62.3	65.2	24	72.5	28.4	49.3
4/30/08	66.8	66.1	64.9	65.1	66.8	67.4	64.7	62.2	55.5	50.9	45.1	38.6	34.1	32.0	32.0	31.6	31.9	35.0	37.3	47.2	58.8	64.9	73.4	79.8	24	79.8	31.6	53.0
																									0			

hr max	97.9	95.7	96.6	97.0	97.3	96.7	96.2	97.6	98.2	97.5	97.1	96.9	96.9	96.9	96.7	92.0	92.2	97.5	99.7	100.0	100.0	100.0	100.0	100.0
hr min	44.5	50.6	55.6	55.0	59.8	60.5	59.8	46.2	31.6	24.5	20.8	20.0	16.5	14.9	14.5	10.1	10.0	12.9	14.5	21.8	30.9	30.3	40.9	38.2
average	71.7	75.1	77.8	78.9	81.0	81.5	80.0	72.5	63.0	55.7	51.3	47.2	43.7	40.8	38.8	37.0	36.3	37.3	41.6	51.9	58.4	61.7	64.8	68.2

monthly max hr	monthly min hr	monthly ave hr
100.0	10.0	59.0
4/10/08	4/15/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-08
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
4/1/08	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
4/2/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/3/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/4/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/5/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/6/08	0	0	0	0.02	0.02	0	0.01	0.02	0.01	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	0	0	24	0.02		0.10
4/7/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/8/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	24	0.01		0.01
4/9/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.04	24	0.04		0.08
4/10/08	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0.01	0.01	0	0	0	0	0	24	0.02		0.06
4/11/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/12/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/13/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/14/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/15/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/16/08	0	0	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.03		0.05
4/17/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/18/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/19/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/20/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/21/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/22/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/23/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0.01	22	0.01		0.01
4/24/08	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.04		0.04
4/25/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/26/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/27/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/28/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/29/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
4/30/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
																									0			
hr max	0.01	0.04	0.00	0.02	0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.04	0.04				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.04	0.00	0.02	0.02	0.00	0.01	0.02	0.04	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.04	0.05				

monthly max hr	monthly 24h max	monthly TOTAL
0.04	0.10	0.36
4/9/08	4/6/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	718
possible hours	720
data capture	99.7%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	6.5	8.3	7.8	7.1	8.2	7.5	8.6	8.7	10.5	11.5	11.8	12.9	13.4	13.0	13.6	13.7	13.7	12.0	11.1	11.3	11.0	11.7	11.9	12.5	24	13.7	6.5	10.8
5/2/08	13.2	12.6	12.9	13.4	12.5	11.5	12.0	12.1	11.6	13.8	13.5	14.4	14.7	15.2	12.3	13.5	15.3	14.6	13.4	10.1	7.0	5.5	6.4	5.8	24	15.3	5.5	12.0
5/3/08	5.3	5.2	6.8	5.7	5.7	5.0	4.5	3.7	3.0	4.2	5.0	5.8	6.9	6.6	6.6	7.2	7.6	7.8	8.3	5.8	5.3	5.2	5.4	5.1	24	8.3	3.0	5.7
5/4/08	4.6	4.4	3.4	3.5	3.9	4.1	5.8	6.0	5.6	6.2	6.0	6.9	7.8	8.9	8.6	8.5	7.8	7.0	5.1	3.8	4.7	5.2	5.9	5.6	24	8.9	3.4	5.8
5/5/08	6.2	4.1	1.8	3.7	3.9	6.0	5.4	5.2	4.6	5.4	6.1	6.6	6.5	6.5	7.1	6.9	6.6	6.1	4.9	3.8	4.0	3.7	4.4	4.2	24	7.1	1.8	5.2
5/6/08	4.8	4.2	4.4	5.0	4.5	3.5	4.2	4.0	4.3	4.6	4.4	5.5	7.4	7.3	6.0	7.4	5.8	3.8	5.0	7.7	8.2	7.4	4.8	2.9	24	8.2	2.9	5.3
5/7/08	4.1	4.3	4.9	3.8	4.0	2.7	2.0	2.6	1.9	1.4	1.5	1.9	2.0	1.9	2.2	2.3	2.3	2.5	3.8	3.1	3.9	5.1	5.7	6.0	24	6.0	1.4	3.2
5/8/08	4.9	4.6	4.8	5.7	6.9	7.7	8.3	7.9	6.8	7.5	9.2	9.0	8.7	8.5	7.8	7.5	6.7	6.1	5.7	4.6	4.4	3.9	2.8	2.5	24	9.2	2.5	6.4
5/9/08	2.1	1.7	1.6	2.5	2.7	2.6	3.2	3.4	5.4	7.4	7.2	5.8	4.8	4.3	4.3	4.1	3.8	3.7	4.4	3.9	3.0	3.7	3.2	1.3	24	7.4	1.3	3.8
5/10/08	2.4	3.3	4.1	3.7	3.6	6.7	7.5	8.7	8.8	10.8	12.0	10.9	12.4	12.2	11.7	12.3	12.4	11.3	10.1	6.6	4.9	4.7	4.9	4.2	24	12.4	2.4	7.9
5/11/08	4.2	4.4	3.5	4.5	4.3	4.7	3.7	4.1	4.9	5.6	6.0	7.4	8.1	8.3	8.3	8.0	8.3	7.6	6.8	6.6	8.2	9.0	9.4	9.9	24	9.9	3.5	6.5
5/12/08	9.7	10.4	10.7	9.5	9.8	7.8	6.5	6.0	6.2	4.0	1.8	3.0	4.6	9.1	9.0	9.7	10.3	9.7	7.8	6.7	3.9	4.0	4.2	3.0	24	10.7	1.8	7.0
5/13/08	3.2	3.5	5.2	5.0	5.6	4.5	7.3	7.8	7.4	7.4	8.1	9.2	9.1	8.9	8.8	6.4	5.8	5.6	5.0	4.3	3.1	2.3	0.8	1.4	24	9.2	0.8	5.7
5/14/08	3.3	3.9	4.0	4.6	4.7	5.3	5.2	6.0	6.5	6.6	7.3	6.8	6.5	6.7	7.7	6.6	6.4	10.2	6.3	2.5	2.8	3.3	4.5	4.4	24	10.2	2.5	5.5
5/15/08	4.3	3.4	4.1	5.0	4.8	3.9	3.4	5.3	5.2	6.4	6.3	6.2	6.5	7.0	6.6	7.0	6.8	8.0	6.3	4.2	4.6	4.7	4.3	4.2	24	8.0	3.4	5.4
5/16/08	4.9	5.7	5.4	5.4	5.4	5.8	5.8	7.0	7.8	7.3	8.4	9.1	8.2	9.5	11.6	13.1	12.7	11.3	9.6	6.6	5.8	5.9	5.6	5.7	24	13.1	4.9	7.7
5/17/08	6.1	6.6	6.7	6.7	6.9	7.0	6.8	7.5	7.8	8.7	8.9	11.5	13.1	13.7	13.1	13.7	12.9	14.3	13.1	6.8	4.7	4.4	3.7	2.3	24	14.3	2.3	8.6
5/18/08	2.6	2.8	3.1	2.1	2.2	2.9	1.3	3.8	4.6	4.7	4.8	4.3	4.3	4.7	4.6	5.4	6.5	6.5	7.4	6.6	5.8	5.8	6.0	4.0	24	7.4	1.3	4.5
5/19/08	6.6	4.3	3.6	5.8	5.9	6.1	5.3	5.7	7.9	9.5	11.4	14.5	16.9	17.1	17.8	18.0	18.0	16.5	14.1	11.2	6.4	4.5	4.8	1.8	24	18.0	1.8	9.7
5/20/08	1.5	1.3	3.5	4.1	3.7	1.8	1.1	1.0	1.4	1.7	1.8	2.9	2.7	4.9	4.0	4.3	3.8	4.3	4.4	3.5	3.9	3.9	3.7	4.1	24	4.9	1.0	3.1
5/21/08	4.2	4.2	5.3	4.5	4.8	5.5	6.8	7.0	8.5	8.9	9.0	9.7	9.6	9.5	8.9	9.3	8.7	8.2	7.1	6.5	5.2	6.2	6.9	7.4	24	9.7	4.2	7.2
5/22/08	6.5	6.1	6.7	6.3	5.6	7.2	6.4	4.4	4.4	5.4	7.9	7.7	8.4	7.5	9.6	12.0	12.1	10.3	8.4	6.3	6.5	7.0	8.0	8.8	24	12.1	4.4	7.5
5/23/08	10.5	8.3	9.2	12.4	11.9	8.5	8.3	9.2	10.8	11.7	11.9	12.0	12.3	11.2	12.0	13.6	14.2	11.4	10.7	10.3	10.2	10.3	9.0	10.6	24	14.2	8.3	10.9
5/24/08	9.9	10.7	12.9	16.9	14.9	13.1	14.3	13.1	12.5	12.2	11.9	11.2	9.7	10.4	10.9	10.1	8.4	8.3	9.2	7.5	6.7	5.7	5.0	5.1	24	16.9	5.0	10.4
5/25/08	5.3	5.5	6.6	5.9	5.6	5.4	6.2	8.2	8.8	8.3	9.5	10.6	10.5	11.4	11.8	12.0	12.6	11.9	11.6	10.2	8.6	6.1	6.9	7.9	24	12.6	5.3	8.6
5/26/08	8.4	10.3	9.3	9.1	8.4	8.3	8.6	9.2	9.7	9.3	9.0	10.6	11.2	9.6	8.8	8.1	7.8	7.9	6.5	5.0	4.9	3.5	3.4	3.1	24	11.2	3.1	7.9
5/27/08	1.0	3.5	5.4	5.0	5.0	4.3	5.5	6.0	7.0	6.7	6.9	5.9	5.6	4.9	4.9	4.2	5.0	3.7	3.5	4.3	3.3	2.5	1.9	1.4	24	7.0	1.0	4.5
5/28/08	0.7	1.0	1.1	1.3	0.8	1.0	1.8	3.9	4.5	4.5	6.0	6.1	6.2	5.9	6.3	7.0	8.0	7.8	7.8	6.2	5.7	6.2	6.1	6.6	24	8.0	0.7	4.7
5/29/08	6.7	5.6	4.9	5.3	4.8	3.6	7.4	7.7	7.6	7.6	5.6	5.5	5.1	3.4	2.3	1.8	1.7	1.7	1.9	4.4	2.7	3.2	3.4	1.0	24	7.7	1.0	4.4
5/30/08	3.7	3.7	4.4	5.8	6.7	4.4	6.3	7.4	7.1	8.1	9.6	9.9	10.6	10.3	9.5	9.1	8.2	6.4	5.4	4.3	4.2	10.2	3.8	4.8	24	10.6	3.7	6.8
5/31/08	6.8	6.3	6.3	5.8	6.0	6.4	6.4	6.7	6.1	4.7	4.9	5.9	5.3	5.6	5.8	5.8	5.4	5.2	4.6	4.6	3.8	4.3	4.2	3.9	24	6.8	3.8	5.5
hr max	13.2	12.6	12.9	16.9	14.9	13.1	14.3	13.1	12.5	13.8	13.5	14.5	16.9	17.1	17.8	18.0	18.0	16.5	14.1	11.3	11.0	11.7	11.9	12.5				
hr min	0.7	1.0	1.1	1.3	0.8	1.0	1.1	1.0	1.4	1.4	1.5	1.9	2.0	1.9	2.2	1.8	1.7	1.7	1.9	2.5	2.7	2.3	0.8	1.0				
average	5.3	5.3	5.6	6.0	5.9	5.6	6.0	6.4	6.7	7.2	7.5	8.1	8.4	8.5	8.5	8.7	8.6	8.1	7.4	6.1	5.4	5.5	5.2	4.9				

monthly max hr	monthly min hr	monthly ave hr
18.0	0.7	6.7
5/19/08	5/28/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

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mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	9.6	11.6	11.1	10.0	11.2	10.3	10.4	10.0	11.9	13.7	14.4	15.2	15.8	16.2	16.9	15.6	15.6	14.4	13.5	14.4	13.8	14.6	15.6	15.3	24	16.9	9.6	13.4
5/2/08	15.7	16.6	17.6	18.3	16.9	15.6	15.9	15.7	14.7	17.3	16.7	18.0	18.4	19.4	15.6	16.9	18.7	18.1	16.8	13.8	11.3	9.3	10.6	8.8	24	19.4	8.8	15.7
5/3/08	9.3	8.1	10.2	9.7	10.2	9.6	7.9	4.1	3.4	4.6	5.5	6.5	7.5	7.2	7.3	7.9	8.3	8.9	10.1	9.2	9.9	10.4	10.6	9.8	24	10.6	3.4	8.2
5/4/08	8.8	9.0	9.2	7.9	8.6	8.6	9.4	6.9	5.8	6.4	6.5	7.6	8.6	9.8	9.6	9.4	8.7	8.0	6.2	6.0	6.0	9.1	11.6	10.6	24	11.6	5.8	8.3
5/5/08	10.7	7.3	3.6	5.7	8.5	10.3	9.1	6.5	4.9	5.9	6.6	7.4	7.2	7.3	7.8	7.7	7.4	6.9	6.1	5.4	6.2	5.7	5.7	5.3	24	10.7	3.6	6.9
5/6/08	9.3	9.3	9.3	9.7	7.0	6.1	7.5	7.2	6.1	5.8	5.0	6.2	8.1	8.2	6.7	8.6	7.3	5.3	7.0	11.3	11.6	10.9	8.0	5.4	24	11.6	5.0	7.8
5/7/08	5.5	6.0	8.1	7.3	8.0	5.3	4.3	2.9	2.0	1.4	1.7	2.0	1.9	1.8	2.3	2.5	2.4	2.8	4.9	5.1	6.1	8.6	8.9	8.7	24	8.9	1.4	4.6
5/8/08	7.4	7.1	7.4	8.4	9.8	10.6	10.9	10.1	8.9	9.5	11.7	11.3	11.0	10.6	9.5	9.3	8.6	7.8	7.3	6.2	6.0	5.5	4.0	3.8	24	11.7	3.8	8.4
5/9/08	2.9	2.2	2.4	3.4	3.8	3.9	4.3	4.1	6.7	9.1	8.1	6.6	5.5	4.7	4.8	4.5	4.1	4.2	5.4	5.8	6.0	6.7	6.0	3.1	24	9.1	2.2	4.9
5/10/08	4.9	5.8	6.7	6.1	5.5	9.2	10.0	11.3	11.1	13.3	14.7	13.5	15.2	14.9	14.2	14.7	14.8	13.7	12.2	9.4	9.0	8.2	8.2	7.1	24	15.2	4.9	10.6
5/11/08	6.5	4.8	3.7	6.0	6.5	6.3	6.5	6.2	5.4	6.5	6.7	8.5	9.3	9.6	9.5	9.0	9.7	8.5	8.3	10.8	13.1	13.4	13.9	14.8	24	14.8	3.7	8.5
5/12/08	14.5	15.0	15.0	13.9	14.2	10.4	7.2	7.5	7.8	4.6	1.9	3.3	5.2	10.0	9.9	10.7	11.7	11.4	9.2	8.5	6.1	7.1	7.2	5.8	24	15.0	1.9	9.1
5/13/08	5.9	6.3	8.1	7.6	8.4	6.1	9.0	9.4	8.8	8.2	8.9	10.4	10.0	9.9	9.9	7.3	6.5	6.5	5.8	5.4	4.0	3.4	1.7	0.8	24	10.4	0.8	7.0
5/14/08	2.9	5.7	8.1	8.9	7.9	8.8	9.6	6.4	6.4	7.4	8.3	7.7	7.3	7.9	8.8	7.5	7.5	11.5	7.5	3.3	3.2	4.2	6.1	7.6	24	11.5	2.9	7.1
5/15/08	8.0	6.7	7.8	8.8	8.8	7.5	6.0	6.0	5.7	7.0	6.9	6.9	7.4	7.7	7.6	7.9	8.0	9.4	7.7	6.4	6.9	6.6	5.6	3.7	24	9.4	3.7	7.1
5/16/08	4.4	6.3	9.3	11.6	12.1	10.4	9.4	8.6	8.8	7.9	9.2	10.1	9.0	10.7	13.0	15.1	14.8	13.2	11.7	9.8	10.7	10.2	8.2	8.9	24	15.1	4.4	10.1
5/17/08	10.1	11.3	11.7	11.9	11.9	11.5	10.1	8.9	8.4	9.5	9.9	12.9	14.9	15.5	15.0	15.6	15.0	17.0	16.0	10.2	9.0	8.2	6.9	5.6	24	17.0	5.6	11.5
5/18/08	5.8	6.4	6.7	5.9	5.4	6.1	4.6	4.5	5.1	5.2	5.0	4.7	4.9	5.2	4.9	5.9	7.3	7.5	9.3	9.4	9.6	10.4	9.6	7.0	24	10.4	4.5	6.5
5/19/08	10.2	7.5	7.2	10.3	10.1	8.5	8.5	8.3	9.5	10.7	12.6	16.6	19.8	19.4	20.5	20.8	21.2	19.6	17.3	14.3	9.8	8.2	8.1	4.6	24	21.2	4.6	12.7
5/20/08	3.3	2.8	1.8	4.1	4.5	4.5	2.2	0.9	1.7	1.8	2.1	3.3	3.1	5.5	4.5	4.9	4.4	5.2	5.2	5.8	7.8	8.8	8.1	8.3	24	8.8	0.9	4.4
5/21/08	8.6	9.1	9.7	9.2	9.8	10.1	8.6	8.2	10.0	10.2	10.3	11.3	11.0	11.0	10.6	11.1	10.7	10.5	9.7	9.2	8.5	9.6	10.0	10.7	24	11.3	8.2	9.9
5/22/08	9.6	9.4	10.0	9.0	8.3	10.3	8.7	6.7	6.2	7.6	10.7	9.5	10.2	9.0	11.6	14.7	15.0	12.8	10.8	9.1	10.2	10.5	11.9	12.5	24	15.0	6.2	10.2
5/23/08	14.1	12.0	13.1	16.7	15.6	11.8	11.1	11.2	13.1	14.8	14.8	15.1	15.4	14.0	15.0	16.9	17.8	14.3	13.8	13.2	13.3	13.7	12.3	13.9	24	17.8	11.1	14.0
5/24/08	13.5	14.2	17.0	22.0	19.1	16.9	18.1	16.6	15.7	15.3	15.0	13.9	11.9	13.0	12.8	11.9	9.7	9.4	11.5	11.0	10.6	9.7	9.6	10.0	24	22.0	9.4	13.7
5/25/08	11.1	10.9	12.9	11.6	11.4	10.8	9.7	9.8	9.9	9.4	10.6	11.9	11.8	13.0	13.3	13.9	14.7	13.9	13.6	12.6	11.7	9.3	10.1	10.7	24	14.7	9.3	11.6
5/26/08	10.2	12.1	11.2	10.7	10.0	9.8	10.0	10.7	10.7	10.3	9.9	12.2	12.8	11.0	10.1	9.4	9.2	9.5	8.2	6.5	6.7	5.1	5.8	5.8	24	12.8	5.1	9.5
5/27/08	2.4	5.5	7.7	7.0	7.1	6.2	6.6	7.0	8.5	8.3	8.3	6.9	6.7	5.6	5.8	4.9	6.2	4.8	4.6	6.0	5.8	5.2	3.5	3.0	24	8.5	2.4	6.0
5/28/08	3.4	3.2	2.9	3.3	3.3	3.6	4.1	4.3	5.1	4.7	6.3	6.5	6.5	6.2	6.6	7.9	9.3	9.3	9.5	7.1	6.2	7.3	6.4	8.2	24	9.5	2.9	5.9
5/29/08	8.5	7.0	6.4	7.0	6.8	5.0	9.3	9.3	8.3	8.9	6.1	5.6	5.5	3.6	2.6	2.0	1.8	1.9	2.0	6.0	4.7	6.1	6.3	4.2	24	9.3	1.8	5.6
5/30/08	2.7	2.9	4.9	8.9	9.6	7.2	9.3	8.4	7.8	9.0	10.6	11.0	11.6	11.3	10.6	10.1	9.1	7.4	6.7	5.7	6.7	13.3	5.4	7.7	24	13.3	2.7	8.2
5/31/08	11.6	11.6	10.9	10.8	11.2	10.7	9.3	7.8	6.7	5.1	5.4	6.5	5.9	6.2	6.4	6.5	5.9	5.7	5.9	6.1	5.8	5.5	5.3	4.4	24	11.6	4.4	7.4
hr max	15.7	16.6	17.6	22.0	19.1	16.9	18.1	16.6	15.7	17.3	16.7	18.0	19.8	19.4	20.5	20.8	21.2	19.6	17.3	14.4	13.8	14.6	15.6	15.3				
hr min	2.4	2.2	1.8	3.3	3.3	3.6	2.2	0.9	1.7	1.4	1.7	2.0	1.9	1.8	2.3	2.0	1.8	1.9	2.0	3.3	3.2	3.4	1.7	0.8				
average	8.1	8.2	8.8	9.4	9.4	8.8	8.6	7.9	7.9	8.4	8.7	9.3	9.7	9.9	9.8	10.0	10.0	9.7	9.2	8.5	8.3	8.5	8.1	7.6				

monthly	monthly	monthly
max hr	min hr	ave hr
22.0	0.8	8.9
5/24/08	5/13/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	12.5	14.2	13.3	12.0	13.9	12.4	13.1	12.8	14.9	15.8	16.2	17.5	18.6	17.6	19.0	19.7	19.7	18.1	18.2	17.9	16.6	18.3	17.8	19.0	24	19.70	12.00	16.21
5/2/08	20.1	18.2	17.8	18.0	16.6	15.4	16.3	17.2	16.4	18.9	18.3	20.2	20.4	21.4	17.7	18.6	20.1	19.4	18.7	16.6	14.6	12.8	14.2	11.8	24	21.4	11.8	17.5
5/3/08	11.8	10.8	11.9	10.6	11.2	10.2	8.5	5.4	3.5	4.7	5.7	6.7	7.6	7.6	7.5	8.1	8.5	9.1	10.8	10.5	11.9	13.2	11.6	10.3	24	13.2	3.5	9.1
5/4/08	10.3	10.7	10.9	9.7	9.1	7.9	9.7	8.5	6.3	6.4	6.6	7.8	8.9	10.0	9.9	9.7	9.1	8.4	6.8	6.5	6.1	10.4	13.8	12.0	24	13.8	6.1	9.0
5/5/08	13.0	10.4	5.5	6.7	9.1	10.5	9.8	8.1	5.2	6.0	6.7	7.5	7.5	7.6	8.0	8.1	7.6	7.2	6.5	6.0	6.3	5.6	5.6	5.0	24	13.0	5.0	7.5
5/6/08	9.5	12.5	13.9	14.4	10.1	8.4	9.3	9.0	7.8	6.9	5.1	6.3	8.2	8.5	7.0	9.2	8.1	6.8	8.3	13.1	13.7	13.2	10.0	6.8	24	14.4	5.1	9.4
5/7/08	6.1	6.0	7.7	7.8	8.5	7.1	5.5	3.5	1.9	1.5	1.8	2.0	1.9	1.9	2.4	2.5	2.5	2.9	4.9	5.2	6.2	10.6	12.1	11.3	24	12.1	1.5	5.2
5/8/08	9.7	9.2	9.2	10.5	12.3	13.1	13.0	11.8	10.4	10.5	12.9	12.4	12.0	11.4	10.3	10.0	9.4	8.5	8.1	7.2	7.0	6.5	4.7	4.4	24	13.1	4.4	9.8
5/9/08	3.5	2.7	2.9	3.5	4.3	4.5	5.0	4.7	7.3	9.4	8.4	6.7	5.5	4.6	4.9	4.5	4.2	4.3	5.7	6.7	7.2	7.8	7.1	5.3	24	9.4	2.7	5.4
5/10/08	6.7	7.2	8.1	7.3	7.4	9.3	10.0	11.8	12.0	14.2	15.5	14.4	16.2	15.8	14.9	15.4	15.7	14.8	13.4	11.2	11.6	10.1	9.3	8.7	24	16.2	6.7	11.7
5/11/08	7.0	5.0	3.9	5.7	6.3	5.8	4.9	6.1	5.4	6.6	7.1	8.9	9.8	10.2	10.1	9.6	10.5	9.6	7.7	12.2	16.8	16.9	17.6	18.6	24	18.6	3.9	9.3
5/12/08	16.9	16.3	16.6	14.0	14.1	10.9	9.4	9.5	8.8	4.7	1.9	3.4	5.4	10.2	10.0	11.1	12.0	11.7	9.7	9.8	7.8	7.9	8.4	7.6	24	16.9	1.9	9.9
5/13/08	8.0	8.7	9.6	9.0	9.3	7.3	9.5	9.8	9.1	8.4	9.1	10.7	10.3	10.2	10.0	7.6	6.8	6.8	6.1	5.7	4.5	3.8	2.2	0.8	24	10.7	0.8	7.6
5/14/08	2.8	5.1	6.5	7.6	8.0	8.6	9.3	9.4	7.6	7.9	8.5	8.1	7.9	8.3	9.1	7.8	7.8	11.8	8.3	3.9	3.3	4.0	5.3	7.3	24	11.8	2.8	7.3
5/15/08	8.6	7.9	9.2	10.2	10.0	9.5	8.3	7.1	5.8	7.2	7.1	7.2	7.7	7.9	7.8	8.3	8.5	10.1	8.4	7.2	7.3	7.6	5.4	3.7	24	10.2	3.7	7.8
5/16/08	4.2	6.1	9.0	11.7	13.1	11.4	12.0	11.3	9.9	8.4	9.3	10.2	9.3	11.0	13.5	15.9	15.5	13.8	12.9	12.1	13.0	13.1	11.3	11.5	24	15.9	4.2	11.2
5/17/08	11.6	13.1	14.5	14.8	14.4	13.7	13.1	10.5	8.7	9.6	10.2	13.2	15.4	16.0	15.7	16.2	15.7	18.1	17.5	12.3	11.8	10.1	9.8	8.3	24	18.1	8.3	13.1
5/18/08	8.5	10.2	10.3	8.6	6.6	5.8	6.0	5.3	5.1	5.0	4.9	4.7	4.9	5.3	5.0	6.0	7.5	7.8	10.8	12.1	13.3	15.2	13.7	10.3	24	15.2	4.7	8.0
5/19/08	12.9	8.7	8.5	12.1	9.5	11.3	9.4	10.7	11.3	11.3	12.9	17.1	20.6	20.1	21.3	21.6	22.2	20.9	18.5	16.0	12.1	10.3	9.2	6.9	24	22.2	6.9	14.0
5/20/08	5.3	4.8	2.9	2.8	3.2	4.4	2.9	1.5	1.9	1.7	2.3	3.4	3.4	5.7	4.8	5.1	4.7	5.2	5.7	6.6	9.3	11.7	12.1	12.9	24	12.9	1.5	5.2
5/21/08	12.4	13.7	14.2	13.6	13.6	14.0	10.9	9.1	10.2	10.6	10.6	11.6	11.6	11.5	11.0	11.6	11.4	11.8	11.7	11.5	11.3	12.7	13.0	14.1	24	14.2	9.1	12.0
5/22/08	12.8	13.1	13.0	11.6	10.9	13.4	10.7	8.5	7.8	9.2	12.6	10.4	10.9	9.8	12.2	15.3	16.1	13.8	12.2	11.1	13.0	13.4	15.2	15.8	24	16.1	7.8	12.2
5/23/08	16.9	14.5	16.1	19.7	18.1	14.1	13.1	12.0	13.7	15.8	15.6	15.9	16.3	14.9	16.0	17.9	19.0	15.3	14.9	14.9	15.1	15.6	14.3	15.9	24	19.7	12.0	15.7
5/24/08	15.9	16.6	19.1	24.8	21.2	18.8	19.9	18.0	16.9	16.6	16.2	14.9	12.9	13.7	13.1	12.6	10.2	9.6	12.5	14.1	14.4	11.3	13.9	13.2	24	24.8	9.6	15.4
5/25/08	15.5	14.4	15.9	15.4	14.1	11.7	12.0	10.9	10.1	9.6	10.9	12.2	12.3	13.5	13.8	14.4	15.4	14.4	14.0	14.0	14.2	11.8	12.4	12.8	24	15.9	9.6	13.2
5/26/08	11.2	13.0	12.6	11.5	11.0	10.4	10.6	11.2	11.1	10.6	10.2	12.6	13.4	11.5	10.6	9.9	9.7	10.0	8.5	6.7	7.5	6.2	7.7	8.2	24	13.4	6.2	10.2
5/27/08	4.8	6.9	9.5	8.9	8.9	7.7	8.5	8.6	9.2	8.8	8.6	7.2	6.9	5.9	6.0	5.1	6.6	5.3	5.1	7.4	7.5	6.8	6.3	4.8	24	9.5	4.8	7.1
5/28/08	4.7	3.8	3.0	3.4	2.5	3.0	3.9	4.3	5.1	4.6	6.1	6.3	6.3	6.2	6.5	7.8	9.5	9.5	9.7	7.2	6.4	7.5	6.9	9.0	24	9.7	2.5	6.0
5/29/08	9.5	7.6	7.3	7.6	7.4	6.2	10.1	9.8	8.0	8.9	5.8	5.3	5.2	3.6	2.6	2.1	1.9	2.0	2.0	6.5	5.8	7.0	6.7	4.5	24	10.1	1.9	6.0
5/30/08	3.1	4.0	3.5	9.1	10.9	9.0	11.0	9.1	7.9	9.2	10.9	11.3	11.9	11.7	10.9	10.5	9.3	7.6	7.6	6.2	7.3	15.3	7.0	8.8	24	15.3	3.1	8.9
5/31/08	13.6	14.5	13.5	13.1	13.2	12.9	11.4	9.3	6.9	5.1	5.5	6.6	6.0	6.3	6.6	6.7	6.2	5.9	6.1	7.0	6.0	5.8	5.8	4.3	24	14.5	4.3	8.3
hr max	20.1	18.2	19.1	24.8	21.2	18.8	19.9	18.0	16.9	18.9	18.3	20.2	20.6	21.4	21.3	21.6	22.2	20.9	18.7	17.9	16.8	18.3	17.8	19.0				
hr min	2.8	2.7	2.9	2.8	2.5	3.0	2.9	1.5	1.9	1.5	1.8	2.0	1.9	1.9	2.4	2.1	1.9	2.0	2.0	3.9	3.3	3.8	2.2	0.8				
average	10.0	10.0	10.3	10.8	10.6	10.0	9.9	9.2	8.6	8.8	9.1	9.8	10.2	10.3	10.3	10.6	10.7	10.3	10.0	9.9	10.0	10.4	10.0	9.5				

monthly max hr	monthly min hr	monthly ave hr
24.8	0.8	10.0
5/24/08	5/13/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
5/1/08	65	69	71	71	68	70	65	59	60	65	66	65	64	56	55	62	62	63	59	54	55	56	52	57	24
5/2/08	57	52	49	48	46	47	41	34	24	12	9	4	9	20	14	9	7	4	1	2	353	335	343	318	24
5/3/08	326	317	321	307	302	299	302	300	301	293	296	306	303	299	286	281	274	261	252	240	233	252	262	269	24
5/4/08	269	241	244	229	246	256	275	297	289	282	300	299	302	294	288	297	292	300	292	268	257	243	265	267	24
5/5/08	279	327	328	280	252	282	271	262	255	265	270	249	262	273	272	279	273	268	260	241	243	226	211	206	24
5/6/08	187	190	189	185	175	180	183	176	180	190	193	221	243	269	259	341	316	277	329	11	16	19	18	18	24
5/7/08	347	342	344	349	347	333	336	352	354	338	133	149	28	108	89	36	132	111	140	134	136	86	90	89	24
5/8/08	95	95	77	76	95	90	87	103	103	97	90	94	99	98	99	108	115	99	100	95	96	91	79	65	24
5/9/08	54	41	48	19	20	33	68	82	112	119	124	143	148	154	138	141	132	106	141	140	120	134	120	72	24
5/10/08	61	88	89	80	70	47	40	37	25	18	16	16	4	6	2	349	345	344	340	340	327	340	325	308	24
5/11/08	295	295	284	259	260	250	225	234	232	223	197	192	189	187	188	187	183	174	161	155	150	145	144	149	24
5/12/08	153	154	154	158	160	163	172	182	194	225	268	313	310	314	322	329	333	332	320	322	322	295	287	277	24
5/13/08	264	276	297	307	317	345	355	353	358	350	347	342	337	336	337	347	346	351	355	340	331	346	328	188	24
5/14/08	196	197	197	193	192	188	181	176	174	184	193	189	188	203	195	204	222	289	298	278	239	227	216	247	24
5/15/08	278	263	295	301	307	305	330	314	325	335	332	333	328	329	349	349	350	330	340	314	300	301	292	281	24
5/16/08	271	259	250	245	242	240	239	252	262	260	268	279	296	316	322	328	332	331	336	328	322	307	285	277	24
5/17/08	272	279	287	290	294	297	300	312	306	318	322	318	321	329	325	323	333	340	341	338	328	359	2	352	24
5/18/08	48	77	74	82	106	102	83	119	138	149	158	160	158	156	159	156	142	133	123	125	126	127	139	144	24
5/19/08	159	138	128	145	163	183	215	268	303	305	304	316	322	318	323	323	334	340	350	5	19	33	33	28	24
5/20/08	38	354	292	275	295	330	336	27	338	6	342	334	345	322	347	27	22	44	56	63	81	83	94	93	24
5/21/08	97	86	101	112	110	105	122	129	119	118	114	105	105	106	107	110	114	106	100	108	98	96	86	88	24
5/22/08	99	97	95	89	87	82	90	79	95	99	100	129	129	103	105	108	104	113	111	103	95	95	91	91	24
5/23/08	89	125	95	87	97	102	98	105	119	123	117	113	115	120	113	106	115	130	123	116	114	121	117	120	24
5/24/08	117	116	108	100	114	119	128	136	146	144	145	145	143	154	151	150	147	163	139	138	147	156	178	197	24
5/25/08	202	188	185	199	217	236	261	274	277	275	266	274	270	270	272	278	278	283	286	291	302	280	287	300	24
5/26/08	324	328	323	323	320	325	325	333	333	333	333	351	3	3	13	15	19	30	32	39	48	52	56	36	24
5/27/08	1	6	7	11	24	46	59	60	65	67	69	83	92	95	111	116	75	79	92	45	18	8	8	2	24
5/28/08	3	60	61	85	66	89	117	139	142	159	160	160	163	162	160	151	148	150	153	157	161	157	161	154	24
5/29/08	152	155	151	155	149	117	137	149	156	148	156	162	154	149	144	68	324	67	158	264	336	1	3	335	24
5/30/08	239	245	233	248	250	251	258	262	286	298	306	306	314	323	314	310	307	256	267	277	266	327	315	287	24
5/31/08	274	290	292	284	285	291	291	308	318	312	287	308	319	312	307	302	320	298	307	299	280	276	287	293	24

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
5/1/08	69	69	71	73	69	70	65	59	61	65	67	65	64	56	55	62	62	64	60	55	56	56	53	57	24
5/2/08	58	52	50	48	47	48	42	35	25	12	9	4	9	19	13	8	7	3	1	2	356	348	347	335	24
5/3/08	339	333	334	322	317	319	319	300	299	290	293	304	300	298	284	278	271	259	250	244	244	258	274	281	24
5/4/08	287	272	272	265	285	286	282	298	289	282	298	297	299	291	287	295	291	297	291	282	272	258	279	279	24
5/5/08	289	318	329	298	288	292	285	269	258	263	265	247	259	271	271	277	271	266	258	245	240	230	214	203	24
5/6/08	190	191	188	180	175	179	189	188	177	192	195	219	242	267	257	338	314	295	330	10	15	19	30	35	24
5/7/08	7	4	0	3	4	358	350	351	352	348	141	142	35	102	83	37	127	112	139	130	135	86	89	90	24
5/8/08	97	98	81	77	95	91	89	103	103	97	91	95	99	98	99	106	114	100	100	95	97	93	81	70	24
5/9/08	61	56	62	26	22	34	69	85	112	118	123	142	146	153	137	141	132	106	140	143	125	129	119	96	24
5/10/08	82	90	90	81	74	48	40	38	25	18	16	15	3	5	1	347	344	343	338	339	331	347	346	337	24
5/11/08	332	320	306	273	273	260	243	239	232	221	195	193	189	188	187	186	181	174	161	155	149	146	145	149	24
5/12/08	152	154	154	157	158	162	170	181	194	224	273	313	308	312	320	326	330	330	318	321	326	311	297	294	24
5/13/08	288	289	300	306	319	346	354	351	357	348	345	340	335	334	335	345	344	349	354	339	347	7	23	93	24
5/14/08	181	196	204	201	195	188	182	174	173	184	191	190	189	204	196	203	221	287	297	294	253	237	224	244	24
5/15/08	287	292	311	311	319	327	333	315	322	331	330	330	325	326	345	347	348	328	338	323	321	331	331	316	24
5/16/08	280	263	258	258	256	257	254	256	263	261	266	277	293	314	319	327	329	328	333	330	331	326	309	304	24
5/17/08	289	295	299	299	301	304	305	313	305	315	320	316	318	326	322	321	331	338	338	337	341	15	21	22	24
5/18/08	56	84	90	91	99	106	110	125	140	151	158	161	158	157	160	154	143	133	123	126	128	128	139	144	24
5/19/08	158	150	134	143	160	179	221	280	303	303	302	314	319	315	321	321	331	339	350	7	22	32	45	53	24
5/20/08	55	39	329	296	302	331	358	358	324	358	331	332	342	321	352	25	21	45	59	62	77	82	87	92	24
5/21/08	99	95	105	115	115	112	124	132	121	119	116	108	108	110	109	112	116	110	103	110	102	99	91	93	24
5/22/08	102	101	98	93	92	87	94	86	100	104	103	132	130	108	107	112	108	114	114	108	100	101	96	95	24
5/23/08	94	127	100	92	101	106	102	109	124	127	120	116	119	124	117	111	118	134	128	119	117	125	122	125	24
5/24/08	122	120	112	106	119	124	133	140	150	148	149	149	148	158	155	154	152	166	143	143	147	158	186	206	24
5/25/08	212	197	192	204	227	249	268	276	279	276	267	274	272	270	272	277	278	283	285	291	302	286	290	304	24
5/26/08	325	328	323	324	321	325	326	332	334	333	334	353	5	5	16	18	22	34	36	44	52	56	66	52	24
5/27/08	47	26	14	18	29	51	63	64	69	72	73	87	95	98	114	118	77	83	93	51	35	41	53	75	24
5/28/08	135	147	140	136	134	127	137	144	146	163	164	164	166	165	162	154	152	153	156	161	164	161	164	158	24
5/29/08	155	158	154	157	152	127	141	152	159	152	159	165	158	153	149	91	315	75	167	265	326	10	19	17	24
5/30/08	300	293	240	250	261	269	262	265	286	299	306	305	313	323	314	310	307	258	270	283	271	327	295	298	24
5/31/08	282	297	298	296	295	296	294	310	319	312	289	307	318	312	308	302	318	300	311	303	292	291	301	311	24

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
100WD

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
5/1/08	81	79	80	83	78	77	73	67	68	72	74	72	71	63	62	69	69	72	68	63	64	64	61	64	24
5/2/08	65	60	56	55	54	55	49	41	31	18	15	10	15	25	19	14	13	9	6	8	5	2	360	352	24
5/3/08	355	353	355	340	335	335	337	320	304	294	298	310	306	303	289	283	275	265	256	251	255	267	278	286	24
5/4/08	289	285	290	288	306	302	302	315	301	292	301	302	304	295	293	301	296	302	298	293	284	272	292	294	24
5/5/08	302	318	326	311	305	309	310	295	273	272	270	252	265	277	277	282	277	271	264	250	247	238	228	215	24
5/6/08	194	194	192	187	180	189	203	205	182	201	202	226	249	272	262	341	318	311	337	16	21	26	42	49	24
5/7/08	30	25	15	18	18	19	11	6	6	7	146	138	67	91	92	49	123	118	145	137	142	91	95	98	24
5/8/08	104	106	93	89	104	100	98	110	109	103	98	101	106	105	106	113	121	108	107	103	105	101	90	81	24
5/9/08	78	80	76	40	35	44	77	95	119	125	130	147	150	158	144	147	139	112	144	151	132	134	133	110	24
5/10/08	96	102	99	92	86	55	47	43	32	24	22	22	9	11	6	352	349	348	344	344	341	354	359	351	24
5/11/08	342	334	324	287	286	274	253	245	239	225	200	199	196	194	193	192	188	181	168	161	156	154	155	159	24
5/12/08	160	161	161	163	164	168	177	189	198	231	277	319	314	318	324	331	335	334	324	326	336	327	315	315	24
5/13/08	314	307	315	323	336	354	359	356	3	353	350	344	340	338	341	350	348	354	358	343	356	15	25	99	24
5/14/08	188	198	204	205	205	194	193	186	181	190	195	195	196	209	202	209	228	291	303	308	271	252	229	246	24
5/15/08	297	307	326	329	340	355	354	332	330	336	335	334	331	331	347	352	353	333	342	331	330	342	346	325	24
5/16/08	290	273	263	265	266	284	282	278	277	271	272	282	299	320	323	332	334	333	339	338	339	341	334	327	24
5/17/08	312	317	320	318	321	324	325	325	314	320	325	321	324	331	327	326	336	343	343	344	350	25	34	37	24
5/18/08	75	93	98	98	114	127	134	137	148	159	165	166	164	163	166	159	149	140	131	133	135	138	146	149	24
5/19/08	165	164	151	155	173	199	248	303	312	310	307	320	324	320	325	326	335	343	354	10	25	37	51	61	24
5/20/08	60	47	24	325	324	318	330	314	318	352	333	334	339	324	352	26	23	46	63	65	79	84	86	91	24
5/21/08	102	102	108	121	120	117	127	135	124	123	120	112	112	114	113	116	121	115	107	114	106	104	98	99	24
5/22/08	107	107	105	100	99	96	101	97	108	113	109	135	134	113	111	115	111	118	119	114	106	107	103	100	24
5/23/08	99	129	108	97	103	109	106	112	126	129	122	118	121	126	120	114	120	136	130	122	120	128	126	128	24
5/24/08	126	124	115	108	122	126	134	142	152	150	151	151	150	160	159	157	155	169	146	149	148	170	201	225	24
5/25/08	224	211	205	218	240	261	277	280	281	278	270	276	274	273	275	280	281	286	289	295	305	293	296	311	24
5/26/08	327	330	325	326	324	327	328	335	336	335	337	355	7	7	18	20	24	37	39	48	55	61	72	61	24
5/27/08	62	47	28	29	38	57	68	69	73	75	77	90	96	102	115	120	82	85	94	57	46	54	75	117	24
5/28/08	159	160	157	151	153	143	147	147	148	166	167	167	170	167	165	158	155	156	158	163	167	164	167	160	24
5/29/08	159	161	158	161	161	138	144	155	162	156	164	169	161	155	153	101	316	81	171	267	324	9	15	9	24
5/30/08	311	317	258	256	269	282	271	271	290	302	308	307	315	325	317	314	310	262	273	290	276	329	282	302	24
5/31/08	291	303	310	308	301	304	305	319	324	314	294	308	318	313	309	305	318	302	312	305	301	299	310	326	24

Validated by:	Roger L Thompson	Date:	6/1/08
Analyst:	Denise Hazelman	Date:	6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
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data
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Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	7.3	8.0	7.6	8.2	7.8	7.8	7.5	8.2	8.3	8.3	8.4	8.3	8.2	7.7	7.5	7.5	7.5	7.7	7.8	7.4	8.1	7.8	7.2	7.8	24	8.4	7.2	7.8
5/2/08	7.5	6.8	6.8	6.4	6.8	6.9	7.1	6.7	6.6	5.9	5.9	5.5	5.7	7.6	6.5	6.2	6.4	5.8	5.4	5.5	4.8	5.8	4.7	5.8	24	7.6	4.7	6.2
5/3/08	4.1	5.6	4.1	4.1	3.2	3.8	4.8	6.9	14.6	16.2	14.1	17.7	14.0	14.9	15.7	14.4	10.7	9.8	7.7	5.3	4.4	4.5	6.0	4.9	24	17.7	3.2	8.8
5/4/08	8.5	7.1	8.1	12.4	8.1	6.0	5.6	6.2	7.3	8.9	12.1	12.7	13.9	12.8	12.0	11.4	11.3	8.3	6.1	3.9	3.6	3.1	4.8	6.0	24	13.9	3.1	8.3
5/5/08	4.5	39.3	29.8	9.3	15.1	3.9	5.5	6.6	8.9	9.9	14.7	18.0	17.1	17.5	16.6	15.5	16.1	13.1	8.4	4.0	3.8	2.2	3.6	2.1	24	39.3	2.1	11.9
5/6/08	2.5	4.1	3.6	3.6	2.3	9.3	10.1	8.8	10.8	10.8	12.0	10.5	13.6	15.5	16.6	14.0	27.6	24.4	7.0	6.3	5.9	5.9	6.2	11.5	24	27.6	2.3	10.1
5/7/08	4.3	3.3	4.0	4.9	4.6	6.5	10.4	10.8	21.3	54.7	67.5	58.9	76.5	52.6	50.3	44.3	52.8	32.2	8.8	5.7	15.5	7.4	7.0	7.2	24	76.5	3.3	25.5
5/8/08	7.3	11.2	8.5	7.7	7.3	7.2	8.0	7.3	7.4	6.9	6.4	6.3	6.9	7.0	7.0	7.0	7.1	7.2	7.2	6.8	7.1	7.8	7.7	7.0	24	11.2	6.3	7.4
5/9/08	8.1	7.0	7.7	6.3	5.7	7.4	8.2	7.9	8.0	7.4	8.5	9.4	10.8	10.6	9.9	9.0	10.4	8.4	7.4	6.4	7.2	6.1	7.9	10.1	24	10.8	5.7	8.2
5/10/08	7.2	6.8	6.7	6.6	7.3	7.8	7.8	7.4	6.7	6.4	6.1	6.5	6.1	6.2	7.2	6.3	6.9	6.2	6.1	5.3	3.6	9.9	5.1	4.8	24	9.9	3.6	6.5
5/11/08	4.5	4.0	4.8	4.2	4.0	4.5	5.4	5.6	7.6	10.2	13.7	12.3	11.2	10.8	11.8	11.6	9.5	7.6	6.9	6.3	6.0	6.2	6.2	6.1	24	13.7	4.0	7.5
5/12/08	5.8	6.2	6.1	6.0	6.0	6.0	6.5	8.1	8.3	11.1	49.1	32.7	20.7	9.0	8.6	7.9	8.5	8.3	6.3	5.8	8.5	4.9	5.5	6.5	24	49.1	4.9	10.5
5/13/08	6.3	8.9	5.7	5.5	5.6	8.0	6.4	6.0	7.7	7.7	9.1	8.8	9.2	9.8	9.0	10.5	10.8	9.0	8.2	7.3	8.1	4.3	44.9	6.3	24	44.9	4.3	9.3
5/14/08	4.5	2.9	3.7	5.0	5.1	5.1	5.6	5.9	7.3	8.9	10.3	13.4	14.7	16.7	11.9	14.7	11.3	15.9	6.8	7.8	9.5	7.7	6.4	8.8	24	16.7	2.9	8.7
5/15/08	4.8	6.4	4.8	3.8	4.0	4.3	10.0	6.7	10.6	12.1	12.5	15.9	15.0	11.4	11.9	13.1	7.5	7.9	7.6	4.9	2.5	2.5	5.1	3.0	24	15.9	2.5	7.8
5/16/08	3.0	1.7	3.1	3.7	4.2	5.0	5.7	5.3	6.0	6.7	8.4	9.5	11.4	11.8	9.8	8.1	8.9	7.2	5.9	5.0	4.1	4.3	3.8	4.3	24	11.8	1.7	6.1
5/17/08	4.8	4.5	4.2	4.4	4.3	4.4	4.8	6.0	6.0	7.9	11.1	9.7	11.3	8.9	9.7	9.2	9.1	6.8	6.0	5.0	6.2	4.8	3.6	6.1	24	11.3	3.6	6.6
5/18/08	5.3	9.9	6.5	12.0	3.6	3.7	24.7	10.7	10.6	13.8	15.7	19.3	20.2	16.6	16.4	14.0	9.2	9.7	7.0	6.5	6.3	6.7	6.7	10.1	24	24.7	3.6	11.1
5/19/08	7.7	10.5	10.7	7.1	5.8	6.6	18.6	10.7	6.5	6.8	6.5	9.0	7.3	6.5	7.1	7.8	7.2	6.7	6.3	5.8	6.0	4.2	4.3	53.9	24	53.9	4.2	9.6
5/20/08	7.4	11.7	6.5	3.3	5.1	15.8	14.3	44.3	53.8	45.4	53.3	37.0	48.0	20.4	33.1	31.9	20.8	13.9	8.9	10.4	10.6	9.2	11.9	6.7	24	53.8	3.3	21.8
5/21/08	5.7	7.0	8.3	8.5	6.4	8.1	7.5	7.6	8.3	8.8	9.9	8.7	10.9	10.8	9.6	8.7	7.3	7.0	6.7	6.9	6.5	6.9	6.7	6.5	24	10.9	5.7	7.9
5/22/08	7.3	7.3	6.9	7.5	7.3	6.7	6.9	7.8	7.4	6.7	7.9	7.5	7.2	8.7	7.3	8.9	7.9	7.1	7.0	7.0	6.6	6.6	6.6	7.0	24	8.9	6.6	7.3
5/23/08	7.6	8.5	7.0	7.3	7.8	7.4	7.5	8.0	8.5	7.4	7.5	7.4	7.6	7.4	7.2	7.5	7.9	7.0	7.1	7.0	7.4	7.2	7.0	7.2	24	8.5	7.0	7.5
5/24/08	6.8	6.4	7.5	12.1	7.0	6.5	6.6	7.0	6.5	6.1	6.7	6.4	7.5	6.4	6.9	6.4	8.4	8.8	6.5	5.9	6.8	6.2	6.6	8.1	24	12.1	5.9	7.1
5/25/08	6.5	7.0	6.2	6.9	4.7	4.6	6.0	6.9	7.6	8.8	8.5	8.8	11.2	10.0	11.3	8.9	8.0	8.1	7.4	6.1	5.4	6.5	5.8	6.2	24	11.3	4.6	7.4
5/26/08	6.5	6.4	5.6	5.8	5.5	5.8	5.8	6.0	6.3	7.4	8.2	7.9	8.7	9.5	8.3	7.9	7.9	7.9	7.9	8.2	8.6	7.2	6.5	6.0	24	9.5	5.5	7.2
5/27/08	11.9	5.3	5.5	6.1	6.1	7.0	7.8	7.9	7.7	8.8	9.2	9.4	10.4	13.3	10.8	15.5	14.7	24.7	9.8	7.2	4.6	5.4	8.9	5.8	24	24.7	4.6	9.3
5/28/08	9.6	9.5	23.9	19.0	18.8	18.2	14.0	8.3	10.7	11.5	10.6	11.5	11.6	14.9	12.9	10.0	8.3	8.0	6.4	7.6	6.7	6.4	5.9	6.1	24	23.9	5.9	11.3
5/29/08	6.3	7.2	6.6	6.2	6.6	8.6	6.7	6.8	6.4	7.1	8.7	9.2	9.1	13.1	17.0	49.0	43.1	32.5	21.0	8.0	12.7	4.5	4.5	40.4	24	49.0	4.5	14.2
5/30/08	6.8	6.4	4.5	5.0	8.6	9.0	5.0	6.4	7.7	8.1	9.8	9.2	8.8	10.1	7.9	8.0	9.7	7.8	7.2	6.1	6.3	8.8	59.7	6.9	24	59.7	4.5	9.7
5/31/08	5.8	5.2	4.6	4.9	5.0	5.3	5.6	6.1	8.7	11.0	15.6	13.9	13.3	15.7	16.5	13.9	14.9	17.1	8.9	8.7	3.5	3.3	3.1	2.7	24	17.1	2.7	8.9
hr max	11.9	39.3	29.8	19.0	18.8	18.2	24.7	44.3	53.8	54.7	67.5	58.9	76.5	52.6	50.3	49.0	52.8	32.5	21.0	10.4	15.5	9.9	59.7	53.9				
hr min	2.5	1.7	3.1	3.3	2.3	3.7	4.8	5.3	6.0	5.9	5.9	5.5	5.7	6.2	6.5	6.2	6.4	5.8	5.4	3.9	2.5	2.2	3.1	2.1				
average	6.3	7.8	7.4	6.9	6.4	7.0	8.3	8.5	10.0	11.5	14.5	13.6	14.5	12.7	12.7	13.2	12.8	11.4	7.7	6.5	6.7	5.9	9.0	9.1				

monthly max hr	monthly min hr	monthly ave hr
76.5	1.7	9.6
5/7/08	5/16/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
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data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	4.5	4.7	4.6	5.8	4.9	5.0	4.8	5.4	5.3	5.1	5.2	5.5	5.3	5.2	5.1	5.0	5.0	5.4	5.5	5.1	5.5	5.3	5.2	5.0	24	5.8	4.5	5.1
5/2/08	5.1	4.6	4.5	4.3	4.7	4.7	5.0	4.8	4.8	4.2	4.2	3.9	4.6	6.3	5.0	4.6	4.8	4.3	4.0	3.4	2.6	4.2	3.3	4.2	24	6.3	2.6	4.4
5/3/08	2.6	4.1	2.8	2.4	1.8	1.8	2.4	6.7	10.3	13.9	12.2	15.6	11.9	13.0	13.6	12.6	9.2	8.2	5.8	2.6	1.5	2.2	2.2	2.0	24	15.6	1.5	6.7
5/4/08	1.8	3.5	2.2	2.6	3.9	2.1	2.2	5.4	5.4	6.5	9.9	10.4	12.1	11.7	11.2	10.5	10.0	7.9	4.4	4.2	5.5	3.6	2.3	2.9	24	12.1	1.8	5.9
5/5/08	1.7	27.9	17.6	3.9	4.4	1.1	2.5	6.5	8.1	7.7	12.2	13.2	14.2	14.3	14.0	14.9	14.7	11.1	7.0	3.1	2.1	0.9	3.6	1.9	24	27.9	0.9	8.7
5/6/08	2.7	2.9	2.8	1.5	1.4	3.1	4.7	6.5	8.5	8.4	9.4	7.8	12.3	13.9	14.8	13.2	17.8	13.6	6.3	4.3	3.9	3.8	3.7	7.4	24	17.8	1.4	7.3
5/7/08	3.3	3.0	2.3	2.8	3.2	3.0	3.9	7.5	17.3	42.1	58.5	46.3	66.1	59.5	41.7	38.5	44.6	27.4	7.1	3.5	12.9	4.9	4.2	4.3	24	66.1	2.3	21.2
5/8/08	4.5	6.5	5.5	4.7	4.6	4.7	5.6	4.5	4.8	4.3	3.7	3.8	4.5	4.0	4.2	4.5	4.8	4.9	4.8	4.8	4.2	5.6	4.6	3.9	24	6.5	3.7	4.7
5/9/08	6.1	4.3	5.7	4.8	3.7	5.0	5.5	5.8	5.8	5.0	6.8	6.9	7.7	8.0	8.4	7.1	9.3	6.6	5.1	3.9	5.2	2.4	3.3	4.1	24	9.3	2.4	5.7
5/10/08	3.7	3.5	3.2	3.1	4.4	5.8	5.0	4.8	4.7	4.2	4.4	5.0	4.1	5.8	6.0	5.8	6.3	5.2	4.5	3.6	1.6	7.1	3.4	2.9	24	7.1	1.6	4.5
5/11/08	2.2	1.9	4.8	1.3	1.5	2.1	1.7	3.1	5.2	7.4	10.9	10.3	9.9	9.7	9.6	10.3	7.2	5.7	4.5	2.9	2.9	3.2	3.1	3.0	24	10.9	1.3	5.2
5/12/08	3.2	3.2	3.4	3.0	3.3	3.4	4.0	5.8	6.2	8.7	51.2	29.3	19.3	7.9	7.0	6.5	7.1	6.6	5.4	4.4	4.8	3.8	3.5	3.4	24	51.2	3.0	8.5
5/13/08	4.1	4.3	2.7	3.4	3.0	6.0	4.7	4.2	6.3	6.3	8.0	7.6	7.6	7.4	8.0	9.9	9.4	7.2	6.6	6.3	6.7	4.2	8.5	12.4	24	12.4	2.7	6.5
5/14/08	3.2	2.6	1.0	1.1	1.9	2.4	1.8	4.0	4.5	7.2	8.2	11.0	13.1	13.6	9.8	12.8	9.0	15.8	5.5	7.6	10.7	10.7	4.4	5.1	24	15.8	1.0	7.0
5/15/08	2.2	2.3	2.4	2.6	2.6	4.0	5.6	6.7	7.8	10.0	9.6	13.3	12.8	9.6	11.9	12.3	7.3	6.6	6.1	3.4	1.9	1.9	1.8	2.9	24	13.3	1.8	6.2
5/16/08	2.7	1.2	1.5	1.0	1.2	3.5	4.6	4.9	5.3	5.8	6.9	7.7	9.6	10.9	9.0	6.6	7.2	5.6	4.1	3.1	1.7	2.4	3.7	2.3	24	10.9	1.0	4.7
5/17/08	2.0	1.9	1.5	1.8	1.9	2.1	3.2	4.8	4.7	6.2	9.2	8.6	10.2	7.5	8.7	8.4	8.1	5.7	4.6	3.3	3.6	3.1	1.9	2.8	24	10.2	1.5	4.8
5/18/08	4.8	4.7	3.5	3.6	2.2	1.9	5.0	8.4	7.8	10.2	11.8	15.5	17.2	13.7	13.8	11.7	7.8	7.5	4.9	4.3	3.2	3.8	3.8	4.6	24	17.2	1.9	7.3
5/19/08	4.0	6.0	4.6	3.5	2.1	3.5	7.3	7.5	5.5	5.9	5.0	8.1	6.1	5.4	5.9	6.8	6.2	5.8	5.2	4.3	3.8	1.9	1.8	3.2	24	8.1	1.8	5.0
5/20/08	2.1	4.5	12.7	3.8	3.4	4.7	8.7	46.8	42.2	48.9	51.9	31.3	37.7	16.5	28.2	27.2	18.9	12.6	6.6	4.8	5.6	2.6	4.7	3.2	24	51.9	2.1	17.9
5/21/08	2.8	3.9	3.9	4.2	2.6	3.9	5.8	6.2	6.2	7.0	7.5	6.1	8.7	8.4	7.3	6.6	4.7	4.5	4.0	4.2	3.3	3.8	4.4	4.2	24	8.7	2.6	5.2
5/22/08	4.5	4.4	4.1	4.9	4.6	3.8	4.3	4.8	5.1	4.0	5.8	5.7	5.5	6.7	4.8	6.1	5.5	4.8	4.7	4.2	3.7	3.9	3.9	4.7	24	6.7	3.7	4.8
5/23/08	5.0	7.1	4.9	4.9	5.8	5.1	5.4	5.9	6.2	5.1	5.3	4.8	5.5	5.6	4.9	5.0	5.5	5.1	5.0	5.2	5.3	5.6	5.4	4.9	24	7.1	4.8	5.4
5/24/08	4.9	4.5	4.8	10.9	5.4	4.8	4.7	5.0	4.6	4.0	4.2	4.3	5.3	3.8	4.7	4.2	6.5	6.7	4.0	3.1	3.8	3.0	5.2	5.6	24	10.9	3.0	4.9
5/25/08	3.9	5.5	4.1	2.8	2.4	2.0	4.4	5.4	5.1	6.6	7.0	7.3	9.2	8.0	9.7	7.3	6.6	6.7	5.4	4.8	4.0	3.8	3.6	4.6	24	9.7	2.0	5.4
5/26/08	5.3	5.0	4.4	4.4	4.3	4.9	4.0	4.4	4.6	6.4	6.5	7.1	7.8	7.5	6.8	6.5	6.8	6.0	6.0	6.6	5.5	4.6	3.2	2.9	24	7.8	2.9	5.5
5/27/08	5.0	3.5	3.8	3.8	3.9	4.6	5.5	5.2	4.8	5.8	6.5	7.8	7.4	11.1	9.3	12.6	11.8	19.3	8.0	4.3	2.3	2.7	2.4	5.1	24	19.3	2.3	6.5
5/28/08	5.6	3.1	5.5	2.2	2.0	2.0	3.5	6.2	8.1	8.9	7.5	9.6	9.6	11.4	10.0	8.0	6.1	5.6	3.9	4.7	4.5	4.0	3.4	3.9	24	11.4	2.0	5.8
5/29/08	3.7	4.7	4.3	3.6	3.6	6.3	4.5	4.6	4.1	4.4	6.4	6.9	6.8	10.3	14.7	37.2	50.0	25.1	23.6	6.1	9.2	3.3	2.9	6.3	24	50.0	2.9	10.5
5/30/08	9.2	7.4	4.6	3.3	7.3	6.3	2.7	4.8	5.8	6.5	8.1	8.0	7.7	9.1	6.5	6.5	9.4	6.2	5.6	3.9	5.7	7.5	33.6	4.6	24	33.6	2.7	7.5
5/31/08	2.7	2.5	1.6	1.8	1.8	2.3	3.3	4.9	6.3	8.4	12.1	11.2	10.6	11.7	14.4	11.8	13.2	14.5	7.4	6.5	2.4	2.1	3.5	1.9	24	14.5	1.6	6.6
hr max	9.2	27.9	17.6	10.9	7.3	6.3	8.7	46.8	42.2	48.9	58.5	46.3	66.1	59.5	41.7	38.5	50.0	27.4	23.6	7.6	12.9	10.7	33.6	12.4				
hr min	1.7	1.2	1.0	1.0	1.2	1.1	1.7	3.1	4.1	4.0	3.7	3.8	4.1	3.8	4.2	4.2	4.7	4.3	3.9	2.6	1.5	0.9	1.8	1.9				
average	3.8	4.8	4.4	3.5	3.3	3.7	4.4	6.8	7.5	9.2	12.1	11.0	11.9	10.9	10.6	11.0	11.0	9.0	6.0	4.4	4.5	3.9	4.7	4.2				

monthly max hr	monthly min hr	monthly ave hr
66.1	0.9	6.9
5/7/08	5/5/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

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May-08
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	3.7	3.6	3.3	4.8	3.8	4.3	4.1	4.5	4.0	4.3	4.0	4.3	4.3	4.9	4.4	4.2	4.2	4.4	4.6	4.1	4.9	4.8	4.5	4.5	24	4.9	3.3	4.3
5/2/08	4.3	4.1	4.2	4.0	4.4	4.2	4.4	4.1	4.1	3.8	3.6	3.4	4.3	5.6	4.6	4.4	4.4	3.9	3.5	2.7	2.5	3.9	4.5	4.2	24	5.6	2.5	4.0
5/3/08	3.3	4.5	4.5	2.1	1.1	1.1	1.2	6.4	10.3	12.4	12.3	14.1	10.5	11.5	12.5	11.6	8.8	8.6	5.6	2.2	1.7	1.0	1.9	2.3	24	14.1	1.0	6.3
5/4/08	1.3	1.3	1.2	1.7	3.7	2.8	2.2	4.4	5.2	6.2	7.3	9.3	10.3	11.3	10.3	10.3	9.0	7.3	3.9	3.4	3.6	3.3	2.2	2.9	24	11.3	1.2	5.2
5/5/08	0.8	11.9	4.1	3.8	2.8	1.6	2.0	7.9	9.6	8.2	11.6	11.1	13.4	13.4	12.6	15.8	14.2	10.5	6.4	3.6	1.7	1.4	1.8	4.7	24	15.8	0.8	7.3
5/6/08	2.1	2.5	2.1	2.0	1.5	3.7	5.4	7.0	7.0	7.7	9.5	7.6	12.6	12.7	15.2	12.7	19.1	8.8	5.6	3.7	3.2	2.8	3.0	4.5	24	19.1	1.5	6.8
5/7/08	4.1	2.8	2.5	2.1	1.1	1.5	1.8	7.0	19.0	35.5	53.8	33.0	55.8	47.4	27.3	34.4	36.0	27.4	7.2	3.3	11.2	3.3	2.7	3.0	24	55.8	1.1	17.6
5/8/08	3.5	4.8	4.2	3.2	3.2	3.6	4.6	3.9	4.4	4.0	2.9	3.3	3.7	3.5	3.7	4.3	4.1	4.2	4.2	3.9	3.3	4.7	4.2	3.8	24	4.8	2.9	3.9
5/9/08	5.4	4.1	5.0	3.8	3.2	3.7	4.5	5.4	5.2	4.0	5.4	5.9	7.1	7.2	8.5	6.2	8.9	6.8	4.5	2.6	3.9	1.6	2.8	2.3	24	8.9	1.6	4.9
5/10/08	2.0	1.9	1.7	1.7	3.2	5.5	4.4	4.2	4.2	3.4	3.5	5.1	3.9	4.1	5.6	5.4	6.0	4.3	3.6	2.8	1.2	4.2	5.2	2.4	24	6.0	1.2	3.7
5/11/08	1.4	1.1	5.1	2.3	2.0	2.1	2.3	1.8	4.4	6.8	9.9	9.4	9.0	8.5	8.3	9.4	6.7	5.1	3.9	2.0	1.5	2.0	1.7	1.4	24	9.9	1.1	4.5
5/12/08	1.8	2.1	2.1	1.8	1.7	1.8	2.6	4.4	4.9	8.3	47.9	26.8	16.2	7.6	6.1	6.0	6.7	5.9	4.7	3.5	2.9	2.6	3.5	2.8	24	47.9	1.7	7.3
5/13/08	2.7	2.1	2.3	3.1	2.2	5.1	5.5	5.1	6.4	6.1	7.2	6.7	6.7	6.8	7.3	9.9	8.6	7.5	7.0	5.6	6.5	4.2	4.1	14.5	24	14.5	2.1	6.0
5/14/08	3.9	3.1	1.9	1.7	2.1	2.4	1.8	3.4	4.4	5.9	6.4	9.9	11.7	12.4	8.9	13.2	8.6	15.8	4.4	7.0	8.9	10.7	5.7	5.1	24	15.8	1.7	6.6
5/15/08	2.2	2.4	2.1	2.5	3.3	4.9	7.0	6.6	6.5	8.4	9.6	12.3	12.4	8.3	12.3	12.1	8.5	6.4	6.0	3.0	1.8	2.1	1.4	2.9	24	12.4	1.4	6.0
5/16/08	3.2	1.8	0.9	0.8	1.6	2.0	3.3	5.0	5.3	6.5	6.6	6.6	8.4	10.2	8.2	5.9	6.7	5.2	3.8	2.5	1.7	1.3	2.5	1.7	24	10.2	0.8	4.2
5/17/08	2.2	1.9	1.2	1.2	1.3	1.6	1.7	4.4	5.0	5.6	8.3	7.6	8.8	7.0	8.3	8.1	8.2	5.3	3.8	2.7	3.0	3.6	1.5	3.1	24	8.8	1.2	4.4
5/18/08	4.5	2.3	1.4	2.1	2.5	1.1	2.1	6.0	7.8	9.1	10.6	14.1	14.9	12.3	11.6	11.4	7.8	6.7	3.0	2.3	1.5	1.4	2.2	3.3	24	14.9	1.1	5.9
5/19/08	2.1	2.9	3.4	1.9	1.6	4.1	8.6	5.8	5.0	5.8	4.8	7.5	5.1	4.6	5.0	5.8	5.3	4.8	4.9	3.5	2.9	1.9	1.8	1.8	24	8.6	1.6	4.2
5/20/08	1.9	1.7	4.8	6.3	5.8	7.2	9.7	35.9	35.2	50.2	42.5	29.3	36.6	15.1	22.3	26.5	17.7	12.0	6.1	3.6	4.8	2.4	2.2	1.3	24	50.2	1.3	15.9
5/21/08	2.0	1.2	2.3	2.2	1.0	2.1	4.2	5.3	4.8	5.8	6.4	5.6	7.8	7.3	6.5	5.9	4.1	4.0	3.3	3.1	2.3	2.7	3.1	3.3	24	7.8	1.0	4.0
5/22/08	3.4	3.2	3.0	3.7	3.5	2.4	3.5	3.5	3.8	3.5	4.4	4.7	4.8	5.9	4.6	5.1	5.1	3.8	4.0	3.0	2.7	3.2	3.0	3.6	24	5.9	2.4	3.8
5/23/08	4.2	6.0	4.0	4.1	4.9	4.3	5.0	5.7	5.2	3.9	3.9	4.0	4.2	4.5	3.8	4.4	4.7	4.4	3.9	4.2	4.6	4.5	4.4	4.0	24	6.0	3.8	4.5
5/24/08	3.5	3.7	4.5	9.9	4.2	3.9	3.7	4.6	4.1	3.2	3.5	3.6	4.7	3.2	4.3	3.5	6.0	6.7	3.0	2.4	2.5	3.7	5.1	3.6	24	9.9	2.4	4.2
5/25/08	2.1	5.2	3.2	2.3	2.7	1.9	2.7	4.7	4.5	5.8	6.5	6.5	8.4	7.6	8.9	6.6	6.1	6.0	5.0	4.2	2.7	2.7	2.6	3.7	24	8.9	1.9	4.7
5/26/08	4.8	4.5	3.7	3.8	4.0	4.3	3.5	3.9	4.1	5.6	5.9	6.3	7.4	7.1	6.3	5.7	6.0	4.9	5.1	5.4	4.4	4.2	2.5	1.2	24	7.4	1.2	4.8
5/27/08	1.8	2.5	3.5	3.2	2.9	3.8	4.8	4.3	4.1	4.6	5.5	6.9	6.3	10.0	8.8	12.6	10.5	16.7	7.5	2.9	1.8	1.7	4.2	4.9	24	16.7	1.7	5.7
5/28/08	2.8	1.5	3.2	1.5	2.5	2.1	2.4	4.9	7.8	7.8	6.5	8.6	8.4	10.3	9.4	8.0	5.3	4.5	3.4	4.0	3.6	3.4	3.1	3.1	24	10.3	1.5	4.9
5/29/08	2.7	4.0	3.4	2.4	2.0	4.4	3.5	4.1	4.1	4.1	6.1	5.9	5.9	10.3	13.0	35.6	47.5	25.9	22.3	4.7	9.0	4.2	2.2	5.3	24	47.5	2.0	9.7
5/30/08	6.9	4.0	9.9	3.4	6.7	4.7	3.1	4.4	6.0	6.6	7.1	6.6	7.1	7.8	5.8	6.1	8.9	6.1	4.3	2.9	5.2	7.2	18.9	4.3	24	18.9	2.9	6.4
5/31/08	2.0	1.9	2.7	2.2	1.5	1.2	2.2	4.8	5.7	7.6	10.8	9.5	10.1	11.7	13.3	11.0	12.9	12.8	6.5	5.1	2.2	1.5	3.6	2.0	24	13.3	1.2	6.0
hr max	6.9	11.9	9.9	9.9	6.7	7.2	9.7	35.9	35.2	50.2	53.8	33.0	55.8	47.4	27.3	35.6	47.5	27.4	22.3	7.0	11.2	10.7	18.9	14.5				
hr min	0.8	1.1	0.9	0.8	1.0	1.1	1.2	1.8	3.8	3.2	2.9	3.3	3.7	3.2	3.7	3.5	4.1	3.8	3.0	2.0	1.2	1.0	1.4	1.2				
average	3.0	3.2	3.3	3.0	2.8	3.2	3.8	5.9	6.8	8.4	10.8	9.5	10.7	9.7	9.3	10.4	10.2	8.3	5.3	3.5	3.7	3.3	3.6	3.6				

monthly max hr	monthly min hr	monthly ave hr
55.8	0.8	6.1
5/7/08	5/5/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

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mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.48	0.65	0.59	0.57	0.65	0.59	0.67	0.70	0.89	0.94	0.94	1.05	1.12	1.13	1.28	1.26	1.26	1.06	0.99	1.00	1.00	1.03	1.09	1.13	24	1.28	0.48	0.92
5/2/08	1.15	1.22	1.31	1.33	1.27	1.12	1.12	1.05	0.94	1.10	1.01	1.09	1.16	1.33	0.95	1.04	1.22	1.14	0.95	0.69	0.45	0.30	0.40	0.22	24	1.33	0.22	0.98
5/3/08	0.26	0.20	0.29	0.16	0.15	0.13	0.16	0.16	0.18	0.14	0.11	0.23	0.24	0.28	0.24	0.30	0.26	0.24	0.30	0.20	0.18	0.16	0.19	0.13	24	0.30	0.11	0.20
5/4/08	0.15	0.12	0.16	0.14	0.13	0.16	0.24	0.19	0.27	0.23	0.22	0.26	0.33	0.37	0.37	0.34	0.30	0.29	0.20	0.14	0.12	0.14	0.21	0.19	24	0.37	0.12	0.22
5/5/08	0.21	0.20	0.14	0.12	0.15	0.20	0.20	0.22	0.18	0.22	0.26	0.19	0.19	0.25	0.31	0.28	0.23	0.20	0.19	0.13	0.12	0.12	0.12	0.12	24	0.31	0.12	0.19
5/6/08	0.22	0.18	0.20	0.19	0.17	0.16	0.22	0.23	0.23	0.28	0.22	0.24	0.24	0.26	0.18	0.44	0.29	0.18	0.27	0.53	0.58	0.53	0.36	0.22	24	0.58	0.16	0.28
5/7/08	0.26	0.25	0.28	0.24	0.27	0.19	0.17	0.20	0.19	0.23	0.14	0.20	0.17	0.19	0.18	0.21	0.22	0.28	0.32	0.27	0.32	0.43	0.46	0.47	24	0.47	0.14	0.26
5/8/08	0.42	0.38	0.38	0.47	0.60	0.67	0.75	0.66	0.56	0.65	0.82	0.76	0.72	0.75	0.67	0.66	0.63	0.57	0.51	0.44	0.40	0.39	0.28	0.26	24	0.82	0.26	0.56
5/9/08	0.22	0.19	0.17	0.21	0.24	0.24	0.32	0.30	0.50	0.65	0.61	0.48	0.40	0.37	0.38	0.37	0.34	0.37	0.39	0.34	0.28	0.34	0.30	0.15	24	0.65	0.15	0.34
5/10/08	0.23	0.29	0.36	0.33	0.34	0.59	0.64	0.73	0.66	0.82	0.86	0.81	0.91	0.88	0.86	0.81	0.77	0.71	0.55	0.40	0.27	0.26	0.21	0.15	24	0.91	0.15	0.56
5/11/08	0.10	0.12	0.09	0.11	0.10	0.11	0.14	0.15	0.18	0.17	0.27	0.34	0.38	0.38	0.41	0.38	0.39	0.48	0.58	0.53	0.66	0.74	0.79	0.78	24	0.79	0.09	0.35
5/12/08	0.78	0.85	0.87	0.76	0.80	0.56	0.44	0.32	0.32	0.18	0.13	0.15	0.21	0.35	0.37	0.49	0.57	0.55	0.35	0.31	0.23	0.15	0.17	0.14	24	0.87	0.13	0.42
5/13/08	0.16	0.15	0.20	0.22	0.24	0.29	0.47	0.49	0.48	0.44	0.43	0.56	0.44	0.44	0.49	0.39	0.38	0.37	0.34	0.27	0.15	0.15	0.12	0.12	24	0.56	0.12	0.32
5/14/08	0.12	0.13	0.17	0.21	0.20	0.27	0.20	0.24	0.36	0.31	0.32	0.33	0.36	0.38	0.36	0.23	0.23	0.36	0.27	0.16	0.13	0.13	0.17	0.17	24	0.38	0.12	0.24
5/15/08	0.15	0.13	0.14	0.18	0.19	0.14	0.19	0.23	0.27	0.30	0.28	0.35	0.35	0.35	0.40	0.44	0.45	0.44	0.37	0.19	0.14	0.16	0.12	0.08	24	0.45	0.08	0.25
5/16/08	0.12	0.11	0.12	0.14	0.15	0.17	0.16	0.22	0.21	0.27	0.33	0.40	0.28	0.40	0.60	0.84	0.79	0.66	0.59	0.35	0.31	0.20	0.12	0.14	24	0.84	0.11	0.32
5/17/08	0.19	0.22	0.22	0.22	0.22	0.23	0.24	0.32	0.26	0.36	0.43	0.56	0.76	0.82	0.82	0.91	0.85	1.01	0.92	0.43	0.26	0.31	0.30	0.21	24	1.01	0.19	0.46
5/18/08	0.22	0.26	0.25	0.18	0.17	0.27	0.18	0.40	0.43	0.36	0.35	0.30	0.36	0.39	0.29	0.40	0.52	0.59	0.67	0.55	0.48	0.45	0.45	0.34	24	0.67	0.17	0.37
5/19/08	0.46	0.35	0.31	0.46	0.45	0.31	0.22	0.20	0.31	0.39	0.48	0.78	1.21	1.13	1.37	1.39	1.48	1.37	1.13	0.89	0.52	0.39	0.42	0.22	24	1.48	0.20	0.68
5/20/08	0.17	0.15	0.13	0.12	0.12	0.15	0.13	0.11	0.15	0.19	0.19	0.24	0.21	0.27	0.31	0.38	0.34	0.42	0.38	0.31	0.30	0.31	0.30	0.33	24	0.42	0.11	0.24
5/21/08	0.33	0.34	0.41	0.37	0.38	0.42	0.55	0.57	0.78	0.79	0.73	0.81	0.83	0.81	0.80	0.82	0.75	0.71	0.57	0.55	0.41	0.51	0.58	0.64	24	0.83	0.33	0.60
5/22/08	0.56	0.51	0.59	0.55	0.49	0.61	0.58	0.38	0.40	0.47	0.68	0.68	0.72	0.64	0.81	1.08	1.09	0.88	0.74	0.58	0.59	0.60	0.68	0.75	24	1.09	0.38	0.65
5/23/08	0.91	0.75	0.83	1.12	1.10	0.78	0.77	0.85	1.03	1.15	1.14	1.18	1.20	1.06	1.13	1.28	1.31	1.02	0.99	0.98	0.91	0.94	0.85	0.97	24	1.31	0.75	1.01
5/24/08	0.93	0.97	1.23	1.74	1.46	1.28	1.44	1.25	1.10	1.14	1.09	0.96	0.89	0.92	0.98	0.86	0.74	0.63	0.81	0.68	0.56	0.47	0.31	0.24	24	1.74	0.24	0.95
5/25/08	0.23	0.26	0.33	0.26	0.20	0.16	0.19	0.26	0.28	0.33	0.32	0.36	0.37	0.45	0.42	0.50	0.55	0.51	0.45	0.42	0.38	0.26	0.23	0.30	24	0.55	0.16	0.33
5/26/08	0.42	0.48	0.46	0.47	0.42	0.43	0.45	0.57	0.51	0.53	0.47	0.74	0.73	0.65	0.67	0.60	0.58	0.61	0.54	0.46	0.44	0.34	0.33	0.27	24	0.74	0.27	0.51
5/27/08	0.12	0.26	0.38	0.33	0.40	0.38	0.46	0.50	0.52	0.54	0.57	0.52	0.51	0.39	0.46	0.38	0.40	0.36	0.34	0.37	0.26	0.19	0.16	0.13	24	0.57	0.12	0.37
5/28/08	0.12	0.12	0.13	0.13	0.12	0.12	0.19	0.35	0.37	0.39	0.41	0.47	0.48	0.46	0.44	0.60	0.69	0.64	0.61	0.53	0.45	0.53	0.49	0.53	24	0.69	0.12	0.39
5/29/08	0.52	0.51	0.39	0.44	0.42	0.35	0.63	0.65	0.66	0.67	0.48	0.45	0.43	0.32	0.23	0.21	0.14	0.22	0.23	0.17	0.18	0.22	0.23	0.13	24	0.67	0.13	0.37
5/30/08	0.12	0.12	0.18	0.21	0.26	0.19	0.20	0.25	0.22	0.35	0.40	0.46	0.49	0.50	0.43	0.39	0.35	0.28	0.24	0.16	0.14	0.57	0.24	0.16	24	0.57	0.12	0.29
5/31/08	0.24	0.22	0.23	0.19	0.19	0.25	0.25	0.27	0.35	0.19	0.23	0.28	0.25	0.20	0.31	0.26	0.32	0.23	0.22	0.20	0.13	0.12	0.11	0.11	24	0.35	0.11	0.22
hr max	1.15	1.22	1.31	1.74	1.46	1.28	1.44	1.25	1.10	1.15	1.14	1.18	1.21	1.33	1.37	1.39	1.48	1.37	1.13	1.00	1.00	1.03	1.09	1.13	monthly	monthly	monthly	
hr min	0.10	0.11	0.09	0.11	0.10	0.11	0.13	0.11	0.15	0.14	0.11	0.15	0.17	0.19	0.18	0.21	0.14	0.18	0.19	0.13	0.12	0.12	0.11	0.08	max hr	min hr	ave hr	
average	0.34	0.34	0.37	0.39	0.39	0.37	0.41	0.42	0.44	0.48	0.48	0.52	0.55	0.55	0.57	0.60	0.59	0.56	0.52	0.43	0.37	0.37	0.35	0.32	1.74	0.08	0.45	
																									5/24/08	5/15/08		

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.23	0.32	0.22	0.17	0.29	0.29	0.28	0.30	0.58	0.47	0.43	0.38	0.58	0.51	0.69	0.66	0.66	0.55	0.55	0.51	0.46	0.55	0.56	0.47	24	0.69	0.17	0.45
5/2/08	0.58	0.63	0.68	0.76	0.76	0.52	0.61	0.57	0.48	0.76	0.59	0.63	0.72	0.82	0.52	0.64	0.66	0.60	0.62	0.46	0.41	0.27	0.33	0.22	24	0.82	0.22	0.58
5/3/08	0.25	0.17	0.30	0.24	0.07	0.26	0.32	0.16	0.07	0.16	0.10	0.15	0.15	0.24	0.16	0.33	0.21	0.26	0.47	0.46	0.58	0.51	0.50	0.27	24	0.58	0.07	0.27
5/4/08	0.11	0.43	0.58	0.25	0.25	0.38	0.41	0.18	0.23	0.12	0.10	0.21	0.23	0.30	0.38	0.34	0.25	0.31	0.18	0.21	0.11	0.42	0.60	0.55	24	0.60	0.10	0.30
5/5/08	0.48	0.31	0.07	0.06	0.50	0.50	0.32	0.24	0.18	0.17	0.28	0.12	0.14	0.24	0.26	0.27	0.23	0.10	0.27	0.24	0.32	0.37	0.27	0.21	24	0.50	0.06	0.26
5/6/08	0.27	0.25	0.07	-0.13	0.30	0.05	0.23	0.10	0.16	0.10	0.05	0.29	0.27	0.27	0.19	0.31	0.23	0.18	0.27	0.38	0.36	0.35	0.19	0.12	24	0.38	-0.13	0.20
5/7/08	0.06	0.07	0.16	0.22	0.33	0.20	0.08	0.01	0.12	0.14	0.11	0.02	0.13	0.24	-0.07	0.05	0.02	0.25	0.22	0.17	0.18	0.29	0.29	0.27	24	0.33	-0.07	0.15
5/8/08	0.22	0.21	0.18	0.23	0.39	0.41	0.43	0.43	0.34	0.33	0.47	0.41	0.44	0.40	0.45	0.33	0.39	0.35	0.34	0.28	0.24	0.21	0.15	0.13	24	0.47	0.13	0.32
5/9/08	0.08	0.06	0.09	0.08	0.11	0.10	0.15	0.10	0.36	0.35	0.31	0.27	0.10	0.17	0.12	0.15	0.14	0.14	0.25	0.29	0.27	0.33	0.28	0.05	24	0.36	0.05	0.18
5/10/08	0.11	0.20	0.24	0.23	0.18	0.33	0.37	0.41	0.32	0.36	0.38	0.31	0.59	0.49	0.42	0.47	0.52	0.49	0.28	0.29	0.34	0.25	0.18	0.17	24	0.59	0.11	0.33
5/11/08	0.05	0.02	0.01	0.04	0.06	0.02	0.02	0.20	0.22	0.26	0.23	0.28	0.23	0.18	0.21	0.15	0.08	0.22	0.46	0.55	0.68	0.66	0.72	0.78	24	0.78	0.01	0.26
5/12/08	0.76	0.81	0.79	0.72	0.75	0.59	0.37	0.11	0.28	0.21	0.21	0.10	0.14	0.19	0.18	0.34	0.25	0.28	0.31	0.22	0.21	0.16	0.26	0.20	24	0.81	0.10	0.35
5/13/08	0.26	0.26	0.28	0.24	0.26	0.24	0.27	0.26	0.26	0.30	0.08	0.44	0.14	0.17	0.20	0.20	0.28	0.16	0.23	0.11	0.06	0.04	0.03	0.03	24	0.44	0.03	0.20
5/14/08	0.01	0.18	0.50	0.52	0.31	0.12	-0.13	0.12	0.20	0.09	0.16	0.15	0.19	0.35	0.25	0.12	0.23	0.42	0.26	0.17	0.12	0.17	0.32	0.39	24	0.52	-0.13	0.22
5/15/08	0.34	0.36	0.30	0.25	0.30	0.10	0.08	0.12	0.20	0.18	0.02	0.31	0.17	0.13	0.20	0.33	0.28	0.26	0.20	0.15	0.05	0.05	0.05	0.02	24	0.36	0.02	0.19
5/16/08	0.01	0.02	0.02	0.02	0.46	0.51	0.37	0.34	0.23	0.29	0.31	0.34	0.21	0.21	0.32	0.60	0.50	0.44	0.49	0.32	0.41	0.30	0.16	0.26	24	0.60	0.01	0.30
5/17/08	0.46	0.50	0.43	0.45	0.43	0.33	0.24	0.22	0.19	0.15	0.34	0.25	0.48	0.29	0.60	0.70	0.55	0.62	0.57	0.36	0.33	0.20	0.18	0.11	24	0.70	0.11	0.37
5/18/08	0.06	0.18	0.14	0.06	0.12	0.03	0.14	0.31	0.28	0.13	0.11	0.15	0.20	0.09	0.12	0.23	0.21	0.46	0.46	0.40	0.39	0.41	0.39	0.33	24	0.46	0.03	0.23
5/19/08	0.54	0.47	0.38	0.57	0.51	0.25	0.39	0.34	0.30	0.26	0.38	0.43	0.73	0.50	0.69	0.72	0.45	0.30	0.13	0.08	0.08	0.02	0.10	0.08	24	0.73	0.02	0.36
5/20/08	0.02	0.01	-0.01	-0.01	-0.01	0.03	-0.01	-0.04	-0.15	-0.14	0.15	0.09	0.20	-0.05	0.24	0.24	0.17	0.12	0.16	0.17	0.31	0.35	0.35	0.35	24	0.35	-0.15	0.11
5/21/08	0.44	0.39	0.55	0.57	0.66	0.72	0.52	0.62	0.82	0.79	0.55	0.60	0.86	0.76	0.70	0.75	0.76	0.69	0.53	0.58	0.45	0.51	0.49	0.58	24	0.86	0.39	0.62
5/22/08	0.50	0.56	0.50	0.43	0.40	0.51	0.39	0.28	0.31	0.44	0.62	0.70	0.80	0.53	0.75	1.11	1.14	1.04	0.80	0.59	0.59	0.64	0.68	0.75	24	1.14	0.28	0.63
5/23/08	0.74	0.96	0.84	1.00	1.18	0.84	0.83	0.91	1.27	1.48	1.28	1.37	1.52	1.36	1.24	1.51	1.64	1.37	1.36	1.21	1.11	1.27	1.06	1.32	24	1.64	0.74	1.19
5/24/08	1.27	1.26	1.42	2.08	2.03	1.83	2.14	1.89	1.70	1.77	1.72	1.46	1.33	1.46	1.45	1.31	1.07	0.88	1.25	1.17	1.17	1.08	0.77	0.85	24	2.14	0.77	1.43
5/25/08	0.93	0.87	1.12	0.99	0.86	0.51	0.14	0.15	0.04	0.06	0.13	0.21	0.24	0.49	0.26	0.27	0.45	0.43	0.24	0.21	0.13	0.19	0.19	0.12	24	1.12	0.04	0.38
5/26/08	-0.07	-0.19	-0.14	-0.13	0.02	-0.12	-0.09	-0.08	-0.22	0.04	-0.17	-0.21	-0.21	-0.25	-0.08	-0.18	-0.09	-0.03	0.01	0.08	0.04	0.07	0.10	0.02	24	0.10	-0.25	-0.08
5/27/08	-0.02	-0.06	-0.15	-0.09	-0.04	0.04	0.06	0.13	0.11	0.16	0.21	0.35	0.32	0.27	0.36	0.41	0.12	0.25	0.20	0.02	-0.05	-0.03	0.00	0.04	24	0.41	-0.15	0.11
5/28/08	0.23	0.25	0.22	0.24	0.25	0.25	0.30	0.31	0.34	0.36	0.35	0.56	0.69	0.52	0.56	0.73	0.88	0.79	0.87	0.75	0.69	0.76	0.76	0.81	24	0.88	0.22	0.52
5/29/08	0.76	0.68	0.56	0.64	0.64	0.44	0.84	0.90	0.85	0.79	0.60	0.60	0.48	0.30	0.23	0.10	0.00	0.15	0.19	0.19	0.00	0.02	-0.03	0.00	24	0.90	-0.03	0.41
5/30/08	-0.01	-0.01	0.31	0.39	0.37	0.19	0.35	0.27	0.06	0.22	0.05	0.15	-0.16	-0.02	-0.11	-0.23	-0.03	0.45	0.20	0.08	0.12	0.01	0.09	0.02	24	0.45	-0.23	0.12
5/31/08	0.20	0.12	0.05	0.03	0.05	0.13	0.08	-0.05	-0.01	-0.10	0.21	0.01	-0.01	-0.03	0.19	0.08	0.19	0.02	-0.01	0.00	0.03	0.02	-0.03	-0.01	24	0.21	-0.10	0.05
hr max	1.27	1.26	1.42	2.08	2.03	1.83	2.14	1.89	1.70	1.77	1.72	1.46	1.52	1.46	1.45	1.51	1.64	1.37	1.36	1.21	1.17	1.27	1.06	1.32				
hr min	-0.07	-0.19	-0.15	-0.13	-0.04	-0.12	-0.13	-0.08	-0.22	-0.14	-0.17	-0.21	-0.21	-0.25	-0.11	-0.23	-0.09	-0.03	-0.01	0.00	-0.05	-0.03	-0.03	-0.01				
average	0.32	0.33	0.35	0.36	0.41	0.34	0.34	0.32	0.33	0.35	0.33	0.36	0.38	0.36	0.38	0.42	0.40	0.40	0.40	0.35	0.33	0.34	0.32	0.31				

monthly	monthly	monthly
max hr	min hr	ave hr
2.14	-0.25	0.35
5/24/08	5/26/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5/1/08	0.95	1.12	0.96	0.74	0.98	0.85	1.04	1.05	1.46	1.26	1.25	1.25	1.62	1.69	1.99	1.80	1.80	1.61	1.64	1.72	1.55	1.75	1.77	1.83
5/2/08	1.84	1.99	2.01	2.13	1.92	1.59	1.86	1.84	1.75	2.33	2.12	2.36	2.43	2.52	2.03	2.19	2.38	2.33	2.25	1.98	1.67	1.45	1.65	1.28
5/3/08	1.33	1.12	1.30	1.12	1.15	1.10	0.95	0.55	0.14	0.42	0.35	0.47	0.42	0.59	0.42	0.62	0.49	0.65	0.92	0.83	1.00	1.17	1.01	0.89
5/4/08	0.93	1.00	1.14	0.86	0.83	0.79	0.91	0.80	0.53	0.37	0.40	0.56	0.55	0.78	0.85	0.87	0.69	0.73	0.53	0.58	0.52	0.91	1.30	1.15
5/5/08	1.26	1.04	0.48	0.64	0.94	1.00	0.94	0.72	0.37	0.23	0.48	0.21	0.37	0.47	0.58	0.69	0.50	0.35	0.50	0.46	0.51	0.44	0.19	0.32
5/6/08	0.79	1.00	0.62	-0.88	-0.50	0.12	0.74	0.50	0.15	0.35	0.11	0.35	0.49	0.63	0.35	1.06	0.72	0.60	0.93	1.44	1.57	1.49	0.96	0.60
5/7/08	0.56	0.56	0.82	0.82	0.95	0.77	0.52	0.26	0.15	0.06	0.11	0.05	0.10	0.45	-0.26	0.20	-0.09	0.26	0.15	0.08	0.25	0.85	0.96	0.86
5/8/08	0.63	0.57	0.63	0.82	0.98	1.04	1.01	0.90	0.74	0.71	1.02	0.97	0.92	0.79	0.81	0.66	0.67	0.68	0.62	0.53	0.47	0.45	0.31	0.30
5/9/08	0.20	0.08	0.18	0.24	0.38	0.39	0.33	0.21	0.49	0.53	0.45	0.29	0.09	0.13	0.13	0.14	0.15	0.14	0.28	0.38	0.18	0.00	0.43	0.26
5/10/08	0.28	0.01	0.59	0.59	0.57	1.05	1.13	1.27	1.25	1.54	1.80	1.63	1.86	1.81	1.68	1.83	1.92	1.79	1.48	1.27	1.30	1.17	1.05	0.98
5/11/08	0.75	0.51	0.34	0.43	0.48	0.44	0.34	0.38	0.24	0.45	0.12	0.44	0.31	0.40	0.26	0.18	-0.14	-0.32	0.53	0.98	1.39	1.42	1.47	1.54
5/12/08	1.40	1.36	1.37	1.20	1.22	0.92	0.06	0.13	0.73	0.32	0.17	0.21	0.32	0.90	0.77	1.17	1.10	1.19	1.03	1.00	0.87	0.82	0.83	0.79
5/13/08	0.88	0.89	0.94	0.92	1.00	0.87	1.01	1.07	0.89	0.99	0.73	1.28	0.85	0.92	0.87	0.78	0.69	0.60	0.68	0.57	0.47	0.35	0.17	-0.01
5/14/08	-0.16	0.24	0.45	0.54	0.58	0.64	0.55	-0.40	-0.46	-0.02	0.29	0.21	0.17	0.51	0.49	0.20	0.39	1.13	0.74	0.38	0.21	0.23	0.29	0.62
5/15/08	0.79	0.76	0.92	1.03	1.04	0.97	0.77	0.61	0.59	0.62	0.40	0.78	0.62	0.60	0.79	0.91	1.02	0.97	0.87	0.73	0.74	0.80	0.58	0.35
5/16/08	0.30	0.48	0.71	1.00	1.12	1.06	1.04	1.05	0.74	0.68	0.71	0.76	0.68	0.88	1.25	1.81	1.76	1.56	1.53	1.39	1.48	1.43	1.21	1.22
5/17/08	1.16	1.34	1.50	1.54	1.53	1.43	1.36	1.07	0.73	0.76	1.11	1.11	1.67	1.48	1.88	1.91	1.85	2.15	2.15	1.48	1.40	1.02	0.98	0.78
5/18/08	0.60	0.80	0.75	0.56	0.44	0.08	0.14	0.36	0.30	-0.01	-0.03	0.08	0.13	-0.04	-0.05	0.17	0.34	0.69	0.78	0.90	1.05	1.24	1.08	0.84
5/19/08	1.01	0.77	0.73	1.00	0.27	0.34	0.74	1.06	1.05	0.93	1.24	1.68	2.37	2.08	2.38	2.59	2.62	2.62	2.25	1.94	1.32	1.01	0.88	0.61
5/20/08	0.38	0.41	0.19	0.20	0.26	0.47	0.25	0.12	-0.17	-0.15	0.23	0.50	0.57	0.31	0.51	0.56	0.40	0.32	0.37	0.56	0.73	0.97	1.00	1.08
5/21/08	0.97	1.07	1.15	1.07	1.09	1.20	0.72	0.60	0.80	0.74	0.51	0.66	0.96	0.86	0.78	0.86	0.85	0.95	0.85	0.85	0.86	0.98	1.00	1.10
5/22/08	0.98	1.11	1.00	0.89	0.77	1.15	0.76	0.58	0.53	0.68	0.98	0.62	0.83	0.67	0.86	1.23	1.36	1.06	0.92	0.82	1.04	1.04	1.24	1.36
5/23/08	1.42	1.16	1.35	1.76	1.58	1.06	1.04	0.94	1.14	1.31	1.09	1.25	1.46	1.26	1.07	1.56	1.54	1.17	1.24	1.22	1.20	1.16	1.06	1.36
5/24/08	1.34	1.32	1.68	2.49	1.95	1.73	1.77	1.46	1.36	1.39	1.33	1.18	1.11	1.04	1.01	0.97	0.77	0.27	1.07	1.22	1.27	0.39	0.99	1.17
5/25/08	1.37	1.29	1.48	1.32	1.23	0.98	1.03	0.98	0.74	0.71	0.69	1.03	1.05	1.30	1.02	1.07	1.44	1.48	1.32	1.35	1.50	1.20	1.26	1.43
5/26/08	1.21	1.38	1.31	1.22	1.34	1.10	1.17	1.29	1.20	1.28	1.05	1.34	1.33	1.14	1.11	0.93	1.02	1.00	0.83	0.68	0.67	0.51	0.57	0.70
5/27/08	0.34	0.65	0.96	0.90	0.88	0.66	0.62	0.63	0.60	0.63	0.71	0.54	0.40	0.33	0.31	0.34	0.40	0.45	0.31	0.69	0.75	0.63	0.46	0.20
5/28/08	0.17	-0.04	-0.03	-0.05	-0.04	0.01	0.11	0.19	0.17	0.05	-0.05	0.25	0.24	0.24	0.26	0.54	0.67	0.60	0.69	0.55	0.44	0.51	0.47	0.68
5/29/08	0.69	0.53	0.54	0.57	0.56	0.56	0.78	0.75	0.54	0.61	0.35	0.31	0.32	0.16	0.10	0.13	0.03	0.28	0.09	0.54	0.57	0.73	0.68	0.45
5/30/08	0.22	0.38	0.12	0.42	0.92	0.81	0.99	0.75	0.59	0.95	1.10	1.16	0.96	1.17	1.03	0.73	0.83	0.73	0.62	0.59	0.67	1.70	0.60	0.85
5/31/08	1.34	1.50	1.40	1.35	1.33	1.36	1.18	0.89	0.70	0.36	0.65	0.49	0.51	0.45	0.70	0.59	0.86	0.46	0.57	0.69	0.59	0.55	0.53	0.44
hr max	1.84	1.99	2.01	2.49	1.95	1.73	1.86	1.84	1.75	2.33	2.12	2.36	2.43	2.52	2.38	2.59	2.62	2.62	2.25	1.98	1.67	1.75	1.77	1.83
hr min	-0.16	-0.04	-0.03	-0.88	-0.50	0.01	0.06	-0.40	-0.46	-0.15	-0.05	0.05	0.09	-0.04	-0.26	0.13	-0.14	-0.32	0.09	0.08	0.18	0.00	0.17	-0.01
average	0.84	0.85	0.89	0.89	0.90	0.86	0.83	0.73	0.65	0.68	0.69	0.77	0.83	0.86	0.84	0.94	0.94	0.92	0.93	0.92	0.91	0.92	0.87	0.84

valid hr count	daily max hr	daily min hr	daily ave hr
24	1.99	0.74	1.40
24	2.52	1.28	2.00
24	1.33	0.14	0.79
24	1.30	0.37	0.77
24	1.26	0.19	0.57
24	1.57	-0.88	0.59
24	0.96	-0.26	0.39
24	1.04	0.30	0.72
24	0.53	0.00	0.25
24	1.92	0.01	1.24
24	1.54	-0.32	0.54
24	1.40	0.06	0.83
24	1.28	-0.01	0.77
24	1.13	-0.46	0.33
24	1.04	0.35	0.76
24	1.81	0.30	1.08
24	2.15	0.73	1.39
24	1.24	-0.05	0.47
24	2.62	0.27	1.40
24	1.08	-0.17	0.42
24	1.20	0.51	0.90
24	1.36	0.53	0.94
24	1.76	0.94	1.27
24	2.49	0.27	1.26
24	1.50	0.69	1.18
24	1.38	0.51	1.06
24	0.96	0.20	0.56
24	0.69	-0.05	0.28
24	0.78	0.03	0.45
24	1.70	0.12	0.79
24	1.50	0.36	0.81

monthly max hr	monthly min hr	monthly ave hr
2.62	-0.88	0.84
5/19/08	5/6/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.46	0.61	0.59	0.53	0.60	0.56	0.58	0.61	0.77	0.80	0.77	0.83	0.86	0.86	0.85	0.89	0.89	0.85	0.83	0.79	0.77	0.85	0.81	0.90	24	0.90	0.46	0.74
5/2/08	0.87	0.81	0.79	0.80	0.74	0.74	0.73	0.75	0.67	0.79	0.76	0.81	0.79	0.85	0.69	0.75	0.82	0.77	0.74	0.57	0.31	0.20	0.30	0.21	24	0.87	0.20	0.68
5/3/08	0.18	0.18	0.24	0.20	0.18	0.16	0.22	0.27	0.36	0.44	0.50	0.59	0.58	0.61	0.59	0.57	0.54	0.48	0.51	0.30	0.18	0.21	0.23	0.15	24	0.61	0.15	0.35
5/4/08	0.16	0.12	0.14	0.14	0.18	0.17	0.30	0.36	0.40	0.45	0.49	0.58	0.61	0.61	0.57	0.55	0.51	0.42	0.28	0.09	0.03	0.13	0.22	0.21	24	0.61	0.03	0.32
5/5/08	0.23	0.27	0.09	0.05	0.15	0.20	0.26	0.33	0.38	0.46	0.54	0.59	0.63	0.58	0.57	0.54	0.44	0.39	0.30	0.10	0.04	0.00	0.01	0.00	24	0.63	0.00	0.30
5/6/08	0.11	0.10	0.11	0.12	0.13	0.09	0.20	0.20	0.25	0.37	0.36	0.46	0.57	0.52	0.53	0.45	0.33	0.22	0.25	0.47	0.49	0.44	0.22	0.12	24	0.57	0.09	0.30
5/7/08	0.13	0.14	0.20	0.15	0.14	0.12	0.14	0.25	0.35	0.44	0.44	0.49	0.51	0.52	0.53	0.49	0.45	0.35	0.26	0.13	0.13	0.31	0.36	0.39	24	0.53	0.12	0.31
5/8/08	0.31	0.30	0.29	0.39	0.45	0.49	0.52	0.50	0.46	0.47	0.53	0.49	0.52	0.51	0.47	0.44	0.45	0.39	0.37	0.32	0.27	0.27	0.20	0.17	24	0.53	0.17	0.40
5/9/08	0.15	0.10	0.12	0.15	0.17	0.19	0.25	0.25	0.41	0.46	0.43	0.42	0.40	0.36	0.35	0.31	0.26	0.27	0.29	0.23	0.18	0.22	0.20	0.09	24	0.46	0.09	0.26
5/10/08	0.16	0.21	0.25	0.24	0.25	0.47	0.49	0.56	0.56	0.62	0.69	0.63	0.69	0.67	0.67	0.65	0.64	0.59	0.54	0.35	0.17	0.20	0.14	0.12	24	0.69	0.12	0.44
5/11/08	0.09	0.08	0.10	0.14	0.11	0.13	0.14	0.26	0.34	0.46	0.50	0.56	0.56	0.59	0.56	0.55	0.52	0.54	0.49	0.39	0.48	0.55	0.56	0.59	24	0.59	0.08	0.39
5/12/08	0.61	0.62	0.66	0.59	0.62	0.53	0.47	0.37	0.38	0.31	0.37	0.35	0.42	0.51	0.54	0.55	0.55	0.52	0.40	0.34	0.23	0.17	0.18	0.15	24	0.66	0.15	0.44
5/13/08	0.15	0.17	0.25	0.25	0.27	0.30	0.44	0.44	0.43	0.47	0.51	0.61	0.57	0.58	0.56	0.45	0.43	0.38	0.31	0.22	0.08	0.07	0.03	0.02	24	0.61	0.02	0.33
5/14/08	0.02	0.04	0.11	0.13	0.14	0.17	0.25	0.38	0.48	0.46	0.49	0.56	0.58	0.56	0.56	0.47	0.46	0.52	0.38	0.16	0.09	0.14	0.16	0.15	24	0.58	0.02	0.31
5/15/08	0.13	0.11	0.13	0.19	0.18	0.14	0.24	0.36	0.41	0.49	0.54	0.54	0.54	0.48	0.57	0.54	0.41	0.43	0.37	0.14	0.10	0.09	0.10	0.10	24	0.57	0.09	0.31
5/16/08	0.03	0.07	0.14	0.18	0.20	0.27	0.29	0.42	0.47	0.46	0.56	0.60	0.59	0.63	0.63	0.66	0.63	0.54	0.50	0.31	0.19	0.17	0.16	0.19	24	0.66	0.03	0.37
5/17/08	0.24	0.25	0.26	0.28	0.29	0.30	0.35	0.45	0.44	0.51	0.57	0.69	0.69	0.69	0.67	0.66	0.67	0.71	0.66	0.36	0.15	0.17	0.10	0.11	24	0.71	0.10	0.43
5/18/08	0.12	0.15	0.13	0.11	0.09	0.11	0.16	0.33	0.43	0.47	0.52	0.52	0.56	0.55	0.52	0.50	0.47	0.43	0.49	0.42	0.32	0.34	0.38	0.24	24	0.56	0.09	0.35
5/19/08	0.43	0.29	0.21	0.40	0.35	0.26	0.26	0.34	0.46	0.55	0.58	0.76	0.77	0.74	0.78	0.79	0.81	0.80	0.70	0.60	0.39	0.17	0.18	0.15	24	0.81	0.15	0.49
5/20/08	0.12	0.07	0.06	0.13	0.08	0.11	0.10	0.33	0.47	0.53	0.52	0.55	0.55	0.59	0.56	0.49	0.42	0.37	0.29	0.17	0.16	0.16	0.17	0.16	24	0.59	0.06	0.30
5/21/08	0.16	0.18	0.30	0.25	0.26	0.36	0.44	0.50	0.56	0.62	0.61	0.57	0.67	0.64	0.55	0.56	0.52	0.51	0.44	0.42	0.33	0.40	0.45	0.48	24	0.67	0.16	0.45
5/22/08	0.45	0.40	0.43	0.44	0.33	0.46	0.44	0.29	0.27	0.34	0.49	0.48	0.53	0.50	0.63	0.72	0.70	0.59	0.54	0.38	0.39	0.45	0.49	0.56	24	0.72	0.27	0.47
5/23/08	0.66	0.56	0.54	0.75	0.81	0.61	0.56	0.59	0.69	0.74	0.70	0.69	0.70	0.66	0.69	0.81	0.83	0.67	0.66	0.65	0.67	0.69	0.58	0.66	24	0.83	0.54	0.67
5/24/08	0.63	0.64	0.78	0.94	0.85	0.76	0.82	0.75	0.72	0.67	0.69	0.63	0.60	0.65	0.66	0.61	0.58	0.56	0.57	0.43	0.38	0.34	0.25	0.22	24	0.94	0.22	0.61
5/25/08	0.20	0.23	0.29	0.24	0.19	0.22	0.35	0.55	0.56	0.59	0.62	0.67	0.70	0.76	0.71	0.73	0.72	0.66	0.60	0.55	0.49	0.34	0.36	0.45	24	0.76	0.19	0.49
5/26/08	0.49	0.53	0.49	0.46	0.45	0.46	0.45	0.49	0.49	0.54	0.52	0.62	0.68	0.60	0.57	0.52	0.49	0.50	0.46	0.36	0.38	0.26	0.22	0.20	24	0.68	0.20	0.47
5/27/08	0.05	0.19	0.34	0.30	0.31	0.30	0.42	0.43	0.49	0.48	0.49	0.40	0.41	0.37	0.36	0.39	0.45	0.37	0.25	0.31	0.14	0.10	0.09	0.05	24	0.49	0.05	0.31
5/28/08	0.01	0.02	0.05	0.08	0.04	0.07	0.18	0.28	0.41	0.45	0.49	0.53	0.59	0.59	0.55	0.51	0.51	0.49	0.49	0.44	0.41	0.43	0.41	0.42	24	0.59	0.01	0.35
5/29/08	0.42	0.41	0.34	0.34	0.29	0.29	0.45	0.50	0.51	0.48	0.42	0.44	0.39	0.35	0.28	0.17	0.27	0.28	0.24	0.24	0.13	0.11	0.11	0.06	24	0.51	0.06	0.31
5/30/08	0.06	0.08	0.13	0.23	0.32	0.19	0.31	0.41	0.43	0.53	0.59	0.61	0.65	0.62	0.56	0.54	0.48	0.42	0.37	0.23	0.11	0.56	0.25	0.16	24	0.65	0.06	0.37
5/31/08	0.34	0.29	0.28	0.23	0.24	0.30	0.37	0.39	0.45	0.46	0.53	0.60	0.56	0.60	0.57	0.56	0.47	0.45	0.28	0.28	0.11	0.11	0.06	0.05	24	0.60	0.05	0.36
hr max	0.87	0.81	0.79	0.94	0.85	0.76	0.82	0.75	0.77	0.80	0.77	0.83	0.86	0.86	0.85	0.89	0.89	0.85	0.83	0.79	0.77	0.85	0.81	0.90				
hr min	0.01	0.02	0.05	0.05	0.04	0.07	0.10	0.20	0.25	0.31	0.36	0.35	0.39	0.35	0.28	0.17	0.26	0.22	0.24	0.09	0.03	0.00	0.01	0.00				
average	0.26	0.27	0.29	0.30	0.30	0.31	0.36	0.42	0.47	0.51	0.54	0.58	0.60	0.59	0.58	0.56	0.54	0.50	0.45	0.35	0.27	0.28	0.26	0.24				

monthly	monthly	monthly
max hr	min hr	ave hr
0.94	0.00	0.41
5/24/08	5/5/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
5/1/08	0.56	0.73	0.72	0.72	0.79	0.76	0.77	0.89	1.00	1.01	0.88	1.01	1.12	1.21	1.31	1.28	1.28	1.20	1.22	1.10	1.13	1.19	1.23	1.25	24	1.31	0.56	1.02
5/2/08	1.28	1.20	1.15	1.16	1.17	1.07	1.06	1.00	0.95	1.14	1.09	1.14	1.20	1.25	1.04	1.13	1.28	1.11	1.01	0.71	0.38	0.32	0.40	0.35	24	1.28	0.32	0.98
5/3/08	0.26	0.30	0.29	0.22	0.13	0.21	0.20	0.37	0.54	0.83	1.01	1.06	1.12	1.10	1.08	1.12	1.01	0.90	0.65	0.29	0.11	0.22	0.24	0.25	24	1.12	0.11	0.56
5/4/08	0.21	0.16	0.17	0.25	0.29	0.29	0.30	0.50	0.65	0.80	0.96	1.13	1.19	1.20	1.11	1.03	0.90	0.72	0.41	0.16	0.15	0.20	0.12	0.14	24	1.20	0.12	0.54
5/5/08	0.22	0.61	0.22	0.14	0.17	0.10	0.26	0.43	0.57	0.85	1.06	1.11	1.16	1.16	1.10	0.96	0.84	0.65	0.46	0.19	0.14	0.08	0.16	0.14	24	1.16	0.08	0.53
5/6/08	0.22	0.22	0.23	0.17	0.23	0.23	0.23	0.23	0.32	0.54	0.61	0.83	1.03	0.99	1.09	0.76	0.66	0.32	0.32	0.56	0.61	0.54	0.29	0.19	24	1.09	0.17	0.48
5/7/08	0.10	0.13	0.21	0.22	0.21	0.19	0.18	0.32	0.57	0.78	0.94	0.92	1.05	0.97	1.09	0.85	0.89	0.62	0.49	0.15	0.26	0.43	0.50	0.50	24	1.09	0.10	0.52
5/8/08	0.42	0.46	0.41	0.45	0.56	0.63	0.70	0.67	0.62	0.66	0.66	0.68	0.71	0.66	0.61	0.64	0.55	0.51	0.51	0.41	0.37	0.35	0.23	0.17	24	0.71	0.17	0.53
5/9/08	0.15	0.13	0.17	0.16	0.15	0.25	0.31	0.35	0.60	0.63	0.68	0.69	0.59	0.60	0.57	0.48	0.41	0.46	0.34	0.26	0.18	0.17	0.16	0.12	24	0.69	0.12	0.36
5/10/08	0.19	0.20	0.24	0.23	0.27	0.61	0.68	0.70	0.73	0.85	0.94	0.90	1.06	0.94	0.99	1.06	0.99	0.84	0.79	0.49	0.21	0.37	0.19	0.18	24	1.06	0.18	0.61
5/11/08	0.09	0.00	0.11	0.06	0.11	0.00	0.00	0.31	0.53	0.78	0.86	0.95	0.97	0.88	0.93	0.92	0.71	0.81	0.59	0.38	0.47	0.58	0.58	0.58	24	0.97	0.00	0.51
5/12/08	0.61	0.67	0.74	0.64	0.72	0.61	0.58	0.42	0.47	0.47	0.65	0.68	0.73	0.84	0.94	1.09	0.96	0.77	0.57	0.47	0.31	0.21	0.19	0.18	24	1.09	0.18	0.61
5/13/08	0.19	0.21	0.25	0.26	0.25	0.44	0.59	0.61	0.65	0.85	0.91	1.16	1.05	1.09	1.04	0.83	0.83	0.74	0.51	0.35	0.14	0.07	0.19	0.02	24	1.16	0.02	0.55
5/14/08	0.07	0.17	0.09	0.08	0.19	0.24	0.17	0.48	0.67	0.72	0.71	0.97	0.97	1.02	1.00	0.82	0.71	0.87	0.60	0.26	0.14	0.28	0.21	0.25	24	1.02	0.07	0.49
5/15/08	0.17	0.11	0.16	0.22	0.18	0.22	0.35	0.45	0.77	0.95	0.99	1.09	1.04	0.89	1.00	1.11	0.67	0.73	0.51	0.19	0.08	0.16	0.08	0.00	24	1.11	0.00	0.51
5/16/08	0.05	0.02	0.00	0.00	0.29	0.16	0.29	0.51	0.64	0.65	1.01	1.04	1.12	1.21	1.12	1.19	1.12	0.90	0.76	0.46	0.27	0.25	0.26	0.20	24	1.21	0.00	0.56
5/17/08	0.17	0.22	0.23	0.26	0.28	0.29	0.38	0.61	0.77	0.92	1.19	1.19	1.29	1.30	1.28	1.26	1.18	1.10	1.00	0.48	0.24	0.25	0.18	0.19	24	1.30	0.17	0.68
5/18/08	0.18	0.30	0.27	0.20	0.14	0.00	0.26	0.54	0.79	0.82	0.92	0.97	1.01	1.03	0.93	0.86	0.84	0.72	0.62	0.50	0.34	0.34	0.44	0.29	24	1.03	0.00	0.55
5/19/08	0.46	0.34	0.26	0.47	0.40	0.41	0.55	0.45	0.67	0.95	1.08	1.34	1.35	1.23	1.33	1.36	1.31	1.30	1.11	0.87	0.48	0.23	0.16	0.15	24	1.36	0.15	0.76
5/20/08	0.07	0.16	0.12	0.09	0.07	0.15	0.18	0.38	0.78	0.80	1.02	1.04	1.22	1.04	1.13	0.95	0.85	0.72	0.50	0.22	0.21	0.20	0.32	0.25	24	1.22	0.07	0.52
5/21/08	0.24	0.38	0.33	0.28	0.21	0.30	0.56	0.80	0.82	1.01	0.98	1.01	1.12	1.14	0.97	0.88	0.73	0.67	0.56	0.50	0.36	0.48	0.54	0.60	24	1.14	0.21	0.64
5/22/08	0.56	0.50	0.52	0.56	0.44	0.50	0.52	0.34	0.34	0.40	0.61	0.73	0.70	0.75	0.93	0.95	0.90	0.83	0.70	0.49	0.46	0.55	0.60	0.71	24	0.95	0.34	0.61
5/23/08	0.86	0.69	0.65	1.00	1.03	0.80	0.75	0.94	1.00	0.82	0.84	0.81	0.91	0.89	0.84	1.02	1.04	0.84	0.81	0.90	0.90	0.87	0.79	0.82	24	1.04	0.65	0.87
5/24/08	0.77	0.78	1.03	1.18	1.09	0.98	0.96	0.92	0.93	0.77	0.82	0.80	0.77	0.74	0.89	0.77	0.73	0.77	0.59	0.40	0.43	0.33	0.32	0.20	24	1.18	0.20	0.75
5/25/08	0.16	0.24	0.18	0.19	0.17	0.32	0.47	0.82	0.85	0.97	1.03	1.20	1.18	1.30	1.14	1.18	1.22	1.06	0.94	0.82	0.65	0.42	0.46	0.68	24	1.30	0.16	0.74
5/26/08	0.78	0.78	0.74	0.69	0.66	0.68	0.70	0.82	0.81	1.04	0.94	1.11	1.21	1.07	0.98	0.89	0.73	0.81	0.67	0.55	0.47	0.34	0.25	0.19	24	1.21	0.19	0.75
5/27/08	0.12	0.14	0.36	0.36	0.39	0.44	0.56	0.58	0.61	0.62	0.73	0.68	0.73	0.63	0.60	0.74	0.80	0.68	0.33	0.35	0.15	0.10	0.08	0.13	24	0.80	0.08	0.45
5/28/08	0.10	0.10	0.11	0.11	0.09	0.10	0.20	0.43	0.69	0.77	0.78	0.91	1.02	1.04	0.98	0.83	0.68	0.56	0.54	0.52	0.47	0.50	0.47	0.50	24	1.04	0.09	0.52
5/29/08	0.47	0.51	0.41	0.34	0.27	0.34	0.53	0.61	0.70	0.65	0.65	0.66	0.61	0.51	0.54	0.26	0.44	0.52	0.37	0.27	0.19	0.16	0.10	0.12	24	0.70	0.10	0.43
5/30/08	0.13	0.11	0.18	0.33	0.42	0.26	0.32	0.57	0.75	0.96	1.18	1.17	1.24	1.21	0.97	0.93	0.87	0.66	0.49	0.27	0.21	0.85	0.43	0.06	24	1.24	0.06	0.61
5/31/08	0.30	0.24	0.16	0.04	0.13	0.30	0.43	0.59	0.72	0.80	1.01	1.10	1.19	1.18	1.13	1.09	0.97	0.86	0.46	0.40	0.04	0.00	0.12	0.07	24	1.19	0.00	0.56
hr max	1.28	1.20	1.15	1.18	1.17	1.07	1.06	1.00	1.00	1.14	1.19	1.34	1.35	1.30	1.33	1.36	1.31	1.30	1.22	1.10	1.13	1.19	1.23	1.25				
hr min	0.05	0.00	0.00	0.00	0.07	0.00	0.00	0.23	0.32	0.40	0.61	0.66	0.59	0.51	0.54	0.26	0.41	0.32	0.32	0.15	0.04	0.00	0.08	0.00				
average	0.33	0.35	0.35	0.36	0.37	0.38	0.45	0.57	0.69	0.80	0.89	0.97	1.02	1.00	0.99	0.94	0.87	0.78	0.63	0.45	0.34	0.36	0.33	0.31				

monthly max hr	monthly min hr	monthly ave hr
1.36	0.00	0.61
5/19/08	5/11/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.56	0.71	0.62	0.68	0.69	0.72	0.71	0.86	1.02	1.06	0.85	0.92	1.08	1.17	1.19	1.19	1.19	1.11	1.11	1.03	1.06	1.08	1.08	1.16	24	1.19	0.56	0.95
5/2/08	1.22	1.09	1.13	1.06	1.09	1.03	0.94	0.96	0.89	0.94	0.96	0.91	1.17	1.07	0.87	0.98	1.12	0.92	0.81	0.53	0.27	0.22	0.26	0.34	24	1.22	0.22	0.87
5/3/08	0.20	0.28	0.15	0.11	0.07	0.07	0.11	0.35	0.57	0.90	1.20	1.23	1.31	1.37	1.38	1.30	1.21	1.03	0.62	0.22	0.11	0.11	0.11	0.07	24	1.38	0.07	0.59
5/4/08	0.10	0.09	0.11	0.17	0.19	0.13	0.12	0.41	0.53	0.78	1.10	1.26	1.42	1.49	1.32	1.21	1.00	0.75	0.40	0.12	0.15	0.24	0.08	0.15	24	1.49	0.08	0.56
5/5/08	0.09	0.72	0.37	0.19	0.13	0.09	0.11	0.41	0.53	0.89	1.30	1.23	1.39	1.35	1.29	1.14	0.96	0.74	0.55	0.22	0.12	0.08	0.23	0.12	24	1.39	0.08	0.59
5/6/08	0.22	0.28	0.86	0.63	0.70	0.72	0.19	0.51	0.65	0.62	0.68	0.94	1.20	1.19	1.36	0.85	1.01	0.38	0.34	0.52	0.51	0.45	0.27	0.27	24	1.36	0.19	0.64
5/7/08	0.13	0.09	0.16	0.09	0.10	0.15	0.16	0.34	0.57	0.92	1.19	1.11	1.30	1.28	1.26	1.17	1.06	0.74	0.47	0.15	0.39	0.44	0.36	0.41	24	1.30	0.09	0.59
5/8/08	0.41	0.52	0.41	0.31	0.42	0.53	0.64	0.55	0.57	0.61	0.51	0.63	0.67	0.58	0.60	0.66	0.55	0.49	0.51	0.42	0.33	0.32	0.26	0.18	24	0.67	0.18	0.49
5/9/08	0.19	0.11	0.17	0.17	0.13	0.22	0.31	0.36	0.69	0.67	0.76	0.74	0.58	0.55	0.63	0.49	0.41	0.43	0.33	0.16	0.22	0.00	0.17	0.14	24	0.76	0.00	0.36
5/10/08	0.21	0.06	0.11	0.13	0.22	0.53	0.62	0.66	0.63	0.70	0.79	0.81	0.89	0.81	0.93	1.01	0.93	0.70	0.66	0.39	0.13	0.46	0.11	0.16	24	1.01	0.06	0.53
5/11/08	0.10	0.11	0.11	0.12	0.09	0.11	0.10	0.23	0.49	0.97	1.08	1.21	1.29	1.25	1.35	1.25	1.13	0.97	0.37	0.18	0.13	0.23	0.21	0.13	24	1.35	0.09	0.55
5/12/08	0.17	0.23	0.19	0.16	0.20	0.22	0.67	0.78	0.48	0.52	0.74	0.79	0.90	0.97	1.09	1.22	1.04	0.79	0.53	0.43	0.26	0.14	0.08	0.10	24	1.22	0.08	0.53
5/13/08	0.11	0.10	0.09	0.12	0.16	0.41	0.56	0.58	0.59	0.95	0.97	1.27	1.22	1.26	1.15	0.93	0.97	0.85	0.58	0.36	0.17	0.11	0.12	0.05	24	1.27	0.05	0.57
5/14/08	0.20	0.15	0.10	0.07	0.07	0.11	0.21	0.64	0.66	0.93	0.95	1.29	1.27	1.28	1.32	1.04	0.84	0.89	0.60	0.31	0.16	0.30	0.31	0.39	24	1.32	0.07	0.59
5/15/08	0.12	0.09	0.12	0.08	0.10	0.10	0.40	0.42	0.75	1.04	1.16	1.33	1.27	1.03	1.24	1.36	0.76	0.81	0.49	0.21	0.10	0.12	0.14	0.10	24	1.36	0.08	0.56
5/16/08	0.10	0.09	0.14	0.07	0.07	0.13	0.17	0.38	0.56	0.56	1.04	1.14	1.29	1.48	1.27	1.25	1.21	0.88	0.67	0.40	0.22	0.17	0.19	0.08	24	1.48	0.07	0.57
5/17/08	0.09	0.13	0.11	0.10	0.11	0.10	0.17	0.58	0.71	1.01	1.38	1.35	1.47	1.41	1.49	1.41	1.20	1.01	0.88	0.42	0.24	0.23	0.09	0.19	24	1.49	0.09	0.66
5/18/08	0.16	0.26	0.17	0.11	0.11	0.16	0.26	0.52	0.85	0.79	0.86	1.01	1.07	1.00	0.98	0.89	0.82	0.84	0.46	0.32	0.16	0.14	0.31	0.20	24	1.07	0.11	0.52
5/19/08	0.22	0.16	0.15	0.21	0.82	0.90	0.66	0.47	0.66	0.96	1.15	1.48	1.34	1.26	1.32	1.38	1.31	1.16	0.94	0.64	0.35	0.16	0.12	0.21	24	1.48	0.12	0.75
5/20/08	0.10	0.09	0.18	0.13	0.11	0.14	0.25	0.36	0.91	0.97	1.11	1.28	1.46	1.24	1.37	1.10	1.05	0.87	0.55	0.23	0.18	0.12	0.19	0.12	24	1.46	0.09	0.59
5/21/08	0.13	0.19	0.19	0.12	0.09	0.14	0.53	0.79	0.91	1.19	1.16	1.19	1.31	1.37	1.10	1.03	0.74	0.63	0.49	0.43	0.27	0.38	0.49	0.56	24	1.37	0.09	0.64
5/22/08	0.51	0.43	0.41	0.52	0.43	0.32	0.45	0.30	0.32	0.38	0.60	0.74	0.70	0.80	0.95	1.10	0.95	0.82	0.69	0.40	0.34	0.47	0.48	0.64	24	1.10	0.30	0.57
5/23/08	0.83	0.67	0.47	0.91	1.08	0.80	0.77	1.01	1.08	0.88	0.99	0.89	1.00	0.96	0.85	1.11	1.03	0.98	0.82	0.94	1.00	0.96	0.80	0.79	24	1.11	0.47	0.90
5/24/08	0.71	0.79	1.00	1.27	1.16	0.98	1.00	0.97	0.85	0.69	0.70	0.70	0.62	0.37	0.52	0.43	0.60	0.89	0.48	0.26	0.42	0.92	0.75	0.19	24	1.27	0.19	0.72
5/25/08	0.23	0.13	0.11	0.17	0.17	0.14	0.28	0.66	0.84	1.04	1.11	1.22	1.24	1.39	1.24	1.17	1.22	1.09	0.90	0.70	0.48	0.34	0.34	0.57	24	1.39	0.11	0.70
5/26/08	0.70	0.68	0.64	0.58	0.61	0.60	0.59	0.72	0.75	0.98	1.01	1.18	1.28	1.17	1.04	0.93	0.71	0.81	0.64	0.49	0.42	0.34	0.17	0.11	24	1.28	0.11	0.71
5/27/08	0.11	0.19	0.24	0.28	0.25	0.37	0.57	0.54	0.62	0.66	0.86	0.83	0.91	0.79	0.69	0.88	0.97	0.89	0.38	0.21	0.09	0.12	0.16	0.16	24	0.97	0.09	0.49
5/28/08	0.14	0.09	0.07	0.08	0.08	0.03	0.15	0.48	0.78	0.75	0.76	0.83	1.04	1.04	0.94	0.71	0.58	0.42	0.34	0.27	0.28	0.27	0.28	0.22	24	1.04	0.03	0.44
5/29/08	0.22	0.28	0.27	0.14	0.10	0.30	0.47	0.44	0.42	0.48	0.54	0.53	0.48	0.55	0.61	0.34	0.43	0.66	0.44	0.22	0.20	0.11	0.08	0.18	24	0.66	0.08	0.35
5/30/08	0.16	0.11	0.14	0.59	0.43	0.23	0.19	0.49	0.77	1.13	1.34	1.34	1.38	1.40	1.06	1.00	0.89	0.67	0.36	0.23	0.26	0.81	0.55	0.16	24	1.40	0.11	0.65
5/31/08	0.13	0.11	0.10	0.10	0.11	0.11	0.16	0.43	0.70	0.88	1.18	1.22	1.39	1.43	1.31	1.31	1.21	0.96	0.53	0.33	0.11	0.09	0.13	0.11	24	1.43	0.09	0.59
hr max	1.22	1.09	1.13	1.27	1.16	1.03	1.00	1.01	1.08	1.19	1.38	1.48	1.47	1.49	1.49	1.41	1.31	1.16	1.11	1.03	1.06	1.08	1.08	1.16		monthly max hr	monthly min hr	monthly ave hr
hr min	0.09	0.06	0.07	0.07	0.07	0.03	0.10	0.23	0.32	0.38	0.51	0.53	0.48	0.37	0.52	0.34	0.41	0.38	0.33	0.12	0.09	0.00	0.08	0.05		1.49	0.00	0.61
average	0.28	0.29	0.29	0.31	0.33	0.34	0.40	0.55	0.69	0.83	0.97	1.05	1.13	1.11	1.09	1.03	0.94	0.81	0.58	0.38	0.29	0.32	0.29	0.27		5/4/08	5/9/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	9.3	8.9	8.3	8.0	7.2	7.0	7.3	7.7	9.0	10.1	10.4	11.1	10.5	10.3	9.9	9.8	9.8	9.8	9.8	10.0	9.8	7.7	7.2	6.8	24	11.1	6.8	9.0
5/2/08	6.4	5.7	5.3	4.5	3.3	2.5	2.0	1.7	1.4	0.9	0.8	0.6	1.8	3.3	6.1	8.3	9.8	9.2	8.0	5.5	2.8	0.7	1.1	-0.5	24	9.8	-0.5	3.8
5/3/08	-1.3	-2.3	-2.1	-3.0	-3.5	-3.0	-0.4	2.6	4.9	7.5	9.8	11.3	12.5	13.5	14.3	14.9	14.9	14.3	12.6	9.5	5.4	4.7	4.5	2.9	24	14.9	-3.5	6.0
5/4/08	2.8	0.8	0.3	0.7	1.1	1.3	5.1	8.0	11.3	14.3	16.0	17.4	18.0	18.8	18.7	19.0	19.0	18.5	17.7	13.9	10.4	8.9	8.9	8.2	24	19.0	0.3	10.8
5/5/08	8.0	6.4	5.0	3.8	2.8	5.7	8.4	11.6	14.1	17.5	19.6	20.4	21.3	22.0	22.6	22.5	22.5	22.4	21.4	17.6	13.1	10.7	9.9	9.7	24	22.6	2.8	14.1
5/6/08	8.3	7.9	7.5	8.1	8.2	9.2	11.2	11.9	14.0	16.0	18.3	21.3	23.2	23.2	23.4	18.6	15.2	14.1	16.0	13.5	9.8	8.1	6.3	5.4	24	23.4	5.4	13.3
5/7/08	5.4	4.4	3.7	3.1	2.6	2.4	3.9	6.9	8.9	10.9	12.6	14.0	15.1	16.1	16.8	17.2	17.5	17.4	16.2	14.1	12.0	11.6	10.8	10.2	24	17.5	2.4	10.6
5/8/08	9.6	8.2	6.9	5.9	5.1	4.7	4.3	4.4	4.9	5.5	5.5	5.7	6.0	6.1	6.4	6.5	6.5	6.5	6.3	6.0	6.0	5.7	5.5	5.3	24	9.6	4.3	6.0
5/9/08	5.3	5.0	5.1	5.3	5.3	5.4	5.7	6.0	6.4	6.7	7.6	8.1	8.6	9.1	9.4	9.7	9.6	10.2	10.0	8.5	7.8	8.4	8.1	7.8	24	10.2	5.0	7.5
5/10/08	7.4	7.7	7.6	7.4	7.2	5.3	2.6	1.7	1.6	1.5	1.1	1.6	2.9	3.3	5.2	6.4	6.7	6.5	6.3	4.7	2.2	1.2	0.7	0.2	24	7.7	0.2	4.1
5/11/08	0.0	0.6	0.5	-0.4	-0.1	0.2	1.4	4.9	7.6	9.8	11.2	12.3	13.1	14.1	15.0	15.5	15.7	15.8	14.8	12.4	10.7	10.0	9.2	8.8	24	15.8	-0.4	8.5
5/12/08	8.7	8.8	8.9	8.3	8.2	8.0	8.7	9.8	10.9	11.5	12.8	14.0	15.2	15.5	15.3	15.8	15.8	14.6	13.1	12.1	10.6	9.6	9.9	9.6	24	15.8	8.0	11.5
5/13/08	9.2	8.7	8.4	7.1	6.1	5.9	6.0	6.1	6.1	7.7	8.0	9.4	9.7	10.2	11.1	10.1	10.4	10.0	9.7	8.9	5.4	5.1	3.5	2.8	24	11.1	2.8	7.7
5/14/08	1.2	0.6	0.8	1.4	1.4	2.4	5.0	8.1	11.1	13.8	15.4	17.9	18.8	19.3	20.3	19.5	19.7	17.6	15.9	14.7	13.3	12.4	11.7	10.3	24	20.3	0.6	11.4
5/15/08	9.0	7.8	7.4	7.1	6.1	5.8	8.8	10.4	13.8	16.1	17.4	18.4	18.8	18.8	20.7	20.4	18.4	18.4	17.6	14.6	11.1	9.6	9.3	8.5	24	20.7	5.8	13.1
5/16/08	7.8	7.6	7.2	7.8	7.5	7.6	9.0	13.0	15.6	17.6	21.4	23.1	24.9	26.5	27.2	26.7	26.1	25.2	24.0	21.1	17.2	15.4	14.9	14.0	24	27.2	7.2	17.0
5/17/08	13.4	12.9	11.9	11.0	10.7	10.4	11.7	14.2	16.4	18.7	20.4	21.7	22.4	22.5	23.1	23.3	23.2	22.7	21.5	18.6	14.5	12.2	10.4	9.4	24	23.3	9.4	16.6
5/18/08	8.6	6.9	5.8	5.8	5.1	4.0	5.9	10.9	13.4	14.9	16.2	17.6	18.9	20.1	21.1	21.4	21.0	20.1	18.1	16.3	13.8	12.5	12.9	11.8	24	21.4	4.0	13.5
5/19/08	10.2	9.6	8.7	9.2	8.4	8.3	9.1	13.0	16.0	19.3	21.2	23.1	23.5	23.4	23.5	22.9	20.9	19.4	17.3	14.2	11.1	8.6	7.5	6.3	24	23.5	6.3	14.8
5/20/08	5.8	4.6	3.2	4.6	4.4	3.7	6.8	9.2	11.8	13.3	15.1	16.8	17.6	19.0	19.4	19.4	19.2	18.5	17.2	14.4	10.8	8.8	7.9	6.9	24	19.4	3.2	11.6
5/21/08	6.1	5.3	6.3	5.2	5.0	5.3	8.1	9.6	11.7	13.6	14.4	15.2	16.9	17.8	17.5	17.9	17.5	17.1	16.2	15.7	14.1	13.3	13.0	12.5	24	17.9	5.0	12.3
5/22/08	12.1	11.2	11.2	10.9	9.7	8.8	9.0	8.3	9.3	9.4	9.7	10.6	10.4	11.7	14.0	16.1	16.0	15.2	14.5	13.4	12.8	12.7	12.0	11.9	24	16.1	8.3	11.7
5/23/08	12.0	10.5	9.0	9.5	10.0	9.4	9.8	11.8	13.1	12.8	12.6	13.0	13.4	13.6	14.5	15.5	15.2	14.9	14.3	13.5	12.9	12.2	11.9	12.2	24	15.5	9.0	12.4
5/24/08	10.3	9.5	9.2	9.1	9.4	9.5	9.5	9.7	10.2	10.7	11.0	10.9	11.9	13.3	16.1	17.6	19.1	20.1	17.2	15.1	13.7	13.3	12.8	11.6	24	20.1	9.1	12.5
5/25/08	10.3	10.2	10.5	9.3	8.4	8.7	12.1	14.1	15.5	17.4	18.9	19.8	20.4	20.7	20.7	20.7	20.4	19.6	18.2	16.3	13.9	12.3	11.6	10.8	24	20.7	8.4	15.0
5/26/08	10.2	8.3	6.4	5.9	5.2	4.6	4.2	4.4	5.0	5.9	6.8	8.2	8.9	8.8	8.7	8.1	7.5	7.4	7.4	7.7	7.5	6.8	5.7	5.2	24	10.2	4.2	6.9
5/27/08	5.2	5.1	5.1	4.7	4.4	4.4	4.8	5.4	6.2	7.1	8.1	8.4	9.2	9.5	9.5	10.0	8.8	7.7	7.4	6.4	4.9	3.9	3.1	2.7	24	10.0	2.7	6.3
5/28/08	2.8	2.7	2.4	2.0	2.1	2.8	5.8	8.1	9.7	10.2	10.9	11.4	13.3	15.2	15.9	15.4	15.2	14.4	13.7	12.9	12.2	11.5	11.3	11.2	24	15.9	2.0	9.7
5/29/08	11.0	10.9	10.7	10.7	10.5	10.7	11.0	11.7	13.4	14.3	15.6	16.0	15.5	15.9	16.8	17.0	17.5	18.1	18.2	17.6	14.6	12.1	10.8	9.7	24	18.2	9.7	13.8
5/30/08	8.5	8.8	8.6	10.7	12.4	12.5	13.2	15.0	16.6	18.5	19.9	21.3	22.2	22.5	22.1	22.7	22.7	21.9	21.2	20.1	16.1	16.1	14.3	14.0	24	22.7	8.5	16.7
5/31/08	14.1	13.0	13.1	12.5	12.2	12.6	13.4	15.1	17.8	19.6	21.3	22.8	23.4	23.8	24.3	24.3	24.1	23.8	22.3	21.3	17.8	16.8	14.7	14.0	24	24.3	12.2	18.3
hr max	14.1	13.0	13.1	12.5	12.4	12.6	13.4	15.1	17.8	19.6	21.4	23.1	24.9	26.5	27.2	26.7	26.1	25.2	24.0	21.3	17.8	16.8	14.9	14.0				
hr min	-1.3	-2.3	-2.1	-3.0	-3.5	-3.0	-0.4	1.7	1.4	0.9	0.8	0.6	1.8	3.3	5.2	6.4	6.5	6.5	6.3	4.7	2.2	0.7	0.7	-0.5				
average	7.7	7.0	6.5	6.3	6.0	6.0	7.2	8.9	10.6	12.0	13.2	14.3	15.1	15.7	16.4	16.6	16.3	15.9	15.0	13.2	10.9	9.8	9.1	8.4				

monthly max hr	monthly min hr	monthly ave hr
27.2	-3.5	11.2
5/16/08	5/3/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
5/1/08	9.5	9.0	8.4	8.1	7.3	7.0	7.2	7.5	8.6	9.7	10.1	10.6	10.3	10.1	9.6	9.7	9.7	9.8	9.8	10.0	9.8	7.8	7.2	6.8	24	10.6	6.8	8.9
5/2/08	6.5	5.7	5.3	4.5	3.3	2.5	2.0	1.7	1.4	0.8	0.7	0.5	2.0	3.5	6.3	8.3	9.5	9.1	8.1	6.0	3.6	2.1	2.0	0.6	24	9.5	0.5	4.0
5/3/08	-0.1	-0.8	-1.1	-2.1	-2.6	-2.2	-0.4	1.9	4.1	6.5	8.5	9.7	10.8	12.0	12.9	13.6	13.9	13.7	12.5	9.9	6.2	5.6	5.5	4.7	24	13.9	-2.6	5.9
5/4/08	4.6	2.5	2.0	2.4	2.3	2.7	5.3	7.5	10.4	13.2	14.6	15.8	16.5	17.3	17.6	18.1	18.3	18.3	17.8	15.8	14.7	10.8	10.0	9.1	24	18.3	2.0	11.2
5/5/08	8.8	7.6	7.0	7.3	4.7	6.7	8.7	11.2	13.4	16.6	18.5	19.0	19.9	20.7	21.4	21.8	22.0	22.1	21.5	19.4	17.6	16.5	15.2	15.6	24	22.1	4.7	15.1
5/6/08	12.3	11.2	10.8	11.0	11.3	12.0	11.9	12.0	14.0	15.6	17.5	20.3	22.1	22.5	22.4	18.3	15.6	14.1	16.3	14.1	10.2	8.4	7.1	6.9	24	22.5	6.9	14.1
5/7/08	6.3	5.6	4.4	3.8	3.3	3.2	3.9	6.4	8.3	10.3	12.0	13.3	14.2	15.3	16.0	16.5	16.9	17.0	16.2	14.8	13.4	11.9	11.0	10.3	24	17.0	3.2	10.6
5/8/08	9.8	8.5	7.1	6.0	5.2	4.8	4.3	4.4	4.9	5.4	5.3	5.6	5.9	6.0	6.2	6.4	6.4	6.4	6.3	6.1	6.1	5.7	5.5	5.3	24	9.8	4.3	6.0
5/9/08	5.3	5.1	5.1	5.2	5.3	5.4	5.6	5.9	6.4	6.6	7.1	7.5	7.9	8.6	9.0	9.3	9.4	10.0	9.9	8.7	8.1	8.6	8.2	7.9	24	10.0	5.1	7.3
5/10/08	7.7	7.9	7.7	7.4	7.2	5.3	2.6	1.7	1.5	1.3	0.9	1.4	2.5	3.1	4.8	6.0	6.3	6.2	6.3	5.3	3.3	2.3	2.2	1.4	24	7.9	0.9	4.3
5/11/08	1.4	3.2	3.7	1.0	1.2	1.3	1.4	4.4	6.8	8.7	9.8	10.9	11.7	12.8	13.7	14.5	15.1	15.5	14.9	12.8	11.1	10.2	9.4	9.0	24	15.5	1.0	8.5
5/12/08	8.9	9.0	9.0	8.4	8.4	8.1	8.7	9.7	10.7	11.2	12.3	13.4	14.6	14.5	14.1	14.6	14.9	14.3	13.1	12.3	11.2	10.0	10.1	9.8	24	14.9	8.1	11.3
5/13/08	9.4	9.0	8.6	7.4	6.2	5.9	5.9	5.8	5.7	6.7	6.8	8.1	8.1	8.8	9.5	9.4	9.6	9.6	9.5	9.3	7.9	7.8	7.0	6.5	24	9.6	5.7	7.9
5/14/08	5.0	3.6	3.4	2.6	2.9	3.1	5.0	7.7	10.2	13.0	14.4	16.6	17.6	18.1	19.0	18.9	19.2	17.3	15.9	15.0	14.1	13.0	12.3	11.0	24	19.2	2.6	11.6
5/15/08	9.9	9.0	8.7	7.8	6.9	6.7	8.7	9.8	12.8	14.8	16.1	17.0	17.8	18.0	19.3	19.3	18.3	18.2	17.8	16.0	14.1	13.3	13.1	13.2	24	19.3	6.7	13.6
5/16/08	13.3	10.7	8.5	8.7	8.2	7.8	9.0	12.7	14.9	16.9	20.2	21.8	23.5	25.3	26.3	26.1	25.6	25.1	24.3	21.9	18.6	17.0	16.5	14.9	24	26.3	7.8	17.4
5/17/08	14.3	13.6	12.7	11.7	11.3	10.9	11.7	13.7	15.6	17.6	19.3	20.5	21.2	21.3	22.0	22.4	22.7	22.6	21.7	19.4	16.4	14.8	14.0	12.3	24	22.7	10.9	16.8
5/18/08	10.3	8.4	7.6	7.3	7.1	6.5	6.1	10.5	12.6	14.0	15.2	16.5	17.9	19.1	20.2	20.7	20.6	20.0	18.3	16.6	14.4	13.1	13.2	12.2	24	20.7	6.1	13.7
5/19/08	10.6	10.2	9.3	9.6	8.9	8.8	9.3	12.9	15.8	18.7	20.5	22.1	22.7	22.5	22.5	22.1	20.5	19.2	17.4	14.5	11.7	9.7	8.6	7.4	24	22.7	7.4	14.8
5/20/08	7.6	6.9	6.5	5.8	6.2	4.8	6.9	8.9	11.3	12.6	14.3	15.8	16.8	17.8	18.4	18.5	18.5	18.2	17.4	15.5	12.3	10.2	9.4	8.5	24	18.5	4.8	12.0
5/21/08	7.7	6.7	7.0	6.0	5.7	5.7	8.0	9.3	11.1	12.6	13.4	14.1	15.5	16.5	17.1	17.6	17.5	17.2	16.4	16.0	14.5	13.6	13.2	12.8	24	17.6	5.7	12.3
5/22/08	12.3	11.5	11.4	11.0	9.9	8.9	9.1	8.5	9.4	9.4	9.6	10.5	10.3	11.4	13.5	15.5	15.8	15.2	14.6	13.7	13.0	13.0	12.3	12.1	24	15.8	8.5	11.7
5/23/08	12.2	10.8	9.3	9.6	10.2	9.7	9.8	11.6	12.7	12.5	12.3	12.7	13.2	13.5	14.3	15.1	15.0	14.9	14.2	13.7	13.0	12.5	12.1	12.3	24	15.1	9.3	12.4
5/24/08	10.5	9.7	9.5	9.2	9.5	9.5	9.5	9.6	10.2	10.6	10.8	10.9	11.7	13.3	15.5	17.2	18.7	19.9	17.2	15.4	14.0	13.7	13.4	12.4	24	19.9	9.2	12.6
5/25/08	11.3	11.0	11.3	10.1	9.2	9.3	12.2	13.9	14.9	16.4	17.6	18.4	18.8	19.4	19.5	19.7	19.8	19.1	18.1	16.5	14.2	12.7	11.9	11.1	24	19.8	9.2	14.9
5/26/08	10.2	8.3	6.5	5.9	5.2	4.6	4.0	4.1	4.4	5.1	5.9	7.1	7.8	7.9	7.8	7.5	7.1	7.0	7.3	7.8	7.6	7.0	6.1	5.4	24	10.2	4.0	6.6
5/27/08	5.3	5.2	5.2	4.8	4.4	4.4	4.7	5.2	5.9	6.8	7.6	8.0	8.8	9.1	9.2	9.5	8.7	7.8	7.4	6.5	5.8	5.3	5.0	5.0	24	9.5	4.4	6.5
5/28/08	4.9	4.4	3.7	3.4	3.1	3.5	5.8	7.7	8.8	9.5	10.0	10.6	12.1	13.8	14.8	14.8	14.8	14.2	13.6	12.9	12.2	11.5	11.3	11.1	24	14.8	3.1	9.7
5/29/08	11.0	10.9	10.7	10.7	10.5	10.6	10.9	11.4	12.9	13.9	15.1	15.5	15.0	15.4	16.4	16.9	17.2	17.7	18.0	17.7	15.6	13.4	12.3	11.0	24	18.0	10.5	13.8
5/30/08	10.0	10.8	9.1	10.8	12.6	13.3	13.5	14.7	16.0	17.6	18.8	20.1	20.9	21.4	21.6	22.3	22.5	21.5	21.1	20.5	17.9	16.3	15.3	15.7	24	22.5	9.1	16.8
5/31/08	14.7	13.6	13.6	13.0	12.8	13.0	13.4	14.7	17.0	18.8	20.4	21.7	22.4	22.9	23.5	23.8	23.6	23.6	22.7	21.7	19.0	19.4	19.0	18.2	24	23.8	12.8	18.6
hr max	14.7	13.6	13.6	13.0	12.8	13.3	13.5	14.7	17.0	18.8	20.5	22.1	23.5	25.3	26.3	26.1	25.6	25.1	24.3	21.9	19.0	19.4	19.0	18.2				
hr min	-0.1	-0.8	-1.1	-2.1	-2.6	-2.2	-0.4	1.7	1.4	0.8	0.7	0.5	2.0	3.1	4.8	6.0	6.3	6.2	6.3	5.3	3.3	2.1	2.0	0.6				
average	8.8	8.0	7.5	7.0	6.7	6.6	7.2	8.6	10.1	11.4	12.4	13.4	14.2	14.9	15.6	15.9	15.9	15.6	15.0	13.7	12.0	10.9	10.3	9.7				

monthly max hr	monthly min hr	monthly ave hr
26.3	-2.6	11.3
5/16/08	5/3/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	9.6	8.9	8.2	7.9	7.1	6.8	6.9	7.0	8.0	9.0	9.4	9.8	9.7	9.6	9.1	9.2	9.2	9.5	9.5	9.7	9.5	7.5	6.9	6.5	24	9.8	6.5	8.5
5/2/08	6.2	5.4	5.0	4.1	2.9	2.2	1.7	1.5	1.0	0.4	0.3	0.1	1.8	3.2	6.2	8.0	9.0	8.7	7.9	6.3	4.9	3.6	3.1	1.9	24	9.0	0.1	4.0
5/3/08	1.7	0.6	0.7	0.7	0.6	1.0	1.1	1.5	3.3	5.7	7.7	8.8	9.8	11.0	12.0	12.6	13.0	12.9	12.0	10.6	9.2	8.1	8.2	8.7	24	13.0	0.6	6.7
5/4/08	7.9	7.2	6.6	5.7	6.1	8.1	6.7	7.0	9.8	12.4	13.7	14.9	15.5	16.3	16.7	17.2	17.6	17.7	17.5	17.0	16.8	15.1	13.6	11.9	24	17.7	5.7	12.5
5/5/08	11.4	9.5	8.4	9.7	9.9	10.6	10.5	11.0	12.9	15.9	17.6	18.2	19.0	19.8	20.5	21.0	21.2	21.4	21.2	20.6	20.2	20.2	19.3	19.5	24	21.4	8.4	16.2
5/6/08	18.0	16.1	15.0	14.6	14.6	14.8	13.3	13.3	14.5	15.1	16.9	19.5	21.2	21.7	21.7	17.7	15.9	14.8	16.3	14.4	10.4	8.6	8.0	7.9	24	21.7	7.9	15.2
5/7/08	7.4	7.5	6.5	5.3	5.2	4.3	4.4	5.9	7.7	9.7	11.3	12.6	13.5	14.6	15.2	15.8	16.3	16.5	16.0	15.7	15.1	12.5	11.1	10.2	24	16.5	4.3	10.8
5/8/08	9.7	8.5	7.1	5.9	4.9	4.5	4.0	4.0	4.5	4.9	4.9	5.2	5.5	5.5	5.7	6.0	6.0	6.0	5.9	5.8	5.8	5.4	5.2	5.0	24	9.7	4.0	5.7
5/9/08	4.9	4.8	4.8	4.9	4.9	5.0	5.2	5.4	5.9	6.1	6.4	6.8	7.2	7.9	8.4	8.7	8.9	9.5	9.5	8.6	8.6	9.0	8.5	7.9	24	9.5	4.8	7.0
5/10/08	7.9	8.0	7.6	7.4	7.0	4.9	2.2	1.3	1.0	0.8	0.3	0.8	1.8	2.5	4.1	5.4	5.7	5.7	5.9	5.5	4.7	4.0	4.5	4.3	24	8.0	0.3	4.3
5/11/08	5.1	5.6	5.6	5.1	5.3	5.5	5.2	4.9	6.3	7.9	9.0	10.0	10.7	11.7	12.7	13.5	14.2	14.7	14.5	13.3	11.7	10.5	9.6	9.4	24	14.7	4.9	9.3
5/12/08	9.2	9.1	8.9	8.5	8.4	8.0	8.4	9.3	10.3	10.7	11.7	12.8	14.0	13.6	13.2	13.8	14.1	13.7	12.7	12.1	11.3	10.9	10.7	10.3	24	14.1	8.0	11.1
5/13/08	9.9	9.5	8.8	7.4	6.4	5.7	5.5	5.3	4.9	5.9	6.0	7.1	7.1	7.8	8.5	8.7	8.9	9.0	9.0	9.1	8.7	8.4	8.0	7.8	24	9.9	4.9	7.6
5/14/08	7.5	7.0	7.0	6.9	7.4	7.2	7.1	7.2	9.4	12.1	13.6	15.7	16.6	17.1	17.9	18.2	18.5	16.7	15.5	14.9	14.6	14.4	14.2	13.4	24	18.5	6.9	12.5
5/15/08	11.9	12.0	11.1	9.7	9.1	9.1	9.3	9.2	12.1	14.0	15.2	16.1	16.9	17.2	18.3	18.4	17.8	17.7	17.4	16.9	17.0	16.4	16.2	16.2	24	18.4	9.1	14.4
5/16/08	15.9	15.7	15.2	14.5	13.2	12.3	10.8	12.3	14.3	16.2	19.3	21.0	22.6	24.2	25.3	25.1	24.8	24.5	23.9	22.5	21.8	20.6	19.0	18.5	24	25.3	10.8	18.9
5/17/08	17.3	16.7	15.8	14.2	13.3	12.7	12.2	13.2	14.8	16.7	18.3	19.4	20.0	20.1	20.8	21.4	21.9	21.9	21.4	20.1	18.8	17.5	16.1	14.9	24	21.9	12.2	17.5
5/18/08	11.8	9.7	9.2	9.2	9.0	9.3	8.3	10.0	12.0	13.2	14.3	15.8	17.0	18.2	19.4	19.9	19.8	19.4	17.8	16.4	14.9	14.0	13.6	12.5	24	19.9	8.3	13.9
5/19/08	11.1	11.0	10.2	10.4	10.6	10.5	11.4	13.3	15.3	17.8	19.6	21.0	21.6	21.4	21.3	21.0	19.7	18.6	17.0	14.3	12.1	10.9	10.1	8.9	24	21.6	8.9	15.0
5/20/08	8.9	8.5	7.9	8.3	8.7	7.8	8.1	8.5	10.7	12.0	13.6	15.0	16.0	17.0	17.6	17.7	17.9	17.6	17.0	16.3	14.5	12.5	11.4	10.1	24	17.9	7.8	12.7
5/21/08	9.5	8.8	8.1	7.4	7.2	6.9	7.7	8.6	10.3	11.6	12.4	13.3	14.6	15.6	16.4	17.0	17.0	16.8	16.3	16.0	14.9	13.8	13.2	12.8	24	17.0	6.9	12.3
5/22/08	12.3	11.6	11.4	10.9	10.0	9.0	8.8	8.5	9.2	9.2	9.3	10.1	9.8	10.8	13.0	14.7	15.2	14.7	14.3	13.7	13.3	13.1	12.5	12.1	24	15.2	8.5	11.6
5/23/08	12.1	11.0	9.3	9.7	10.2	9.6	9.6	11.1	12.0	11.9	11.6	12.0	12.7	13.0	13.8	14.4	14.5	14.4	13.8	13.4	12.9	12.4	12.0	12.1	24	14.5	9.3	12.1
5/24/08	10.5	9.6	9.3	9.1	9.3	9.2	9.1	9.3	9.8	10.1	10.3	10.5	11.2	12.8	14.8	16.6	18.0	19.2	16.6	15.5	14.4	14.7	15.1	15.0	24	19.2	9.1	12.5
5/25/08	15.3	13.8	13.9	12.8	12.7	12.2	12.8	13.5	14.4	15.6	16.6	17.4	17.7	18.2	18.4	18.8	18.9	18.5	17.6	16.2	14.2	12.9	12.2	11.1	24	18.9	11.1	15.2
5/26/08	9.8	7.9	6.2	5.5	4.8	4.1	3.5	3.5	3.6	4.3	5.0	6.0	6.7	7.0	7.0	6.7	6.5	6.4	6.8	7.4	7.3	6.9	6.2	5.7	24	9.8	3.5	6.0
5/27/08	5.5	5.5	5.0	4.6	4.2	4.2	4.4	4.8	5.4	6.2	7.0	7.4	8.2	8.5	8.7	9.0	8.4	7.5	7.1	6.3	6.4	6.4	6.0	6.5	24	9.0	4.2	6.4
5/28/08	7.2	7.5	7.3	7.5	7.4	7.2	6.8	7.2	8.2	8.7	9.2	9.7	11.2	12.8	13.9	14.0	14.1	13.5	13.1	12.4	11.8	11.1	10.9	10.7	24	14.1	6.8	10.1
5/29/08	10.6	10.5	10.3	10.3	10.2	10.3	10.6	11.0	12.2	13.2	14.4	14.8	14.3	14.8	15.9	16.5	16.7	17.2	17.5	17.4	16.0	14.4	14.1	14.2	24	17.5	10.2	13.6
5/30/08	14.3	14.3	13.7	13.6	13.7	14.8	13.9	14.3	15.4	16.8	17.9	19.0	19.8	20.4	20.7	21.3	21.7	20.8	20.6	20.6	19.5	16.6	16.9	18.7	24	21.7	13.6	17.5
5/31/08	16.4	15.8	15.2	15.6	15.3	13.9	13.3	14.2	16.2	18.0	19.6	20.7	21.7	22.1	22.7	22.9	23.0	22.8	22.4	21.5	21.3	21.5	21.1	20.6	24	23.0	13.3	19.1
hr max	18.0	16.7	15.8	15.6	15.3	14.8	13.9	14.3	16.2	18.0	19.6	21.0	22.6	24.2	25.3	25.1	24.8	24.5	23.9	22.5	21.8	21.5	21.1	20.6				
hr min	1.7	0.6	0.7	0.7	0.6	1.0	1.1	1.3	1.0	0.4	0.3	0.1	1.8	2.5	4.1	5.4	5.7	5.7	5.9	5.5	4.7	3.6	3.1	1.9				
average	10.2	9.6	9.0	8.6	8.4	8.1	7.8	8.3	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.2	15.3	15.1	14.6	13.9	13.0	12.1	11.5	11.1				

monthly	monthly	monthly
max hr	min hr	ave hr
25.3	0.1	11.6
5/16/08	5/2/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	9.60	8.70	8.00	7.60	6.80	6.40	6.50	6.60	7.40	8.40	8.90	9.30	9.20	9.00	8.60	8.70	8.70	9.10	9.10	9.40	9.10	7.10	6.50	6.10	24	9.60	6.10	8.12
5/2/08	5.80	5.00	4.60	3.70	2.50	1.80	1.30	1.00	0.60	0.10	-0.10	-0.20	1.70	3.00	5.90	7.60	8.50	8.20	7.50	6.30	5.50	4.50	3.80	2.60	24	8.50	-0.20	3.80
5/3/08	2.20	1.30	1.30	1.30	1.80	2.40	2.70	1.80	2.90	5.20	7.10	8.20	9.20	10.40	11.30	12.00	12.40	12.40	11.50	10.50	9.80	9.30	9.10	9.00	24	12.40	1.30	6.88
5/4/08	8.80	8.40	8.10	7.30	8.30	8.80	7.90	8.00	9.70	11.90	13.10	14.20	14.80	15.60	16.10	16.60	16.90	17.10	17.00	16.90	16.80	15.70	14.50	12.50	24	17.10	7.30	12.71
5/5/08	12.70	11.00	9.30	10.70	12.40	12.70	12.50	12.00	12.50	15.30	17.00	17.60	18.40	19.20	19.80	20.40	20.70	20.80	20.70	20.30	20.10	20.00	19.80	19.60	24	20.80	9.30	16.48
5/6/08	18.70	18.30	17.60	16.20	16.30	16.80	14.20	14.50	14.70	14.70	16.40	18.90	20.60	21.10	21.10	17.40	16.00	15.40	16.10	14.20	10.20	8.50	8.10	7.90	24	21.10	7.90	15.58
5/7/08	7.40	7.50	7.00	7.00	6.90	6.30	6.20	6.30	7.20	9.20	10.80	12.00	12.90	14.00	14.60	15.20	15.70	15.90	15.50	15.30	14.80	12.70	11.30	10.10	24	15.90	6.20	10.91
5/8/08	9.60	8.40	7.00	5.70	4.80	4.30	3.70	3.70	4.10	4.50	4.50	4.80	5.10	5.10	5.30	5.60	5.60	5.60	5.50	5.40	5.40	5.00	4.80	4.70	24	9.60	3.70	5.34
5/9/08	4.60	4.50	4.50	4.60	4.60	4.70	4.80	4.90	5.40	5.60	5.90	6.30	6.70	7.40	7.80	8.20	8.40	9.00	9.00	8.30	9.00	9.10	8.70	8.10	24	9.10	4.50	6.67
5/10/08	8.00	8.20	7.70	7.60	7.00	4.50	1.70	0.80	0.60	0.40	-0.10	0.50	1.40	2.00	3.60	4.80	5.20	5.20	5.50	5.30	5.20	4.50	5.00	5.10	24	8.20	-0.10	4.15
5/11/08	5.30	5.40	5.60	5.30	5.60	5.80	6.00	5.50	5.80	7.40	8.40	9.30	10.10	11.10	12.10	13.00	13.70	14.20	14.10	13.40	12.40	10.80	10.20	10.30	24	14.20	5.30	9.20
5/12/08	9.70	9.40	8.90	8.60	8.40	8.10	8.30	9.00	9.80	10.20	11.20	12.20	13.40	13.00	12.60	13.20	13.50	13.10	12.20	11.70	11.20	11.20	11.00	11.00	24	13.50	8.10	10.87
5/13/08	10.70	10.20	9.30	7.60	6.60	5.50	5.20	4.90	4.50	5.10	5.30	6.50	6.50	7.30	7.90	8.20	8.40	8.50	8.60	8.70	8.40	8.10	7.90	7.70	24	10.70	4.50	7.40
5/14/08	7.50	7.10	7.10	7.30	7.60	7.40	7.70	7.50	9.00	11.60	13.00	15.10	16.00	16.50	17.30	17.60	17.90	16.10	15.00	14.50	14.20	14.20	14.10	13.50	24	17.90	7.10	12.28
5/15/08	11.90	12.40	11.40	10.50	10.40	11.20	10.60	9.40	11.60	13.40	14.60	15.50	16.30	16.70	17.70	17.80	17.30	17.20	17.00	16.80	16.80	16.50	16.30	16.20	24	17.80	9.40	14.40
5/16/08	15.90	15.60	15.50	15.80	15.80	15.40	14.30	13.80	14.10	15.80	18.70	20.20	21.90	23.60	24.60	24.50	24.10	23.90	23.50	22.50	22.00	21.40	20.30	20.50	24	24.60	13.80	19.32
5/17/08	19.30	18.70	18.20	16.50	15.30	14.20	13.80	13.20	14.30	16.20	17.70	18.70	19.30	19.50	20.10	20.70	21.30	21.40	20.90	20.10	19.30	17.70	16.80	15.50	24	21.40	13.20	17.86
5/18/08	12.10	10.90	10.50	10.10	9.90	9.70	9.40	9.80	11.40	12.60	13.70	15.10	16.40	17.60	18.70	19.30	19.20	18.80	17.40	16.30	15.50	15.50	14.40	13.00	24	19.30	9.40	14.05
5/19/08	12.20	11.80	11.20	11.70	11.70	11.80	13.00	14.40	15.20	17.20	19.00	20.30	20.90	20.70	20.60	20.30	19.10	18.00	16.50	13.90	12.00	10.90	9.90	9.10	24	20.90	9.10	15.06
5/20/08	9.30	9.30	8.70	8.50	8.80	8.10	7.90	8.30	10.10	11.40	13.00	14.50	15.40	16.40	17.00	17.20	17.30	17.10	16.50	16.00	14.80	13.80	12.70	12.00	24	17.30	7.90	12.67
5/21/08	11.40	10.40	9.70	9.10	8.90	8.70	7.70	8.10	9.70	11.00	11.80	12.60	13.80	14.90	15.80	16.30	16.40	16.40	16.00	15.80	14.90	13.90	13.10	12.80	24	16.40	7.70	12.47
5/22/08	12.40	12.10	11.60	10.90	10.00	9.20	8.70	8.50	9.00	8.90	9.10	9.60	9.40	10.30	12.40	14.10	14.60	14.20	13.80	13.50	13.40	13.10	12.60	12.20	24	14.60	8.50	11.40
5/23/08	11.90	10.90	9.50	9.60	9.90	9.40	9.20	10.50	11.50	11.30	11.10	11.50	12.10	12.40	13.20	13.80	13.90	13.90	13.30	12.90	12.50	12.00	11.70	11.70	24	13.90	9.20	11.65
5/24/08	10.20	9.40	9.00	8.80	8.90	8.80	8.70	8.80	9.40	9.60	9.80	10.00	10.80	12.40	14.20	16.00	17.40	18.60	16.30	16.40	15.20	16.90	17.10	17.90	24	18.60	8.70	12.53
5/25/08	18.60	16.80	17.20	16.00	14.90	14.20	13.20	12.80	13.50	14.80	15.90	16.50	16.90	17.40	17.60	17.80	18.00	17.60	16.90	15.80	14.10	13.00	12.20	11.00	24	18.60	11.00	15.53
5/26/08	9.40	7.40	5.70	5.00	4.30	3.60	3.00	3.00	3.10	3.80	4.50	5.40	6.10	6.50	6.40	6.20	5.90	5.90	6.30	6.90	6.90	6.50	6.00	5.80	24	9.40	3.00	5.57
5/27/08	5.70	5.70	5.20	4.50	4.10	3.90	3.90	4.30	4.90	5.70	6.40	6.90	7.60	8.00	8.20	8.40	7.90	7.00	6.70	6.10	6.40	6.60	7.30	7.70	24	8.40	3.90	6.21
5/28/08	7.80	7.70	7.40	7.30	7.40	7.20	6.90	6.70	7.60	8.10	8.60	9.10	10.50	12.20	13.30	13.50	13.50	13.00	12.60	12.00	11.30	10.60	10.40	10.30	24	13.50	6.70	9.79
5/29/08	10.10	10.00	9.90	9.90	10.10	10.20	10.30	10.70	11.70	12.70	13.90	14.20	13.80	14.30	15.40	16.00	16.20	16.70	17.10	17.00	15.70	14.60	14.50	14.60	24	17.10	9.90	13.32
5/30/08	14.40	14.80	14.30	14.20	14.00	15.70	14.60	13.90	14.80	16.10	17.20	18.30	19.10	19.70	20.10	20.70	21.10	20.20	20.20	20.30	19.60	16.60	17.90	18.90	24	21.10	13.90	17.36
5/31/08	17.20	17.40	16.80	17.10	15.80	14.30	14.00	14.10	15.70	17.50	18.90	20.00	21.00	21.50	21.90	22.20	22.30	22.20	21.90	21.30	21.30	21.30	21.00	20.50	24	22.30	14.00	19.05
hr max	19.30	18.70	18.20	17.10	16.30	16.80	14.60	14.50	15.70	17.50	19.00	20.30	21.90	23.60	24.60	24.50	24.10	23.90	23.50	22.50	22.00	21.40	21.00	20.50				
hr min	2.20	1.30	1.30	1.30	1.80	1.80	1.30	0.80	0.60	0.10	-0.10	-0.20	1.40	2.00	3.60	4.80	5.20	5.20	5.50	5.30	5.20	4.50	3.80	2.60				
average	10.66	10.15	9.61	9.23	9.03	8.75	8.32	8.28	9.09	10.18	11.14	12.04	12.82	13.51	14.23	14.62	14.75	14.60	14.20	13.67	13.03	12.31	11.90	11.55				

monthly max hr	monthly min hr	monthly ave hr
24.60	-0.20	11.57
5/16/08	5/2/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.21	0.13	0.06	0.08	0.12	0.02	-0.06	-0.17	-0.40	-0.39	-0.31	-0.47	-0.24	-0.24	-0.25	-0.14	-0.14	0.04	0.00	0.02	0.02	0.05	0.01	0.01	24	0.21	-0.47	-0.09
5/2/08	0.04	0.03	0.01	-0.02	-0.02	-0.01	0.02	0.05	-0.02	-0.09	-0.07	-0.12	0.19	0.18	0.24	0.06	-0.22	-0.10	0.13	0.48	0.85	1.35	0.90	1.07	24	1.35	-0.22	0.21
5/3/08	1.26	1.41	0.92	0.91	0.87	0.81	-0.07	-0.67	-0.80	-1.08	-1.29	-1.52	-1.70	-1.49	-1.39	-1.29	-0.99	-0.63	-0.12	0.40	0.85	0.95	1.05	1.84	24	1.84	-1.70	-0.07
5/4/08	1.85	1.68	1.73	1.63	1.19	1.36	0.23	-0.52	-0.88	-1.14	-1.38	-1.56	-1.52	-1.56	-1.10	-0.90	-0.66	-0.24	0.15	1.90	4.29	1.90	1.07	0.91	24	4.29	-1.56	0.35
5/5/08	0.84	1.16	2.03	3.48	1.96	0.98	0.27	-0.35	-0.72	-0.91	-1.17	-1.39	-1.38	-1.26	-1.22	-0.71	-0.53	-0.36	0.08	1.74	4.55	5.87	5.24	5.98	24	5.98	-1.39	1.01
5/6/08	3.99	3.33	3.33	2.92	3.07	2.74	0.74	0.14	0.02	-0.36	-0.71	-0.99	-1.13	-0.74	-0.99	-0.29	0.42	0.05	0.30	0.56	0.44	0.36	0.77	1.43	24	3.99	-1.13	0.81
5/7/08	0.92	1.26	0.67	0.79	0.77	0.82	0.00	-0.51	-0.54	-0.55	-0.63	-0.70	-0.82	-0.73	-0.77	-0.69	-0.58	-0.40	0.06	0.70	1.32	0.32	0.18	0.12	24	1.32	-0.82	0.04
5/8/08	0.14	0.28	0.22	0.11	0.10	0.09	0.00	-0.03	-0.07	-0.14	-0.14	-0.08	-0.09	-0.14	-0.18	-0.08	-0.06	-0.06	-0.02	0.05	0.02	0.02	0.00	-0.01	24	0.28	-0.18	0.00
5/9/08	0.00	0.07	0.00	-0.03	-0.03	-0.03	-0.05	-0.10	-0.06	-0.13	-0.48	-0.59	-0.65	-0.52	-0.47	-0.37	-0.25	-0.25	-0.06	0.21	0.28	0.16	0.10	0.20	24	0.28	-0.65	-0.13
5/10/08	0.35	0.13	0.07	0.07	0.01	-0.03	-0.03	-0.06	-0.08	-0.15	-0.20	-0.24	-0.38	-0.18	-0.42	-0.41	-0.42	-0.31	-0.04	0.53	1.04	1.17	1.44	1.26	24	1.44	-0.42	0.13
5/11/08	1.43	2.69	3.16	1.32	1.37	1.04	0.01	-0.47	-0.81	-1.12	-1.36	-1.40	-1.42	-1.30	-1.28	-0.98	-0.62	-0.35	0.06	0.39	0.36	0.28	0.23	0.22	24	3.16	-1.42	0.06
5/12/08	0.23	0.18	0.13	0.18	0.14	0.12	-0.04	-0.10	-0.18	-0.37	-0.46	-0.59	-0.59	-1.05	-1.21	-1.16	-0.81	-0.33	-0.01	0.18	0.58	0.44	0.22	0.20	24	0.58	-1.21	-0.18
5/13/08	0.20	0.27	0.24	0.23	0.18	0.02	-0.08	-0.30	-0.35	-0.99	-1.14	-1.31	-1.57	-1.48	-1.53	-0.70	-0.74	-0.40	-0.17	0.38	2.51	2.76	3.50	3.72	24	3.72	-1.57	0.14
5/14/08	3.72	2.97	2.64	1.19	1.52	0.69	0.04	-0.38	-0.83	-0.88	-0.97	-1.33	-1.23	-1.15	-1.36	-0.56	-0.47	-0.31	0.03	0.35	0.75	0.58	0.56	0.74	24	3.72	-1.36	0.26
5/15/08	0.91	1.26	1.27	0.67	0.84	0.96	-0.03	-0.65	-0.96	-1.31	-1.37	-1.37	-1.05	-0.84	-1.46	-1.12	-0.08	-0.13	0.15	1.40	3.05	3.69	3.76	4.75	24	4.75	-1.46	0.51
5/16/08	5.44	3.15	1.27	0.86	0.68	0.24	-0.07	-0.37	-0.63	-0.72	-1.16	-1.21	-1.31	-1.19	-0.95	-0.60	-0.47	-0.09	0.29	0.81	1.43	1.62	1.63	0.97	24	5.44	-1.31	0.40
5/17/08	0.87	0.73	0.78	0.69	0.64	0.52	0.02	-0.44	-0.83	-1.06	-1.16	-1.26	-1.28	-1.22	-1.12	-0.85	-0.51	-0.10	0.22	0.87	1.86	2.61	3.66	2.84	24	3.66	-1.28	0.27
5/18/08	1.75	1.52	1.79	1.46	1.95	2.49	0.16	-0.43	-0.74	-0.91	-1.07	-1.08	-1.01	-0.99	-0.90	-0.65	-0.41	-0.12	0.14	0.29	0.57	0.57	0.29	0.34	24	2.49	-1.08	0.21
5/19/08	0.38	0.57	0.69	0.46	0.46	0.48	0.24	-0.15	-0.20	-0.62	-0.73	-1.02	-0.84	-0.94	-0.99	-0.78	-0.37	-0.15	0.10	0.29	0.55	1.07	1.07	1.08	24	1.08	-1.02	0.03
5/20/08	1.78	2.31	3.27	1.21	1.81	1.03	0.07	-0.30	-0.49	-0.69	-0.78	-0.98	-0.83	-1.17	-1.01	-0.88	-0.72	-0.33	0.14	1.11	1.53	1.39	1.49	1.63	24	3.27	-1.17	0.44
5/21/08	1.57	1.37	0.76	0.78	0.73	0.40	-0.08	-0.34	-0.56	-0.98	-1.05	-1.10	-1.46	-1.21	-0.44	-0.23	0.03	0.13	0.20	0.28	0.39	0.32	0.20	0.21	24	1.57	-1.46	0.00
5/22/08	0.18	0.30	0.20	0.14	0.24	0.15	0.05	0.21	0.08	0.06	-0.02	-0.10	-0.06	-0.31	-0.41	-0.56	-0.20	0.01	0.10	0.27	0.30	0.24	0.29	0.17	24	0.30	-0.56	0.06
5/23/08	0.12	0.38	0.25	0.18	0.23	0.27	0.02	-0.28	-0.41	-0.29	-0.30	-0.31	-0.21	-0.14	-0.18	-0.40	-0.20	-0.07	-0.02	0.12	0.20	0.26	0.18	0.11	24	0.38	-0.41	-0.02
5/24/08	0.25	0.24	0.27	0.15	0.14	0.06	-0.04	-0.03	0.00	-0.15	-0.18	-0.05	-0.13	-0.07	-0.54	-0.37	-0.43	-0.24	-0.06	0.31	0.34	0.37	0.66	0.85	24	0.85	-0.54	0.06
5/25/08	0.98	0.80	0.74	0.78	0.79	0.51	0.13	-0.24	-0.64	-0.96	-1.25	-1.40	-1.58	-1.34	-1.21	-0.95	-0.63	-0.41	-0.09	0.26	0.35	0.30	0.36	0.31	24	0.98	-1.58	-0.18
5/26/08	0.01	0.01	0.12	-0.02	-0.03	-0.07	-0.15	-0.34	-0.64	-0.78	-0.91	-1.18	-1.16	-0.97	-0.87	-0.64	-0.38	-0.33	-0.12	0.03	0.09	0.22	0.32	0.21	24	0.32	-1.18	-0.32
5/27/08	0.19	0.19	0.08	0.09	0.05	0.03	-0.06	-0.12	-0.22	-0.28	-0.42	-0.34	-0.44	-0.46	-0.26	-0.43	-0.06	0.06	0.03	0.11	0.86	1.36	1.89	2.24	24	2.24	-0.46	0.17
5/28/08	2.11	1.65	1.35	1.45	0.94	0.70	-0.04	-0.33	-0.81	-0.76	-0.87	-0.82	-1.22	-1.38	-1.08	-0.57	-0.40	-0.23	-0.10	-0.04	0.00	-0.01	-0.01	-0.02	24	2.11	-1.38	-0.02
5/29/08	-0.04	-0.03	-0.02	-0.03	-0.01	-0.04	-0.09	-0.25	-0.50	-0.47	-0.46	-0.47	-0.46	-0.51	-0.40	-0.10	-0.29	-0.40	-0.18	0.08	1.00	1.37	1.49	1.35	24	1.49	-0.51	0.02
5/30/08	1.54	2.04	0.49	0.19	0.17	0.75	0.30	-0.25	-0.59	-0.85	-1.02	-1.18	-1.31	-1.18	-0.43	-0.50	-0.19	-0.41	-0.09	0.38	1.84	0.20	1.03	1.67	24	2.04	-1.31	0.11
5/31/08	0.64	0.57	0.51	0.58	0.58	0.40	-0.01	-0.40	-0.79	-0.82	-0.90	-1.12	-0.97	-0.91	-0.84	-0.55	-0.49	-0.26	0.39	0.39	1.19	2.59	4.26	4.20	24	4.26	-1.12	0.34
hr max	5.44	3.33	3.33	3.48	3.07	2.74	0.74	0.21	0.08	0.06	-0.02	-0.05	0.19	0.18	0.24	0.06	0.42	0.13	0.39	1.90	4.55	5.87	5.24	5.98				
hr min	-0.04	-0.03	-0.02	-0.03	-0.03	-0.07	-0.15	-0.67	-0.96	-1.31	-1.38	-1.56	-1.70	-1.56	-1.53	-1.29	-0.99	-0.63	-0.18	-0.04	0.00	-0.01	-0.01	-0.02				
average	1.09	1.05	0.94	0.73	0.69	0.56	0.05	-0.26	-0.47	-0.64	-0.77	-0.88	-0.90	-0.85	-0.81	-0.59	-0.38	-0.22	0.05	0.48	1.08	1.11	1.22	1.31				

monthly	monthly	monthly
max hr	min hr	ave hr
5.98	-1.70	0.15
5/5/08	5/3/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5/1/08	0.09	-0.09	-0.19	-0.20	-0.16	-0.26	-0.37	-0.48	-0.68	-0.74	-0.66	-0.80	-0.57	-0.53	-0.52	-0.45	-0.45	-0.33	-0.31	-0.28	-0.32	-0.26	-0.30	-0.30
5/2/08	-0.26	-0.30	-0.32	-0.36	-0.36	-0.34	-0.32	-0.30	-0.36	-0.44	-0.41	-0.32	-0.16	-0.23	-0.11	-0.31	-0.55	-0.44	-0.23	0.27	1.29	1.56	1.04	1.39
5/3/08	1.78	1.43	1.87	2.75	3.15	3.20	1.54	-0.42	-0.74	-0.76	-0.83	-0.92	-0.97	-1.02	-0.93	-0.95	-0.85	-0.74	-0.54	0.69	2.97	2.51	2.66	3.97
5/4/08	3.31	4.69	4.61	3.38	3.76	5.38	1.40	-0.47	-0.70	-0.74	-0.88	-0.91	-0.96	-1.01	-0.87	-0.86	-0.76	-0.58	-0.32	1.17	2.12	4.30	3.62	2.83
5/5/08	2.52	1.94	1.34	2.42	5.14	3.91	1.84	-0.24	-0.56	-0.71	-0.81	-0.83	-0.91	-0.89	-0.89	-0.81	-0.72	-0.66	-0.30	1.22	2.60	3.68	4.17	3.90
5/6/08	5.69	4.86	4.23	3.62	3.37	2.83	1.37	1.22	0.46	-0.55	-0.64	-0.77	-0.86	-0.77	-0.74	-0.56	0.36	0.67	0.04	0.35	0.18	0.19	0.87	1.06
5/7/08	1.03	1.86	2.11	1.46	1.83	1.11	0.54	-0.47	-0.61	-0.66	-0.64	-0.68	-0.77	-0.75	-0.74	-0.71	-0.66	-0.58	-0.22	0.89	1.77	0.62	0.14	-0.05
5/8/08	-0.05	0.00	0.02	-0.15	-0.27	-0.25	-0.31	-0.39	-0.40	-0.45	-0.44	-0.41	-0.44	-0.47	-0.50	-0.46	-0.40	-0.40	-0.38	-0.30	-0.30	-0.30	-0.31	-0.31
5/9/08	-0.33	-0.28	-0.26	-0.32	-0.32	-0.33	-0.43	-0.42	-0.42	-0.49	-0.65	-0.72	-0.68	-0.65	-0.61	-0.56	-0.50	-0.50	-0.43	-0.08	0.54	0.42	0.27	-0.04
5/10/08	0.20	0.13	-0.04	-0.06	-0.21	-0.38	-0.40	-0.41	-0.44	-0.50	-0.53	-0.57	-0.65	-0.53	-0.68	-0.63	-0.62	-0.51	-0.35	0.25	1.42	1.72	2.32	2.87
5/11/08	3.69	2.31	1.93	4.14	4.09	4.23	3.84	0.47	-0.55	-0.76	-0.83	-0.93	-1.04	-1.05	-0.98	-0.97	-0.87	-0.75	-0.37	0.47	0.59	0.30	0.24	0.33
5/12/08	0.27	0.12	-0.05	0.03	-0.03	-0.06	-0.30	-0.40	-0.46	-0.50	-0.59	-0.61	-0.65	-0.85	-0.89	-0.88	-0.84	-0.65	-0.41	-0.19	0.10	0.91	0.58	0.52
5/13/08	0.51	0.47	0.23	0.05	0.12	-0.22	-0.40	-0.54	-0.77	-0.88	-0.83	-0.97	-1.00	-0.96	-1.03	-0.73	-0.70	-0.58	-0.49	-0.19	0.78	0.55	0.98	1.25
5/14/08	2.50	3.36	3.54	4.28	4.49	4.09	2.12	-0.43	-0.78	-0.83	-0.86	-0.91	-0.95	-1.03	-1.04	-0.71	-0.68	-0.62	-0.44	-0.12	0.49	1.43	2.00	2.41
5/15/08	2.02	2.93	2.43	1.92	2.18	2.38	0.55	-0.55	-0.74	-0.79	-0.86	-0.91	-0.88	-0.78	-0.98	-0.90	-0.50	-0.54	-0.36	0.97	2.84	3.13	3.10	3.01
5/16/08	2.62	4.92	6.75	5.85	4.99	4.51	1.88	-0.33	-0.66	-0.73	-0.90	-0.88	-0.92	-1.05	-1.01	-0.94	-0.84	-0.63	-0.31	0.60	3.14	3.58	2.51	3.59
5/17/08	2.99	3.11	3.13	2.56	2.02	1.75	0.44	-0.56	-0.77	-0.90	-0.95	-1.10	-1.21	-1.13	-1.20	-1.05	-0.84	-0.62	-0.33	0.65	2.44	2.67	2.10	2.60
5/18/08	1.43	1.27	1.68	1.90	1.90	2.74	2.16	-0.49	-0.68	-0.80	-0.83	-0.79	-0.88	-0.96	-0.83	-0.82	-0.73	-0.62	-0.43	-0.15	0.51	0.93	0.34	0.30
5/19/08	0.54	0.79	0.88	0.73	1.75	1.79	2.10	0.42	-0.47	-0.81	-0.86	-1.06	-1.10	-1.08	-1.20	-1.08	-0.82	-0.64	-0.41	-0.15	0.38	1.22	1.55	1.55
5/20/08	1.26	1.62	1.43	2.55	2.50	2.99	1.24	-0.43	-0.58	-0.64	-0.73	-0.81	-0.76	-0.84	-0.78	-0.76	-0.67	-0.55	-0.34	0.76	2.21	2.28	2.02	1.58
5/21/08	1.78	2.09	1.09	1.42	1.56	1.15	-0.34	-0.61	-0.81	-0.98	-0.93	-0.85	-0.93	-0.97	-0.70	-0.67	-0.52	-0.35	-0.14	-0.05	0.35	0.21	-0.01	0.00
5/22/08	-0.01	0.13	0.03	-0.10	0.06	0.02	-0.26	-0.03	-0.20	-0.26	-0.34	-0.44	-0.46	-0.55	-0.57	-0.80	-0.58	-0.45	-0.33	0.01	0.24	0.13	0.16	0.03
5/23/08	-0.11	0.16	0.06	0.02	-0.06	-0.06	-0.24	-0.49	-0.69	-0.66	-0.64	-0.65	-0.58	-0.52	-0.56	-0.71	-0.59	-0.46	-0.40	-0.28	-0.18	-0.12	-0.14	-0.23
5/24/08	-0.04	-0.10	-0.14	-0.14	-0.23	-0.30	-0.39	-0.37	-0.37	-0.50	-0.50	-0.40	-0.47	-0.42	-0.76	-0.67	-0.72	-0.71	-0.53	0.11	0.36	1.03	1.68	2.62
5/25/08	3.99	2.84	2.65	2.69	3.45	2.91	0.60	-0.37	-0.51	-0.83	-1.04	-0.96	-1.11	-1.18	-1.04	-0.89	-0.88	-0.65	-0.47	-0.32	0.01	0.26	0.24	0.06
5/26/08	-0.38	-0.41	-0.33	-0.43	-0.44	-0.47	-0.53	-0.62	-0.73	-0.80	-0.87	-1.05	-1.01	-0.83	-0.85	-0.74	-0.64	-0.61	-0.47	-0.36	-0.28	-0.15	0.11	0.28
5/27/08	0.16	0.24	-0.16	-0.18	-0.22	-0.27	-0.39	-0.44	-0.54	-0.59	-0.66	-0.59	-0.61	-0.59	-0.55	-0.59	-0.39	-0.27	-0.30	-0.22	0.56	1.14	0.94	1.52
5/28/08	2.33	3.18	3.65	4.02	4.38	3.77	0.98	-0.51	-0.67	-0.79	-0.86	-0.84	-0.93	-1.06	-0.93	-0.79	-0.75	-0.64	-0.51	-0.44	-0.40	-0.39	-0.38	-0.40
5/29/08	-0.40	-0.40	-0.37	-0.37	-0.27	-0.30	-0.31	-0.41	-0.74	-0.71	-0.67	-0.72	-0.65	-0.59	-0.51	-0.39	-0.52	-0.50	-0.45	-0.23	0.38	1.00	1.83	3.18
5/30/08	4.27	3.46	4.63	2.71	1.15	1.51	0.41	-0.47	-0.60	-0.86	-0.97	-1.05	-1.11	-1.02	-0.91	-0.93	-0.80	-0.72	-0.47	0.05	1.59	0.30	1.59	3.04
5/31/08	1.65	2.17	1.58	2.55	2.52	0.90	-0.05	-0.57	-0.77	-0.73	-0.76	-0.92	-0.72	-0.78	-0.80	-0.89	-0.67	-0.73	-0.27	-0.21	2.34	2.04	2.10	2.40
hr max	5.69	4.92	6.75	5.85	5.14	5.38	3.84	1.22	0.46	-0.26	-0.34	-0.32	-0.16	-0.23	-0.11	-0.31	0.36	0.67	0.04	1.22	3.14	4.30	4.17	3.97
hr min	-0.40	-0.41	-0.37	-0.43	-0.44	-0.47	-0.53	-0.62	-0.81	-0.98	-1.04	-1.10	-1.21	-1.18	-1.20	-1.08	-0.88	-0.75	-0.54	-0.44	-0.40	-0.39	-0.38	-0.40
average	1.45	1.56	1.55	1.57	1.67	1.55	0.58	-0.33	-0.57	-0.69	-0.74	-0.79	-0.80	-0.81	-0.80	-0.75	-0.64	-0.53	-0.36	0.16	0.99	1.19	1.23	1.45

valid hr count	daily max hr	daily min hr	daily ave hr
24	0.09	-0.80	-0.38
24	1.56	-0.55	-0.02
24	3.97	-1.02	0.79
24	5.38	-1.01	1.31
24	5.14	-0.91	1.10
24	5.69	-0.86	1.10
24	2.11	-0.77	0.24
24	0.02	-0.50	-0.32
24	0.54	-0.72	-0.32
24	2.87	-0.68	0.06
24	4.23	-1.05	0.73
24	0.91	-0.89	-0.24
24	1.25	-1.03	-0.22
24	4.49	-1.04	0.89
24	3.13	-0.98	0.78
24	6.75	-1.05	1.49
24	3.13	-1.21	0.66
24	2.74	-0.96	0.26
24	2.10	-1.20	0.17
24	2.99	-0.84	0.61
24	2.09	-0.98	0.03
24	0.24	-0.80	-0.19
24	0.16	-0.71	-0.34
24	2.62	-0.76	-0.08
24	3.99	-1.18	0.39
24	0.28	-1.05	-0.53
24	1.52	-0.66	-0.13
24	4.38	-1.06	0.46
24	3.18	-0.74	-0.13
24	4.63	-1.11	0.62
24	2.55	-0.92	0.47

monthly max hr	monthly min hr	monthly ave hr
6.75	-1.21	0.30
5/16/08	5/17/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
5/1/08	-0.01	-0.18	-0.24	-0.29	-0.29	-0.34	-0.41	-0.48	-0.55	-0.55	-0.54	-0.57	-0.54	-0.52	-0.51	-0.50	-0.50	-0.42	-0.37	-0.36	-0.43	-0.38	-0.40	-0.41	24	-0.01	-0.57	-0.41
5/2/08	-0.39	-0.42	-0.41	-0.37	-0.41	-0.43	-0.43	-0.43	-0.38	-0.32	-0.42	-0.35	-0.12	-0.23	-0.29	-0.41	-0.52	-0.48	-0.38	-0.02	0.53	0.80	0.74	0.65	24	0.80	-0.52	-0.19
5/3/08	0.54	0.69	0.58	0.60	1.25	1.43	1.61	0.29	-0.45	-0.55	-0.57	-0.61	-0.59	-0.64	-0.70	-0.62	-0.60	-0.53	-0.50	-0.12	0.60	1.18	0.98	0.30	24	1.61	-0.70	0.15
5/4/08	0.90	1.20	1.51	1.56	2.22	0.76	1.15	0.95	-0.08	-0.52	-0.64	-0.70	-0.67	-0.67	-0.66	-0.64	-0.62	-0.56	-0.47	-0.14	0.02	0.61	0.88	0.61	24	2.22	-0.70	0.25
5/5/08	1.31	1.50	0.97	0.92	2.55	2.06	1.99	1.00	-0.40	-0.59	-0.61	-0.63	-0.61	-0.61	-0.73	-0.61	-0.58	-0.57	-0.48	-0.26	-0.10	-0.19	0.46	0.03	24	2.55	-0.73	0.24
5/6/08	0.68	2.25	2.58	1.62	1.68	1.96	0.88	1.26	0.26	-0.40	-0.55	-0.57	-0.61	-0.63	-0.62	-0.36	0.07	0.58	-0.17	-0.19	-0.19	-0.11	0.11	0.00	24	2.58	-0.63	0.40
5/7/08	0.01	0.05	0.57	1.69	1.75	1.97	1.82	0.42	-0.49	-0.51	-0.56	-0.59	-0.57	-0.56	-0.61	-0.56	-0.53	-0.54	-0.47	-0.41	-0.29	0.17	0.13	-0.15	24	1.97	-0.61	0.07
5/8/08	-0.15	-0.08	-0.13	-0.17	-0.10	-0.17	-0.32	-0.33	-0.34	-0.41	-0.41	-0.40	-0.40	-0.41	-0.42	-0.40	-0.44	-0.42	-0.43	-0.41	-0.40	-0.38	-0.36	-0.36	24	-0.08	-0.44	-0.33
5/9/08	-0.36	-0.33	-0.31	-0.32	-0.30	-0.29	-0.41	-0.48	-0.53	-0.50	-0.56	-0.53	-0.53	-0.54	-0.53	-0.51	-0.50	-0.48	-0.48	-0.33	0.32	0.06	0.16	0.23	24	0.32	-0.56	-0.34
5/10/08	0.01	0.25	0.06	0.25	-0.05	-0.38	-0.47	-0.47	-0.46	-0.42	-0.41	-0.32	-0.39	-0.51	-0.53	-0.53	-0.51	-0.48	-0.42	-0.17	0.48	0.42	0.49	0.77	24	0.77	-0.53	-0.16
5/11/08	0.22	-0.14	0.00	0.23	0.23	0.34	0.75	0.62	-0.47	-0.55	-0.61	-0.64	-0.61	-0.58	-0.64	-0.55	-0.56	-0.56	-0.44	0.09	0.69	0.30	0.55	0.95	24	0.95	-0.64	-0.06
5/12/08	0.48	0.22	-0.02	0.07	0.02	0.04	-0.12	-0.31	-0.44	-0.50	-0.55	-0.53	-0.57	-0.59	-0.59	-0.58	-0.57	-0.53	-0.48	-0.36	-0.10	0.29	0.34	0.65	24	0.65	-0.59	-0.20
5/13/08	0.79	0.70	0.52	0.17	0.23	-0.17	-0.37	-0.40	-0.44	-0.77	-0.76	-0.60	-0.59	-0.55	-0.60	-0.52	-0.53	-0.50	-0.50	-0.47	-0.25	-0.26	-0.02	-0.08	24	0.79	-0.77	-0.25
5/14/08	0.00	0.12	0.17	0.44	0.18	0.21	0.63	0.28	-0.49	-0.53	-0.58	-0.62	-0.63	-0.62	-0.67	-0.57	-0.58	-0.61	-0.49	-0.39	-0.33	-0.24	-0.15	0.06	24	0.63	-0.67	-0.23
5/15/08	-0.05	0.45	0.28	0.83	1.33	2.08	1.32	0.15	-0.51	-0.56	-0.59	-0.60	-0.59	-0.57	-0.59	-0.60	-0.54	-0.49	-0.45	-0.17	-0.21	0.05	0.15	0.00	24	2.08	-0.60	0.01
5/16/08	0.00	-0.04	0.27	1.34	2.62	3.09	3.44	1.44	-0.20	-0.40	-0.62	-0.80	-0.71	-0.68	-0.68	-0.66	-0.63	-0.58	-0.45	0.00	0.21	0.76	1.30	1.96	24	3.44	-0.80	0.42
5/17/08	2.06	1.98	2.37	2.25	1.93	1.55	1.59	0.00	-0.49	-0.57	-0.62	-0.70	-0.70	-0.68	-0.68	-0.68	-0.64	-0.57	-0.46	-0.03	0.52	0.23	0.68	0.65	24	2.37	-0.70	0.37
5/18/08	0.39	1.27	1.27	0.91	0.90	0.43	1.09	-0.21	-0.59	-0.61	-0.64	-0.64	-0.58	-0.59	-0.64	-0.62	-0.60	-0.57	-0.47	-0.11	0.60	1.51	0.86	0.55	24	1.51	-0.64	0.12
5/19/08	1.08	0.81	0.96	1.36	1.05	1.30	1.56	1.09	-0.16	-0.61	-0.64	-0.69	-0.69	-0.70	-0.75	-0.69	-0.60	-0.58	-0.52	-0.40	-0.07	0.01	-0.18	0.19	24	1.56	-0.75	0.09
5/20/08	0.43	0.77	0.74	0.19	0.09	0.30	-0.18	-0.25	-0.55	-0.57	-0.60	-0.54	-0.58	-0.61	-0.63	-0.55	-0.55	-0.52	-0.49	-0.27	0.25	1.31	1.29	1.86	24	1.86	-0.63	0.01
5/21/08	1.88	1.65	1.59	1.67	1.70	1.85	0.05	-0.52	-0.59	-0.63	-0.65	-0.69	-0.76	-0.65	-0.64	-0.61	-0.55	-0.49	-0.31	-0.19	0.02	0.07	-0.09	0.04	24	1.88	-0.76	0.13
5/22/08	0.11	0.42	0.15	-0.08	0.03	0.24	-0.12	-0.04	-0.21	-0.22	-0.15	-0.47	-0.49	-0.49	-0.59	-0.60	-0.58	-0.51	-0.46	-0.23	0.08	0.04	0.16	0.08	24	0.42	-0.60	-0.16
5/23/08	-0.15	-0.10	0.20	-0.08	-0.28	-0.26	-0.36	-0.56	-0.57	-0.56	-0.54	-0.54	-0.53	-0.53	-0.53	-0.60	-0.56	-0.50	-0.49	-0.43	-0.37	-0.34	-0.31	-0.36	24	0.20	-0.60	-0.39
5/24/08	-0.26	-0.25	-0.29	-0.26	-0.40	-0.41	-0.44	-0.44	-0.45	-0.48	-0.47	-0.46	-0.48	-0.45	-0.55	-0.56	-0.54	-0.54	-0.37	0.85	0.84	2.18	2.01	2.88	24	2.88	-0.56	0.03
5/25/08	3.29	3.04	3.29	3.20	2.22	2.05	0.45	-0.67	-0.88	-0.77	-0.67	-0.92	-0.79	-0.82	-0.87	-1.02	-0.93	-0.88	-0.76	-0.45	-0.16	0.06	0.02	-0.17	24	3.29	-1.02	0.29
5/26/08	-0.44	-0.46	-0.41	-0.46	-0.47	-0.47	-0.47	-0.50	-0.52	-0.56	-0.56	-0.59	-0.61	-0.57	-0.55	-0.55	-0.54	-0.52	-0.50	-0.47	-0.43	-0.40	-0.22	0.09	24	0.09	-0.61	-0.47
5/27/08	0.15	0.24	0.11	-0.05	-0.12	-0.29	-0.44	-0.47	-0.50	-0.53	-0.54	-0.53	-0.55	-0.53	-0.54	-0.55	-0.50	-0.46	-0.41	-0.24	0.03	0.18	1.33	1.20	24	1.33	-0.55	-0.17
5/28/08	0.62	0.12	0.09	-0.10	-0.03	0.00	0.10	-0.47	-0.57	-0.58	-0.57	-0.60	-0.65	-0.59	-0.62	-0.58	-0.60	-0.54	-0.51	-0.49	-0.47	-0.46	-0.45	-0.45	24	0.62	-0.65	-0.35
5/29/08	-0.44	-0.45	-0.42	-0.38	-0.10	-0.18	-0.27	-0.29	-0.44	-0.52	-0.53	-0.56	-0.52	-0.53	-0.49	-0.47	-0.50	-0.48	-0.48	-0.38	-0.25	0.13	0.33	0.44	24	0.44	-0.56	-0.32
5/30/08	0.13	0.50	0.62	0.63	0.35	0.91	0.66	-0.40	-0.61	-0.66	-0.67	-0.75	-0.70	-0.67	-0.63	-0.63	-0.62	-0.55	-0.41	-0.28	0.08	0.06	0.99	0.19	24	0.99	-0.75	-0.10
5/31/08	0.81	1.66	1.65	1.52	0.48	0.36	0.67	-0.03	-0.53	-0.57	-0.70	-0.70	-0.65	-0.64	-0.76	-0.70	-0.64	-0.63	-0.48	-0.15	-0.02	-0.18	-0.10	-0.09	24	1.66	-0.76	-0.02
hr max	3.29	3.04	3.29	3.20	2.62	3.09	3.44	1.44	0.26	-0.22	-0.15	-0.32	-0.12	-0.23	-0.29	-0.36	0.07	0.58	-0.17	0.85	0.84	2.18	2.01	2.88				
hr min	-0.44	-0.46	-0.42	-0.46	-0.47	-0.47	-0.47	-0.67	-0.88	-0.77	-0.76	-0.92	-0.79	-0.82	-0.87	-1.02	-0.93	-0.88	-0.76	-0.49	-0.47	-0.46	-0.45	-0.45				
average	0.44	0.56	0.59	0.61	0.65	0.63	0.48	-0.01	-0.44	-0.53	-0.57	-0.59	-0.58	-0.58	-0.61	-0.58	-0.55	-0.50	-0.45	-0.23	0.04	0.24	0.38	0.40				

monthly max hr	monthly min hr	monthly ave hr
3.44	-1.02	-0.05
5/16/08	5/25/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program

May-08

ppb

NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	3.2	2.9	2.8	2.7	2.5	2.6	2.5	2.8	3.2	3.3	3.7	3.6	3.7	3.5	3.4	3.4	3.4	3.3	3.3	3.2	3.1	2.9	2.7		23	3.7	2.5	3.1
5/2/08	2.1	2.2	2.2	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.3	2.2	2.0	1.8	1.7	1.7	1.7	1.5	1.4	1.2	1.3	1.4	1.2		23	2.7	1.2	2.0
5/3/08	1.3	1.2	1.2	0.9	1.0	1.0	1.2	1.2	1.1	1.3	1.1	1.2	0.9	1.0	1.1	0.9	0.9	1.0	1.2	1.2	1.4	1.3	1.3		23	1.4	0.9	1.1
5/4/08	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.3	1.2	1.1	1.1	1.1	1.0	1.6	1.2	1.2	1.3	2.1	3.8	2.7	2.3		23	3.8	1.0	1.5
5/5/08	1.4	1.7	1.7	1.8	1.8	1.7	1.7	1.9	1.8	1.4	1.3	1.4	1.2	1.2	1.3	1.3	1.2	1.2	1.3	1.7	3.0	2.9	3.6		23	3.6	1.2	1.7
5/6/08	2.7	2.6	2.5	2.3	2.0	2.3	2.3	2.5	2.4	2.3	2.0	1.9	1.7	1.5	1.7	2.1	2.5	2.6	2.4	2.5	3.0	3.1	2.6		23	3.1	1.5	2.3
5/7/08	2.8			2.6	2.6	2.6	2.5	1.9	1.9	1.7	1.4	1.2	1.3	1.3	1.2	1.2	1.3	1.2	2.1	3.5	3.3	2.6	2.6		21	3.5	1.2	2.0
5/8/08	2.4	2.4	2.5	2.6	2.1	2.3	2.8	2.8	2.0	1.8	1.9	1.7	1.4	1.5	1.6	1.6	1.7	1.7	1.5	1.5	1.6	1.5	1.5		23	2.8	1.4	1.9
5/9/08	1.2	1.4	1.6	1.7	1.6	1.8	1.7	1.6	1.3	1.6	1.6	1.7	1.6	1.2	1.2	1.7	1.9	1.7	1.7	1.9	1.8	1.7	1.8		23	1.9	1.2	1.6
5/10/08	1.9	1.6	1.7	1.7	1.8	2.2	2.4	2.0	1.6	1.3	1.2	1.1	1.2	1.1	1.0	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2		23	2.4	1.0	1.5
5/11/08	1.2	1.2	1.2	1.2	1.3	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.5	1.5	1.4	1.2		23	1.6	1.2	1.3
5/12/08	1.3	1.4	1.5	1.6	1.6	1.6	1.7	2.1	2.3	2.3	2.3	2.1	1.9	2.0	1.9	1.8	2.2	4.1	6.5	4.3	3.7	4.0	3.6		23	6.5	1.3	2.5
5/13/08	2.6	2.4	2.1	2.1	2.3	2.5	2.1	1.9	1.9	1.8	1.8	1.8	1.7	1.5	1.6	1.4	1.5	1.6	1.7	2.1	3.4	2.8	2.7		23	3.4	1.4	2.1
5/14/08	2.4			2.2	1.8	1.7	1.7	1.7	1.8	1.7	1.7	1.5	1.3	1.3	1.3	1.3	1.2	1.7	1.4	2.2	3.0	3.7	3.5		21	3.7	1.2	1.9
5/15/08	2.5	2.3	2.0	1.7	1.8	2.2	3.0	2.9	2.7	2.2	2.1	1.8	2.1	1.7	1.5	1.5	1.7	1.7	1.9	2.8	4.0	3.6	3.2		23	4.0	1.5	2.3
5/16/08	2.3	2.2	2.1	1.7	1.7	1.7	1.9	1.9	1.6	1.6	1.3	1.1	1.1	1.2	1.3	1.6	1.7	1.6	2.0	2.4	2.9	3.2	2.8		23	3.2	1.1	1.9
5/17/08	2.1	2.1	2.3	2.7	2.4	2.7	2.8	3.2	3.3	2.9	2.6	1.4	1.0	1.2	1.1	0.8	1.0	1.5	1.8	2.0	2.1	2.7	3.2		23	3.3	0.8	2.1
5/18/08				2.2	2.3	1.7	1.9	1.2	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.9	0.8	0.8	1.4	1.8	2.1	2.0	1.6		20	2.3	0.7	1.3
5/19/08	2.2	1.9	2.0	1.7	1.8	1.8	2.3	3.0	2.7	1.9	1.5	1.3	1.2	0.9	1.0	1.0	2.1	2.4	2.6	2.5	2.5	2.7	2.6		23	3.0	0.9	2.0
5/20/08	2.3	3.0	3.5	2.6	2.8	2.7	3.0	3.5	2.4	2.0	1.9	2.0	1.8	2.0	1.7	1.6	1.4	1.2	1.5	2.3	3.3	3.1	2.9		23	3.5	1.2	2.4
5/21/08	2.2			2.3	2.2	2.3	2.3	2.1	1.7	1.4	1.2	1.2	1.1	1.0	1.1	0.9	0.8	1.0	1.1	1.4	1.5	1.7	1.7		21	2.3	0.8	1.5
5/22/08	2.0	2.4	2.3	2.2	2.6	3.0	2.9	3.3	3.0	2.6	2.9	3.1	2.6	2.1	1.3	1.6	1.7	1.8	1.6	1.8	1.8	1.8	2.0		23	3.3	1.3	2.3
5/23/08	2.2	2.5	2.2	2.1	2.0	2.4	2.4	2.3	1.9	1.8	1.8	1.8	1.9	2.1	1.9	1.7	1.9	2.1	2.4	2.4	2.3	2.2	2.0		23	2.5	1.7	2.1
5/24/08	1.9	1.8	1.7	1.8	1.7	1.7	1.8	1.8	1.7	1.8	1.9	2.0	2.1	1.9	1.8	1.7	1.7	1.9	2.0	2.2	2.4	2.7	2.5		23	2.7	1.7	1.9
5/25/08	2.9	2.8	2.4	2.7	2.4	2.5	2.2	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.7	1.8	2.3	2.1		23	2.9	1.4	2.0
5/26/08	1.7	2.1	2.0	1.3	1.2	1.5	1.8	2.5	2.3	1.5	1.2	1.2	1.2	1.1	0.8	0.8	0.8	0.8	1.1	1.3	1.5	1.7	2.1		23	2.5	0.8	1.5
5/27/08	2.0	2.8	2.2	1.9	1.7	1.6	1.7	1.7	1.3	1.3	1.1	1.1	1.0	0.8	0.8	0.9	0.9	0.8	1.1	1.2	1.4	2.2	2.2		23	2.8	0.8	1.5
5/28/08	1.7			2.2	2.8	3.4	3.4	2.1	1.8	1.7	1.4	1.2	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.7	1.9	1.7	1.8		21	3.4	1.2	1.8
5/29/08	1.7	1.7	1.7	1.8	1.8	2.2	1.9	2.1	2.0	2.3	2.2	2.2	2.4	2.3	2.2	2.2	2.3	2.2	2.3	3.5	4.5	5.3	5.4		23	5.4	1.7	2.5
5/30/08	5.6	6.5	5.7	4.8	2.5	2.4	2.4	2.5	2.3	2.3	2.1	2.0	2.0	2.1	2.0	2.1	3.0	2.5	3.0	3.2	6.9	3.0	2.8		23	6.9	2.0	3.2
5/31/08	2.4	2.4	2.5	2.8	2.9	2.5	2.6	2.5	2.3	2.6	2.2	1.8	1.6	1.5	1.3	1.6	1.3	1.7	1.9	2.6	3.9	3.1	5.4		23	5.4	1.3	2.4
hr max	5.6	6.5	5.7	4.8	2.9	3.4	3.4	3.5	3.3	3.3	3.7	3.6	3.7	3.5	3.4	3.4	3.4	4.1	6.5	4.3	6.9	5.3	5.4	0.0				
hr min	1.2	1.2	1.2	0.9	1.0	1.0	1.2	1.2	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.1	1.2	1.3	1.3	1.2	0.0				
average	2.2	2.3	2.2	2.1	2.0	2.1	2.2	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.7	1.9	2.2	2.6	2.5	2.5	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
6.90	0.70	1.98
5/30/08	5/18/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	702
possible hours	744
data capture	94.4%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
5/1/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.6	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1		23	0.6	0.1	0.3
5/2/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
5/3/08	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.5	0.1	0.2
5/4/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.5	0.2	0.2
5/5/08	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.5	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2		23	0.5	0.1	0.2
5/6/08	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.2	0.2		23	0.4	0.1	0.2
5/7/08	0.2			0.2	0.2	0.2	0.5	0.4	0.5	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2		21	0.5	0.1	0.2
5/8/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2		23	0.2	0.1	0.2
5/9/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.6	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
5/10/08	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
5/11/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
5/12/08	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.5	0.3	0.4	0.3	0.2	0.3	0.7	0.6	0.2	0.2	0.2	0.1		23	0.7	0.1	0.3
5/13/08	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2		23	0.5	0.1	0.2
5/14/08	0.2			0.2	0.1	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2		21	0.5	0.1	0.2
5/15/08	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.8	0.2	0.3
5/16/08	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.6	0.5	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
5/17/08	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.1	0.8	0.7	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2		23	1.1	0.2	0.3
5/18/08				0.2	0.2	0.2	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		20	0.6	0.2	0.2
5/19/08	0.2	0.2	0.1	0.2	0.2	0.2	0.5	0.8	1.0	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2		23	1.0	0.1	0.3
5/20/08	0.2	0.2	0.2	0.2	0.2	0.3	0.7	0.8	0.6	0.4	0.4	0.3	0.3	0.6	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2		23	0.8	0.1	0.3
5/21/08	0.2			0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2		21	0.5	0.1	0.2
5/22/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.6	0.7	0.5	0.5	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1		23	0.7	0.1	0.3
5/23/08	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
5/24/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.2	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2		23	0.4	0.2	0.2
5/25/08	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
5/26/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.7	0.5	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
5/27/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2		23	0.4	0.1	0.2
5/28/08	0.2			0.2	0.2	0.4	0.7	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2		21	0.7	0.2	0.3
5/29/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.5	0.3	0.6	0.6	0.4	0.5	0.3	0.2	0.2		23	0.7	0.2	0.4
5/30/08	1.2	0.9	0.6	0.5	0.2	0.2	0.5	0.7	0.6	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.4	0.3	0.3	0.2	0.2		23	1.2	0.2	0.4
5/31/08	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.7	0.7	0.7	0.6	0.3	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.3	0.1	0.2	0.2		23	0.7	0.1	0.3
hr max	1.2	0.9	0.6	0.5	0.2	0.4	0.7	0.8	1.1	0.8	0.7	0.7	0.7	0.7	0.5	0.3	0.6	0.7	0.6	0.5	0.4	0.2	0.2	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0				
average	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
1.2	0.1	0.3
5/30/08	5/2/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	702
possible hours	744
data capture	94.4%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	3.0	2.8	2.8	2.5	2.4	2.4	2.5	2.8	2.7	3.0	3.3	3.2	3.5	3.4	3.2	3.3	3.3	3.2	3.2	3.2	3.1	2.7	2.5		23	3.5	2.4	3.0
5/2/08	2.0	2.2	2.3	2.5	2.6	2.5	2.6	2.6	2.4	2.4	2.3	2.1	1.9	1.8	1.7	1.6	1.6	1.4	1.3	1.3	1.3	1.3	1.2		23	2.6	1.2	2.0
5/3/08	1.3	1.1	1.0	0.9	1.0	0.9	1.1	0.9	0.9	1.1	0.9	1.0	0.9	0.9	1.0	0.8	0.8	0.8	1.0	1.2	1.4	1.3	1.2		23	1.4	0.8	1.0
5/4/08	1.1	1.3	1.2	1.2	1.2	1.2	1.1	1.0	1.2	1.1	1.0	0.9	0.9	0.9	1.0	1.7	1.3	1.2	1.3	2.0	3.7	2.6	2.3		23	3.7	0.9	1.4
5/5/08	1.3	1.6	1.7	1.8	1.8	1.6	1.6	1.6	1.4	1.2	1.2	1.3	1.2	1.2	1.2	1.3	1.1	1.2	1.2	1.7	3.0	2.9	3.5		23	3.5	1.1	1.6
5/6/08	2.7	2.6	2.5	2.4	2.0	2.2	2.2	2.4	2.2	2.1	1.7	1.7	1.6	1.4	1.5	2.0	2.4	2.3	2.1	2.4	2.8	3.0	2.5		23	3.0	1.4	2.2
5/7/08	2.7			2.6	2.6	2.5	2.1	1.7	1.6	1.4	1.4	1.2	1.2	1.3	1.3	1.3	1.2	1.3	2.1	3.5	3.2	2.6	2.7		21	3.5	1.2	2.0
5/8/08	2.3	2.3	2.5	2.6	2.1	2.3	2.7	2.7	1.9	1.7	1.8	1.6	1.3	1.4	1.4	1.5	1.6	1.6	1.5	1.5	1.6	1.5	1.4		23	2.7	1.3	1.9
5/9/08	1.2	1.4	1.6	1.6	1.5	1.7	1.6	1.5	1.3	1.4	1.3	1.4	1.3	0.8	0.9	1.5	1.8	1.6	1.7	1.8	1.8	1.7	1.7		23	1.8	0.8	1.5
5/10/08	1.8	1.6	1.7	1.6	1.8	2.1	2.3	1.9	1.5	1.3	1.2	0.8	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3		23	2.3	0.8	1.4
5/11/08	1.1	1.2	1.2	1.2	1.2	1.5	1.5	1.2	1.1	1.2	1.1	0.9	1.0	1.2	1.1	1.1	1.2	1.2	1.0	1.4	1.5	1.4	1.3		23	1.5	0.9	1.2
5/12/08	1.3	1.4	1.5	1.7	1.6	1.6	1.7	1.9	2.1	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.9	3.6	6.1	4.1	3.6	3.9	3.4		23	6.1	1.3	2.4
5/13/08	2.6	2.3	2.0	2.0	2.3	2.4	2.0	1.8	1.8	1.5	1.5	1.5	1.3	1.4	1.4	1.4	1.3	1.5	1.6	2.0	3.4	2.8	2.7		23	3.4	1.3	1.9
5/14/08	2.3			2.2	1.8	1.7	1.6	1.4	1.6	1.6	1.5	1.3	1.3	1.3	1.2	1.2	1.2	1.4	1.4	2.2	3.0	3.7	3.4		21	3.7	1.2	1.8
5/15/08	2.5	2.1	1.9	1.7	1.8	2.0	2.5	2.3	2.2	1.9	1.8	1.7	2.0	1.5	1.4	1.3	1.6	1.6	1.8	2.7	3.9	3.5	3.1		23	3.9	1.3	2.1
5/16/08	2.3	2.2	2.1	1.7	1.7	1.6	1.7	1.6	1.3	1.2	0.9	0.8	0.9	1.1	1.2	1.5	1.4	1.4	1.9	2.3	2.9	3.2	2.8		23	3.2	0.8	1.7
5/17/08	2.0	2.1	2.3	2.6	2.5	2.6	2.4	2.4	2.4	2.3	2.0	1.2	0.8	1.1	1.0	0.8	0.9	1.3	1.5	2.0	2.1	2.7	3.2		23	3.2	0.8	1.9
5/18/08				2.2	2.2	1.7	1.6	1.0	0.7	0.7	0.5	0.7	0.7	0.6	0.7	0.8	0.7	0.8	1.2	1.8	2.1	2.0	1.6		20	2.2	0.5	1.2
5/19/08	2.2	1.9	2.0	1.6	1.7	1.8	2.0	2.4	2.1	1.6	1.3	1.1	1.0	0.8	1.0	0.9	1.8	2.2	2.4	2.4	2.4	2.6	2.6		23	2.6	0.8	1.8
5/20/08	2.4	2.9	3.4	2.6	2.7	2.5	2.6	2.8	2.0	1.7	1.6	1.8	1.5	1.5	1.5	1.5	1.4	1.2	1.4	2.1	3.3	3.0	2.9		23	3.4	1.2	2.2
5/21/08	2.2			2.3	2.2	2.2	2.2	1.9	1.5	1.2	1.2	1.2	1.0	0.8	1.1	0.9	0.8	1.0	1.1	1.4	1.6	1.7	1.8		21	2.3	0.8	1.5
5/22/08	2.1	2.4	2.3	2.2	2.5	2.8	2.7	3.0	2.6	2.3	2.6	2.5	2.3	1.8	1.2	1.4	1.6	1.7	1.6	1.7	1.8	1.8	2.0		23	3.0	1.2	2.1
5/23/08	2.3	2.6	2.3	2.2	2.0	2.3	2.1	1.8	1.5	1.7	1.6	1.7	1.7	1.9	1.8	1.6	1.7	2.0	2.3	2.3	2.3	2.1	1.9		23	2.6	1.5	2.0
5/24/08	1.9	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.8	1.8	1.6	1.6	1.6	1.8	1.9	2.2	2.4	2.6	2.5		23	2.6	1.6	1.9
5/25/08	2.8	2.8	2.5	2.7	2.4	2.4	1.9	1.6	1.4	1.5	1.4	1.5	1.6	1.7	1.6	1.5	1.4	1.4	1.3	1.5	1.8	2.2	2.2		23	2.8	1.3	1.9
5/26/08	1.7	2.1	1.9	1.2	1.2	1.4	1.7	2.1	1.8	1.2	0.9	1.0	0.9	0.9	0.8	0.7	0.8	0.8	1.0	1.2	1.5	1.7	2.1		23	2.1	0.7	1.3
5/27/08	1.9	2.7	2.2	1.9	1.7	1.6	1.6	1.5	1.2	1.1	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.7	1.0	1.1	1.3	2.2	2.0		23	2.7	0.7	1.4
5/28/08	1.7			2.1	2.7	3.1	2.9	1.7	1.3	1.3	1.2	1.0	1.0	1.1	1.0	1.1	1.1	1.2	1.3	1.7	1.7	1.7	1.7		21	3.1	1.0	1.6
5/29/08	1.6	1.6	1.7	1.8	1.8	2.1	1.8	1.7	1.6	1.8	1.8	1.8	2.0	1.9	1.9	1.9	2.0	1.9	2.1	3.2	4.3	5.2	5.2		23	5.2	1.6	2.3
5/30/08	4.5	5.7	5.1	4.5	2.4	2.3	2.2	2.0	1.9	1.8	1.9	1.9	1.9	1.9	1.9	2.1	2.6	2.2	2.8	3.0	6.7	2.9	2.6		23	6.7	1.8	2.9
5/31/08	2.4	2.3	2.4	2.7	2.8	2.4	2.2	2.0	1.8	2.1	1.8	1.6	1.3	1.2	1.3	1.4	1.3	1.5	1.6	2.4	3.8	3.1	5.3		23	5.3	1.2	2.2
hr max	4.5	5.7	5.1	4.5	2.8	3.1	2.9	3.0	2.7	3.0	3.3	3.2	3.5	3.4	3.2	3.3	3.3	3.6	6.1	4.1	6.7	5.2	5.3	0.0				
hr min	1.1	1.1	1.0	0.9	1.0	0.9	1.1	0.9	0.7	0.7	0.5	0.7	0.7	0.6	0.7	0.7	0.7	0.7	1.0	1.1	1.3	1.3	1.2	0.0				
average	2.1	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.7	1.6	1.5	1.5	1.4	1.4	1.3	1.4	1.5	1.6	1.8	2.1	2.6	2.5	2.5	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
6.7	0.5	1.9
5/30/08	5/18/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	702
possible hours	744
data capture	*94.4%*

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/2/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/3/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/4/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/5/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/6/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
5/7/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/8/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/9/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/10/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/11/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.6	2.4	0.1	0.1	0.1	0.1		23	2.4	0.1	0.3
5/12/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/13/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
5/14/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.2	0.1	0.1
5/15/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/16/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.6	0.1	0.3
5/17/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.3	1.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		20	1.7	0.1	0.2
5/18/08				1.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		22	0.1	0.1	0.1
5/19/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		22	0.1	0.1	0.1
5/20/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
5/21/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/22/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/23/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/24/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/25/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/26/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/27/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
5/28/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/29/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/30/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
5/31/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
hr max	0.1	0.1	0.1	1.7	0.1	0.1	0.1	0.1	1.0	1.3	1.6	0.1	1.2	0.1	0.1	0.1	0.1	1.6	2.4	0.1	0.1	0.1	0.1	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
2.4	0.1	0.1
5/12/08	5/1/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	700
possible hours	744
data capture	94.1%

Max 3 hr ave.	1.4	5/12/08 17:00
Max 24 hr ave.	0.4	5/17/08 5:00

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	32.8	33.7	32.2	31.7	32.7	32.7	34.1	34.6	36.7	38.1	39.2	39.9	40.2	41.0	42.9	43.8	43.8	43.3	44.6	45.6	46.3	45.8	45.2		23	46.3	31.7	39.2
5/2/08	46.8	45.8	45.3	39.8	36.5	35.2	34.2	33.5	32.9	33.0	33.5	36.0	41.9	48.2	41.5	45.5	52.6	53.2	54.6	53.0	45.7	39.2	42.0		23	54.6	32.9	42.2
5/3/08	34.8	33.9	34.5	33.0	32.1	32.6	34.6	37.4	40.1	43.5	49.3	54.2	54.4	55.8	58.1	57.2	55.6	55.5	55.9	52.0	43.0	43.3	46.5		23	58.1	32.1	45.1
5/4/08	43.5	34.9	34.3	37.1	36.4	36.6	42.8	44.2	43.6	47.1	50.2	53.8	55.3	55.0	54.9	55.4	56.5	56.1	53.4	42.0	36.7	34.5	35.0		23	56.5	34.3	45.2
5/5/08	37.8	35.4	35.7	33.6	26.3	34.2	38.2	41.3	44.5	51.7	58.1	58.7	61.3	61.7	62.6	63.6	62.6	62.0	58.0	46.0	38.2	40.6	38.4		23	63.6	26.3	47.4
5/6/08	38.0	36.1	35.6	36.6	37.9	37.1	37.3	34.1	42.6	47.6	50.4	55.4	59.7	60.1	62.0	51.9	50.3	43.7	41.9	42.6	37.2	34.0	33.4		23	62.0	33.4	43.7
5/7/08	28.4		40.5	22.2	21.6	21.9	25.1	35.0	39.4	48.8	52.1	54.0	56.0	56.8	58.8	60.8	61.1	60.8	55.4	45.4	42.4	42.8	40.4		22	61.1	21.6	44.1
5/8/08	38.2	33.9	29.3	26.1	29.4	31.5	31.5	32.9	37.5	38.9	39.7	39.6	42.1	42.6	42.7	44.6	44.2	44.6	44.2	43.0	40.7	42.2	40.8		23	44.6	26.1	38.3
5/9/08	38.1	34.9	32.6	31.8	32.6	31.9	35.9	36.1	41.8	45.1	46.7	45.1	44.2	45.4	46.2	45.9	44.7	45.5	43.7	37.8	36.4	40.1	36.5		23	46.7	31.8	40.0
5/10/08	29.7	30.6	32.3	34.2	30.6	28.0	22.1	23.7	24.5	25.1	26.5	32.1	32.7	35.0	33.4	35.3	37.3	37.4	36.7	33.8	28.9	28.4	27.7		23	37.4	22.1	30.7
5/11/08	27.8	30.2	33.8	27.7	28.7	29.4	25.6	32.9	37.7	41.0	44.3	44.5	44.0	45.1	46.6	47.9	47.9	46.9	43.3	37.5	36.7	36.9	35.5		23	47.9	25.6	37.9
5/12/08	35.0	35.8	36.0	34.0	32.7	30.5	29.8	28.1	28.7	28.2	30.1	33.2	36.6	36.2	37.6	41.0	42.5	37.5	32.0	39.0	35.3	29.5	29.4		23	42.5	28.1	33.9
5/13/08	27.1	25.9	26.6	22.1	18.3	17.3	23.8	27.1	24.2	30.8	32.0	35.4	36.4	37.1	40.7	43.2	43.9	43.5	44.1	42.2	33.6	39.6	36.4		23	44.1	17.3	32.7
5/14/08	25.8		42.3	24.8	24.1	25.1	27.2	30.8	30.8	35.5	39.9	47.6	50.8	51.4	51.4	52.9	54.5	46.0	42.7	35.7	29.9	26.3	27.2		22	54.5	24.1	37.4
5/15/08	27.1	24.7	27.8	28.4	26.7	26.5	31.5	32.1	39.8	46.2	49.8	55.3	57.1	59.3	61.3	62.2	59.3	59.2	56.6	44.4	35.3	35.0	37.7		23	62.2	24.7	42.8
5/16/08	38.5	35.1	32.5	34.9	32.5	30.0	29.4	32.8	29.4	27.0	28.5	29.6	34.4	40.5	38.9	40.9	41.5	42.0	44.2	38.0	31.4	30.5	31.3		23	44.2	27.0	34.5
5/17/08	28.1	27.2	25.8	24.4	24.8	24.7	26.5	29.5	33.0	40.3	45.6	55.4	56.6	57.9	56.8	54.3	53.0	53.1	53.4	45.5	38.2	38.0	38.1		23	57.9	24.4	40.4
5/18/08	34.7	30.7	29.3	29.9	29.8	29.2	25.0	34.5	39.6	41.1	43.1	45.3	46.5	47.5	48.7	48.8	48.0	47.0	43.8	40.0	38.6	39.0	41.2		23	48.8	25.0	39.2
5/19/08	29.0	27.7	25.9	29.0	26.5	25.9	24.1	24.8	27.4	31.9	40.9	46.1	49.1	49.6	48.2	47.5	47.4	49.6	48.3	44.0	36.5	31.6	30.8		23	49.6	24.1	36.6
5/20/08	29.9	27.2	21.0	24.3	22.8	20.8	23.1	31.0	38.0	42.0	45.9	48.0	49.6	51.0	52.9	53.6	53.7	52.6	50.1	43.0	32.2	28.3	29.1		23	53.7	20.8	37.8
5/21/08	33.8		50.0	33.4	33.2	32.9	36.1	37.5	41.9	45.3	47.6	47.8	47.7	50.8	52.3	52.5	52.0	50.9	48.4	46.2	42.2	40.8	39.5		22	52.5	32.9	43.8
5/22/08	38.6	36.5	35.9	35.3	30.6	27.9	26.9	23.5	24.1	24.6	24.7	29.8	35.3	38.1	47.7	51.0	50.3	49.3	48.8	44.3	42.5	42.3	41.1		23	51.0	23.5	36.9
5/23/08	36.8	33.9	30.9	31.2	32.3	27.2	26.1	29.9	37.2	40.0	41.5	41.4	42.0	41.0	44.4	46.2	47.2	46.3	43.3	40.4	39.2	36.4	33.4		23	47.2	26.1	37.7
5/24/08	28.9	29.6	32.0	31.4	30.6	31.4	30.8	30.6	31.8	30.8	30.2	28.9	27.5	30.5	32.5	35.0	39.7	55.6	52.5	48.6	38.4	27.5	27.7		23	55.6	27.5	34.0
5/25/08	23.4	28.0	32.5	28.7	26.7	25.8	29.0	29.8	29.6	29.1	30.5	32.1	35.8	36.9	37.5	38.1	39.1	38.7	40.1	37.7	33.8	31.1	29.8		23	40.1	23.4	32.3
5/26/08	21.2	20.3	20.5	22.4	22.2	23.2	23.1	22.6	23.9	25.3	26.5	27.6	27.9	26.9	26.2	24.6	22.9	22.5	22.7	24.4	25.9	26.3	24.1		23	27.9	20.3	24.1
5/27/08	18.9	16.9	21.3	22.6	23.2	24.5	26.4	26.9	27.6	27.9	30.6	30.5	32.9	36.5	41.1	39.8	48.3	50.3	46.5	45.4	39.0	34.9	34.7		23	50.3	16.9	32.5
5/28/08	37.2			30.3	21.0	16.8	15.9	29.8	36.1	36.6	36.7	35.1	35.2	37.5	38.7	38.2	37.5	35.8	35.3	32.2	32.3	32.6	31.6		21	38.7	15.9	32.5
5/29/08	28.8	25.6	24.2	22.6	20.6	19.0	20.5	20.4	20.1	20.8	21.4	21.6	21.1	21.6	23.1	24.2	24.4	25.2	25.5	21.9	14.3	10.2	7.6		23	26.8	7.6	21.1
5/30/08	3.2	4.4	4.1	8.7	31.9	38.6	34.1	27.4	33.9	36.4	38.3	41.9	45.6	47.3	47.4	48.3	47.3	41.6	38.8	36.2	22.0	42.6	44.5		23	48.3	3.2	33.2
5/31/08	41.2	32.7	31.8	29.3	29.0	30.6	29.4	30.1	34.2	35.9	38.8	43.0	48.7	50.4	51.0	51.6	51.2	50.4	45.1	41.0	34.8	38.7	33.7		23	51.6	29.0	39.2
hr max	46.8	45.8	50.0	39.8	37.9	38.6	42.8	44.2	44.5	51.7	58.1	58.7	61.3	61.7	62.6	63.6	62.6	62.0	58.0	53.0	46.3	45.8	46.5	0.0				
hr min	3.2	4.4	4.1	8.7	18.3	16.8	15.9	20.4	20.1	20.8	21.4	21.6	21.1	21.6	23.1	24.2	22.9	22.5	22.7	21.9	14.3	10.2	7.6	0.0				
average	31.7	30.1	31.2	29.1	28.5	28.4	29.0	31.1	34.0	36.6	39.1	41.6	43.5	45.0	46.1	46.6	47.1	46.6	45.0	40.9	35.7	35.1	34.5	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
63.6	3.2	37.3
5/5/08	5/30/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	708
possible hours	744
data capture	95.2%

Max 8 hr ave. 61.3 5/5/08 11:00

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
DegC
StnT

data channel DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
5/1/08	23	23	23	23	23	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	22	22	23	24	23	22	23
5/2/08	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	22	23	23	23	24	23	22	23
5/3/08	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	24	23	22	23
5/4/08	22	22	22	23	23	23	23	23	23	23	23	23	24	24	24	24	24	23	23	23	23	23	23	23	24	24	22	23
5/5/08	23	23	23	23	23	23	23	24	23	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	24	24	23	23
5/6/08	23	23	23	24	24	24	23	23	23	23	23	23	23	24	24	24	24	23	23	23	23	23	23	23	24	24	23	23
5/7/08	23	24	23	23	23	23	23	24	24	23	23	23	23	23	24	24	24	24	23	23	23	23	23	23	24	24	23	23
5/8/08	23	23	23	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	23	23
5/9/08	24	23	23	23	23	23	23	23	23	23	24	24	23	21	20	21	23	23	23	23	23	23	23	23	24	24	20	23
5/10/08	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	23	23	23
5/11/08	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	23	23
5/12/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
5/13/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
5/14/08	24	24	24	24	23	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
5/15/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
5/16/08	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	24	24	24	24	24	25	24	24
5/17/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	24	24	24	24	24	24	24	25	24	24
5/18/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
5/19/08	24	24	24	24	24	24	24	24	24	24	24	24	25	26	25	25	25	25	25	24	24	24	24	24	24	26	24	24
5/20/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	26	26	25	24	24	24	24	24	24	26	24	24
5/21/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24	24	24	24	23	24
5/22/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	24	24	24	24	24	24	24	23	24
5/23/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	23	24
5/24/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24	24	24	24	24
5/25/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
5/26/08	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
5/27/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
5/28/08	23	24	24	23	23	23	24	24	24	24	24	24	24	24	23	24	24	24	23	23	24	24	24	24	24	24	23	24
5/29/08	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24	24	24	24	24	24	24	24	24	24	26	23	24
5/30/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	26	25	24	24	24	23	23	23	23	24	24	22	23
5/31/08	23	23	23	22	22	22	22	23	23	23	23	24	24	24	24	24	24	24	24	24	24	23	23	23				
hr max	24.4	24.4	24.4	24.3	24.3	24.2	24.2	24.3	24.2	24.2	24.3	24.2	24.8	25.8	25.3	25.7	25.9	26.1	24.7	24.5	24.3	24.2	24.3	24.4				
hr min	22.3	22.3	22.3	22.4	22.3	22.4	22.3	22.4	22.4	22.5	22.6	22.6	22.7	21.2	20.4	21.1	22.4	22.4	22.4	22.4	22.3	22.4	22.4	22.4				
average	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.5	23.6	23.6	23.7	23.7	23.7	23.8	23.8	23.8	23.7	23.6	23.5	23.5	23.5	23.6				

monthly max hr	monthly min hr	monthly ave hr
26.1	20.4	23.6
5/20/08	5/9/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Nevada/NAAQS 8hr standard = 80 ppb or 157 $\mu g/m^3$ (ppb to $\mu g/m^3$ factor =1.96)

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
5/1/08	0	0	0	0	0	0	29	82	262	235	179	302	129	150	163	83	83	48	17	0	0	0	0	0	24	302	1761	1761
5/2/08	0	0	0	0	0	0	7	15	39	60	80	90	84	115	215	326	517	340	183	26	0	0	0	0	24	517	2097	2097
5/3/08	0	0	0	0	0	21	147	317	500	664	792	874	916	898	830	716	559	368	173	29	0	0	0	0	24	916	7802	7802
5/4/08	0	0	0	0	0	15	125	304	487	650	774	854	807	789	546	509	433	255	157	30	0	0	0	0	24	854	6734	6734
5/5/08	0	0	0	0	0	15	123	298	479	636	761	839	881	790	715	482	407	320	168	31	0	0	0	0	24	881	6944	6944
5/6/08	0	0	0	0	0	12	62	47	129	269	440	595	679	490	568	145	19	197	162	29	0	0	0	0	24	679	3842	3842
5/7/08	0	0	0	0	0	18	132	319	507	647	781	860	901	887	820	707	542	374	106	20	0	0	0	0	24	901	7620	7620
5/8/08	0	0	0	0	0	0	11	29	44	77	69	48	67	90	123	91	80	60	38	11	0	0	0	0	24	123	838	838
5/9/08	0	0	0	0	0	0	17	59	93	164	338	325	309	231	216	153	116	132	55	15	0	0	0	0	24	338	2223	2223
5/10/08	0	0	0	0	0	0	17	27	40	81	145	187	212	234	446	396	379	315	196	42	0	0	0	0	24	446	2714	2714
5/11/08	0	0	0	0	0	31	151	334	520	681	806	859	878	879	831	665	494	375	173	35	0	0	0	0	24	879	7712	7712
5/12/08	0	0	0	0	0	16	73	91	128	187	403	384	369	549	616	620	455	236	65	10	0	0	0	0	24	620	4202	4202
5/13/08	0	0	0	0	0	5	21	84	129	415	465	611	734	670	720	272	311	164	91	39	0	0	0	0	24	734	4730	4730
5/14/08	0	0	0	0	0	29	157	334	535	498	563	835	757	728	856	371	331	238	77	18	0	0	0	0	24	856	6326	6326
5/15/08	0	0	0	0	0	27	155	341	520	677	796	833	629	560	915	731	208	261	168	39	0	0	0	0	24	915	6861	6861
5/16/08	0	0	0	0	0	19	143	253	374	426	720	722	900	874	762	591	563	368	191	47	0	0	0	0	24	900	6952	6952
5/17/08	0	0	0	0	0	30	156	329	514	668	777	870	910	897	837	728	576	392	206	47	0	0	0	0	24	910	7937	7937
5/18/08	0	0	0	0	0	29	154	335	506	640	753	808	810	850	783	614	447	284	126	47	0	0	0	0	24	850	7185	7185
5/19/08	0	0	0	0	0	16	77	202	245	498	557	791	754	794	827	704	475	355	188	47	0	0	0	0	24	827	6529	6529
5/20/08	0	0	0	0	0	36	120	319	497	671	767	858	830	883	830	716	580	390	212	47	0	0	0	0	24	883	7756	7756
5/21/08	0	0	0	0	0	44	158	288	404	661	673	719	929	863	394	348	158	121	64	30	0	0	0	0	24	929	5854	5854
5/22/08	0	0	0	0	0	23	44	48	70	73	117	216	139	298	456	653	345	169	107	34	0	0	0	0	24	653	2792	2792
5/23/08	0	0	0	0	0	12	143	329	380	236	209	216	173	134	185	363	228	91	49	27	0	0	0	0	24	380	2773	2773
5/24/08	0	0	0	0	0	11	63	54	59	146	132	74	112	94	514	367	445	421	228	60	0	0	0	0	24	514	2780	2780
5/25/08	0	0	0	0	0	43	185	365	541	695	816	879	914	861	761	682	532	423	232	69	0	0	0	0	24	914	7996	7996
5/26/08	0	0	0	0	0	14	61	144	223	303	356	584	635	476	408	284	155	156	61	15	0	0	0	0	24	635	3874	3874
5/27/08	0	0	0	0	0	10	41	80	131	176	257	204	254	293	196	267	132	102	71	24	0	0	0	0	24	293	2237	2237
5/28/08	0	0	0	0	0	22	82	223	490	432	492	486	734	917	649	308	236	127	49	15	0	0	0	0	24	917	5262	5262
5/29/08	0	0	0	0	0	14	43	123	241	214	215	217	185	219	172	78	279	313	146	70	0	0	0	0	24	313	2528	2528
5/30/08	0	0	0	0	0	17	158	359	535	690	795	876	916	865	446	529	370	299	185	70	0	0	0	0	24	916	7109	7109
5/31/08	0	0	0	0	0	39	137	306	540	623	810	938	902	902	817	709	612	426	130	92	0	0	0	0	24	938	7983	7983
hr max	0	0	0	0	0	44	185	365	541	695	816	938	929	917	915	731	612	426	232	92	0	0	0	0				
hr min	0	0	0	0	0	0	7	15	39	60	69	48	67	90	123	78	19	48	17	0	0	0	0	0				
average	0	0	0	0	0	18	97	208	328	422	511	579	595	590	568	458	357	262	131	36	0	0	0	0				

monthly	monthly	monthly
max hr	Max24hr	Total
938	7996	159953
5/31/08	5/25/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	694	694	694	693	693	694	694	694	694	693	693	693	693	692	692	692	692	692	692	692	693	693	693	693	24	694	692	693
5/2/08	694	694	693	693	695	696	696	697	698	698	699	699	700	700	701	701	702	702	703	704	705	706	706	706	24	706	693	699
5/3/08	706	706	707	707	707	707	708	708	708	708	707	707	706	706	706	705	705	705	705	705	705	705	705	704	24	708	704	706
5/4/08	704	704	704	704	704	704	704	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	706	706	24	706	704	705
5/5/08	706	706	706	706	706	706	707	707	707	707	706	706	706	706	705	705	705	704	704	704	704	704	704	703	24	707	703	705
5/6/08	703	703	702	702	702	701	701	701	701	700	700	699	699	698	698	698	698	698	699	699	700	701	701	702	24	703	698	700
5/7/08	702	702	702	703	703	704	704	704	705	705	705	704	704	704	703	703	703	703	703	703	703	703	703	703	24	705	702	703
5/8/08	703	704	704	704	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	704	704	704	704	24	704	703	703
5/9/08	704	704	704	704	704	705	705	705	705	705	705	705	705	704	704	704	704	704	703	704	703	704	703	703	24	705	703	704
5/10/08	703	702	702	702	701	702	702	702	703	703	704	704	705	705	706	706	707	707	707	707	707	708	708	708	24	708	701	705
5/11/08	708	708	707	707	707	706	706	706	706	706	705	705	704	703	703	702	701	701	700	700	700	699	699	698	24	708	698	704
5/12/08	697	696	695	695	694	694	694	694	694	694	694	695	695	695	696	696	696	697	698	698	699	700	700	700	24	700	694	696
5/13/08	701	701	700	701	701	702	703	703	704	705	705	705	705	705	705	705	705	706	706	706	706	707	707	706	24	707	700	704
5/14/08	706	706	706	706	705	705	706	705	705	705	705	705	705	704	704	704	704	704	705	705	705	706	706	706	24	706	704	705
5/15/08	706	706	706	707	707	707	707	708	708	708	708	708	708	708	708	707	708	708	708	708	708	708	708	708	24	708	706	708
5/16/08	708	708	707	707	707	706	706	706	705	705	704	704	704	703	703	703	703	703	703	703	704	704	704	704	24	708	703	705
5/17/08	704	704	704	704	704	704	705	705	705	705	705	704	704	704	703	703	703	702	703	703	703	703	703	704	24	705	702	704
5/18/08	704	704	704	704	704	704	704	703	703	703	702	702	701	700	699	699	699	699	698	697	697	698	698	698	24	704	697	701
5/19/08	697	697	697	696	696	697	697	697	697	698	697	698	698	698	699	699	700	700	701	703	704	704	705	705	24	705	696	699
5/20/08	705	705	706	706	706	707	707	707	707	707	706	706	705	705	704	704	704	703	703	703	703	703	703	703	24	707	703	705
5/21/08	703	703	703	703	702	702	702	702	702	702	701	701	701	700	700	700	699	699	699	699	700	700	700	700	24	703	699	701
5/22/08	701	701	701	701	701	700	701	702	703	702	702	703	703	703	702	702	702	702	702	702	703	703	703	703	24	703	700	702
5/23/08	702	704	703	701	701	703	703	704	705	705	705	706	706	707	706	705	705	706	705	705	705	706	706	706	24	707	701	705
5/24/08	706	706	704	701	702	702	702	702	702	701	701	701	701	701	700	700	699	699	699	699	699	699	699	699	24	706	699	701
5/25/08	699	699	699	699	699	699	699	699	699	699	699	699	700	700	700	700	700	700	700	700	700	701	702	702	24	702	699	700
5/26/08	703	703	704	705	705	706	706	707	707	707	708	708	708	708	709	709	709	709	709	709	710	711	711	711	24	711	703	708
5/27/08	712	711	711	712	712	713	713	713	714	714	714	714	715	715	715	715	715	715	715	715	715	715	715	715	24	715	711	714
5/28/08	715	715	715	715	715	715	715	715	714	714	714	713	713	712	711	711	710	710	709	709	709	709	708	708	24	715	708	712
5/29/08	707	707	706	706	705	705	704	704	704	703	703	703	702	702	702	701	701	700	700	700	700	701	701	700	24	707	700	703
5/30/08	701	700	700	700	701	700	700	701	701	701	701	701	701	701	702	701	702	702	702	702	703	705	704	704	24	705	700	701
5/31/08	704	704	704	704	705	705	705	706	706	706	706	706	706	706	706	706	706	706	706	706	706	706	706	707	24	707	704	705
hr max	715	715	715	715	715	715	715	715	714	714	714	714	715	715	715	715	715	715	715	715	715	715	715	715				
hr min	694	694	693	693	693	694	694	694	694	693	693	693	693	692	692	692	692	692	692	692	693	693	693	693				
average	703	703	703	703	703	703	704	704	704	704	704	704	703	703	703	703	703	703	703	703	703	704	704	704				

monthly	monthly	monthly
max hr	min hr	ave hr
715	691.9	703.4
5/27/08	5/1/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
5/1/08	82.6	83.1	84.2	85.2	86.2	85.0	82.2	78.0	72.1	68.5	68.0	65.2	66.9	67.3	67.0	68.1	68.1	76.8	77.9	77.2	78.7	89.5	91.7	91.3	24	91.7	65.2	77.5
5/2/08	93.5	94.5	95.5	96.7	97.0	96.7	95.3	93.2	93.6	92.5	91.8	94.0	92.3	86.5	66.9	47.0	32.3	30.2	29.7	33.4	47.3	57.1	50.9	60.1	24	97.0	29.7	73.7
5/3/08	62.8	64.1	61.8	66.7	72.0	67.6	57.6	45.9	37.6	32.5	26.9	23.7	24.2	23.1	21.6	21.6	24.2	28.5	32.7	39.8	52.7	56.8	56.1	63.1	24	72.0	21.6	44.3
5/4/08	64.4	74.7	80.4	79.6	78.2	77.6	62.5	52.7	44.5	35.3	30.7	26.5	24.8	24.7	25.5	25.8	25.7	26.4	27.9	37.3	49.7	56.4	59.8	65.3	24	80.4	24.7	48.2
5/5/08	67.1	72.2	76.2	79.7	85.3	74.1	64.2	52.7	43.1	32.6	26.3	24.8	22.6	22.8	20.7	20.3	19.9	19.9	21.8	29.7	41.9	52.6	54.2	54.6	24	85.3	19.9	45.0
5/6/08	61.3	63.7	66.0	66.0	67.9	67.4	65.4	70.1	67.4	59.8	49.8	36.0	30.3	31.9	31.4	50.9	72.3	84.1	75.6	73.8	77.9	83.7	88.2	89.8	24	89.8	30.3	63.8
5/7/08	91.0	93.3	95.1	96.7	97.7	97.4	94.0	86.4	77.9	64.3	49.4	42.2	35.8	32.5	30.3	27.7	28.5	28.8	37.1	48.4	54.6	59.1	61.9	63.5	24	97.7	27.7	62.2
5/8/08	65.6	76.2	85.5	88.9	89.6	89.9	92.4	94.2	94.9	95.4	94.4	94.7	94.3	94.5	94.0	92.3	92.5	92.6	93.2	93.9	95.3	95.7	96.5	97.0	24	97.0	65.6	91.4
5/9/08	97.3	97.5	97.8	98.0	98.1	98.1	97.5	94.3	89.8	85.9	82.7	82.3	81.8	79.0	76.8	74.8	75.4	71.5	75.0	83.2	84.9	80.9	85.8	88.9	24	98.1	71.5	86.6
5/10/08	92.5	90.8	93.8	95.2	96.9	95.6	94.4	94.9	96.6	95.8	95.1	96.6	93.2	88.5	75.4	63.9	58.5	56.5	57.2	63.7	77.9	79.6	81.9	83.5	24	96.9	56.5	84.1
5/11/08	84.3	82.6	80.3	86.2	85.2	80.6	80.7	69.0	59.3	48.7	39.3	38.6	39.1	35.6	35.8	35.3	34.1	34.0	38.5	49.1	54.0	55.9	60.1	63.6	24	86.2	34.0	57.1
5/12/08	66.6	68.7	69.2	72.1	72.6	74.7	73.4	71.2	68.8	67.7	60.8	59.3	56.6	57.2	55.7	51.4	51.6	59.3	68.1	72.4	77.7	83.2	84.1	85.6	24	85.6	51.4	67.8
5/13/08	86.2	87.7	86.9	89.3	93.1	96.5	96.6	90.5	89.0	77.0	72.0	64.0	61.3	59.8	53.9	55.8	54.9	55.4	56.8	58.2	70.3	70.5	77.4	82.5	24	96.6	53.9	74.4
5/14/08	90.8	91.9	92.5	91.9	93.1	91.4	85.5	76.1	67.6	54.9	47.2	35.5	31.4	30.9	30.4	29.5	27.8	42.0	48.5	56.5	63.4	68.3	71.3	74.4	24	93.1	27.8	62.2
5/15/08	78.1	83.1	85.9	87.4	89.2	88.3	78.2	74.6	62.1	52.1	42.9	38.0	36.8	32.1	26.8	26.4	29.9	29.6	31.1	39.6	52.4	56.5	57.1	60.0	24	89.2	26.4	55.8
5/16/08	63.6	64.5	66.7	64.3	68.1	71.1	67.5	55.4	53.6	50.4	42.7	41.5	36.0	28.9	24.5	25.0	24.3	24.4	28.0	34.8	47.2	51.1	52.9	57.3	24	71.1	24.3	47.7
5/17/08	59.2	59.8	62.9	64.9	64.0	64.1	59.2	51.0	44.1	34.1	29.5	21.4	19.4	19.2	18.9	18.4	18.3	18.1	19.0	25.2	35.7	40.5	43.1	44.2	24	64.9	18.1	38.9
5/18/08	48.7	56.2	61.8	61.3	62.3	67.4	64.0	48.4	38.6	35.0	32.6	31.1	30.4	29.1	27.4	27.9	29.9	31.5	36.9	42.9	48.6	51.0	47.7	56.6	24	67.4	27.4	44.5
5/19/08	74.2	72.2	75.9	68.1	70.3	70.6	69.7	64.6	56.5	47.3	41.2	32.8	22.8	22.1	22.5	26.0	31.8	31.7	37.6	51.7	66.2	76.8	80.5	84.6	24	84.6	22.1	54.1
5/20/08	85.7	87.9	90.1	87.9	89.1	91.6	85.8	73.3	62.3	57.2	50.6	46.7	44.0	36.6	36.2	37.3	35.5	37.5	41.1	50.9	64.1	67.2	64.0	60.0	24	91.6	35.5	61.8
5/21/08	59.6	63.1	56.9	60.4	63.3	63.2	52.5	49.9	42.6	38.2	37.0	37.2	33.6	29.0	28.4	27.3	26.4	29.1	31.9	32.8	39.3	42.2	43.1	43.2	24	63.3	26.4	42.9
5/22/08	44.0	50.0	47.1	48.2	54.8	61.1	64.1	79.2	78.1	83.2	87.1	84.4	83.1	77.3	61.1	46.8	46.9	50.8	52.6	58.0	59.5	58.7	60.5	61.0	24	87.1	44.0	62.4
5/23/08	59.6	73.4	86.0	82.9	80.2	83.4	83.0	72.7	67.7	73.3	78.8	78.4	76.8	77.4	74.0	70.9	71.6	72.8	76.6	79.6	78.2	70.8	66.8	66.0	24	86.0	59.6	75.0
5/24/08	82.5	89.1	89.1	89.6	90.8	91.6	91.9	92.7	92.2	90.9	92.3	93.9	92.4	88.5	81.7	77.5	70.7	51.2	64.3	71.6	85.9	93.1	87.8	84.5	24	93.9	51.2	84.8
5/25/08	84.3	80.4	76.8	80.9	82.7	80.6	72.8	69.2	66.6	62.3	54.4	51.9	49.7	45.7	43.1	43.1	39.5	41.6	45.6	53.2	67.4	75.2	79.1	83.1	24	84.3	39.5	63.7
5/26/08	84.4	83.7	85.7	83.7	84.5	85.5	90.4	89.4	84.6	78.7	72.6	67.4	65.1	66.7	67.3	71.3	75.0	77.0	77.1	75.1	75.3	77.7	82.6	85.8	24	90.4	65.1	78.6
5/27/08	86.9	88.1	86.1	84.7	84.4	82.9	79.6	77.2	75.0	72.8	68.5	69.6	65.0	61.2	57.4	56.9	56.4	68.5	73.9	81.1	86.2	88.8	88.5	89.8	24	89.8	56.4	76.2
5/28/08	88.3	89.2	90.3	91.3	93.1	93.9	90.2	75.7	63.3	60.7	62.3	66.5	65.4	61.5	60.4	64.0	65.8	71.2	76.0	80.3	82.8	84.6	86.1	87.1	24	93.9	60.4	77.1
5/29/08	88.8	90.4	92.2	92.9	96.3	97.1	97.6	97.6	91.7	88.8	86.5	85.7	89.2	89.5	86.2	84.6	82.9	79.6	80.8	81.1	90.1	95.3	96.8	97.4	24	97.6	79.6	90.0
5/30/08	97.8	98.2	98.5	99.1	97.1	90.8	85.3	82.2	74.3	67.2	59.9	52.8	47.3	45.2	43.2	41.2	41.1	48.8	52.8	55.7	70.7	67.7	76.7	73.9	24	99.1	41.1	69.5
5/31/08	70.8	79.5	80.3	82.9	82.1	79.2	78.3	71.6	61.7	56.7	51.0	45.4	37.2	34.3	33.0	33.1	34.0	34.1	39.6	45.1	55.6	54.2	61.9	64.6	24	82.9	33.0	56.9
hr max	97.8	98.2	98.5	99.1	98.1	98.1	97.6	97.6	96.6	95.8	95.1	96.6	94.3	94.5	94.0	92.3	92.5	92.6	93.2	93.9	95.3	95.7	96.8	97.4				
hr min	44.0	50.0	47.1	48.2	54.8	61.1	52.5	45.9	37.6	32.5	26.3	21.4	19.4	19.2	18.9	18.4	18.3	18.1	19.0	25.2	35.7	40.5	43.1	43.2				
average	76.2	79.0	80.6	81.4	82.7	82.4	79.1	74.0	68.3	63.2	58.8	55.7	53.2	50.9	47.7	46.5	46.6	48.5	51.8	57.3	65.5	69.1	70.8	73.0				

monthly	monthly	monthly
max hr	min hr	ave hr
99.1	18.1	65.1
5/30/08	5/17/08	

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-08
in
Prcp

data
channel
in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily		daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr		total
5/1/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/2/08	0.03	0	0	0.01	0	0.01	0	0	0.01	0	0	0	0.01	0.03	0	0	0	0	0	0	0	0	0	0	24	0.03		0.10
5/3/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/4/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/5/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/6/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30	0	0.01	0	0	0	0	0	24	0.30		0.31
5/7/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/8/08	0	0	0.04	0.01	0.03	0	0.02	0.01	0.06	0.04	0.03	0.01	0.02	0.04	0.05	0.04	0.05	0.03	0	0	0	0.01	0.02	0	24	0.06		0.51
5/9/08	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
5/10/08	0	0	0.01	0	0.03	0.02	0	0.03	0.03	0.03	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.03		0.17
5/11/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/12/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/13/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/14/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/15/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/16/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/17/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/18/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/19/08	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
5/20/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/21/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/22/08	0	0	0	0	0	0	0	0.03	0	0.03	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.04		0.10
5/23/08	0	0.06	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.06		0.07
5/24/08	0.03	0.08	0.08	0.02	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.08		0.22
5/25/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/26/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/27/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/28/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
5/29/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	24	0.02		0.02
5/30/08	0	0	0	0	0.06	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.06		0.07
5/31/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
hr max	0.03	0.08	0.08	0.02	0.06	0.02	0.02	0.03	0.06	0.04	0.04	0.01	0.02	0.04	0.05	0.04	0.30	0.03	0.01	0.00	0.00	0.01	0.02	0.00	monthly	monthly		monthly
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	max hr	24h max		TOTAL
total	0.07	0.14	0.14	0.04	0.13	0.04	0.02	0.07	0.10	0.10	0.08	0.03	0.03	0.07	0.05	0.06	0.35	0.03	0.01	0.00	0.00	0.01	0.02	0.00	0.30	0.51		1.59
																									5/6/08	5/8/08		

Validated by: Roger L Thompson Date: 6/1/08
Analyst: Denise Hazelman Date: 6/1/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	3.4	2.8	1.6	1.3	0.8	2.0	2.3	2.9	3.7	3.5	3.8	3.8	4.1	3.8	3.7	3.0	3.0	3.3	2.4	1.4	1.2	1.5	2.6	4.1	24	4.1	0.8	2.8
6/2/08	9.1	6.9	6.1	4.2	4.1	2.5	2.3	1.5	3.1	3.4	2.3	3.3	2.6	2.1	2.5	2.7	3.2	4.5	7.7	8.3	8.1	7.2	6.8	9.3	24	9.3	1.5	4.7
6/3/08	6.5	4.5	2.9	3.0	4.3	3.8	3.8	4.3	4.2	3.7	3.0	2.2	1.9	2.0	1.4	1.9	1.7	1.2	1.8	2.2	3.0	2.8	2.3	2.1	24	6.5	1.2	2.9
6/4/08	4.6	3.0	4.5	1.9	3.9	3.7	2.5	2.3	3.4	3.0	3.2	3.2	2.7	3.5	4.5	3.5	4.0	4.1	4.7	4.6	3.5	3.0	3.9	6.0	24	6.0	1.9	3.6
6/5/08	8.2	5.6	7.3	8.2	8.2	8.0	8.5	9.3	10.2	11.5	12.2	12.3	11.9	12.4	9.5	12.1	11.4	10.9	11.9	12.7	13.0	11.3	9.8	8.8	24	13.0	5.6	10.2
6/6/08	9.6	9.7	10.8	14.2	13.2	13.0	13.4	12.3	12.1	12.6	13.2	12.7	11.8	11.1	11.1	11.1	11.3	9.4	6.9	4.6	3.9	5.9	3.2	3.2	24	14.2	3.2	10.0
6/7/08	4.1	4.4	4.7	3.9	3.8	3.8	3.9	4.3	4.9	4.4	4.0	4.3	4.8	4.3	4.4	3.8	3.3	3.7	3.0	2.7	2.9	2.4	3.4	2.7	24	4.9	2.4	3.8
6/8/08	1.7	1.1	1.8	2.7	3.1	2.7	1.7	2.0	2.7	3.6	3.7	4.9	4.7	4.9	6.7	6.6	6.6	9.4	10.1	5.9	4.9	4.4	3.2	4.4	24	10.1	1.1	4.3
6/9/08	4.7	6.1	6.8	6.9	8.1	8.6	10.1	11.2	11.3	10.4	10.9	11.0	9.7	9.0	8.7	7.9	8.9	8.0	6.5	4.0	2.8	2.5	2.8	3.4	24	11.3	2.5	7.5
6/10/08	3.1	3.4	3.7	3.5	2.0	1.8	2.5	4.0	4.6	4.8	6.1	7.1	8.5	9.8							10.0	10.9	12.2	11.0	18	12.2	1.8	6.1
6/11/08	9.3	11.6	15.4	13.8	11.6	11.2	11.9	10.3	8.6	6.6	4.0	2.5	6.5	8.4	9.8	10.8	10.2	7.3	4.9	3.7	3.8	2.7	5.6	6.9	24	15.4	2.5	8.2
6/12/08	1.7	4.3	4.8	4.9	5.8	6.0	6.6	7.9	8.6	8.1	7.5	7.3	7.8	10.9	10.4	10.3	5.9	7.6	9.5	10.8	9.9	8.7	9.9	9.8	24	10.9	1.7	7.7
6/13/08	10.3	11.3	10.6	10.1	8.9	6.5	9.2	11.5	10.9	11.4	12.3	13.0	13.1	12.6	12.1	9.5	9.3	3.6	5.6	1.4	1.0	1.9	2.4	4.8	24	13.1	1.0	8.5
6/14/08	3.9	6.2	4.9	4.6	4.3	4.7	4.0	3.2	4.5	3.7	4.4	5.4	6.4	5.3	3.8	6.5	8.6	8.1	6.4	4.4	4.8	4.9	4.9	2.9	24	8.6	2.9	5.0
6/15/08	2.2	2.4	2.1	3.2	4.4	4.0	4.8	5.2	6.2	8.5	9.9	10.3	9.9	9.4	9.1	9.3	8.7	7.6	6.6	4.3	3.3	3.6	2.4	1.6	24	10.3	1.6	5.8
6/16/08	1.9	2.6	3.2	1.6	1.7	1.5	1.0	0.6	1.5	1.7	1.5	2.0	2.3	2.6	2.2	2.7	3.0	3.4	2.8	1.9	1.4	2.1	2.6	3.9	24	3.9	0.6	2.2
6/17/08	3.6	3.6	3.3	3.5	3.8	3.9	3.8	4.7	5.3	5.5	6.0	5.7	5.1	4.6	4.6	4.2	4.5	3.9	4.4	3.5	3.4	3.7	4.3	3.8	24	6.0	3.3	4.3
6/18/08	3.6	3.6	4.2	3.0	1.8	2.6	3.1	6.2	5.5	5.7	6.7	6.7	5.5	4.3	3.6	4.2	3.9	4.5	4.3	2.7	3.6	4.0	6.1	6.2	24	6.7	1.8	4.4
6/19/08	6.2	4.4	4.3	4.9	5.4	4.6	4.5	6.6	6.2	4.2	4.2	3.6	2.8	2.3	2.0	2.7	2.4	1.8	4.3	2.0	3.0	3.3	2.2	3.7	24	6.6	1.8	3.8
6/20/08	2.1	1.8	2.9	2.7	1.7	2.3	4.0	2.6	1.4	3.5	4.4	5.0	5.2	5.4	5.6	6.0	6.2	5.9	4.4	2.9	1.9	1.3	2.8	1.9	24	6.2	1.3	3.5
6/21/08	2.1	2.3	3.1	1.8	3.4	1.4	1.2	1.9	2.6	2.6	2.9	3.0	3.3	3.5	3.5	4.0	3.7	3.3	3.6	2.5	2.3	1.4	0.6	1.6	24	4.0	0.6	2.6
6/22/08	1.5	1.3	1.3	1.3	1.5	1.6	0.7	0.8	0.9	1.8	2.7	3.0	3.1	2.7	3.6	3.8	4.0	3.5	4.2	3.9	4.1	4.9	4.4	4.4	24	4.9	0.7	2.7
6/23/08	4.5	4.9	5.6	5.7	3.9	3.4	3.6	5.2	6.1	7.8	7.4	7.3	7.1	6.2	5.5	5.8	5.8	6.6	5.6	4.7	4.5	4.0	4.0	4.0	24	7.8	3.4	5.4
6/24/08	3.7	4.1	4.5	3.3	3.5	3.5	3.6	4.4	2.7	2.4	3.5	5.3	5.8	6.4	6.5	6.8	6.9	7.6	6.5	4.9	5.5	10.0	3.0	3.4	24	10.0	2.4	4.9
6/25/08	4.4	4.6	4.2	2.2	3.2	3.3	3.9	4.4	4.9	5.3	6.3	6.5	6.5	4.7	3.9	3.1	2.9	2.1	2.3	2.0	3.4	3.4	4.1	4.5	24	6.5	2.0	4.0
6/26/08	5.1	4.7	10.2	4.7	2.3	5.1	2.3	3.0	5.3	5.1	6.2	6.4	8.3	5.1	4.6	4.3	4.6	5.0	4.1	3.2	3.9	9.2	5.6	3.0	24	10.2	2.3	5.1
6/27/08	1.8	4.8	1.6	2.5	5.2	6.1	6.3	7.0	3.6	5.0	7.0	10.0	9.3	11.9	12.7	12.4	11.3	9.5	7.2	4.2	3.6	4.3	5.1	5.6	24	12.7	1.6	6.6
6/28/08	4.7	9.2	9.4	10.5	8.7	9.6	10.7	12.4	13.3	13.1	13.8	14.2	13.8	13.3	11.4	11.7	10.1	11.1	9.3	7.4	5.8	4.6	5.2	5.6	24	14.2	4.6	10.0
6/29/08	6.2	5.1	5.3	5.0	4.9	4.8	5.0	5.4	6.1	6.6	7.0	7.2	6.1	6.3	5.9	5.6	5.1	4.4	4.0	2.2	1.9	1.6	1.4	0.5	24	7.2	0.5	4.7
6/30/08	1.7	2.3	2.7	3.0	3.7	4.3	3.5	3.2	4.1	4.6	4.4	4.8	5.2	5.9	5.7	5.5	5.2	4.9	4.2	3.7	4.1	5.1	4.9	5.1	24	5.9	1.7	4.2
																									0			

hr max	10.3	11.6	15.4	14.2	13.2	13.0	13.4	12.4	13.3	13.1	13.8	14.2	13.8	13.3	12.7	12.4	11.4	11.1	11.9	12.7	13.0	11.3	12.2	11.0
hr min	1.5	1.1	1.3	1.3	0.8	1.4	0.7	0.6	0.9	1.7	1.5	2.0	1.9	2.0	1.4	1.9	1.7	1.2	1.8	1.4	1.0	1.3	0.6	0.5
average	4.5	4.8	5.1	4.7	4.7	4.7	4.8	5.4	5.6	5.8	6.2	6.5	6.5	6.5	6.2	6.3	6.1	5.7	5.5	4.2	4.3	4.6	4.4	4.6

monthly max hr	monthly min hr	monthly ave hr
15.4	0.5	5.3
6/11/08	6/29/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	3.0	2.5	2.1	2.5	2.2	2.3	2.3	3.2	4.1	4.0	4.3	4.3	4.6	4.4	4.2	3.4	3.4	3.5	2.8	1.4	1.0	1.9	4.1	7.0	24	7.0	1.0	3.3
6/2/08	12.4	9.8	9.4	6.8	7.1	2.3	2.2	2.3	3.5	3.9	2.5	3.7	3.1	2.4	2.9	3.1	3.6	5.4	10.1	11.3	11.3	9.6	9.1	12.4	24	12.4	2.2	6.3
6/3/08	8.6	5.8	3.7	3.4	5.1	4.5	4.5	4.7	5.0	4.1	3.3	2.4	2.0	2.1	1.5	2.0	1.7	1.5	1.9	3.0	4.9	6.1	3.9	4.2	24	8.6	1.5	3.7
6/4/08	6.3	4.5	6.1	3.2	4.5	5.2	4.6	3.6	3.9	3.2	3.5	3.6	3.0	3.7	5.9	4.1	5.3	5.5	6.7	7.0	6.4	5.7	7.5	8.7	24	8.7	3.0	5.1
6/5/08	11.4	7.9	10.1	11.0	11.1	10.6	10.8	12.5	13.4	14.9	16.2	15.2	14.2	15.5	11.6	14.7	14.1	13.7	15.0	16.7	17.3	14.6	12.8	11.1	24	17.3	7.9	13.2
6/6/08	12.0	11.8	13.1	16.9	15.9	15.8	16.2	14.7	14.4	15.1	15.7	14.9	13.9	13.1	12.7	12.7	13.2	11.0	8.6	7.3	6.3	8.3	5.6	5.4	24	16.9	5.4	12.3
6/7/08	7.7	8.2	8.3	7.2	7.0	6.9	6.5	5.3	5.5	4.8	4.4	4.7	5.4	4.9	4.8	4.2	3.6	4.1	3.3	3.1	3.7	2.9	4.2	3.6	24	8.3	2.9	5.2
6/8/08	2.1	1.5	1.7	2.6	3.2	4.1	3.0	2.4	2.8	3.9	3.9	5.5	5.2	5.3	7.3	7.3	7.4	10.8	12.1	8.2	8.3	8.2	4.9	6.5	24	12.1	1.5	5.3
6/9/08	7.4	9.0	9.3	9.6	10.9	11.4	12.0	13.2	13.4	12.1	12.5	12.5	10.9	10.1	9.8	8.7	10.0	9.1	7.2	5.0	5.2	4.8	4.0	4.4	24	13.4	4.0	9.3
6/10/08	4.2	4.5	5.2	5.6	5.1	4.6	5.2	4.5	5.1	5.2	7.0	8.4	10.1	11.5							13.2	14.2	15.7	14.3	18	15.7	4.2	8.0
6/11/08	11.4	14.9	20.3	18.5	14.8	14.9	15.7	13.6	11.1	8.6	5.1	2.8	7.1	9.5	11.2	12.5	11.5	8.4	5.8	4.4	5.8	6.1	8.6	9.0	24	20.3	2.8	10.5
6/12/08	2.8	4.2	6.9	8.3	10.3	9.8	8.6	9.0	9.7	9.1	8.3	8.0	8.8	12.3	11.8	12.0	7.7	9.7	11.8	13.6	13.1	11.8	12.5	12.9	24	13.6	2.8	9.7
6/13/08	13.2	14.3	13.8	13.1	11.8	9.0	11.3	13.3	12.5	13.1	14.1	14.7	15.1	14.3	13.7	10.8	11.0	4.1	7.4	1.5	1.5	2.7	3.9	8.3	24	15.1	1.5	10.4
6/14/08	5.9	9.0	9.4	9.4	9.6	7.8	6.9	3.9	4.7	4.0	4.9	5.8	6.8	5.7	4.3	7.1	9.8	9.1	7.6	7.2	8.6	10.0	8.5	5.7	24	10.0	3.9	7.2
6/15/08	4.6	4.6	3.4	5.0	6.4	6.9	6.8	5.9	6.9	9.4	11.1	11.5	11.0	10.5	10.1	10.4	9.9	8.5	7.6	6.1	6.3	7.7	5.7	3.8	24	11.5	3.4	7.5
6/16/08	3.3	3.8	4.9	4.5	4.4	4.2	1.9	0.9	1.7	1.7	1.6	2.2	2.5	2.9	2.5	2.9	3.5	3.8	3.1	2.0	1.7	2.9	3.6	5.0	24	5.0	0.9	3.0
6/17/08	4.4	5.1	6.1	6.6	6.7	6.1	6.3	5.6	5.7	6.2	6.5	6.4	5.6	5.0	5.1	4.6	5.1	4.8	5.5	5.6	7.3	8.0	8.0	7.9	24	8.0	4.4	6.0
6/18/08	8.2	9.6	9.5	8.3	6.8	8.1	6.5	8.2	6.8	6.6	7.6	7.5	6.1	4.8	3.6	4.7	4.4	5.1	4.9	4.3	5.8	6.8	9.3	9.1	24	9.6	3.6	6.8
6/19/08	10.0	7.9	8.3	6.7	8.8	8.6	7.2	7.8	6.8	4.7	4.7	4.2	3.3	2.6	2.2	3.1	2.9	2.2	5.4	3.3	4.7	4.1	3.3	6.1	24	10.0	2.2	5.4
6/20/08	5.8	3.6	5.5	6.7	3.9	2.0	5.2	3.5	1.6	3.9	4.9	5.7	5.8	6.1	6.3	6.8	7.2	6.5	5.1	4.2	2.4	0.8	1.4	1.4	24	7.2	0.8	4.4
6/21/08	1.7	2.1	3.2	3.3	5.3	3.3	3.2	2.8	3.0	2.9	3.3	3.3	3.7	4.0	3.9	4.6	4.3	4.0	5.0	3.9	5.3	4.7	3.4	3.3	24	5.3	1.7	3.6
6/22/08	3.6	4.7	3.9	3.2	3.3	2.7	1.8	0.8	0.7	1.9	3.0	3.3	3.6	3.2	4.2	4.3	4.7	4.0	4.9	5.6	6.8	8.6	8.9	9.1	24	9.1	0.7	4.2
6/23/08	9.2	10.6	10.5	11.2	6.0	5.2	5.7	8.0	7.7	8.9	8.3	8.1	8.1	6.8	5.7	6.3	6.1	7.3	6.0	6.4	7.7	5.7	6.0	6.3	24	11.2	5.2	7.4
6/24/08	5.4	6.9	7.7	5.8	5.9	7.9	5.0	5.5	3.0	2.7	4.0	6.0	6.5	6.9	6.9	7.6	7.8	9.2	7.8	7.3	9.9	13.0	3.7	5.9	24	13.0	2.7	6.6
6/25/08	7.7	7.3	8.5	4.6	5.8	5.7	6.9	6.5	5.7	5.8	7.1	7.5	7.3	5.4	4.5	3.5	3.5	2.5	2.8	2.4	4.2	5.1	5.4	7.6	24	8.5	2.4	5.6
6/26/08	8.2	5.8	15.2	6.8	2.7	7.7	3.9	3.7	5.9	5.4	7.3	7.9	9.5	5.8	5.1	4.6	5.2	5.5	5.7	6.3	6.5	12.3	7.7	5.3	24	15.2	2.7	6.7
6/27/08	1.8	6.6	2.2	3.9	9.2	9.8	9.0	10.9	6.1	6.4	8.2	11.8	11.3	14.5	15.3	15.0	13.8	11.9	9.3	6.7	6.7	6.8	8.9	9.1	24	15.3	1.8	9.0
6/28/08	8.0	12.5	12.4	13.5	11.5	12.4	13.5	15.4	16.0	16.1	16.8	17.3	16.9	16.3	14.1	14.6	13.0	13.6	12.3	10.3	9.5	7.9	9.5	10.3	24	17.3	7.9	13.1
6/29/08	11.1	9.6	9.9	9.6	9.2	8.6	7.3	6.3	6.9	7.6	8.1	8.5	7.1	7.4	7.1	6.7	6.2	5.4	5.0	3.6	3.4	1.6	1.0	0.9	24	11.1	0.9	6.6
6/30/08	1.3	2.3	3.0	3.7	5.0	5.5	5.0	4.3	4.5	5.0	5.0	5.3	5.7	6.6	6.3	6.1	5.7	5.5	5.4	7.1	9.2	10.8	11.1	11.0	24	11.1	1.3	5.9
																									0			

hr max	13.2	14.9	20.3	18.5	15.9	15.8	16.2	15.4	16.0	16.1	16.8	17.3	16.9	16.3	15.3	15.0	14.1	13.7	15.0	16.7	17.3	14.6	15.7	14.3
hr min	1.3	1.5	1.7	2.5	2.2	2.0	1.8	0.8	0.7	1.7	1.6	2.2	2.0	2.1	1.5	2.0	1.7	1.5	1.9	1.4	1.0	0.8	1.0	0.9
average	6.8	7.0	7.8	7.4	7.3	7.1	6.8	6.7	6.6	6.7	7.1	7.4	7.5	7.5	7.1	7.2	7.1	6.7	6.8	6.0	6.8	7.1	6.7	7.2

monthly	monthly	monthly
max hr	min hr	ave hr
20.3	0.7	7.0
6/11/08	6/22/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
6/1/08	2.5	2.3	2.6	2.8	2.1	2.4	2.9	3.6	4.1	4.0	4.6	4.4	4.8	4.6	4.5	3.7	3.7	3.5	2.9	1.7	0.9	2.6	6.0	8.9
6/2/08	14.0	10.9	10.3	7.6	9.3	1.7	2.3	2.8	3.7	3.9	2.5	3.8	3.3	2.4	3.1	3.2	3.8	5.6	11.3	12.7	13.7	12.6	10.9	14.7
6/3/08	10.3	6.7	4.3	3.3	5.2	4.5	4.3	5.4	4.7	4.2	3.5	2.5	1.9	2.0	1.4	2.1	1.8	1.5	1.9	3.1	4.9	5.6	4.9	5.4
6/4/08	6.6	4.2	5.0	3.1	4.0	6.6	5.8	6.2	4.6	3.2	3.7	3.7	3.2	3.8	6.1	4.4	5.7	6.2	7.7	9.4	9.2	8.4	9.9	11.0
6/5/08	13.0	9.3	11.4	12.4	12.6	12.2	13.1	14.2	14.7	15.9	17.3	17.6	16.8	17.6	14.6	18.9	17.0	16.8	18.4	18.1	17.7	16.0	14.6	12.6
6/6/08	13.9	13.6	14.6	18.7	17.6	17.3	17.8	16.3	15.7	16.2	16.5	15.5	14.6	13.6	13.2	13.1	13.6	11.4	9.3	8.1	6.8	9.3	7.9	7.3
6/7/08	8.9	9.7	10.1	8.7	8.9	8.2	7.6	6.6	5.9	4.8	4.3	4.8	5.4	5.0	5.0	4.4	3.8	4.4	3.4	3.2	3.7	2.8	4.0	3.5
6/8/08	2.0	1.3	1.5	1.5	2.9	4.1	4.3	3.4	3.0	3.9	4.2	5.7	5.3	5.3	7.5	7.6	7.6	11.3	13.6	9.9	11.1	10.6	6.0	7.4
6/9/08	9.3	11.2	11.2	11.6	13.0	13.6	13.3	13.9	14.1	12.6	13.0	12.7	11.2	10.4	10.0	9.0	10.3	9.3	7.4	5.7	5.7	5.8	5.2	5.2
6/10/08	5.3	5.8	5.8	4.7	4.3	4.7	6.4	5.0	5.1	5.4	7.2	8.8	10.4	11.9							14.6	16.3	17.5	15.6
6/11/08	13.7	17.0	23.0	20.8	17.9	16.7	16.8	14.6	12.2	9.1	5.8	2.9	7.4	9.7	11.7	13.2	11.8	8.8	6.3	4.8	6.0	6.4	10.5	10.9
6/12/08	4.4	4.0	6.9	8.5	11.4	12.1	11.3	10.0	10.0	9.2	8.6	8.1	8.9	12.7	12.1	12.5	9.3	11.2	13.4	15.3	15.4	14.1	14.3	15.2
6/13/08	15.4	16.6	16.2	15.7	14.4	11.3	13.1	14.0	13.0	13.7	14.6	15.1	15.6	14.7	14.1	11.2	11.8	4.5	8.7	2.0	3.4	4.2	5.6	9.8
6/14/08	6.8	8.4	9.9	11.0	11.0	9.1	8.0	5.2	4.7	4.0	5.1	6.0	6.9	5.8	4.7	7.4	10.1	9.6	8.7	8.9	10.5	11.6	11.0	9.0
6/15/08	7.8	6.7	5.7	6.5	6.9	6.8	7.7	6.8	7.0	9.6	11.3	11.7	11.2	10.8	10.3	10.8	10.2	8.8	7.9	7.1	7.4	9.1	8.4	6.3
6/16/08	4.9	5.2	5.2	4.9	4.7	4.8	3.1	1.7	1.7	1.7	1.5	2.5	2.7	3.0	2.6	2.9	3.7	3.9	3.0	2.0	1.7	2.5	3.3	4.7
6/17/08	4.4	4.7	6.7	7.1	7.3	7.1	6.4	6.4	5.1	5.9	6.4	6.4	5.5	4.7	5.3	4.7	5.3	4.9	5.7	6.8	8.0	8.0	8.0	8.8
6/18/08	10.3	12.0	13.2	11.8	11.0	11.1	10.0	10.8	7.2	6.9	7.8	7.7	6.1	4.7	3.7	4.9	4.3	5.1	5.1	4.6	5.6	6.7	10.0	11.6
6/19/08	12.1	10.9	7.7	8.1	9.6	9.2	9.1	9.5	6.9	4.8	4.8	4.3	3.4	2.6	2.2	3.1	3.0	2.3	6.2	4.2	4.8	4.5	4.3	8.0
6/20/08	9.2	7.1	5.5	9.4	6.7	3.5	4.6	3.4	1.6	4.0	5.1	5.8	6.0	6.3	6.6	7.1	7.6	6.8	5.4	4.4	2.5	1.0	1.2	1.4
6/21/08	1.4	2.0	3.5	4.5	6.2	3.6	2.4	3.6	3.1	3.1	3.5	3.5	3.9	4.3	4.2	4.7	4.7	4.3	5.3	4.1	6.7	6.2	4.6	5.8
6/22/08	5.5	5.4	4.2	3.7	3.2	2.7	1.8	0.9	0.5	2.1	3.2	3.3	3.7	3.4	4.5	4.4	4.9	4.2	5.0	6.1	6.8	8.7	9.0	9.3
6/23/08	9.5	12.6	13.8	14.6	9.2	7.8	9.3	11.0	10.4	10.3	8.7	8.5	8.3	7.3	5.8	6.1	6.3	7.7	6.0	6.1	7.2	7.1	9.2	10.8
6/24/08	10.4	10.3	9.6	9.3	9.1	8.5	8.7	6.6	3.0	2.7	4.1	6.1	6.4	7.2	7.7	7.9	8.7	11.0	9.4	7.9	10.5	14.1	4.3	8.0
6/25/08	9.3	8.5	9.3	7.4	7.4	7.3	7.4	8.5	6.6	5.9	7.3	7.8	7.5	5.6	4.7	3.7	3.6	2.6	2.9	2.7	4.4	4.8	5.3	7.6
6/26/08	8.8	6.2	17.1	7.9	3.4	7.1	5.0	4.4	6.7	5.4	8.2	9.3	10.4	6.0	5.5	5.0	5.8	5.6	5.2	7.6	8.2	13.2	8.7	6.8
6/27/08	3.0	7.6	2.9	4.5	9.9	12.8	11.6	14.0	7.4	8.3	8.9	12.2	11.7	15.0	15.9	15.8	14.7	12.8	10.4	8.2	8.3	7.9	10.4	10.7
6/28/08	9.7	14.5	14.2	15.2	13.5	14.2	14.7	16.3	16.9	16.9	17.6	18.0	18.1	17.4	15.1	15.7	14.6	14.7	14.0	12.2	12.3	10.4	12.0	12.8
6/29/08	13.5	13.0	12.5	11.9	11.2	11.0	9.8	7.4	7.3	8.0	8.4	8.9	7.6	7.8	7.5	7.2	6.7	5.9	5.5	4.2	3.6	1.7	1.7	2.3
6/30/08	2.3	3.0	3.7	5.3	5.4	5.7	5.0	5.2	4.9	5.1	5.3	5.6	6.0	7.0	6.8	6.6	6.3	6.4	5.6	7.4	10.2	11.9	9.9	9.7
hr max	15.4	17.0	23.0	20.8	17.9	17.3	17.8	16.3	16.9	16.9	17.6	18.0	18.1	17.6	15.9	18.9	17.0	16.8	18.4	18.1	17.7	16.3	17.5	15.6
hr min	1.4	1.3	1.5	1.5	2.1	1.7	1.8	0.9	0.5	1.7	1.5	2.5	1.9	2.0	1.4	2.1	1.8	1.5	1.9	1.7	0.9	1.0	1.2	1.4
average	8.3	8.4	8.9	8.8	8.6	8.3	8.1	7.9	7.1	7.0	7.4	7.8	7.8	7.8	7.5	7.6	7.6	7.3	7.4	6.8	7.7	8.1	8.0	8.7

valid hr count	daily max hr	daily min hr	daily ave hr
24	8.90	0.90	3.59
24	14.7	1.7	7.1
24	10.3	1.4	4.0
24	11.0	3.1	5.9
24	18.9	9.3	15.1
24	18.7	6.8	13.4
24	10.1	2.8	5.7
24	13.6	1.3	5.9
24	14.1	5.2	10.2
18	17.5	4.3	8.6
24	23.0	2.9	11.6
24	15.4	4.0	10.8
24	16.6	2.0	11.6
24	11.6	4.0	8.1
24	11.7	5.7	8.5
24	5.2	1.5	3.2
24	8.8	4.4	6.2
24	13.2	3.7	8.0
24	12.1	2.2	6.1
24	9.4	1.0	5.1
24	6.7	1.4	4.1
24	9.3	0.5	4.4
24	14.6	5.8	8.9
24	14.1	2.7	8.0
24	9.3	2.6	6.2
24	17.1	3.4	7.4
24	15.9	2.9	10.2
24	18.1	9.7	14.6
24	13.5	1.7	7.7
24	11.9	2.3	6.3
0			

monthly max hr	monthly min hr	monthly ave hr
23.0	0.5	7.9
6/11/08	6/22/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
6/1/08	289	302	355	13	96	169	186	179	200	222	284	275	294	312	295	262	262	237	239	340	204	167	171	183	24
6/2/08	243	257	191	178	14	280	350	12	88	47	20	28	28	73	84	86	87	103	85	75	69	42	76	97	24
6/3/08	95	107	94	8	11	3	34	58	47	50	66	75	101	114	104	177	92	45	66	76	117	153	106	95	24
6/4/08	41	86	124	70	220	231	225	197	180	181	186	188	160	159	76	69	63	47	57	65	65	56	65	90	24
6/5/08	98	76	74	76	70	66	64	67	70	72	72	61	56	62	57	58	61	62	58	48	43	34	27	1	24
6/6/08	350	340	331	331	325	315	304	299	299	295	292	288	284	273	260	241	244	241	231	220	214	236	232	243	24
6/7/08	262	263	268	274	278	278	273	280	299	284	266	255	261	287	304	299	290	310	312	288	281	253	224	213	24
6/8/08	226	290	255	191	223	196	182	175	146	157	184	206	228	312	305	287	284	271	284	275	272	293	249	238	24
6/9/08	236	261	254	252	253	249	246	265	279	289	289	290	299	305	315	298	284	272	288	331	331	327	290	313	24
6/10/08	311	311	310	313	346	337	24	30	34	55	68	78	87	87							70	71	72	42	18
6/11/08	57	45	71	76	68	74	75	80	85	79	67	3	306	304	293	290	297	293	273	250	257	264	260	302	24
6/12/08	243	197	208	230	232	216	230	239	250	253	256	240	229	232	258	276	257	250	259	260	257	256	253	259	24
6/13/08	255	271	271	269	269	252	270	284	279	284	285	291	289	290	290	280	275	28	358	104	164	255	253	286	24
6/14/08	256	218	234	251	258	231	234	254	247	251	251	241	242	247	262	256	275	286	288	274	271	288	14	20	24
6/15/08	5	357	335	297	243	247	276	315	311	312	317	311	310	319	329	325	322	341	345	351	346	357	351	1	24
6/16/08	359	360	2	336	329	350	222	62	36	74	359	233	227	252	293	277	281	309	330	339	27	102	111	126	24
6/17/08	139	158	176	180	168	164	159	155	157	152	152	146	150	157	134	143	98	100	97	110	93	109	113	122	24
6/18/08	125	118	127	123	119	133	154	139	154	149	147	150	150	159	163	149	149	150	147	141	118	129	93	68	24
6/19/08	111	99	169	189	215	217	214	238	247	303	334	360	37	47	34	27	34	16	17	346	340	342	331	342	24
6/20/08	21	120	272	356	344	240	277	323	259	238	283	313	329	337	344	344	335	328	332	332	299	282	239	253	24
6/21/08	246	251	253	223	239	47	32	75	91	83	64	55	72	63	74	68	68	41	26	43	32	37	57	9	24
6/22/08	7	360	354	11	15	21	293	345	48	52	67	66	52	96	92	97	110	99	100	109	131	131	150	147	24
6/23/08	134	127	135	140	180	175	169	187	181	179	176	191	195	182	172	165	170	171	168	166	163	169	175	180	24
6/24/08	177	190	185	173	169	173	168	185	183	151	137	114	152	175	180	190	176	180	177	158	157	19	146	230	24
6/25/08	203	227	340	360	311	308	303	308	323	320	332	338	329	330	338	357	17	40	62	113	123	124	125	131	24
6/26/08	192	154	144	62	192	211	183	138	145	164	185	209	162	183	180	181	180	172	157	123	91	63	179	190	24
6/27/08	323	177	278	234	240	285	289	284	243	234	247	288	315	318	321	325	327	329	327	310	288	253	265	305	24
6/28/08	298	290	303	313	307	299	302	312	316	316	322	320	326	336	338	338	336	328	333	319	321	302	314	322	24
6/29/08	330	330	333	333	327	309	318	328	340	349	350	357	358	351	358	3	8	355	356	354	336	324	346	316	24
6/30/08	225	183	177	174	184	206	217	221	223	221	208	189	191	198	187	184	180	178	166	150	143	148	160	153	24
																									0

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
6/1/08	326	341	53	72	92	138	160	180	206	228	285	276	294	313	291	260	260	241	243	328	220	174	174	186	24
6/2/08	246	264	190	166	26	293	14	54	91	51	29	29	29	75	91	92	95	107	89	80	75	49	80	103	24
6/3/08	101	112	103	13	14	6	39	63	50	56	70	78	108	119	116	180	102	55	76	89	119	145	115	105	24
6/4/08	45	84	128	95	192	200	198	192	185	183	189	188	160	160	81	74	73	55	61	72	85	83	73	97	24
6/5/08	103	84	78	81	75	71	69	72	75	77	77	66	61	68	62	63	66	67	63	54	49	39	32	5	24
6/6/08	352	342	333	332	326	315	303	299	299	294	290	288	284	274	261	244	245	244	235	225	222	242	258	269	24
6/7/08	281	284	281	286	290	291	286	285	301	284	268	257	262	287	303	300	292	310	311	291	289	263	236	245	24
6/8/08	252	284	263	207	229	201	185	176	150	161	187	208	228	314	305	288	285	272	285	278	277	302	302	261	24
6/9/08	255	266	257	256	256	253	249	266	279	289	290	291	299	305	314	297	284	275	290	330	338	351	331	338	24
6/10/08	342	334	334	335	349	0	20	35	40	58	72	82	91	91							70	72	72	43	18
6/11/08	56	46	71	76	68	75	75	79	85	79	70	0	303	302	290	287	294	291	273	252	258	273	273	299	24
6/12/08	302	221	208	224	230	219	231	239	248	251	254	238	227	230	256	273	257	249	258	258	255	255	253	258	24
6/13/08	254	269	269	268	268	256	269	281	277	281	282	287	286	287	286	278	272	17	354	68	359	304	294	298	24
6/14/08	281	226	239	257	273	257	254	255	246	251	248	241	241	246	259	255	272	284	287	278	287	302	20	32	24
6/15/08	28	18	359	320	264	261	285	313	309	309	314	308	307	316	326	322	319	338	343	349	355	9	13	25	24
6/16/08	41	30	13	15	11	16	13	9	25	58	356	239	231	250	287	272	282	303	324	332	22	77	88	110	24
6/17/08	127	157	184	184	174	167	161	154	157	153	153	147	149	155	133	143	99	101	100	110	97	100	104	114	24
6/18/08	130	129	129	134	141	142	151	140	152	148	147	150	150	159	163	149	150	149	146	141	120	124	93	65	24
6/19/08	107	107	155	174	196	205	221	239	246	301	333	360	35	33	33	23	32	9	19	3	354	4	13	357	24
6/20/08	13	51	31	359	12	325	274	326	266	238	279	310	325	333	343	341	332	326	330	334	336	346	251	261	24
6/21/08	254	260	252	258	264	335	38	75	94	84	69	55	68	61	70	67	66	40	28	43	37	48	55	35	24
6/22/08	39	49	48	47	58	79	86	10	47	51	64	66	58	92	96	95	112	101	103	111	126	127	143	146	24
6/23/08	138	132	134	139	162	170	172	186	179	177	174	190	194	179	171	164	170	170	167	165	162	168	172	176	24
6/24/08	174	179	181	175	174	177	170	186	185	152	134	114	151	174	179	189	175	179	175	160	155	15	147	197	24
6/25/08	181	203	335	343	318	310	311	313	321	317	329	336	327	328	336	355	16	42	60	114	123	118	121	128	24
6/26/08	198	166	140	73	166	200	162	138	147	164	184	208	162	181	179	179	180	171	159	137	109	64	171	202	24
6/27/08	194	176	167	211	239	285	290	283	242	237	247	286	312	315	318	322	324	326	324	316	306	284	277	309	24
6/28/08	304	288	302	311	305	298	300	310	314	314	320	318	323	333	336	335	334	327	330	318	324	320	325	330	24
6/29/08	334	334	338	342	337	319	321	327	338	347	348	355	355	349	357	360	4	354	355	355	6	22	40	106	24
6/30/08	166	165	174	176	190	209	222	222	221	219	207	189	190	197	186	183	179	176	167	153	146	149	154	153	24
																									0

Validated by:	Roger L Thompson	Date: 7/20/08
Analyst:	Denise Hazelman	Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
6/1/08	354	17	73	75	101	150	155	180	214	237	283	277	292	312	288	260	260	242	245	332	262	181	180	189	24
6/2/08	250	270	189	170	32	324	51	69	98	52	35	30	32	77	98	96	101	111	93	83	80	57	83	106	24
6/3/08	106	118	114	20	17	9	42	66	51	57	71	82	110	122	142	185	111	64	88	99	128	157	142	120	24
6/4/08	44	80	139	128	180	190	193	187	189	185	192	188	163	163	90	85	82	69	68	80	100	97	83	102	24
6/5/08	107	93	82	84	78	74	73	76	78	79	79	69	64	71	65	66	69	70	66	57	52	42	35	9	24
6/6/08	355	345	336	335	329	319	308	303	303	298	294	291	287	277	263	247	247	245	239	230	228	247	273	290	24
6/7/08	294	297	291	300	302	303	300	297	306	287	272	259	264	288	303	301	296	312	311	295	290	265	236	241	24
6/8/08	247	271	249	229	226	204	193	189	162	167	190	210	231	314	305	290	288	275	288	282	283	313	316	273	24
6/9/08	268	273	263	261	260	258	254	270	282	292	292	294	302	306	315	299	286	278	293	329	338	355	341	354	24
6/10/08	352	345	341	339	349	3	24	39	46	61	77	86	93	94							79	81	80	51	18
6/11/08	63	54	78	84	76	83	83	87	92	87	80	10	308	306	294	292	299	296	282	261	265	274	283	304	24
6/12/08	311	230	222	237	240	234	240	245	253	255	259	243	233	235	260	278	264	256	263	264	261	262	259	265	24
6/13/08	261	276	276	276	276	267	277	288	283	287	288	293	291	292	292	283	276	322	355	16	339	325	313	308	24
6/14/08	298	246	254	276	293	287	278	265	255	259	254	246	247	251	262	261	278	289	293	288	299	312	31	37	24
6/15/08	29	17	6	333	285	275	299	322	314	315	319	313	312	321	330	326	324	342	347	354	4	18	26	44	24
6/16/08	40	27	21	23	18	20	18	13	23	55	355	242	238	257	288	274	286	307	325	335	33	87	98	118	24
6/17/08	129	152	189	189	183	175	170	164	165	159	159	152	155	162	137	146	108	108	106	116	103	105	112	118	24
6/18/08	139	137	139	143	150	146	155	147	155	153	152	155	155	165	170	156	155	155	153	149	128	133	102	69	24
6/19/08	107	119	163	181	203	225	229	244	253	307	338	5	38	45	39	26	36	9	26	10	7	26	24	5	24
6/20/08	16	50	52	5	15	5	281	345	287	246	284	313	331	337	347	345	336	331	336	339	344	9	256	270	24
6/21/08	270	280	252	273	271	302	21	78	104	93	79	65	74	67	75	73	72	46	34	48	43	51	43	46	24
6/22/08	51	56	58	58	67	72	73	12	59	59	70	72	69	99	103	101	120	108	111	118	131	132	149	154	24
6/23/08	147	140	139	144	164	176	183	193	186	183	180	195	198	184	177	171	177	176	174	171	170	176	180	185	24
6/24/08	184	189	193	192	192	192	191	200	196	155	139	122	157	180	187	195	181	186	181	169	163	14	183	194	24
6/25/08	181	210	339	346	330	330	335	334	325	322	334	340	331	331	340	358	20	49	68	124	130	124	127	137	24
6/26/08	203	175	145	82	140	198	161	151	157	172	189	214	171	187	186	185	186	178	167	151	129	77	174	225	24
6/27/08	276	187	178	220	247	297	301	290	257	249	255	292	317	320	323	327	327	331	329	324	323	304	293	322	24
6/28/08	314	295	308	317	311	304	306	315	319	319	325	322	328	338	342	340	339	332	336	325	335	342	343	347	24
6/29/08	353	353	359	4	360	343	338	337	345	351	353	1	360	353	2	5	8	359	1	360	23	42	66	100	24
6/30/08	140	162	177	189	198	213	231	234	229	222	214	194	196	200	192	189	186	183	174	161	156	159	166	167	24
																									0

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	7.7	9.0	3.7	8.7	47.1	6.6	7.0	9.9	11.6	16.6	23.9	29.0	29.9	27.8	30.4	38.0	38.0	14.5	21.4	19.1	15.4	8.2	4.6	6.7	24	47.1	3.7	18.1
6/2/08	10.4	7.4	12.1	23.1	17.8	12.5	8.8	24.3	13.6	15.0	33.9	19.8	23.3	37.3	29.0	36.2	15.7	12.5	7.4	7.8	7.9	10.7	11.1	7.1	24	37.3	7.1	16.9
6/3/08	7.4	7.9	15.8	7.6	7.7	8.2	7.8	8.1	9.5	10.3	11.0	17.8	18.3	33.8	51.5	35.1	28.7	21.4	9.3	8.9	7.7	14.5	32.9	25.6	24	51.5	7.4	17.0
6/4/08	11.7	13.8	12.2	29.6	6.0	5.2	6.4	9.5	8.3	13.4	17.7	19.5	24.8	19.6	11.2	8.4	18.8	9.3	8.8	7.6	7.2	13.4	7.7	7.9	24	29.6	5.2	12.4
6/5/08	7.7	7.7	7.7	6.9	7.9	7.7	7.7	7.8	7.7	8.0	8.1	7.7	7.7	7.6	8.2	7.6	7.6	7.7	7.3	6.5	6.3	6.4	7.0	6.0	24	8.2	6.0	7.4
6/6/08	5.5	5.8	5.7	5.6	5.8	5.7	5.4	5.9	5.8	6.0	6.1	6.8	7.9	8.6	7.5	7.2	6.4	6.1	6.0	3.9	5.6	10.7	6.7	10.7	24	10.7	3.9	6.6
6/7/08	6.0	6.8	6.8	6.7	7.7	5.1	6.5	7.3	8.7	8.8	13.0	13.2	11.6	16.8	15.6	15.8	13.2	13.3	17.6	6.7	5.8	6.3	9.8	17.2	24	17.6	5.1	10.3
6/8/08	34.5	36.4	9.8	7.0	8.1	9.7	9.1	9.7	11.6	11.1	16.2	14.4	16.9	16.6	14.7	12.6	11.6	10.2	6.0	6.4	6.1	6.5	8.2	5.7	24	36.4	5.7	12.5
6/9/08	4.6	7.0	5.4	5.4	5.2	5.3	5.8	6.7	7.4	7.7	7.8	8.5	10.9	13.0	8.3	8.8	10.3	8.3	9.1	8.0	4.7	8.0	4.6	7.1	24	13.0	4.6	7.4
6/10/08	4.0	3.8	3.1	4.6	12.7	5.8	8.9	7.9	9.7	11.9	10.0	9.9	10.0	9.5							24.2	7.8	8.0	21.1	18	24.2	3.1	9.6
6/11/08	11.4	9.0	7.5	8.0	8.1	8.3	7.5	7.4	7.4	8.2	9.4	32.1	6.6	6.7	7.8	6.5	8.2	7.8	6.8	6.2	5.1	10.0	10.0	5.2	24	32.1	5.1	8.8
6/12/08	24.0	9.5	9.1	5.8	4.4	5.4	5.0	5.3	6.7	9.1	8.0	10.0	11.1	8.7	8.2	7.3	9.1	6.3	6.1	5.5	5.3	5.2	6.6	5.4	24	24.0	4.4	7.8
6/13/08	5.3	6.4	5.8	6.3	6.5	5.6	6.5	6.3	7.8	8.3	8.2	7.1	7.6	7.3	7.7	9.3	17.3	18.2	17.4	32.5	27.8	14.7	14.6	6.3	24	32.5	5.3	10.9
6/14/08	9.2	4.4	4.3	7.0	6.0	4.9	5.2	9.8	8.4	13.6	13.4	12.2	12.6	7.8	10.1	8.7	9.0	7.6	6.3	5.5	5.0	6.9	7.2	10.5	24	13.6	4.3	8.2
6/15/08	31.3	6.5	8.1	9.4	6.7	4.7	7.3	7.3	9.0	8.5	8.7	8.1	9.3	9.6	9.6	9.8	9.0	9.4	7.8	6.2	4.4	4.1	6.2	9.9	24	31.3	4.1	8.8
6/16/08	3.4	2.6	2.6	9.8	7.1	28.1	27.9	34.9	34.6	38.9	50.1	56.1	57.7	43.3	50.1	49.5	25.9	21.9	13.4	8.3	10.8	8.8	8.7	4.5	24	57.7	2.6	25.0
6/17/08	3.9	3.6	2.6	3.5	3.8	5.1	7.2	6.9	8.3	9.6	12.2	13.7	15.6	15.0	14.1	18.1	14.6	12.7	6.9	7.3	4.4	4.6	3.2	12.0	24	18.1	2.6	8.7
6/18/08	7.4	6.7	5.5	13.3	55.3	11.7	11.5	6.8	7.5	9.3	8.8	8.6	15.1	14.3	10.9	7.1	10.5	9.5	7.5	5.5	7.2	5.1	26.7	10.3	24	55.3	5.1	11.8
6/19/08	7.6	21.8	9.1	5.9	3.8	4.3	5.2	6.8	7.4	13.4	12.5	19.8	21.4	35.2	42.6	16.3	19.3	18.0	18.1	13.7	6.6	3.8	4.1	4.8	24	42.6	3.8	13.4
6/20/08	27.2	11.8	32.3	7.0	24.2	10.3	15.2	8.6	31.6	16.7	18.6	16.4	16.0	12.9	15.6	15.3	13.0	8.5	6.9	5.8	2.9	15.7	3.0	3.6	24	32.3	2.9	14.1
6/21/08	3.3	7.0	3.6	9.9	8.7	34.1	31.2	15.5	12.8	19.3	18.9	14.6	18.8	16.8	14.2	12.4	15.2	10.9	5.8	5.8	10.1	4.7	12.5	8.0	24	34.1	3.3	13.1
6/22/08	6.0	6.7	5.2	5.4	8.2	8.6	40.6	30.7	24.8	26.6	26.7	29.4	27.5	35.2	36.1	21.1	21.6	15.7	9.3	5.8	4.4	4.7	5.1	6.6	24	40.6	4.4	17.2
6/23/08	5.9	6.0	5.9	6.3	7.8	4.9	6.2	8.2	7.1	7.5	9.2	10.0	10.9	9.4	10.4	10.3	11.7	9.5	7.9	6.6	5.6	5.6	5.3	5.5	24	11.7	4.9	7.7
6/24/08	4.4	6.6	5.0	3.9	4.0	3.4	6.6	8.0	15.1	21.7	18.4	15.2	12.1	12.0	10.2	11.7	9.2	7.2	7.0	5.9	6.6	36.0	56.4	10.7	24	56.4	3.4	12.4
6/25/08	13.1	22.2	7.1	36.4	5.5	6.3	5.2	5.9	7.4	9.1	8.2	8.8	9.3	13.8	14.2	27.2	20.0	16.5	11.6	8.3	4.9	6.7	4.4	5.6	24	36.4	4.4	11.6
6/26/08	16.6	7.5	7.5	50.5	40.0	10.6	13.2	39.6	8.3	8.6	9.0	18.1	13.2	13.8	13.1	13.1	11.2	10.7	7.0	11.3	14.2	25.4	20.6	12.7	24	50.5	7.0	16.5
6/27/08	31.2	35.4	34.9	20.4	7.3	6.7	6.3	11.5	8.8	9.9	7.5	9.3	8.8	7.4	7.5	7.1	7.5	6.9	6.5	5.8	4.0	4.8	6.4	6.3	24	35.4	4.0	11.2
6/28/08	6.6	6.4	6.4	6.6	6.0	5.9	6.3	6.5	6.7	6.9	7.5	7.6	7.5	7.3	8.0	7.8	7.2	7.2	6.5	6.0	5.8	4.0	4.9	5.1	24	8.0	4.0	6.5
6/29/08	5.6	5.1	5.3	5.0	5.1	6.4	6.7	8.0	8.0	8.5	9.7	10.9	11.1	15.0	12.1	13.7	10.0	9.6	8.4	12.8	7.8	7.3	4.7	5.4	24	15.0	4.7	8.4
6/30/08	7.5	5.6	3.9	2.1	2.2	5.8	3.9	5.7	8.3	11.9	14.1	16.3	18.6	14.4	13.5	15.3	11.6	8.3	7.4	6.0	5.1	5.5	5.7	5.8	24	18.6	2.1	8.5
																									0			
hr max	34.5	36.4	34.9	50.5	55.3	34.1	40.6	39.6	34.6	38.9	50.1	56.1	57.7	43.3	51.5	49.5	38.0	21.9	21.4	32.5	27.8	36.0	56.4	25.6				
hr min	3.3	2.6	2.6	2.1	2.2	3.4	3.9	5.3	5.8	6.0	6.1	6.8	6.6	6.7	7.5	6.5	6.4	6.1	5.8	3.9	2.9	3.8	3.0	3.6				
average	11.0	9.9	8.5	10.9	11.6	8.4	9.9	11.2	11.0	12.5	14.2	15.7	15.7	16.6	17.0	15.8	14.2	11.2	9.2	8.5	8.0	9.2	10.6	8.6				

monthly max hr	monthly min hr	monthly ave hr
57.7	2.1	11.6
6/16/08	6/30/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
50sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	7.6	7.9	7.5	3.2	7.8	4.8	3.7	6.9	8.7	13.7	18.6	23.3	22.7	21.8	24.1	30.4	30.4	11.5	19.7	10.2	36.1	9.9	1.9	4.2	24	36.1	1.9	14.0
6/2/08	9.2	6.2	7.9	26.6	4.8	17.9	11.1	15.1	13.5	12.6	23.1	15.1	17.1	28.4	22.4	25.9	14.2	9.7	4.7	5.0	5.5	9.2	7.7	4.7	24	28.4	4.7	13.2
6/3/08	5.2	6.1	12.3	6.5	6.2	5.9	6.1	5.3	7.7	8.5	8.6	13.5	18.6	24.2	50.7	26.7	21.2	22.5	10.4	5.7	2.9	3.3	24.5	12.8	24	50.7	2.9	13.1
6/4/08	11.2	11.0	6.5	18.1	8.5	6.1	4.5	7.5	7.3	11.7	12.7	13.0	20.0	15.4	9.6	6.0	18.6	9.0	5.8	4.4	6.5	10.4	5.2	5.2	24	20.0	4.4	9.8
6/5/08	4.9	5.1	4.7	4.5	5.0	5.1	5.5	5.2	5.3	5.4	5.1	5.7	5.3	5.2	6.0	5.3	5.5	5.5	5.0	4.3	4.2	4.2	5.0	4.4	24	6.0	4.2	5.1
6/6/08	4.2	4.5	4.3	4.0	4.5	4.4	4.3	4.6	4.6	4.5	4.9	5.1	6.2	6.7	6.5	5.4	4.5	4.5	4.5	3.9	3.3	7.4	5.8	8.0	24	8.0	3.3	5.0
6/7/08	2.2	2.6	3.2	2.7	4.0	1.9	3.1	5.9	7.0	7.0	10.4	10.4	9.1	13.4	12.7	13.4	10.7	12.3	16.7	4.9	4.2	4.0	3.5	9.7	24	16.7	1.9	7.3
6/8/08	20.2	11.4	8.8	7.3	6.1	5.1	4.1	7.3	8.5	7.8	13.6	11.1	13.4	14.0	11.9	9.8	9.4	8.6	4.7	4.4	3.7	3.2	3.0	6.1	24	20.2	3.0	8.5
6/9/08	3.1	5.5	3.7	3.7	3.9	4.5	4.6	5.5	5.4	5.9	6.8	6.8	9.6	11.5	6.8	7.0	8.9	7.1	7.1	7.2	3.9	2.7	3.4	4.9	24	11.5	2.7	5.8
6/10/08	3.2	2.3	2.3	1.9	2.2	2.0	3.8	5.8	7.2	8.9	7.4	8.1	7.2	6.7							23.9	5.6	5.3	20.1	18	23.9	1.9	6.9
6/11/08	9.2	7.3	5.1	5.5	5.8	5.9	5.2	5.2	5.3	6.1	6.8	26.4	5.7	5.5	6.7	5.2	6.9	6.5	5.6	4.8	3.7	4.6	5.5	4.0	24	26.4	3.7	6.6
6/12/08	31.9	10.3	6.5	2.7	2.1	3.5	3.9	4.5	5.2	7.3	6.4	8.3	9.7	7.3	6.6	6.1	7.6	5.1	4.8	4.3	4.1	4.1	5.3	4.2	24	31.9	2.1	6.7
6/13/08	4.1	5.6	4.8	5.4	5.5	5.3	6.0	5.3	6.7	7.1	6.6	5.4	6.1	6.1	6.6	7.9	17.1	24.0	16.1	38.0	38.5	8.7	8.0	3.6	24	38.5	3.6	10.4
6/14/08	6.8	4.2	1.9	3.5	2.9	4.5	3.9	7.8	7.5	10.7	10.8	9.6	9.4	5.5	8.4	8.5	8.0	6.0	5.3	3.2	2.7	5.2	7.0	5.0	24	10.8	1.9	6.2
6/15/08	8.8	3.1	5.3	6.8	3.6	1.7	4.9	6.3	7.1	6.7	7.5	6.3	8.0	8.2	8.0	8.0	7.5	8.2	6.0	3.9	2.2	1.4	1.7	5.1	24	8.8	1.4	5.7
6/16/08	1.9	2.3	1.2	1.5	1.4	1.7	5.6	55.5	25.8	47.1	45.4	42.7	40.1	33.5	44.7	39.5	18.9	18.9	11.6	6.0	10.6	2.4	3.2	3.1	24	55.5	1.2	19.4
6/17/08	3.3	5.0	2.3	2.5	2.4	1.4	3.5	5.8	5.9	6.6	9.0	11.6	13.0	10.1	12.7	16.0	12.2	12.3	4.8	4.7	3.2	1.6	0.8	8.3	24	16.0	0.8	6.6
6/18/08	2.4	3.3	2.2	2.9	6.1	2.4	4.8	4.5	4.5	6.8	6.2	7.0	12.3	10.6	8.5	5.4	7.4	6.3	4.8	3.3	3.9	1.9	29.6	8.2	24	29.6	1.9	6.5
6/19/08	4.5	10.3	4.4	1.9	2.6	2.1	3.1	5.4	5.6	11.3	10.3	17.0	16.6	35.8	37.4	12.5	17.8	16.2	18.4	8.1	3.0	2.0	5.0	5.0	24	37.4	1.9	10.7
6/20/08	4.9	6.6	23.0	4.6	10.6	50.9	13.6	9.0	31.5	13.4	15.1	13.9	13.3	10.8	13.6	13.8	10.9	6.5	4.6	2.5	3.6	13.1	20.3	7.0	24	50.9	2.5	13.2
6/21/08	4.1	5.5	4.3	11.4	10.5	14.3	7.1	10.6	11.2	17.0	14.8	10.7	14.1	14.2	10.9	9.9	11.4	8.4	3.7	4.9	5.3	2.3	4.1	2.4	24	17.0	2.3	8.9
6/22/08	3.5	1.4	2.3	2.6	2.7	3.7	7.3	33.0	31.5	23.1	25.0	24.2	19.4	25.7	24.9	18.4	19.5	12.5	5.8	3.3	2.3	1.0	1.9	6.3	24	33.0	1.0	12.6
6/23/08	2.2	1.5	2.1	2.0	3.5	1.4	2.5	6.1	5.2	5.4	6.7	7.8	8.1	7.2	8.1	8.8	9.5	7.3	5.4	3.6	1.4	1.4	1.9	2.0	24	9.5	1.4	4.6
6/24/08	1.0	2.2	2.4	1.8	1.5	1.5	2.6	6.2	12.7	18.8	15.2	12.3	9.8	9.7	8.9	9.7	6.8	5.0	4.7	3.2	2.7	33.3	37.3	5.2	24	37.3	1.0	8.9
6/25/08	4.2	16.8	3.2	13.8	3.0	3.9	2.2	4.2	6.0	7.0	5.5	6.7	7.4	11.2	12.6	24.2	16.7	15.6	9.8	6.3	4.2	4.4	2.2	2.1	24	24.2	2.1	8.1
6/26/08	17.2	8.2	4.0	41.8	40.7	8.0	8.0	45.0	6.6	5.8	7.4	16.6	10.4	10.9	10.7	9.3	9.0	7.7	4.4	6.2	11.7	26.1	15.3	8.1	24	45.0	4.0	14.1
6/27/08	41.7	27.1	18.9	11.2	4.8	3.6	4.4	10.1	3.9	7.6	5.9	7.6	6.8	5.5	5.7	5.2	5.4	4.8	4.7	3.8	2.5	3.3	4.5	4.3	24	41.7	2.5	8.5
6/28/08	4.6	4.7	4.6	5.4	4.5	4.2	4.4	4.9	5.5	5.5	5.7	5.8	5.7	6.0	6.8	6.1	5.3	5.0	4.5	4.1	2.9	3.7	2.2	1.9	24	6.8	1.9	4.8
6/29/08	2.0	2.5	2.4	1.9	1.8	3.3	5.0	5.7	6.0	6.6	8.2	9.7	10.4	13.2	11.1	12.0	9.8	7.3	7.2	5.2	4.0	3.4	9.1	6.3	24	13.2	1.8	6.4
6/30/08	10.1	3.8	3.4	1.6	2.5	3.5	1.2	3.4	6.2	8.0	12.4	12.5	15.7	11.9	11.5	11.5	9.6	6.7	4.3	3.0	1.8	1.7	1.5	1.5	24	15.7	1.2	6.2
																									0			

hr max	41.7	27.1	23.0	41.8	40.7	50.9	13.6	55.5	31.5	47.1	45.4	42.7	40.1	35.8	50.7	39.5	30.4	24.0	19.7	38.0	38.5	33.3	37.3	20.1
hr min	1.0	1.4	1.2	1.5	1.4	1.4	1.2	3.4	3.9	4.5	4.9	5.1	5.3	5.2	5.7	5.2	4.5	4.5	3.7	2.5	1.4	1.0	0.8	1.5
average	8.0	6.5	5.5	7.0	5.7	6.2	5.0	10.3	9.2	10.5	11.4	12.5	12.4	13.2	14.3	12.7	11.7	9.7	7.4	5.9	7.0	6.2	7.7	5.8

monthly	monthly	monthly
max hr	min hr	ave hr
55.5	0.8	8.8
6/16/08	6/17/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
6/1/08	6.1	5.5	4.0	3.4	10.0	4.5	2.4	5.0	9.0	14.1	16.3	21.1	20.0	21.7	20.9	27.1	27.1	11.3	18.2	9.4	36.9	10.2	1.2	4.2	24	36.9	1.2	12.9
6/2/08	9.1	7.6	6.8	30.5	2.9	33.3	9.3	7.1	13.0	13.2	19.7	13.0	16.8	24.4	19.0	22.5	15.0	8.4	3.6	4.1	4.2	8.1	6.8	3.8	24	33.3	2.9	12.6
6/3/08	4.9	5.5	7.5	8.4	5.0	6.6	5.4	4.3	6.2	7.4	7.6	12.0	20.9	22.0	44.7	23.2	18.2	24.0	12.4	6.1	3.7	3.7	12.2	8.3	24	44.7	3.7	11.7
6/4/08	15.0	12.9	9.2	12.1	7.5	3.5	2.3	3.2	6.3	10.7	10.3	10.5	16.2	14.0	9.5	7.2	17.5	10.9	5.0	3.4	3.6	7.7	4.6	4.6	24	17.5	2.3	8.7
6/5/08	4.3	4.3	3.6	3.3	4.0	4.3	4.4	4.4	4.4	4.6	4.3	4.6	4.6	4.5	5.2	4.3	4.7	4.7	4.1	3.8	3.7	3.6	4.3	5.2	24	5.2	3.3	4.3
6/6/08	4.9	3.6	3.8	3.6	4.1	3.8	3.9	4.4	4.4	4.0	4.3	4.4	5.8	6.0	6.4	5.1	4.2	4.0	3.8	3.4	3.2	7.3	4.8	6.8	24	7.3	3.2	4.6
6/7/08	1.9	2.5	2.8	2.1	2.3	1.4	1.5	4.8	6.6	7.6	9.9	8.4	8.6	11.6	11.4	12.0	10.1	11.7	16.2	4.9	3.8	3.9	3.5	10.5	24	16.2	1.4	6.7
6/8/08	20.0	10.4	10.4	11.2	6.7	5.4	3.3	6.7	8.9	7.5	10.9	10.5	12.1	14.6	12.0	9.2	8.8	7.3	4.2	3.2	2.8	2.7	2.2	6.5	24	20.0	2.2	8.2
6/9/08	3.9	5.1	3.2	3.2	3.1	3.5	4.3	5.2	5.0	4.9	6.6	5.9	8.3	10.5	5.5	5.9	8.2	6.4	6.1	7.5	4.5	4.2	2.5	5.0	24	10.5	2.5	5.4
6/10/08	2.5	2.7	1.5	2.8	2.4	3.3	2.2	5.7	6.2	7.4	6.4	6.5	6.2	5.7							21.4	4.7	4.7	20.5	18	21.4	1.5	6.3
6/11/08	8.3	6.8	4.2	4.4	4.7	5.1	4.3	4.3	4.2	5.4	6.3	29.6	5.4	4.8	5.8	4.6	5.6	5.9	4.6	4.6	3.7	3.3	4.4	3.3	24	29.6	3.3	6.0
6/12/08	7.1	8.9	6.2	2.4	1.2	1.9	2.4	3.6	5.1	7.2	5.8	7.9	8.8	6.5	6.1	5.9	6.4	4.5	4.3	3.8	3.5	3.5	5.2	3.9	24	8.9	1.2	5.1
6/13/08	3.7	5.2	4.0	4.2	4.2	5.1	5.3	5.3	6.0	6.5	5.6	4.6	5.4	5.4	6.0	7.5	15.5	20.9	14.7	29.7	7.2	5.1	4.2	3.8	24	29.7	3.7	7.7
6/14/08	6.3	4.3	2.4	3.8	2.5	4.8	3.9	6.9	7.7	11.4	9.0	8.5	7.9	5.3	7.2	8.6	7.3	5.5	4.3	2.8	1.6	4.5	9.3	2.6	24	11.4	1.6	5.8
6/15/08	3.6	2.4	3.9	4.2	4.2	2.5	5.7	5.4	6.0	6.0	6.7	5.7	7.0	7.4	7.2	7.1	6.4	8.2	6.2	3.4	3.8	1.4	1.6	2.6	24	8.2	1.4	4.9
6/16/08	3.3	1.8	2.7	1.6	1.6	0.9	2.3	44.0	25.0	53.7	50.3	41.5	37.1	26.1	46.3	31.4	18.6	16.1	11.3	7.5	8.7	3.9	2.3	2.1	24	53.7	0.9	18.3
6/17/08	2.5	5.6	2.4	2.1	2.7	1.6	2.7	3.2	5.4	5.8	6.8	10.4	10.8	9.1	11.8	14.9	11.5	10.8	4.4	2.7	1.7	1.1	0.8	2.6	24	14.9	0.8	5.6
6/18/08	3.1	1.2	1.1	1.8	1.8	2.5	3.3	3.2	4.0	6.3	5.6	6.2	10.3	10.2	8.5	4.2	6.2	5.8	3.9	2.5	4.3	2.2	29.6	6.8	24	29.6	1.1	5.6
6/19/08	2.9	4.2	4.0	2.4	3.3	2.6	1.9	4.9	5.9	10.3	8.4	15.9	16.1	25.0	36.9	14.2	17.3	16.3	18.3	8.2	4.2	1.9	3.2	4.1	24	36.9	1.9	9.7
6/20/08	3.2	3.7	30.3	4.8	5.1	23.7	14.6	8.8	38.7	11.9	12.7	12.7	12.0	10.1	13.3	12.8	9.0	5.6	4.4	2.5	5.9	8.1	9.7	5.9	24	38.7	2.5	11.2
6/21/08	4.4	5.0	3.4	7.7	8.1	12.6	13.4	7.8	12.6	16.2	13.2	12.8	13.8	10.8	10.5	8.4	10.3	7.4	2.8	5.0	3.3	1.6	2.2	1.4	24	16.2	1.4	8.1
6/22/08	2.2	0.9	1.7	1.5	2.8	3.6	5.2	20.5	39.7	22.0	21.0	20.8	16.1	22.8	20.3	17.7	16.5	11.3	5.4	3.2	2.2	1.1	1.9	4.4	24	39.7	0.9	11.0
6/23/08	3.0	1.4	0.9	0.9	2.7	1.4	2.6	4.0	4.6	4.5	5.5	7.3	7.6	6.5	8.0	8.6	9.0	7.2	4.7	3.0	1.0	1.2	1.9	2.3	24	9.0	0.9	4.2
6/24/08	1.3	2.2	2.1	2.0	1.9	1.8	2.5	3.9	13.0	20.5	13.8	11.0	8.8	8.8	8.5	8.7	6.0	4.2	3.7	2.6	1.2	31.2	31.0	3.8	24	31.2	1.2	8.1
6/25/08	2.1	10.9	3.2	2.7	1.9	2.4	1.8	2.5	5.0	5.7	4.6	5.8	6.6	10.6	11.5	21.3	15.7	15.0	9.2	5.5	4.6	4.5	2.7	1.9	24	21.3	1.8	6.6
6/26/08	16.6	11.6	2.9	37.4	22.8	8.3	4.0	44.8	5.7	5.1	5.5	15.8	8.6	10.3	9.7	7.9	7.3	7.4	4.3	3.2	10.5	29.4	12.8	7.7	24	44.8	2.9	12.5
6/27/08	30.4	33.1	10.0	9.5	5.4	2.4	3.5	9.3	6.7	5.7	6.2	6.6	6.0	4.4	4.7	4.8	4.6	4.2	4.3	3.0	1.4	2.9	3.8	3.8	24	33.1	1.4	7.4
6/28/08	3.9	3.8	4.5	4.6	3.8	3.7	4.3	4.1	4.7	4.8	4.6	4.8	5.2	5.6	6.4	5.7	4.8	4.6	4.2	3.2	2.2	2.4	1.7	1.5	24	6.4	1.5	4.1
6/29/08	1.2	1.3	3.7	2.3	3.2	2.0	3.3	5.2	5.9	6.6	8.1	9.0	10.9	11.3	10.5	11.4	9.9	6.3	7.4	5.6	4.3	6.9	6.1	2.6	24	11.4	1.2	6.0
6/30/08	6.6	2.9	2.6	2.2	2.2	2.9	1.8	1.4	4.6	7.5	11.1	10.8	13.7	10.2	10.0	9.8	8.2	6.0	4.0	2.1	2.1	1.3	0.6	1.1	24	13.7	0.6	5.2
																									0			
hr max	30.4	33.1	30.3	37.4	22.8	33.3	14.6	44.8	39.7	53.7	50.3	41.5	37.1	26.1	46.3	31.4	27.1	24.0	18.3	29.7	36.9	31.2	31.0	20.5				
hr min	1.2	0.9	0.9	0.9	1.2	0.9	1.5	1.4	4.0	4.0	4.3	4.4	4.6	4.4	4.7	4.2	4.2	4.0	2.8	2.1	1.0	1.1	0.6	1.1				
average	6.3	5.9	5.0	6.1	4.5	5.4	4.3	8.1	9.4	10.2	10.2	11.5	11.3	11.5	13.2	11.4	10.7	9.0	6.9	5.2	5.5	5.8	6.1	4.8				

monthly max hr	monthly min hr	monthly ave hr
53.7	0.6	7.8
6/16/08	6/30/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.12	0.17	0.15	0.14	0.12	0.12	0.15	0.19	0.18	0.20	0.20	0.16	0.21	0.21	0.25	0.20	0.20	0.14	0.19	0.14	0.13	0.15	0.16	0.26	24	0.26	0.12	0.17
6/2/08	0.38	0.27	0.28	0.26	0.31	0.12	0.17	0.16	0.30	0.32	0.19	0.25	0.20	0.23	0.28	0.23	0.28	0.41	0.61	0.67	0.65	0.66	0.59	0.79	24	0.79	0.12	0.36
6/3/08	0.58	0.42	0.28	0.24	0.30	0.28	0.33	0.37	0.43	0.37	0.27	0.27	0.22	0.27	0.15	0.25	0.20	0.19	0.21	0.25	0.30	0.24	0.19	0.20	24	0.58	0.15	0.28
6/4/08	0.40	0.31	0.42	0.20	0.17	0.14	0.15	0.17	0.18	0.24	0.24	0.21	0.24	0.30	0.40	0.32	0.37	0.38	0.44	0.41	0.30	0.25	0.33	0.52	24	0.52	0.14	0.30
6/5/08	0.73	0.52	0.65	0.71	0.72	0.69	0.67	0.78	0.81	1.00	1.03	1.09	1.06	1.06	0.86	1.09	1.03	0.98	1.09	1.31	1.30	0.96	0.85	0.63	24	1.31	0.52	0.90
6/6/08	0.56	0.57	0.60	0.90	0.76	0.68	0.64	0.53	0.52	0.58	0.60	0.62	0.52	0.47	0.41	0.51	0.49	0.44	0.28	0.22	0.18	0.25	0.16	0.16	24	0.90	0.16	0.49
6/7/08	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.19	0.25	0.20	0.16	0.20	0.22	0.22	0.21	0.20	0.16	0.18	0.18	0.14	0.12	0.12	0.12	0.14	24	0.25	0.12	0.18
6/8/08	0.13	0.13	0.13	0.15	0.13	0.16	0.16	0.17	0.25	0.35	0.25	0.26	0.19	0.22	0.29	0.30	0.27	0.39	0.42	0.23	0.21	0.18	0.12	0.19	24	0.42	0.12	0.22
6/9/08	0.21	0.23	0.26	0.29	0.34	0.36	0.39	0.42	0.45	0.44	0.47	0.47	0.47	0.39	0.48	0.31	0.38	0.31	0.24	0.26	0.17	0.15	0.11	0.14	24	0.48	0.11	0.32
6/10/08	0.13	0.13	0.13	0.13	0.14	0.13	0.22	0.36	0.42	0.40	0.42	0.62	0.77	0.88							0.95	1.01	1.09	0.94	18	1.09	0.13	0.49
6/11/08	0.80	1.06	1.49	1.39	1.22	1.14	1.14	1.06	0.89	0.68	0.45	0.20	0.17	0.26	0.29	0.32	0.32	0.20	0.18	0.15	0.13	0.12	0.22	0.27	24	1.49	0.12	0.59
6/12/08	0.16	0.19	0.23	0.18	0.21	0.26	0.25	0.29	0.31	0.26	0.24	0.29	0.30	0.47	0.43	0.35	0.25	0.24	0.40	0.37	0.37	0.29	0.35	0.36	24	0.47	0.16	0.29
6/13/08	0.40	0.42	0.40	0.36	0.32	0.22	0.35	0.41	0.41	0.46	0.53	0.58	0.57	0.55	0.53	0.37	0.33	0.25	0.40	0.15	0.12	0.11	0.11	0.16	24	0.58	0.11	0.35
6/14/08	0.12	0.26	0.18	0.15	0.16	0.13	0.16	0.18	0.17	0.15	0.18	0.17	0.25	0.19	0.19	0.15	0.28	0.28	0.20	0.17	0.15	0.13	0.33	0.23	24	0.33	0.12	0.19
6/15/08	0.19	0.19	0.16	0.12	0.13	0.12	0.18	0.19	0.25	0.32	0.44	0.41	0.40	0.41	0.44	0.42	0.42	0.42	0.36	0.31	0.23	0.24	0.17	0.14	24	0.44	0.12	0.28
6/16/08	0.16	0.24	0.26	0.17	0.13	0.15	0.11	0.08	0.15	0.17	0.07	0.09	0.10	0.18	0.13	0.11	0.12	0.22	0.19	0.14	0.14	0.19	0.25	0.42	24	0.42	0.07	0.17
6/17/08	0.35	0.34	0.18	0.14	0.24	0.30	0.33	0.40	0.41	0.49	0.49	0.54	0.41	0.40	0.35	0.41	0.41	0.40	0.42	0.34	0.35	0.33	0.38	0.34	24	0.54	0.14	0.36
6/18/08	0.33	0.35	0.40	0.28	0.20	0.28	0.33	0.54	0.52	0.51	0.58	0.58	0.54	0.42	0.26	0.36	0.33	0.45	0.39	0.27	0.35	0.37	0.51	0.54	24	0.58	0.20	0.40
6/19/08	0.55	0.40	0.31	0.26	0.20	0.20	0.21	0.26	0.25	0.16	0.23	0.24	0.29	0.23	0.19	0.22	0.25	0.20	0.35	0.17	0.19	0.16	0.14	0.22	24	0.55	0.14	0.25
6/20/08	0.20	0.19	0.16	0.19	0.15	0.12	0.17	0.14	0.09	0.15	0.18	0.19	0.28	0.25	0.33	0.40	0.33	0.27	0.21	0.17	0.12	0.12	0.12	0.12	24	0.40	0.09	0.19
6/21/08	0.12	0.16	0.12	0.12	0.11	0.15	0.13	0.18	0.28	0.29	0.28	0.31	0.27	0.36	0.36	0.34	0.39	0.35	0.33	0.26	0.24	0.16	0.12	0.14	24	0.39	0.11	0.23
6/22/08	0.16	0.13	0.13	0.13	0.16	0.15	0.12	0.16	0.17	0.14	0.20	0.29	0.26	0.21	0.40	0.31	0.42	0.32	0.41	0.37	0.37	0.44	0.36	0.36	24	0.44	0.12	0.26
6/23/08	0.39	0.43	0.47	0.47	0.25	0.22	0.26	0.29	0.30	0.40	0.46	0.38	0.31	0.31	0.37	0.50	0.43	0.45	0.44	0.37	0.39	0.36	0.27	0.21	24	0.50	0.21	0.36
6/24/08	0.20	0.24	0.24	0.21	0.28	0.27	0.30	0.23	0.28	0.26	0.29	0.49	0.53	0.39	0.32	0.29	0.43	0.34	0.35	0.43	0.46	0.75	0.29	0.16	24	0.75	0.16	0.33
6/25/08	0.22	0.24	0.23	0.19	0.14	0.14	0.15	0.17	0.20	0.20	0.23	0.37	0.23	0.25	0.23	0.21	0.28	0.24	0.26	0.24	0.36	0.34	0.43	0.41	24	0.43	0.14	0.25
6/26/08	0.29	0.41	0.95	0.37	0.18	0.24	0.19	0.29	0.48	0.44	0.36	0.28	0.53	0.33	0.28	0.31	0.25	0.37	0.39	0.30	0.35	0.74	0.39	0.24	24	0.95	0.18	0.37
6/27/08	0.18	0.33	0.15	0.13	0.16	0.15	0.17	0.18	0.16	0.23	0.23	0.34	0.40	0.57	0.62	0.60	0.57	0.48	0.30	0.17	0.10	0.11	0.14	0.18	24	0.62	0.10	0.28
6/28/08	0.17	0.29	0.35	0.38	0.32	0.32	0.41	0.58	0.61	0.65	0.78	0.78	0.76	0.76	0.72	0.67	0.60	0.61	0.46	0.31	0.24	0.14	0.19	0.25	24	0.78	0.14	0.47
6/29/08	0.29	0.24	0.27	0.26	0.23	0.18	0.23	0.26	0.32	0.40	0.36	0.50	0.41	0.34	0.44	0.37	0.41	0.27	0.26	0.19	0.14	0.13	0.14	0.12	24	0.50	0.12	0.28
6/30/08	0.12	0.12	0.14	0.22	0.15	0.14	0.14	0.16	0.17	0.16	0.23	0.21	0.26	0.36	0.34	0.30	0.30	0.25	0.33	0.33	0.35	0.40	0.40	0.42	24	0.42	0.12	0.25
																									0			
hr max	0.80	1.06	1.49	1.39	1.22	1.14	1.14	1.06	0.89	1.00	1.03	1.09	1.06	1.06	0.86	1.09	1.03	0.98	1.09	1.31	1.30	1.01	1.09	0.94				
hr min	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.08	0.09	0.14	0.07	0.09	0.10	0.18	0.13	0.11	0.12	0.14	0.18	0.14	0.10	0.11	0.11	0.12				
average	0.29	0.31	0.33	0.30	0.27	0.26	0.28	0.31	0.34	0.35	0.35	0.38	0.38	0.38	0.36	0.36	0.36	0.35	0.35	0.30	0.32	0.32	0.30	0.31				

monthly	monthly	monthly
max hr	min hr	ave hr
1.49	0.07	0.33
6/11/08	6/18/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
6/1/08	-0.06	-0.04	0.01	0.02	0.04	0.11	0.22	0.19	0.29	0.42	0.24	0.00	0.03	0.14	0.37	0.24	0.24	0.10	0.16	0.00	0.03	0.08	0.46	0.53
6/2/08	0.67	0.39	0.53	0.38	-0.08	-0.01	-0.01	-0.01	0.20	0.08	-0.03	-0.10	-0.06	0.16	0.18	0.04	0.06	0.30	0.45	0.40	0.33	0.13	0.41	0.78
6/3/08	0.56	0.39	0.23	-0.02	-0.09	-0.07	-0.02	0.06	0.10	0.07	0.01	0.14	0.09	0.19	0.05	0.31	0.06	0.09	0.06	0.16	0.46	0.55	0.31	0.23
6/4/08	0.10	0.19	0.57	0.12	0.27	0.36	0.39	0.23	0.16	0.21	0.32	0.18	0.22	0.28	0.26	0.05	0.23	0.14	0.17	0.20	0.25	0.17	0.15	0.49
6/5/08	0.75	0.38	0.39	0.42	0.45	0.32	0.27	0.36	0.47	0.53	0.56	0.44	0.32	0.41	0.17	0.36	0.35	0.33	0.37	0.25	0.17	-0.07	-0.09	-0.15
6/6/08	-0.25	-0.26	-0.22	-0.08	-0.01	0.12	0.31	0.24	0.21	0.39	0.42	0.44	0.35	0.34	0.50	0.84	0.59	0.67	0.49	0.56	0.49	0.49	0.26	0.18
6/7/08	0.18	0.15	0.18	0.11	0.11	0.06	0.08	0.08	0.10	0.10	0.05	0.28	0.30	0.28	0.06	0.18	-0.07	0.01	0.04	-0.02	0.02	0.02	0.24	0.12
6/8/08	0.09	0.04	0.05	0.16	0.22	0.33	0.10	0.13	0.19	0.31	0.16	0.38	0.23	0.03	0.07	0.29	0.11	0.36	0.32	0.16	0.21	0.02	0.01	0.28
6/9/08	0.39	0.31	0.42	0.49	0.53	0.57	0.55	0.38	0.29	0.19	0.29	0.10	0.26	0.10	0.18	0.10	0.17	0.20	0.08	0.05	-0.03	-0.02	-0.09	-0.08
6/10/08	-0.11	-0.10	-0.10	0.00	0.00	0.05	-0.04	0.03	0.12	0.01	0.01	0.43	0.32	0.59							0.45	0.43	0.42	0.34
6/11/08	0.28	0.47	0.81	0.89	0.70	0.52	0.51	0.46	0.44	0.31	0.19	0.11	0.18	0.29	0.46	0.59	0.38	0.32	0.24	0.22	0.28	0.37	0.46	0.39
6/12/08	0.07	0.10	0.36	0.51	0.66	0.56	0.47	0.45	0.53	0.41	0.32	0.43	0.38	0.55	0.72	0.61	0.43	0.51	0.63	0.71	0.73	0.64	0.67	0.69
6/13/08	0.77	0.72	0.65	0.59	0.51	0.47	0.55	0.66	0.68	0.57	0.67	0.57	0.67	0.59	0.53	0.49	0.55	0.18	0.28	0.04	0.03	0.07	0.15	0.41
6/14/08	0.32	0.61	0.67	0.60	0.64	0.44	0.38	0.35	0.26	0.19	0.29	0.15	0.42	0.17	0.28	0.23	0.38	0.42	0.29	0.34	0.48	0.55	0.17	0.06
6/15/08	0.02	0.04	0.06	0.21	0.38	0.40	0.38	0.17	0.21	0.28	0.40	0.35	0.33	0.34	0.27	0.23	0.25	0.28	0.21	0.22	0.20	0.23	0.01	0.01
6/16/08	0.01	0.04	0.02	0.05	0.02	0.10	0.01	-0.18	0.05	-0.17	-0.23	-0.24	0.19	0.19	0.10	0.09	0.17	0.24	0.08	0.05	0.05	0.03	0.02	0.15
6/17/08	0.05	0.02	-0.03	-0.06	0.15	0.13	0.22	0.18	0.11	0.16	0.22	0.17	0.16	0.18	-0.06	0.16	0.04	0.17	0.09	0.11	0.06	0.05	0.03	0.11
6/18/08	0.26	0.45	0.39	0.39	0.37	0.56	0.33	0.19	0.25	0.17	0.21	0.22	0.30	0.07	0.02	0.03	0.00	0.14	0.04	0.13	0.02	0.02	0.18	0.12
6/19/08	0.28	0.19	0.32	0.06	0.26	0.47	0.29	0.43	0.38	0.05	0.15	0.13	0.24	-0.04	0.06	0.05	0.08	0.09	0.12	0.09	0.11	0.03	0.03	0.15
6/20/08	0.14	0.03	0.13	0.22	0.10	0.05	0.24	0.13	-0.02	0.13	0.29	0.16	0.18	0.04	0.27	0.35	0.26	0.19	0.08	0.10	0.04	0.03	0.03	0.03
6/21/08	0.03	0.09	0.09	0.15	0.32	0.15	0.04	-0.02	0.07	0.03	0.00	0.05	-0.09	0.12	0.06	-0.04	0.06	0.15	0.10	0.08	0.18	0.04	0.03	0.01
6/22/08	0.02	0.00	0.04	0.02	0.02	0.02	0.01	0.05	-0.05	-0.08	-0.11	0.04	-0.18	-0.12	0.15	0.12	0.27	0.05	0.07	0.12	0.02	0.02	-0.02	0.20
6/23/08	-0.04	0.29	0.40	0.46	0.16	0.36	0.29	0.11	0.00	0.07	0.21	0.13	0.13	-0.07	0.16	0.39	0.28	0.21	0.39	0.31	0.45	0.39	0.36	0.21
6/24/08	0.35	0.11	-0.06	0.24	0.23	-0.05	0.14	0.05	0.14	0.11	0.13	0.20	0.22	0.11	0.01	0.11	0.10	-0.03	0.13	0.34	0.36	0.53	0.21	0.17
6/25/08	-0.01	0.20	0.35	0.24	0.26	0.19	0.31	0.22	0.14	0.21	0.05	0.28	0.14	0.34	0.12	0.10	0.16	0.17	0.05	0.06	0.04	0.03	0.02	0.02
6/26/08	0.30	0.16	0.74	0.14	0.07	0.36	0.10	0.17	0.23	0.23	0.21	0.30	0.22	0.16	-0.06	0.06	-0.11	0.16	0.30	0.25	0.23	0.37	0.25	0.30
6/27/08	0.08	0.20	0.08	0.16	0.61	0.45	0.38	0.56	0.41	0.36	0.36	0.52	0.41	0.50	0.53	0.41	0.50	0.46	0.30	0.25	0.23	0.39	0.46	0.35
6/28/08	0.35	0.57	0.55	0.48	0.46	0.54	0.60	0.68	0.59	0.76	0.55	0.52	0.66	0.56	0.54	0.46	0.53	0.45	0.47	0.38	0.37	0.23	0.36	0.50
6/29/08	0.43	0.34	0.39	0.42	0.35	0.37	0.27	0.21	0.25	0.36	0.12	0.40	0.38	0.23	0.37	0.15	0.29	0.10	0.18	0.12	0.07	0.04	0.03	0.02
6/30/08	0.03	0.02	0.04	0.07	0.12	0.08	0.02	0.13	0.08	0.11	0.33	0.05	0.10	0.38	0.18	-0.01	0.08	0.02	0.23	0.30	0.42	0.51	0.55	0.53
hr max	0.77	0.72	0.81	0.89	0.70	0.57	0.60	0.68	0.68	0.76	0.67	0.57	0.67	0.59	0.72	0.84	0.59	0.67	0.63	0.71	0.73	0.64	0.67	0.78
hr min	-0.25	-0.26	-0.22	-0.08	-0.09	-0.07	-0.04	-0.18	-0.05	-0.17	-0.23	-0.24	-0.18	-0.12	-0.06	-0.04	-0.11	-0.03	0.04	-0.02	-0.03	-0.07	-0.09	-0.15
average	0.20	0.20	0.27	0.25	0.26	0.27	0.25	0.22	0.23	0.22	0.21	0.23	0.24	0.24	0.23	0.24	0.22	0.22	0.22	0.21	0.23	0.21	0.20	0.24

valid hr count	daily max hr	daily min hr	daily ave hr
24	0.53	-0.06	0.16
24	0.78	-0.10	0.22
24	0.56	-0.09	0.16
24	0.57	0.05	0.24
24	0.75	-0.15	0.32
24	0.84	-0.26	0.29
24	0.30	-0.07	0.11
24	0.38	0.01	0.18
24	0.57	-0.09	0.23
18	0.59	-0.11	0.16
24	0.89	0.11	0.41
24	0.73	0.07	0.51
24	0.77	0.03	0.48
24	0.67	0.06	0.36
24	0.40	0.01	0.23
24	0.24	-0.24	0.04
24	0.22	-0.06	0.10
24	0.56	0.00	0.20
24	0.47	-0.04	0.17
24	0.35	-0.02	0.13
24	0.32	-0.09	0.07
24	0.27	-0.18	0.03
24	0.46	-0.07	0.24
24	0.53	-0.06	0.16
24	0.35	-0.01	0.15
24	0.74	-0.11	0.21
24	0.61	0.08	0.37
24	0.76	0.23	0.51
24	0.43	0.02	0.25
24	0.55	-0.01	0.18
0			

monthly max hr	monthly min hr	monthly ave hr
0.89	-0.26	0.23
6/11/08	6/6/08	

Validated by:	Roger L Thompson	Date: 7/20/08
Analyst:	Denise Hazelman	Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.26	0.15	0.02	0.00	0.00	0.00	0.00	-0.13	0.25	0.38	0.61	0.09	0.23	0.51	0.78	0.47	0.47	0.03	0.15	0.11	0.04	-0.05	-0.41	0.26	24	0.78	-0.41	0.18
6/2/08	1.27	0.91	0.16	-0.01	0.96	0.03	0.11	0.11	0.29	0.26	0.12	0.11	0.04	0.13	0.21	-0.07	-0.05	0.25	0.88	0.92	1.19	1.18	0.84	1.21	24	1.27	-0.07	0.46
6/3/08	0.80	0.39	0.22	0.26	0.44	0.40	0.35	0.27	0.45	0.30	0.05	0.17	0.02	0.12	0.00	0.09	-0.06	0.15	0.03	0.12	0.24	0.26	0.33	0.25	24	0.80	-0.06	0.24
6/4/08	0.71	0.23	0.19	0.02	-0.06	0.06	0.35	-0.37	-0.03	-0.03	0.03	-0.17	-0.05	0.01	0.35	0.17	0.52	0.53	0.77	0.78	0.71	0.59	0.82	0.85	24	0.85	-0.37	0.29
6/5/08	1.02	0.76	0.99	1.04	1.08	1.00	1.10	1.26	1.30	1.39	1.48	1.77	1.67	1.63	1.31	1.86	1.55	1.42	1.82	2.06	2.06	1.65	1.52	1.41	24	2.06	0.76	1.42
6/6/08	1.63	1.56	1.62	2.18	2.08	1.93	1.85	1.68	1.53	1.64	1.66	1.57	1.34	1.14	1.09	1.27	0.94	1.02	0.66	0.62	0.52	0.76	0.74	0.73	24	2.18	0.52	1.32
6/7/08	0.93	0.99	1.00	0.89	0.92	0.81	0.78	0.62	0.56	0.42	0.14	0.38	0.46	0.56	0.42	0.53	0.11	0.41	0.32	0.17	0.30	0.17	0.09	0.11	24	1.00	0.09	0.50
6/8/08	0.01	0.06	0.02	0.03	0.04	0.17	0.05	-0.07	0.01	0.07	-0.09	0.28	0.19	0.47	0.53	0.80	0.46	0.96	1.31	0.93	1.08	1.10	0.65	0.62	24	1.31	-0.09	0.40
6/9/08	0.80	1.03	1.01	1.08	1.19	1.24	1.11	1.13	1.20	1.03	1.28	1.00	1.27	1.11	1.20	0.71	0.93	0.80	0.61	0.64	0.60	0.62	0.52	0.53	24	1.28	0.52	0.94
6/10/08	0.55	0.60	0.61	0.50	0.46	0.46	0.62	0.36	0.45	0.24	0.26	0.85	0.50	0.92							0.38	1.38	1.55	1.52	18	1.55	0.24	0.68
6/11/08	1.28	1.87	2.42	2.30	1.78	1.56	1.61	1.36	1.04	0.79	0.47	0.16	0.57	0.89	1.09	1.36	0.97	0.77	0.52	0.35	0.48	0.58	1.08	1.07	24	2.42	0.16	1.10
6/12/08	0.34	0.18	0.48	0.72	0.99	1.05	0.99	0.78	0.85	0.72	0.56	0.65	0.56	0.83	1.12	1.20	0.85	1.01	1.27	1.45	1.47	1.31	1.32	1.41	24	1.47	0.18	0.92
6/13/08	1.51	1.60	1.51	1.54	1.35	1.05	1.18	1.37	1.28	1.20	1.40	1.26	1.40	1.24	1.17	0.96	1.09	0.44	0.94	0.05	0.23	0.36	0.52	0.95	24	1.60	0.05	1.07
6/14/08	0.61	0.67	0.91	1.06	1.14	0.87	0.73	0.68	0.31	0.36	0.45	0.20	0.56	0.32	0.43	0.55	0.83	0.84	0.77	0.83	1.02	1.19	1.09	0.82	24	1.19	0.20	0.72
6/15/08	0.69	0.63	0.56	0.69	0.62	0.59	0.77	0.64	0.59	0.76	1.18	0.88	0.90	0.98	0.83	0.79	0.80	0.90	0.77	0.77	0.79	0.93	0.75	0.42	24	1.18	0.42	0.76
6/16/08	0.36	0.46	0.49	0.49	0.47	0.45	0.25	-0.07	0.09	-0.34	-0.40	-0.25	0.12	0.23	0.13	0.17	0.30	0.50	0.20	0.12	0.06	0.00	0.00	0.06	24	0.50	-0.40	0.16
6/17/08	0.00	0.02	-0.13	-0.01	-0.22	-0.06	0.30	0.49	0.23	0.25	0.30	0.26	0.27	0.24	0.00	0.28	0.13	0.36	0.32	0.47	0.64	0.62	0.61	0.68	24	0.68	-0.22	0.25
6/18/08	0.81	1.02	1.16	1.06	1.20	1.14	0.95	0.87	0.56	0.42	0.52	0.59	0.39	0.05	0.01	0.22	0.15	0.16	0.25	0.34	0.41	0.54	1.02	0.98	24	1.20	0.01	0.62
6/19/08	1.02	1.01	0.63	-0.35	0.81	0.80	0.71	0.82	0.54	0.20	0.32	0.28	0.36	0.07	0.20	0.07	0.15	0.16	0.55	0.41	0.43	0.37	0.36	0.87	24	1.02	-0.35	0.45
6/20/08	0.96	0.62	0.47	1.01	0.67	0.29	0.38	0.28	-0.04	0.15	0.44	0.45	0.43	0.29	0.70	0.80	0.74	0.53	0.41	0.42	0.23	0.00	0.00	0.00	24	1.01	-0.04	0.43
6/21/08	0.03	0.09	0.13	0.42	0.56	0.37	0.13	0.06	0.04	0.08	-0.02	0.15	0.05	0.33	0.14	0.06	0.18	0.32	0.37	0.32	0.66	0.55	0.38	0.42	24	0.66	-0.02	0.24
6/22/08	0.45	0.44	0.31	0.25	0.14	0.00	0.01	0.00	-0.07	-0.12	-0.16	0.15	-0.13	-0.23	0.14	0.29	0.34	0.14	0.08	0.32	0.46	0.70	0.73	0.80	24	0.80	-0.23	0.21
6/23/08	0.76	1.05	1.18	1.25	0.75	0.05	-0.51	0.79	-0.46	-0.35	0.11	0.25	0.25	-0.35	0.08	0.38	0.23	0.03	0.39	0.40	0.61	0.35	-0.39	-1.02	24	1.25	-1.02	0.24
6/24/08	-1.17	-0.18	0.82	0.56	0.53	0.43	0.35	0.62	0.13	0.08	0.24	0.40	0.32	0.00	-0.04	0.33	-0.24	-0.67	-0.43	0.67	0.96	1.53	0.30	0.47	24	1.53	-1.17	0.25
6/25/08	-0.60	0.25	1.06	0.88	0.77	0.72	0.78	0.93	0.55	0.53	0.45	0.78	0.56	0.63	0.40	0.28	0.29	0.33	0.10	0.01	0.19	0.31	0.33	0.59	24	1.06	-0.60	0.46
6/26/08	0.70	0.40	1.52	0.53	0.12	0.37	0.35	0.28	0.47	0.16	0.31	0.45	0.14	0.09	-0.19	-0.25	-0.30	0.06	0.45	0.60	0.64	1.13	0.32	0.61	24	1.52	-0.30	0.37
6/27/08	0.13	-0.01	0.11	0.24	0.85	1.29	1.16	1.42	0.69	0.68	0.69	1.16	1.13	1.49	1.61	1.54	1.55	1.44	1.03	0.83	0.85	0.77	1.02	1.07	24	1.61	-0.01	0.95
6/28/08	0.96	1.43	1.45	1.58	1.36	1.39	1.46	1.68	1.79	1.94	1.78	1.66	1.92	1.94	1.66	1.60	1.61	1.51	1.57	1.30	1.30	1.04	1.28	1.42	24	1.94	0.96	1.53
6/29/08	1.47	1.47	1.37	1.28	1.19	1.21	1.08	0.76	0.69	0.89	0.63	1.05	1.01	0.81	0.87	0.66	0.84	0.48	0.62	0.42	0.29	0.04	0.00	-0.01	24	1.47	-0.01	0.80
6/30/08	0.00	0.00	-0.32	-0.09	0.41	0.27	0.29	0.40	0.13	0.19	0.52	-0.07	0.12	0.46	0.24	-0.04	-0.06	-0.34	0.05	0.64	0.87	1.04	0.88	0.84	24	1.04	-0.34	0.27
																									0			
hr max	1.63	1.87	2.42	2.30	2.08	1.93	1.85	1.68	1.79	1.94	1.78	1.77	1.92	1.94	1.66	1.86	1.61	1.51	1.82	2.06	2.06	1.65	1.55	1.52				
hr min	-1.17	-0.18	-0.32	-0.35	-0.22	-0.06	-0.51	-0.37	-0.46	-0.35	-0.40	-0.25	-0.13	-0.35	-0.19	-0.25	-0.30	-0.67	-0.43	0.01	0.04	-0.05	-0.41	-1.02				
average	0.61	0.66	0.73	0.71	0.75	0.66	0.64	0.63	0.51	0.48	0.51	0.55	0.55	0.56	0.57	0.59	0.53	0.50	0.58	0.59	0.66	0.70	0.61	0.66				

monthly	monthly	monthly
max hr	min hr	ave hr
2.42	-1.17	0.61
6/11/08	6/24/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.03	0.10	0.07	0.05	0.02	0.03	0.12	0.28	0.35	0.45	0.52	0.54	0.55	0.56	0.55	0.43	0.43	0.38	0.27	0.08	0.08	0.11	0.10	0.19	24	0.56	0.02	0.26
6/2/08	0.53	0.38	0.25	0.25	0.28	0.10	0.10	0.13	0.25	0.35	0.44	0.44	0.45	0.41	0.36	0.37	0.37	0.35	0.50	0.58	0.53	0.55	0.49	0.61	24	0.61	0.10	0.38
6/3/08	0.44	0.32	0.24	0.18	0.25	0.23	0.25	0.32	0.33	0.33	0.27	0.28	0.33	0.42	0.43	0.42	0.25	0.18	0.12	0.12	0.12	0.14	0.15	0.16	24	0.44	0.12	0.26
6/4/08	0.32	0.21	0.24	0.12	0.10	0.10	0.12	0.19	0.27	0.38	0.39	0.43	0.44	0.38	0.33	0.26	0.28	0.33	0.33	0.32	0.19	0.15	0.28	0.41	24	0.44	0.10	0.27
6/5/08	0.53	0.38	0.49	0.56	0.58	0.53	0.60	0.65	0.71	0.78	0.80	0.86	0.80	0.80	0.67	0.88	0.80	0.73	0.78	0.78	0.71	0.65	0.56	0.48	24	0.88	0.38	0.67
6/6/08	0.54	0.50	0.55	0.67	0.67	0.63	0.66	0.67	0.65	0.68	0.70	0.68	0.67	0.65	0.61	0.59	0.59	0.51	0.36	0.14	0.10	0.29	0.11	0.13	24	0.70	0.10	0.51
6/7/08	0.18	0.19	0.24	0.21	0.19	0.16	0.22	0.28	0.35	0.32	0.35	0.38	0.44	0.45	0.38	0.36	0.30	0.29	0.25	0.14	0.04	0.04	0.06	0.07	24	0.45	0.04	0.25
6/8/08	0.08	0.06	0.05	0.09	0.07	0.08	0.10	0.18	0.25	0.36	0.43	0.47	0.46	0.43	0.53	0.53	0.52	0.65	0.57	0.39	0.26	0.21	0.09	0.17	24	0.65	0.05	0.29
6/9/08	0.22	0.34	0.38	0.36	0.46	0.47	0.54	0.67	0.64	0.60	0.63	0.63	0.60	0.50	0.54	0.48	0.57	0.52	0.41	0.24	0.13	0.09	0.06	0.12	24	0.67	0.06	0.43
6/10/08	0.08	0.05	0.05	0.10	0.09	0.05	0.21	0.31	0.39	0.41	0.46	0.48	0.70	0.68							0.70	0.74	0.79	0.73	18	0.79	0.05	0.39
6/11/08	0.72	0.76	0.97	0.94	0.85	0.73	0.79	0.66	0.53	0.46	0.32	0.22	0.31	0.46	0.55	0.58	0.51	0.40	0.30	0.21	0.13	0.11	0.39	0.40	24	0.97	0.11	0.51
6/12/08	0.11	0.12	0.15	0.15	0.23	0.25	0.36	0.43	0.52	0.51	0.47	0.50	0.51	0.58	0.58	0.58	0.38	0.43	0.53	0.57	0.52	0.48	0.56	0.53	24	0.58	0.11	0.42
6/13/08	0.55	0.61	0.60	0.62	0.55	0.38	0.57	0.62	0.62	0.64	0.66	0.66	0.66	0.68	0.66	0.57	0.56	0.30	0.68	0.14	0.11	0.08	0.07	0.23	24	0.68	0.07	0.49
6/14/08	0.09	0.19	0.15	0.15	0.15	0.13	0.18	0.28	0.33	0.35	0.42	0.45	0.47	0.36	0.32	0.44	0.51	0.48	0.37	0.24	0.16	0.13	0.25	0.11	24	0.51	0.09	0.28
6/15/08	0.12	0.10	0.08	0.07	0.11	0.12	0.28	0.35	0.42	0.53	0.60	0.61	0.57	0.56	0.56	0.54	0.52	0.43	0.38	0.26	0.14	0.14	0.12	0.08	24	0.61	0.07	0.32
6/16/08	0.07	0.11	0.11	0.09	0.07	0.08	0.11	0.29	0.35	0.45	0.52	0.50	0.55	0.52	0.51	0.45	0.44	0.37	0.26	0.13	0.06	0.10	0.15	0.11	24	0.55	0.06	0.27
6/17/08	0.11	0.11	0.11	0.07	0.14	0.19	0.28	0.37	0.42	0.49	0.50	0.53	0.51	0.52	0.48	0.47	0.40	0.25	0.22	0.18	0.10	0.12	0.11	0.14	24	0.53	0.07	0.28
6/18/08	0.13	0.14	0.19	0.14	0.18	0.18	0.28	0.43	0.44	0.48	0.51	0.49	0.53	0.49	0.34	0.33	0.40	0.39	0.32	0.15	0.11	0.13	0.45	0.42	24	0.53	0.11	0.32
6/19/08	0.37	0.28	0.23	0.17	0.18	0.14	0.20	0.38	0.36	0.35	0.39	0.41	0.43	0.46	0.43	0.36	0.31	0.24	0.38	0.12	0.11	0.10	0.07	0.19	24	0.46	0.07	0.28
6/20/08	0.13	0.10	0.17	0.13	0.11	0.10	0.21	0.19	0.33	0.36	0.47	0.48	0.51	0.51	0.44	0.47	0.44	0.41	0.31	0.16	0.04	0.06	0.03	0.02	24	0.51	0.02	0.26
6/21/08	0.01	0.12	0.03	0.06	0.06	0.09	0.12	0.21	0.30	0.33	0.38	0.34	0.40	0.28	0.36	0.40	0.38	0.23	0.20	0.13	0.13	0.08	0.02	0.06	24	0.40	0.01	0.20
6/22/08	0.08	0.05	0.05	0.04	0.08	0.07	0.07	0.17	0.28	0.31	0.38	0.40	0.46	0.43	0.44	0.43	0.40	0.29	0.24	0.17	0.12	0.19	0.16	0.15	24	0.46	0.04	0.23
6/23/08	0.22	0.25	0.30	0.33	0.20	0.16	0.22	0.32	0.40	0.51	0.51	0.48	0.47	0.47	0.48	0.53	0.49	0.51	0.45	0.34	0.27	0.26	0.21	0.19	24	0.53	0.16	0.36
6/24/08	0.15	0.15	0.15	0.14	0.16	0.15	0.26	0.31	0.37	0.41	0.41	0.53	0.55	0.51	0.49	0.46	0.48	0.47	0.45	0.30	0.35	0.64	0.31	0.13	24	0.64	0.13	0.35
6/25/08	0.15	0.24	0.23	0.16	0.14	0.16	0.20	0.27	0.35	0.38	0.42	0.45	0.45	0.43	0.38	0.34	0.28	0.17	0.16	0.11	0.10	0.11	0.12	0.17	24	0.45	0.10	0.25
6/26/08	0.26	0.27	0.60	0.38	0.17	0.19	0.16	0.21	0.41	0.40	0.40	0.40	0.57	0.49	0.47	0.44	0.41	0.40	0.31	0.16	0.23	0.61	0.47	0.18	24	0.61	0.16	0.36
6/27/08	0.12	0.31	0.11	0.08	0.18	0.36	0.38	0.38	0.20	0.29	0.46	0.61	0.58	0.64	0.70	0.69	0.65	0.57	0.45	0.23	0.11	0.11	0.22	0.27	24	0.70	0.08	0.36
6/28/08	0.23	0.57	0.58	0.62	0.51	0.54	0.61	0.71	0.73	0.75	0.74	0.76	0.77	0.76	0.64	0.68	0.64	0.66	0.55	0.43	0.31	0.17	0.21	0.27	24	0.77	0.17	0.56
6/29/08	0.31	0.24	0.25	0.24	0.22	0.25	0.31	0.37	0.45	0.48	0.50	0.53	0.48	0.49	0.44	0.44	0.35	0.30	0.26	0.11	0.07	0.05	0.07	0.01	24	0.53	0.01	0.30
6/30/08	0.04	0.05	0.06	0.11	0.08	0.08	0.13	0.23	0.32	0.39	0.42	0.45	0.48	0.52	0.49	0.47	0.42	0.39	0.35	0.21	0.17	0.25	0.27	0.27	24	0.52	0.04	0.28
																									0			
hr max	0.72	0.76	0.97	0.94	0.85	0.73	0.79	0.71	0.73	0.78	0.80	0.86	0.80	0.80	0.70	0.88	0.80	0.73	0.78	0.78	0.71	0.74	0.79	0.73				
hr min	0.01	0.05	0.03	0.04	0.02	0.03	0.07	0.13	0.20	0.29	0.27	0.22	0.31	0.28	0.32	0.26	0.25	0.17	0.12	0.08	0.04	0.04	0.02	0.01				
average	0.23	0.24	0.26	0.24	0.24	0.22	0.29	0.36	0.41	0.45	0.48	0.50	0.52	0.51	0.49	0.48	0.45	0.40	0.37	0.25	0.21	0.23	0.23	0.23				

monthly max hr	monthly min hr	monthly ave hr
0.97	0.01	0.35
6/11/08	6/21/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.12	0.12	0.07	0.01	0.06	0.12	0.11	0.35	0.61	0.90	0.98	1.03	1.12	1.10	1.09	0.85	0.85	0.71	0.54	0.15	0.23	0.26	0.15	0.23	24	1.12	0.01	0.49
6/2/08	0.67	0.44	0.33	0.48	0.27	0.23	0.14	0.12	0.33	0.61	0.74	0.82	0.84	0.83	0.71	0.59	0.62	0.61	0.61	0.73	0.69	0.71	0.72	0.80	24	0.84	0.12	0.57
6/3/08	0.62	0.44	0.33	0.20	0.28	0.29	0.38	0.42	0.58	0.50	0.42	0.53	0.48	0.82	0.75	0.71	0.53	0.32	0.22	0.16	0.17	0.21	0.36	0.23	24	0.82	0.16	0.41
6/4/08	0.45	0.31	0.25	0.17	0.19	0.17	0.11	0.20	0.42	0.62	0.69	0.72	0.86	0.69	0.36	0.33	0.46	0.53	0.45	0.35	0.21	0.25	0.30	0.52	24	0.86	0.11	0.40
6/5/08	0.63	0.47	0.57	0.68	0.76	0.69	0.81	0.84	0.94	1.07	1.09	1.20	1.16	1.16	1.03	1.19	1.13	1.09	1.07	1.12	1.12	0.90	0.80	0.68	24	1.20	0.47	0.93
6/6/08	0.72	0.82	0.89	1.11	1.10	0.97	1.03	1.08	1.07	1.00	1.10	1.07	1.02	1.09	1.05	0.99	0.90	0.83	0.52	0.14	0.10	0.38	0.19	0.21	24	1.11	0.10	0.81
6/7/08	0.19	0.19	0.26	0.18	0.17	0.10	0.18	0.41	0.60	0.56	0.65	0.77	0.85	0.88	0.72	0.73	0.58	0.57	0.49	0.26	0.03	0.00	0.17	0.14	24	0.88	0.00	0.40
6/8/08	0.18	0.08	0.10	0.20	0.12	0.10	0.14	0.17	0.38	0.58	0.65	0.92	0.90	0.86	0.99	1.03	1.00	0.94	0.86	0.47	0.32	0.24	0.09	0.29	24	1.03	0.08	0.48
6/9/08	0.26	0.41	0.48	0.48	0.60	0.69	0.83	1.14	1.02	0.95	1.05	1.06	1.09	0.89	0.93	0.95	1.00	0.80	0.75	0.35	0.14	0.09	0.12	0.20	24	1.14	0.09	0.68
6/10/08	0.13	0.12	0.12	0.18	0.10	0.18	0.22	0.53	0.62	0.70	0.68	0.80	0.84	1.05							0.98	1.14	1.13	1.03	18	1.14	0.10	0.59
6/11/08	1.14	1.11	1.20	1.18	1.19	1.09	1.04	0.96	0.82	0.67	0.45	0.31	0.45	0.70	0.87	0.94	0.85	0.59	0.44	0.27	0.19	0.11	0.58	0.61	24	1.20	0.11	0.74
6/12/08	0.11	0.13	0.21	0.22	0.19	0.29	0.47	0.63	0.84	0.83	0.85	0.92	0.96	1.01	1.05	0.95	0.56	0.56	0.78	0.83	0.72	0.66	0.85	0.76	24	1.05	0.11	0.64
6/13/08	0.80	0.98	0.89	0.90	0.78	0.61	0.90	1.06	1.06	1.09	1.10	1.12	1.16	1.17	1.18	0.99	0.87	0.51	0.78	0.24	0.21	0.16	0.18	0.30	24	1.18	0.16	0.79
6/14/08	0.14	0.23	0.12	0.19	0.12	0.15	0.21	0.42	0.57	0.68	0.80	0.82	0.78	0.64	0.53	0.76	0.79	0.79	0.54	0.27	0.14	0.15	0.35	0.13	24	0.82	0.12	0.43
6/15/08	0.10	0.10	0.11	0.16	0.13	0.10	0.34	0.54	0.72	0.96	1.08	1.05	1.12	1.07	1.02	0.91	0.93	0.81	0.62	0.34	0.17	0.21	0.11	0.13	24	1.12	0.10	0.53
6/16/08	0.06	0.09	0.01	0.08	0.00	0.12	0.14	0.32	0.68	0.73	0.97	0.91	1.06	0.95	1.02	1.04	0.90	0.80	0.52	0.26	0.11	0.07	0.04	0.18	24	1.06	0.00	0.46
6/17/08	0.08	0.12	0.10	0.10	0.27	0.29	0.26	0.47	0.65	0.80	0.93	0.96	1.05	0.98	0.92	0.91	0.75	0.56	0.39	0.25	0.11	0.09	0.03	0.26	24	1.05	0.03	0.47
6/18/08	0.20	0.12	0.19	0.20	0.38	0.13	0.32	0.59	0.58	0.73	0.83	0.78	1.02	0.87	0.55	0.42	0.68	0.67	0.42	0.15	0.01	0.00	0.67	0.57	24	1.02	0.00	0.46
6/19/08	0.37	0.35	0.29	0.24	0.21	0.14	0.23	0.52	0.63	0.65	0.72	0.76	0.83	0.78	0.80	0.74	0.57	0.43	0.58	0.15	0.14	0.04	0.05	0.23	24	0.83	0.04	0.44
6/20/08	0.20	0.18	0.32	0.20	0.18	0.17	0.34	0.25	0.47	0.72	0.92	0.98	1.01	1.00	0.89	0.94	0.79	0.78	0.43	0.14	0.06	0.02	0.04	0.05	24	1.01	0.02	0.46
6/21/08	0.05	0.10	0.15	0.17	0.26	0.19	0.18	0.25	0.52	0.65	0.76	0.62	0.71	0.53	0.62	0.68	0.70	0.47	0.25	0.20	0.23	0.10	0.07	0.08	24	0.76	0.05	0.36
6/22/08	0.14	0.11	0.06	0.04	0.02	0.05	0.09	0.17	0.34	0.51	0.69	0.76	0.84	0.85	0.90	0.81	0.89	0.66	0.53	0.23	0.00	0.00	0.11	0.25	24	0.90	0.00	0.38
6/23/08	0.24	0.31	0.26	0.28	0.24	0.11	0.21	0.38	0.47	0.65	0.67	0.68	0.83	0.63	0.75	0.89	0.79	0.70	0.58	0.34	0.15	0.20	0.21	0.22	24	0.89	0.11	0.45
6/24/08	0.14	0.27	0.13	0.20	0.25	0.18	0.21	0.30	0.60	0.78	0.85	1.07	1.06	0.82	0.79	0.83	0.68	0.55	0.55	0.32	0.35	0.96	0.53	0.23	24	1.07	0.13	0.53
6/25/08	0.27	0.40	0.28	0.28	0.20	0.25	0.16	0.30	0.53	0.62	0.65	0.72	0.72	0.82	0.76	0.68	0.61	0.39	0.31	0.17	0.11	0.03	0.00	0.00	24	0.82	0.00	0.39
6/26/08	0.42	0.25	0.64	0.70	0.28	0.25	0.17	0.22	0.63	0.57	0.53	0.66	0.91	0.80	0.73	0.72	0.59	0.58	0.35	0.18	0.32	0.90	0.67	0.24	24	0.91	0.17	0.51
6/27/08	0.16	0.36	0.18	0.19	0.14	0.42	0.47	0.42	0.23	0.36	0.80	1.05	0.97	1.01	1.10	1.01	1.00	0.84	0.61	0.28	0.16	0.13	0.33	0.32	24	1.10	0.13	0.52
6/28/08	0.31	0.81	0.85	0.99	0.77	0.84	0.93	1.07	1.15	1.23	1.22	1.25	1.20	1.21	1.02	1.01	0.91	0.99	0.81	0.53	0.35	0.26	0.23	0.21	24	1.25	0.21	0.84
6/29/08	0.26	0.28	0.24	0.19	0.18	0.23	0.45	0.53	0.72	0.85	0.85	0.95	0.90	0.90	0.82	0.78	0.65	0.47	0.37	0.17	0.13	0.08	0.07	0.03	24	0.95	0.03	0.46
6/30/08	0.05	0.01	0.10	0.13	0.12	0.12	0.00	0.22	0.53	0.72	0.87	0.88	0.85	0.96	0.88	0.73	0.65	0.52	0.35	0.16	0.10	0.15	0.19	0.21	24	0.96	0.00	0.40
																									0			
hr max	1.14	1.11	1.20	1.18	1.19	1.09	1.04	1.14	1.15	1.23	1.22	1.25	1.20	1.21	1.18	1.19	1.13	1.09	1.07	1.12	1.12	1.14	1.13	1.03				
hr min	0.05	0.01	0.01	0.01	0.00	0.05	0.00	0.12	0.23	0.36	0.42	0.31	0.45	0.53	0.36	0.33	0.46	0.32	0.22	0.14	0.00	0.00	0.00	0.00				
average	0.31	0.32	0.32	0.34	0.32	0.31	0.37	0.50	0.64	0.74	0.82	0.87	0.92	0.90	0.86	0.83	0.77	0.66	0.54	0.32	0.26	0.28	0.31	0.31				

monthly max hr	monthly min hr	monthly ave hr
1.25	0.00	0.53
6/28/08	6/7/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.12	0.13	0.06	0.00	0.02	0.00	0.00	0.35	0.62	0.98	1.35	1.19	1.42	1.45	1.42	1.08	1.08	0.75	0.64	0.22	0.16	0.30	0.43	0.75	24	1.45	0.00	0.61
6/2/08	0.67	0.62	0.82	0.78	0.30	0.35	0.18	0.20	0.37	0.53	0.82	0.99	1.02	1.04	0.94	0.65	0.79	0.78	0.65	0.81	0.56	0.72	0.71	0.72	24	1.04	0.18	0.67
6/3/08	0.61	0.47	0.33	0.22	0.26	0.29	0.38	0.41	0.57	0.55	0.46	0.60	0.50	0.85	0.90	0.82	0.66	0.37	0.26	0.19	0.19	0.17	0.36	0.25	24	0.90	0.17	0.44
6/4/08	0.59	0.27	0.29	0.17	0.28	0.56	0.23	0.45	0.49	0.67	0.77	0.82	0.95	0.70	0.28	0.34	0.57	0.69	0.43	0.25	0.16	0.32	0.19	0.48	24	0.95	0.16	0.46
6/5/08	0.59	0.49	0.52	0.56	0.72	0.68	0.77	0.75	0.94	1.11	1.05	1.13	1.02	1.06	0.99	1.06	1.11	1.06	0.93	0.95	0.92	0.76	0.70	0.57	24	1.13	0.49	0.85
6/6/08	0.49	0.63	0.74	0.94	0.97	0.91	0.92	1.01	1.09	0.96	1.10	1.11	1.12	1.07	1.11	1.07	0.96	0.84	0.50	0.18	0.24	0.48	0.13	0.18	24	1.12	0.13	0.78
6/7/08	0.11	0.12	0.11	0.11	0.12	0.10	0.09	0.40	0.64	0.59	0.71	0.85	0.99	1.07	0.89	0.87	0.68	0.68	0.60	0.33	0.11	0.10	0.14	0.13	24	1.07	0.09	0.44
6/8/08	0.05	0.09	0.09	0.16	0.09	0.13	0.27	0.21	0.29	0.54	0.74	1.12	1.06	1.03	1.23	1.26	1.04	1.04	0.71	0.37	0.21	0.18	0.11	0.39	24	1.26	0.05	0.52
6/9/08	0.28	0.32	0.38	0.39	0.46	0.56	0.81	1.11	1.00	1.00	1.15	1.16	1.18	1.00	1.06	1.08	1.15	0.86	0.81	0.33	0.19	0.10	0.12	0.19	24	1.18	0.10	0.70
6/10/08	0.12	0.10	0.07	0.08	0.09	0.09	0.11	0.40	0.70	0.78	0.82	0.90	0.99	1.21							2.81	1.06	1.08	1.05	18	2.81	0.07	0.69
6/11/08	1.07	1.01	1.15	1.10	1.19	1.06	0.98	0.91	0.79	0.71	0.50	0.30	0.39	0.63	0.89	0.90	0.91	0.54	0.43	0.24	0.21	0.11	0.70	0.56	24	1.19	0.11	0.72
6/12/08	0.27	0.20	0.24	0.18	0.10	0.12	0.32	0.55	0.91	0.99	0.85	1.10	1.14	1.12	1.20	1.04	0.65	0.57	0.70	0.75	0.55	0.61	0.85	0.69	24	1.20	0.10	0.65
6/13/08	0.74	0.87	0.80	0.75	0.63	0.62	0.83	1.08	1.15	1.08	1.19	1.23	1.22	1.19	1.26	1.17	0.95	0.69	0.85	0.35	0.28	0.21	0.23	0.36	24	1.26	0.21	0.82
6/14/08	0.16	0.26	0.15	0.16	0.09	0.12	0.22	0.44	0.54	0.73	0.90	0.96	0.86	0.61	0.53	0.83	0.83	0.76	0.43	0.24	0.15	0.23	0.30	0.12	24	0.96	0.09	0.44
6/15/08	0.16	0.11	0.10	0.09	0.11	0.09	0.27	0.48	0.73	1.07	1.16	1.28	1.27	1.20	1.19	0.99	1.07	0.85	0.64	0.30	0.12	0.09	0.10	0.15	24	1.28	0.09	0.57
6/16/08	0.09	0.09	0.08	0.07	0.07	0.09	0.12	0.34	0.76	0.88	1.13	1.18	1.25	1.05	1.44	1.29	1.15	1.03	0.56	0.34	0.17	0.06	0.00	0.16	24	1.44	0.00	0.56
6/17/08	0.00	0.17	0.48	0.40	0.49	0.49	0.33	0.30	0.40	0.74	0.72	0.86	1.06	0.94	1.07	1.08	0.90	0.76	0.47	0.17	0.09	0.07	0.09	0.38	24	1.08	0.00	0.52
6/18/08	0.17	0.11	0.08	0.17	0.28	0.08	0.22	0.39	0.34	0.69	0.74	0.65	1.03	0.85	0.50	0.28	0.66	0.58	0.29	0.12	0.10	0.07	0.90	0.59	24	1.03	0.07	0.41
6/19/08	0.27	1.37	0.18	0.68	0.13	0.08	0.14	0.45	0.60	0.74	0.79	0.94	1.05	0.89	0.94	0.77	0.65	0.57	0.65	0.19	0.16	0.08	0.11	0.36	24	1.37	0.08	0.53
6/20/08	0.25	0.26	0.62	0.22	0.27	0.28	0.56	0.24	0.51	0.84	1.19	1.20	1.14	1.19	1.10	1.02	0.80	0.75	0.44	0.17	0.14	0.00	0.00	0.00	24	1.20	0.00	0.55
6/21/08	0.09	0.11	0.26	0.23	0.41	0.21	0.20	0.23	0.53	0.76	0.86	0.78	0.84	0.80	0.69	0.77	0.77	0.53	0.24	0.24	0.26	0.10	0.10	0.09	24	0.86	0.09	0.42
6/22/08	0.19	0.09	0.09	0.11	0.15	0.00	0.05	0.09	0.31	0.58	0.89	0.92	1.03	1.09	1.05	1.00	1.13	0.86	0.64	0.27	0.10	0.07	0.06	0.20	24	1.13	0.00	0.46
6/23/08	0.13	0.05	0.07	0.07	0.29	0.72	0.62	0.70	0.71	0.80	0.81	0.79	1.05	0.72	0.73	0.74	0.75	0.77	0.50	0.38	0.09	0.20	0.71	0.28	24	1.05	0.05	0.53
6/24/08	0.11	0.89	0.22	0.45	0.31	0.37	0.56	0.30	0.57	0.76	0.99	1.16	1.02	0.87	1.00	1.05	0.83	0.71	0.70	0.28	0.18	1.29	0.79	0.47	24	1.29	0.11	0.66
6/25/08	0.56	0.92	0.32	0.33	0.16	0.17	0.08	0.17	0.52	0.66	0.64	0.75	0.72	0.94	0.92	0.78	0.74	0.50	0.37	0.17	0.16	0.11	0.09	0.17	24	0.94	0.08	0.46
6/26/08	0.63	0.38	0.48	0.96	0.35	0.48	0.15	0.30	0.43	0.48	0.79	0.91	1.05	0.96	0.82	0.74	0.70	0.60	0.24	0.19	0.42	1.25	0.87	0.38	24	1.25	0.15	0.61
6/27/08	0.25	0.85	0.28	0.25	0.18	0.25	0.29	0.31	0.28	0.37	0.81	1.14	1.01	1.04	1.09	0.98	0.86	0.80	0.56	0.26	0.09	0.16	0.33	0.28	24	1.14	0.09	0.53
6/28/08	0.35	0.75	0.80	1.00	0.72	0.79	0.94	1.08	1.14	1.28	1.18	1.23	1.09	1.17	1.06	1.12	0.84	0.94	0.73	0.43	0.19	0.21	0.15	0.11	24	1.28	0.11	0.80
6/29/08	0.11	0.10	0.08	0.10	0.11	0.10	0.32	0.43	0.68	0.93	1.01	1.02	0.96	1.06	1.07	0.92	0.76	0.47	0.36	0.18	0.18	0.13	0.11	0.04	24	1.07	0.04	0.47
6/30/08	0.03	0.02	0.31	0.52	0.08	0.24	0.16	0.13	0.51	0.85	1.07	1.06	1.00	1.14	1.16	0.89	0.75	0.58	0.53	0.11	0.08	0.08	0.07	0.09	24	1.16	0.02	0.48
																									0			

hr max	1.07	1.37	1.15	1.10	1.19	1.06	0.98	1.11	1.15	1.28	1.35	1.28	1.42	1.45	1.44	1.29	1.15	1.06	0.93	0.95	2.81	1.29	1.08	1.05
hr min	0.00	0.02	0.06	0.00	0.02	0.00	0.00	0.09	0.28	0.37	0.46	0.30	0.39	0.61	0.28	0.28	0.57	0.37	0.24	0.11	0.08	0.00	0.00	0.00
average	0.31	0.40	0.34	0.38	0.31	0.33	0.37	0.47	0.64	0.79	0.91	0.98	1.01	1.00	0.98	0.92	0.85	0.72	0.55	0.31	0.31	0.31	0.35	0.34

monthly max hr	monthly min hr	monthly ave hr
2.81	0.00	0.58
6/10/08	6/1/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	14.2	12.4	14.0	11.7	11.3	11.0	15.3	18.6	20.7	23.3	24.6	25.3	25.8	26.0	26.5	26.0	26.0	26.0	25.1	23.0	20.7	20.0	18.4	17.8	24	26.5	11.0	20.2
6/2/08	16.5	14.0	14.4	14.8	13.5	13.6	13.3	13.6	14.1	15.2	17.5	19.2	20.2	20.8	21.2	21.5	22.0	21.4	19.3	17.3	14.2	12.8	12.0	11.6	24	22.0	11.6	16.4
6/3/08	11.9	12.4	12.6	12.5	12.0	11.6	11.6	11.9	12.4	12.8	13.0	13.2	14.1	15.6	17.6	19.0	18.7	18.5	17.9	17.3	15.3	14.2	12.9	13.4	24	19.0	11.6	14.3
6/4/08	12.4	11.2	11.9	11.7	11.4	11.5	12.7	14.5	16.7	18.6	19.7	20.8	21.5	21.5	19.4	20.2	19.4	18.0	18.1	17.2	15.4	14.2	14.7	15.9	24	21.5	11.2	16.2
6/5/08	15.7	16.0	15.4	15.0	14.5	14.2	14.0	13.8	13.9	14.1	14.0	13.5	12.7	12.2	12.0	11.8	11.9	11.9	11.8	11.7	11.6	11.4	11.1	11.0	24	16.0	11.0	13.1
6/6/08	10.9	10.6	10.4	10.1	10.1	10.2	10.0	10.1	11.0	11.8	13.5	15.2	16.2	17.7	18.5	19.2	19.9	20.3	19.9	17.0	15.4	15.1	13.2	13.1	24	20.3	10.0	14.1
6/7/08	12.6	12.4	12.6	12.6	12.2	12.2	12.6	14.1	15.2	15.6	16.7	17.7	18.7	19.3	19.2	19.1	18.8	19.1	19.2	18.4	15.7	14.2	13.4	13.1	24	19.3	12.2	15.6
6/8/08	12.7	12.3	13.4	12.6	12.0	12.5	13.9	15.1	15.8	17.0	18.7	19.7	20.4	19.6	20.2	20.3	20.1	19.8	16.3	16.1	14.0	12.2	10.5	10.6	24	20.4	10.5	15.7
6/9/08	10.5	10.5	11.0	10.5	10.0	9.9	10.9	12.6	13.2	14.0	15.4	16.4	16.8	16.6	16.8	17.2	18.5	17.8	17.0	15.4	12.6	11.3	9.7	9.8	24	18.5	9.7	13.5
6/10/08	8.4	8.2	7.8	7.8	6.7	7.7	9.7	11.8	13.8	15.1	15.8	16.2	16.7	17.5	18.1	18.4	17.8		18.5	15.3	14.3	13.2	12.4	12.3	23	18.5	6.7	13.2
6/11/08	12.6	12.2	11.4	11.2	11.1	11.5	11.9	11.7	12.4	12.7	12.9	13.4	13.7	13.9	15.2	15.4	16.0	15.1	14.1	13.8	12.0	10.7	10.2	9.0	24	16.0	9.0	12.7
6/12/08	7.3	6.3	6.1	5.6	5.8	6.4	8.4	11.0	13.3	14.7	15.4	16.7	17.5	18.7	18.7	16.4	13.6	13.7	14.6	13.1	11.5	10.7	10.9	10.3	24	18.7	5.6	11.9
6/13/08	10.1	10.3	10.1	9.9	9.6	9.2	11.0	12.7	14.5	15.8	17.1	18.0	18.7	19.8	20.7	21.3	21.3	16.2		13.3	12.7	12.1	11.1	12.4	23	21.3	9.2	14.3
6/14/08	11.3	10.4	9.8	9.7	9.6	9.3	11.9	15.3	17.5	19.1	21.1	22.5	23.5	23.0	23.3	25.0	26.1	25.6	24.6	22.8	19.0	16.6	13.8	11.8	24	26.1	9.3	17.6
6/15/08	12.0	11.6	11.1	10.6	9.2	9.8	13.0	14.9	16.4	17.7	18.8	19.4	20.0	20.3	20.6	20.7	20.4	19.3	17.9	16.1	13.3	11.0	10.5	10.1	24	20.7	9.2	15.2
6/16/08	9.6	8.2	7.5	7.4	7.0	6.8	9.8	12.3	14.2	15.4	16.5	17.9	18.9	19.8	20.0	20.6	20.8	20.4	19.2	18.5	16.8	15.4	13.9	12.5	24	20.8	6.8	14.6
6/17/08	12.1	11.8	10.5	10.5	10.4	12.0	14.4	17.2	18.8	20.7	21.8	22.4	23.2	23.9	24.2	24.7	24.1	22.7	21.9	20.6	17.2	15.9	15.1	14.2	24	24.7	10.4	17.9
6/18/08	13.4	12.4	13.6	12.6	12.5	13.3	15.9	18.2	19.8	21.4	22.5	23.1	24.3	24.3	23.4	23.1	23.9	24.0	23.3	21.4	18.5	17.2	17.3	13.9	24	24.3	12.4	18.9
6/19/08	14.1	14.4	14.1	13.4	13.1	13.3	14.8	17.0	19.1	20.7	21.7	22.5	23.2	23.6	24.4	24.4	24.2	24.2	22.8	20.9	18.7	17.7	16.9	16.3	24	24.4	13.1	19.0
6/20/08	14.7	14.2	14.6	13.9	14.1	14.8	15.4	17.6	20.5	22.2	23.4	23.7	23.9	24.3	24.5	24.5	24.0	23.7	22.9	21.3	20.0	17.4	16.1	15.7	24	24.5	13.9	19.5
6/21/08	15.2	14.5	15.1	14.0	13.2	12.0	14.8	18.6	20.9	22.4	23.0	23.1	23.8	22.1	23.4	23.9	24.1	23.2	22.1	20.8	17.6	16.3	16.5	15.1	24	24.1	12.0	19.0
6/22/08	14.5	13.6	13.1	13.8	12.9	12.3	15.1	18.5	20.9	22.1	22.8	23.4	23.8	24.0	24.2	24.3	24.0	23.5	22.7	20.4	17.6	17.1	15.8	14.7	24	24.3	12.3	19.0
6/23/08	15.8	16.1	16.2	15.4	14.9	13.8	13.8	14.4	16.1	17.4	18.6	19.5	20.9	21.6	22.0	23.2	23.8	23.3	22.3	20.4	18.1	17.6	16.3	16.6	24	23.8	13.8	18.3
6/24/08	15.5	15.0	14.5	13.9	14.0	14.2	16.3	18.6	21.1	23.1	24.5	25.7	27.5	28.9	29.3	29.6	29.4	28.7	27.5	25.2	23.6	18.9	16.7	17.3	24	29.6	13.9	21.6
6/25/08	18.0	18.4	17.6	17.0	16.8	16.5	16.6	18.0	20.1	22.0	23.1	24.1	24.9	25.3	25.5	25.8	25.4	25.0	23.9	23.1	19.7	17.9	18.0	18.5	24	25.8	16.5	20.9
6/26/08	18.9	17.8	17.9	17.5	16.2	15.9	17.3	17.7	20.2	21.3	21.5	20.2	21.4	24.1	25.3	26.2	26.6	26.4	24.7	22.0	21.6	18.9	19.0	15.7	24	26.6	15.7	20.6
6/27/08	14.8	15.4	15.3	14.7	14.7	16.1	16.6	16.6	16.2	18.0	20.6	23.0	23.2	23.4	22.9	22.4	22.3	21.6	20.5	18.4	15.5	13.4	14.3	14.9	24	23.4	13.4	18.1
6/28/08	14.0	14.7	13.8	12.9	12.3	12.4	13.4	14.4	15.3	16.5	18.1	19.3	19.4	20.0	19.7	21.1	20.6	20.9	20.2	18.6	16.8	15.0	14.4	14.1	24	21.1	12.3	16.6
6/29/08	14.1	13.3	12.8	12.1	11.4	11.8	13.7	15.9	17.8	19.5	20.7	21.7	22.1	22.9	23.1	23.5	23.2	23.0	22.6	20.5	19.2	17.1	16.6	14.9	24	23.5	11.4	18.1
6/30/08	13.6	13.1	12.9	12.4	12.5	12.8	15.6	19.3	21.7	23.0	24.1	24.6	25.2	26.0	26.4	26.6	26.6	26.3	25.1	22.4	19.2	18.5	18.0	17.4	24	26.6	12.4	20.1
																									0			
hr max	18.9	18.4	17.9	17.5	16.8	16.5	17.3	19.3	21.7	23.3	24.6	25.7	27.5	28.9	29.3	29.6	29.4	28.7	27.5	25.2	23.6	20.0	19.0	18.5				
hr min	7.3	6.3	6.1	5.6	5.8	6.4	8.4	10.1	11.0	11.8	12.9	13.2	12.7	12.2	12.0	11.8	11.9	11.9	11.8	11.7	11.5	10.7	9.7	9.0				
average	13.2	12.8	12.7	12.3	11.8	12.0	13.5	15.2	16.8	18.1	19.2	20.0	20.7	21.2	21.5	21.8	21.8	21.4	20.6	18.7	16.6	15.1	14.3	13.8				

monthly	monthly	monthly
max hr	min hr	ave hr
29.6	5.6	16.9
6/24/08	6/12/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	718
possible hours	720
data capture	99.7%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	18.7	17.7	17.3	15.4	15.2	15.9	16.0	18.5	20.0	22.4	23.9	24.4	25.0	25.3	25.8	25.8	25.8	26.0	25.4	24.2	23.4	22.4	20.2	19.4	24	26.0	15.2	21.4
6/2/08	16.5	13.9	15.1	15.9	14.0	14.1	13.6	13.7	14.0	14.6	16.7	18.2	19.4	20.2	20.7	21.2	21.7	21.6	19.6	17.5	14.4	13.0	12.1	11.7	24	21.7	11.7	16.4
6/3/08	11.9	12.3	12.6	12.4	12.0	11.6	11.4	11.6	12.0	12.4	12.5	12.8	13.7	15.5	17.1	18.5	18.4	18.4	18.2	17.7	16.4	14.9	13.6	13.7	24	18.5	11.4	14.2
6/4/08	12.6	11.3	12.0	12.5	12.0	12.1	12.7	14.4	16.2	18.0	18.9	19.9	20.7	21.2	19.2	20.1	19.6	18.0	18.3	17.5	16.1	15.2	15.1	15.9	24	21.2	11.3	16.2
6/5/08	15.8	16.0	15.3	15.0	14.5	14.2	14.0	13.8	13.8	14.0	13.9	13.4	12.6	12.2	12.0	11.8	11.9	11.9	11.8	11.7	11.6	11.5	11.1	10.9	24	16.0	10.9	13.1
6/6/08	10.8	10.5	10.3	10.0	10.1	10.3	9.9	10.0	10.8	11.7	13.0	14.6	15.7	17.1	18.0	18.7	19.6	20.2	20.0	18.0	17.3	15.8	14.1	13.7	24	20.2	9.9	14.2
6/7/08	13.1	12.9	13.0	12.9	12.5	12.5	12.8	13.9	14.8	15.3	16.0	16.9	17.7	18.5	18.6	18.8	18.7	19.0	19.2	19.0	17.6	17.0	16.1	15.4	24	19.2	12.5	15.9
6/8/08	15.4	13.9	16.3	13.7	14.0	14.0	14.3	15.2	15.7	16.6	17.9	18.5	19.3	18.6	19.3	19.4	19.5	19.4	16.2	16.3	14.5	12.9	11.5	11.2	24	19.5	11.2	16.0
6/9/08	10.7	10.7	11.2	10.8	10.3	10.1	10.9	12.2	12.9	13.6	14.7	15.4	16.0	16.1	15.9	16.5	17.8	17.3	17.0	15.9	13.8	12.6	12.5	11.7	24	17.8	10.1	13.6
6/10/08	10.4	11.1	10.2	9.5	8.6	8.8	9.5	11.2	13.1	14.3	15.2	15.8	16.2	16.9							4.5	13.3	12.4	12.3	18	16.9	4.5	11.9
6/11/08	12.6	12.3	11.5	11.2	11.1	11.5	11.9	11.7	12.3	12.6	12.7	13.1	13.3	13.4	14.7	15.2	15.4	14.9	14.0	13.8	12.4	11.4	11.0	9.3	24	15.4	9.3	12.6
6/12/08	8.5	7.3	6.7	6.1	6.1	6.5	8.2	10.6	12.7	13.8	14.4	15.6	16.5	17.8	17.8	16.1	13.7	13.9	14.8	13.5	12.0	11.2	11.3	10.7	24	17.8	6.1	11.9
6/13/08	10.6	10.7	10.4	10.2	9.9	9.5	11.1	12.6	14.1	15.2	16.5	17.3	18.1	19.0	20.0	20.7	21.0	16.1	13.5	13.5	13.6	14.2	14.0	13.5	24	21.0	9.5	14.4
6/14/08	12.7	11.0	10.6	10.7	10.8	10.1	11.8	15.0	16.9	18.3	20.2	21.5	22.8	22.7	23.5	24.8	25.9	25.7	25.0	23.4	20.7	18.4	15.1	13.4	24	25.9	10.1	18.0
6/15/08	13.3	13.8	13.5	13.1	10.0	10.4	13.0	14.4	15.6	16.7	17.8	18.4	18.9	19.3	19.6	19.8	19.8	19.0	18.1	17.1	15.1	12.8	11.9	11.3	24	19.8	10.0	15.5
6/16/08	11.2	10.6	10.3	9.0	8.8	8.2	9.5	12.0	13.7	14.6	15.7	16.9	17.8	18.7	19.3	19.8	20.2	20.2	19.8	19.6	18.5	17.2	15.8	15.2	24	20.2	8.2	15.1
6/17/08	15.2	14.0	13.3	13.9	12.9	13.0	14.6	17.0	18.3	20.0	21.0	21.5	22.2	23.0	23.4	24.1	23.9	23.4	22.9	21.9	19.6	18.1	17.6	16.4	24	24.1	12.9	18.8
6/18/08	15.2	14.8	15.0	14.2	13.7	14.4	16.2	18.2	19.7	21.0	22.0	22.7	23.4	23.9	23.7	23.5	23.8	24.0	23.7	22.3	20.4	18.9	18.0	14.3	24	24.0	13.7	19.5
6/19/08	14.5	15.0	14.8	14.2	13.6	13.7	14.7	16.7	18.6	19.8	20.7	21.5	22.3	22.9	23.7	23.9	24.2	24.2	22.8	21.9	20.8	20.4	19.1	18.1	24	24.2	13.6	19.3
6/20/08	16.3	16.1	16.8	15.5	15.4	15.9	15.8	17.4	20.0	21.4	22.7	22.9	22.9	23.5	24.0	24.1	23.9	23.8	23.4	22.5	21.8	21.0	19.6	20.4	24	24.1	15.4	20.3
6/21/08	20.1	19.0	19.3	17.2	15.9	14.4	14.6	18.4	20.4	21.8	22.3	22.6	23.1	22.3	22.8	23.5	23.9	23.8	23.2	22.3	19.6	17.9	18.0	17.4	24	23.9	14.4	20.2
6/22/08	16.6	16.1	16.5	16.7	15.6	15.3	15.1	18.2	20.6	21.7	22.2	22.7	23.0	23.4	23.8	24.0	24.1	24.0	23.6	22.4	19.9	18.6	17.5	16.5	24	24.1	15.1	19.9
6/23/08	16.7	17.0	17.0	15.9	15.7	14.4	14.2	14.6	16.0	17.1	18.3	18.7	20.0	20.9	21.4	22.8	23.4	23.2	22.5	20.8	18.5	17.9	16.8	16.9	24	23.4	14.2	18.4
6/24/08	16.3	16.0	15.7	15.0	15.0	15.2	16.4	18.2	20.5	22.4	23.8	25.0	26.7	28.3	28.7	29.2	29.4	28.8	27.9	25.7	24.1	19.2	17.1	18.0	24	29.4	15.0	21.8
6/25/08	19.4	19.2	18.3	17.9	17.5	17.1	16.9	17.9	19.7	21.4	22.4	23.6	24.4	24.6	25.1	25.5	25.5	25.3	24.9	24.9	23.2	20.6	21.1	20.1	24	25.5	16.9	21.5
6/26/08	19.9	19.3	18.5	18.2	17.9	16.2	17.4	17.8	19.8	21.0	21.5	20.2	20.8	23.2	24.5	25.6	26.4	26.5	25.2	23.2	22.2	19.5	19.6	16.3	24	26.5	16.2	20.9
6/27/08	15.4	15.8	16.6	16.6	15.4	16.3	16.8	17.0	16.4	17.9	20.1	22.3	22.6	22.9	22.5	22.1	22.2	21.8	20.9	19.4	17.0	14.8	15.1	15.6	24	22.9	14.8	18.5
6/28/08	14.6	15.1	14.2	13.2	12.6	12.6	13.5	14.3	15.0	16.1	17.5	18.6	19.3	19.9	19.5	20.9	20.8	21.0	20.6	19.1	17.5	16.0	15.4	14.8	24	21.0	12.6	16.8
6/29/08	14.9	14.1	13.5	12.9	12.1	12.2	13.5	15.4	17.1	18.8	19.9	21.0	21.5	22.3	22.8	23.2	23.3	23.3	23.2	22.1	21.1	20.6	20.2	19.7	24	23.3	12.1	18.7
6/30/08	19.0	18.8	18.4	18.3	16.9	16.1	15.9	18.8	21.0	22.2	23.2	23.7	24.2	25.2	25.8	26.2	26.5	26.5	25.6	23.4	20.8	19.6	18.9	18.4	24	26.5	15.9	21.4
																									0			
hr max	20.1	19.3	19.3	18.3	17.9	17.1	17.4	18.8	21.0	22.4	23.9	25.0	26.7	28.3	28.7	29.2	29.4	28.8	27.9	25.7	24.1	22.4	21.1	20.4				
hr min	8.5	7.3	6.7	6.1	6.1	6.5	8.2	10.0	10.8	11.7	12.5	12.8	12.6	12.2	12.0	11.8	11.9	11.9	11.8	11.7	4.5	11.2	11.0	9.3				
average	14.6	14.2	14.1	13.6	13.0	12.9	13.5	15.0	16.4	17.6	18.6	19.3	20.0	20.6	21.1	21.6	21.7	21.4	20.7	19.7	17.6	16.6	15.7	15.1				

monthly max hr	monthly min hr	monthly ave hr
29.4	4.5	17.3
6/24/08	6/10/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	20.2	19.0	18.6	18.8	18.6	18.4	18.1	18.2	19.5	21.8	23.3	23.8	24.3	24.7	25.2	25.3	25.3	25.5	25.1	24.2	23.9	22.6	22.1	20.8	24	25.5	18.1	22.0
6/2/08	16.5	14.3	17.1	18.4	14.6	14.4	14.4	13.8	13.6	14.0	16.1	17.5	18.8	19.6	20.2	20.7	21.2	21.3	19.4	17.3	14.3	12.9	11.9	11.5	24	21.3	11.5	16.4
6/3/08	11.7	12.0	12.3	12.2	11.7	11.3	11.1	11.2	11.5	11.9	12.1	12.4	13.1	14.2	15.5	17.6	17.9	18.0	17.9	17.6	17.0	16.4	14.6	14.2	24	18.0	11.1	14.0
6/4/08	12.5	11.3	12.8	13.6	13.7	14.3	14.5	14.4	15.7	17.4	18.3	19.3	20.1	20.6	19.0	19.7	19.4	17.9	18.1	17.6	16.9	16.3	15.6	15.8	24	20.6	11.3	16.5
6/5/08	15.7	15.8	15.1	14.7	14.2	13.9	13.7	13.5	13.5	13.6	13.5	12.9	12.2	11.8	11.7	11.5	11.6	11.6	11.6	11.4	11.3	11.2	10.8	10.7	24	15.8	10.7	12.8
6/6/08	10.5	10.2	10.0	9.7	9.7	9.8	9.5	9.6	10.4	11.2	12.6	14.2	15.3	16.5	17.4	18.2	19.0	19.7	19.8	19.5	19.6	16.6	14.8	14.4	24	19.8	9.5	14.1
6/7/08	14.3	14.8	13.9	13.6	13.2	13.5	13.2	13.5	14.3	14.8	15.4	16.3	17.1	17.8	18.0	18.2	18.2	18.5	18.8	18.7	18.3	18.0	17.5	17.1	24	18.8	13.2	16.1
6/8/08	17.3	17.2	17.2	16.0	16.7	16.5	16.0	15.0	15.3	16.0	17.2	17.8	18.6	18.0	18.5	18.4	18.5	18.7	15.7	16.1	15.0	14.1	14.1	13.1	24	18.7	13.1	16.5
6/9/08	11.4	10.9	11.1	10.8	10.3	10.0	10.5	11.7	12.5	13.0	14.0	14.5	15.2	15.4	15.0	15.7	16.8	16.5	16.3	15.6	14.4	13.9	14.0	12.6	24	16.8	10.0	13.4
6/10/08	11.8	11.8	11.6	11.9	11.5	11.5	10.6	10.6	12.4	13.5	14.5	15.1	15.5	16.1							4.3	13.0	12.1	12.1	18	16.1	4.3	12.2
6/11/08	12.3	12.1	11.4	10.9	10.8	11.2	11.6	11.4	12.0	12.3	12.4	12.7	12.8	12.7	14.1	14.9	14.8	14.4	13.6	13.4	13.2	12.9	11.9	9.1	24	14.9	9.1	12.5
6/12/08	9.6	11.0	10.2	8.9	8.1	7.4	8.0	10.2	12.1	13.1	13.7	14.9	15.8	17.0	17.1	15.5	13.5	13.8	14.5	13.4	12.1	11.3	11.3	10.8	24	17.1	7.4	12.2
6/13/08	10.7	10.8	10.5	10.2	9.9	9.5	10.9	12.3	13.7	14.7	15.9	16.7	17.5	18.2	19.3	19.8	20.2	15.9	13.3	13.5	14.2	14.8	15.0	15.1	24	20.2	9.5	14.3
6/14/08	15.0	13.9	14.2	13.8	14.4	13.4	13.7	14.6	16.4	17.8	19.7	21.0	22.2	22.2	23.1	24.2	25.0	25.1	24.6	23.9	23.1	22.7	16.2	14.4	24	25.1	13.4	18.9
6/15/08	14.6	15.3	14.6	14.8	13.7	13.9	13.7	13.9	14.9	15.8	16.8	17.4	17.9	18.4	18.7	18.9	18.9	18.4	17.6	17.1	16.4	14.9	13.3	12.2	24	18.9	12.2	15.9
6/16/08	12.3	12.5	12.7	12.1	11.9	11.7	10.8	11.7	13.1	14.0	15.1	16.2	17.2	18.0	18.6	19.2	19.6	19.7	19.4	19.3	18.8	18.3	18.2	17.9	24	19.7	10.8	15.8
6/17/08	18.2	17.5	16.5	16.5	16.5	16.2	16.3	16.6	17.6	19.2	20.1	20.7	21.4	22.1	22.8	23.4	23.5	23.3	23.0	22.2	21.5	21.5	21.5	20.0	24	23.5	16.2	19.9
6/18/08	18.7	18.8	17.2	17.0	16.1	17.1	16.7	17.8	19.0	20.2	21.2	21.8	22.6	23.1	23.2	23.0	23.3	23.3	23.1	22.6	22.2	21.9	19.7	14.4	24	23.3	14.4	20.2
6/19/08	15.2	15.8	16.6	17.5	16.0	17.3	15.9	16.3	18.0	19.2	20.1	20.9	21.7	22.3	23.1	23.4	23.7	23.9	22.5	22.5	22.7	22.4	21.8	20.0	24	23.9	15.2	20.0
6/20/08	17.8	17.6	19.6	17.3	16.5	18.1	17.2	17.7	19.5	20.9	22.0	22.2	22.2	22.7	23.4	23.4	23.2	23.2	22.9	22.7	22.5	22.1	21.6	21.6	24	23.4	16.5	20.7
6/21/08	21.5	21.2	20.4	19.1	19.5	19.2	16.5	18.5	20.0	21.3	21.8	22.1	22.5	22.1	22.3	23.0	23.4	23.6	23.3	22.7	21.2	20.1	20.6	18.8	24	23.6	16.5	21.0
6/22/08	18.2	19.1	19.3	18.7	18.8	18.9	18.4	19.0	20.2	21.1	21.7	22.2	22.5	22.8	23.3	23.5	23.7	23.8	23.6	22.9	22.5	22.3	22.0	20.7	24	23.8	18.2	21.2
6/23/08	20.0	19.6	18.4	17.5	16.9	16.4	15.6	14.6	15.6	16.4	17.4	17.9	19.1	20.0	20.6	21.9	22.6	22.3	21.9	20.9	19.7	19.1	18.3	17.8	24	22.6	14.6	18.8
6/24/08	18.0	18.1	18.4	17.6	18.0	18.3	17.5	17.8	20.0	21.8	23.3	24.4	25.9	27.2	27.8	28.3	28.5	28.1	27.5	26.2	24.7	19.6	19.2	21.4	24	28.5	17.5	22.4
6/25/08	21.8	20.6	20.5	18.6	18.2	17.6	17.8	18.0	19.2	20.8	21.8	22.9	23.7	24.0	24.5	25.0	25.1	25.0	24.9	24.9	24.3	24.1	24.1	23.7	24	25.1	17.6	22.1
6/26/08	22.3	21.2	19.6	18.8	18.2	17.4	18.1	17.9	19.3	20.4	21.0	19.8	20.2	22.3	23.7	24.8	25.7	25.8	25.2	24.2	23.1	19.8	20.0	17.2	24	25.8	17.2	21.1
6/27/08	16.8	16.5	18.1	18.2	18.4	17.0	16.8	17.5	16.9	17.7	19.6	21.7	22.0	22.2	21.9	21.4	21.6	21.4	20.7	19.8	19.0	18.5	18.4	16.4	24	22.2	16.4	19.1
6/28/08	15.5	15.2	14.1	13.1	12.4	12.4	13.2	13.8	14.5	15.5	16.7	17.7	18.8	19.4	19.0	20.4	20.5	20.7	20.6	19.1	18.2	17.4	17.2	16.7	24	20.7	12.4	16.8
6/29/08	16.6	15.5	14.9	14.4	14.1	13.1	13.4	14.8	16.5	18.2	19.3	20.4	21.0	21.7	22.3	22.7	23.0	23.1	23.1	22.6	22.2	21.7	21.4	21.0	24	23.1	13.1	19.0
6/30/08	20.4	20.2	20.2	19.9	19.9	18.9	18.9	19.5	20.6	21.7	22.5	23.0	23.5	24.3	25.0	25.4	25.7	25.8	25.3	24.5	23.4	22.3	21.4	21.2	24	25.8	18.9	22.2
																									0			

hr max	22.3	21.2	20.5	19.9	19.9	19.2	18.9	19.5	20.6	21.8	23.3	24.4	25.9	27.2	27.8	28.3	28.5	28.1	27.5	26.2	24.7	24.1	24.1	23.7
hr min	9.6	10.2	10.0	8.9	8.1	7.4	8.0	9.6	10.4	11.2	12.1	12.4	12.2	11.8	11.7	11.5	11.6	11.6	11.6	11.4	4.3	11.2	10.8	9.1
average	15.9	15.7	15.6	15.2	14.8	14.6	14.4	14.8	15.9	17.0	18.0	18.7	19.4	19.9	20.5	20.9	21.2	21.0	20.5	19.9	18.7	18.1	17.4	16.4

monthly max hr	monthly min hr	monthly ave hr
28.5	4.3	17.6
6/24/08	6/10/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

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channel
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hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	20.20	19.00	18.90	18.80	18.70	18.50	18.20	18.50	18.90	21.20	22.60	23.10	23.60	24.00	24.50	24.70	24.70	24.90	24.50	24.00	23.70	22.30	22.60	21.40	24	24.90	18.20	21.73
6/2/08	16.90	15.40	18.10	19.60	15.50	14.30	14.30	13.60	13.10	13.50	15.60	17.00	18.20	19.00	19.70	20.20	20.70	20.80	19.00	16.90	14.00	12.60	11.60	11.20	24	20.80	11.20	16.28
6/3/08	11.40	11.80	12.10	11.90	11.40	11.00	10.70	10.90	11.20	11.60	11.80	12.10	12.70	13.90	16.00	17.30	17.50	17.60	17.50	17.20	16.90	16.70	15.30	14.50	24	17.60	10.70	13.79
6/4/08	12.80	11.70	13.40	15.80	15.00	16.30	15.90	15.40	15.40	16.80	17.70	18.70	19.50	20.10	18.80	19.30	19.10	17.60	17.90	17.60	17.30	16.70	15.80	15.70	24	20.10	11.70	16.68
6/5/08	15.60	15.50	14.80	14.40	13.90	13.60	13.30	13.10	13.10	13.20	13.00	12.50	11.90	11.40	11.30	11.10	11.20	11.20	11.20	11.00	10.90	10.90	10.50	10.40	24	15.60	10.40	12.46
6/6/08	10.20	9.90	9.60	9.30	9.30	9.50	9.20	9.30	9.90	10.80	11.90	13.40	14.50	15.80	16.80	17.60	18.40	19.10	19.40	19.30	19.40	16.50	15.50	14.90	24	19.40	9.20	13.73
6/7/08	15.20	15.80	14.30	14.10	13.90	14.00	13.60	13.40	13.80	14.30	14.90	15.80	16.50	17.20	17.40	17.70	17.70	18.00	18.30	18.20	17.90	17.70	17.30	17.20	24	18.30	13.40	16.01
6/8/08	17.30	17.20	17.20	16.60	16.80	16.60	16.10	15.00	15.00	15.50	16.60	17.20	18.00	17.40	17.90	17.70	17.90	18.00	15.10	15.80	15.20	14.70	14.30	13.10	24	18.00	13.10	16.34
6/9/08	11.50	11.00	10.90	10.60	10.10	9.80	10.10	11.10	11.70	12.30	13.30	13.80	14.50	14.80	14.40	15.10	16.20	15.90	15.70	15.20	14.20	14.00	13.80	12.30	24	16.20	9.80	13.01
6/10/08	11.90	11.80	12.00	12.60	11.80	11.70	10.80	10.30	11.90	13.00	14.00	14.60	14.90	15.50							4.10	12.60	11.60	11.70	18	15.50	4.10	12.04
6/11/08	11.90	11.70	11.10	10.70	10.40	10.90	11.20	11.20	11.80	12.00	12.10	12.30	12.30	12.20	13.50	14.20	14.20	13.90	13.10	13.00	12.80	12.70	12.00	8.90	24	14.20	8.90	12.09
6/12/08	10.80	11.60	11.00	10.30	9.40	9.10	8.40	9.80	11.60	12.60	13.20	14.40	15.20	16.50	16.50	14.90	13.30	13.60	14.20	13.10	12.00	11.20	11.10	10.70	24	16.50	8.40	12.27
6/13/08	10.50	10.60	10.30	10.00	9.80	9.50	10.40	11.50	12.90	13.90	15.00	15.90	16.70	17.50	18.40	19.10	19.70	16.30	13.30	13.40	14.50	14.70	15.00	15.00	24	19.70	9.50	13.91
6/14/08	15.20	14.60	15.00	15.90	17.10	15.40	15.20	14.60	15.90	17.30	19.10	20.40	21.60	21.60	22.60	23.70	24.50	24.50	24.20	23.90	23.50	23.10	16.50	15.30	24	24.50	14.60	19.20
6/15/08	16.10	15.60	15.00	15.10	14.10	14.40	14.10	13.60	14.40	15.20	16.10	16.70	17.20	17.70	18.00	18.20	18.30	17.80	17.10	16.70	16.20	15.00	14.10	13.00	24	18.30	13.00	15.82
6/16/08	13.00	12.90	12.70	12.30	12.10	12.00	11.70	11.60	12.60	13.50	14.60	15.70	16.60	17.40	18.00	18.60	19.10	19.20	18.90	18.80	18.50	18.10	18.00	17.80	24	19.20	11.60	15.57
6/17/08	18.00	17.70	16.90	17.00	17.10	17.10	17.60	17.10	17.00	18.50	19.50	20.00	20.80	21.60	22.20	22.80	22.90	22.80	22.50	22.00	21.70	21.50	21.40	20.60	24	22.90	16.90	19.85
6/18/08	19.60	19.70	19.50	18.80	18.30	18.60	18.00	18.30	18.50	19.60	20.60	21.20	21.90	22.50	22.60	22.40	22.70	22.70	22.60	22.30	21.90	21.70	19.50	14.40	24	22.70	14.40	20.33
6/19/08	17.80	17.90	18.80	19.20	19.20	19.30	18.70	16.30	17.60	18.70	19.50	20.30	21.10	21.70	22.60	22.80	23.20	23.40	22.20	22.60	22.50	22.20	21.80	20.30	24	23.40	16.30	20.40
6/20/08	20.00	20.70	20.50	18.00	17.80	20.20	18.40	17.90	19.00	20.40	21.40	21.60	21.50	22.10	22.80	22.80	22.60	22.60	22.40	22.30	22.10	21.90	21.60	21.40	24	22.80	17.80	20.92
6/21/08	21.40	21.20	20.30	19.70	20.40	20.50	18.40	18.80	19.60	20.80	21.30	21.60	22.00	21.60	21.80	22.40	22.90	23.20	22.90	22.40	21.40	21.20	21.20	20.30	24	23.20	18.40	21.14
6/22/08	19.50	20.20	19.90	19.60	19.40	19.30	19.40	19.40	19.90	20.60	21.10	21.60	21.90	22.40	22.70	23.00	23.20	23.30	23.10	22.50	22.20	22.00	21.80	20.80	24	23.30	19.30	21.20
6/23/08	20.00	20.30	20.00	19.40	18.60	17.60	16.40	14.90	15.40	16.00	16.90	17.30	18.50	19.40	20.00	21.20	22.00	21.80	21.40	20.60	19.70	19.20	18.50	18.30	24	22.00	14.90	18.89
6/24/08	18.50	19.00	19.20	18.40	19.00	18.90	18.50	18.70	19.50	21.30	22.70	23.80	25.20	26.60	27.20	27.80	27.90	27.60	27.10	26.20	25.30	19.70	21.20	22.60	24	27.90	18.40	22.58
6/25/08	23.50	22.10	21.00	19.20	18.40	18.30	18.60	19.20	18.90	20.20	21.30	22.40	23.10	23.40	24.00	24.40	24.70	24.50	24.40	24.40	24.00	23.90	23.90	23.60	24	24.70	18.30	22.14
6/26/08	22.50	21.10	20.70	18.90	18.10	17.80	18.80	18.10	19.00	20.10	20.50	19.60	20.30	21.80	23.10	24.30	25.10	25.20	24.90	24.30	23.30	19.70	20.00	17.90	24	25.20	17.80	21.05
6/27/08	17.90	16.90	18.30	18.50	18.60	18.00	17.10	18.70	18.30	18.20	19.20	21.00	21.40	21.60	21.30	20.90	21.10	20.90	20.30	19.70	19.40	19.30	19.10	16.80	24	21.60	16.80	19.27
6/28/08	15.50	15.10	13.80	12.70	12.10	12.10	12.70	13.30	14.00	15.00	16.10	17.10	18.30	18.90	18.60	19.90	20.30	20.20	20.30	18.90	18.60	18.30	18.30	17.80	24	20.30	12.10	16.58
6/29/08	18.00	17.30	16.80	16.70	16.10	14.80	13.80	14.60	16.00	17.60	18.70	19.80	20.40	21.10	21.80	22.20	22.50	22.70	22.70	22.40	22.10	21.50	21.20	21.00	24	22.70	13.80	19.24
6/30/08	20.50	20.30	20.10	20.10	20.20	19.30	19.30	19.70	20.20	21.10	21.80	22.40	22.80	23.70	24.30	24.80	25.20	25.30	25.00	24.30	23.70	23.30	23.10	22.10	24	25.30	19.30	22.19
																									0			

hr max	23.50	22.10	21.00	20.10	20.40	20.50	19.40	19.70	20.20	21.30	22.70	23.80	25.20	26.60	27.20	27.80	27.90	27.60	27.10	26.20	25.30	23.90	23.90	23.60
hr min	10.20	9.90	9.60	9.30	9.30	9.10	8.40	9.30	9.90	10.80	11.80	12.10	11.90	11.40	11.30	11.10	11.20	11.20	11.20	11.00	4.10	10.90	10.50	8.90
average	16.44	16.19	16.07	15.81	15.42	15.28	14.96	14.93	15.54	16.49	17.40	18.11	18.77	19.35	19.96	20.38	20.65	20.50	20.04	19.62	18.63	18.16	17.59	16.70

monthly max hr	monthly min hr	monthly ave hr
27.90	4.10	17.60
6/24/08	6/10/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	4.44	5.29	3.29	3.75	3.85	4.86	0.73	-0.14	-0.73	-0.90	-0.67	-0.87	-0.82	-0.69	-0.67	-0.17	-0.17	0.05	0.38	1.21	2.67	2.45	1.84	1.56	24	5.29	-0.90	1.27
6/2/08	-0.01	-0.04	0.63	1.02	0.44	0.53	0.33	0.02	-0.07	-0.56	-0.78	-1.01	-0.78	-0.59	-0.47	-0.30	-0.31	0.24	0.26	0.20	0.21	0.18	0.08	0.11	24	1.02	-1.01	-0.03
6/3/08	0.01	-0.04	-0.04	-0.05	-0.05	-0.07	-0.19	-0.30	-0.42	-0.47	-0.43	-0.45	-0.41	-0.13	-0.50	-0.51	-0.31	-0.10	0.26	0.38	1.02	0.75	0.64	0.31	24	1.02	-0.51	-0.05
6/4/08	0.12	0.01	0.17	0.87	0.60	0.53	-0.01	-0.10	-0.42	-0.61	-0.79	-0.88	-0.74	-0.29	-0.15	-0.11	0.20	0.03	0.17	0.29	0.65	0.98	0.38	0.09	24	0.98	-0.88	0.04
6/5/08	0.11	-0.01	-0.02	-0.02	-0.01	-0.02	-0.03	-0.04	-0.06	-0.10	-0.06	-0.11	-0.09	-0.04	0.00	-0.01	-0.02	-0.01	0.00	0.01	0.03	0.06	0.01	-0.12	24	0.11	-0.12	-0.02
6/6/08	-0.11	-0.09	-0.11	-0.09	0.04	0.05	-0.04	-0.07	-0.17	-0.14	-0.51	-0.62	-0.55	-0.60	-0.45	-0.47	-0.36	-0.15	0.11	0.98	1.83	0.67	0.86	0.66	24	1.83	-0.62	0.03
6/7/08	0.51	0.52	0.44	0.38	0.35	0.34	0.13	-0.18	-0.37	-0.35	-0.73	-0.78	-0.99	-0.89	-0.59	-0.37	-0.14	-0.05	0.07	0.58	1.96	2.87	2.74	2.26	24	2.87	-0.99	0.32
6/8/08	2.65	1.59	2.87	1.04	1.99	1.46	0.39	0.14	-0.06	-0.37	-0.82	-1.22	-1.17	-0.93	-0.90	-0.90	-0.62	-0.40	-0.05	0.20	0.42	0.65	1.02	0.54	24	2.87	-1.22	0.31
6/9/08	0.17	0.20	0.17	0.27	0.26	0.20	-0.05	-0.34	-0.31	-0.44	-0.64	-1.00	-0.77	-0.46	-0.84	-0.70	-0.75	-0.51	-0.07	0.56	1.18	1.31	2.80	1.94	24	2.80	-1.00	0.09
6/10/08	2.06	2.90	2.46	1.78	1.82	1.16	-0.21	-0.57	-0.78	-0.85	-0.63	-0.45	-0.58	-0.66							-9.74	0.10	0.02	0.04	18	2.90	-9.74	-0.12
6/11/08	0.04	0.09	0.07	-0.03	0.00	-0.03	-0.03	-0.05	-0.09	-0.08	-0.14	-0.31	-0.39	-0.54	-0.51	-0.17	-0.56	-0.12	-0.07	-0.08	0.47	0.70	0.80	0.29	24	0.80	-0.56	-0.03
6/12/08	1.21	0.98	0.57	0.46	0.37	0.14	-0.23	-0.37	-0.61	-0.91	-1.04	-1.17	-1.08	-0.93	-0.90	-0.36	0.04	0.19	0.20	0.43	0.50	0.49	0.40	0.44	24	1.21	-1.17	-0.05
6/13/08	0.49	0.40	0.29	0.30	0.30	0.29	0.05	-0.13	-0.41	-0.55	-0.66	-0.74	-0.58	-0.79	-0.73	-0.66	-0.33	-0.04		0.20	0.85	2.14	2.85	1.12	23	2.85	-0.79	0.16
6/14/08	1.48	0.59	0.77	0.97	1.19	0.79	-0.12	-0.35	-0.58	-0.81	-0.90	-0.98	-0.68	-0.27	0.14	-0.25	-0.29	0.16	0.45	0.64	1.69	1.78	1.36	1.66	24	1.78	-0.98	0.35
6/15/08	1.30	2.24	2.38	2.51	0.85	0.54	-0.09	-0.50	-0.81	-0.99	-1.06	-1.06	-1.13	-1.01	-0.99	-0.82	-0.53	-0.25	0.18	1.00	1.81	1.75	1.36	1.17	24	2.51	-1.13	0.33
6/16/08	1.60	2.42	2.81	1.62	1.77	1.43	-0.34	-0.29	-0.57	-0.74	-0.74	-1.01	-1.16	-1.10	-0.75	-0.80	-0.58	-0.19	0.63	1.09	1.65	1.82	1.92	2.75	24	2.81	-1.16	0.55
6/17/08	3.07	2.17	2.81	3.42	2.50	0.98	0.19	-0.19	-0.58	-0.67	-0.83	-0.96	-0.99	-0.88	-0.74	-0.53	-0.20	0.66	0.97	1.29	2.34	2.23	2.54	2.13	24	3.42	-0.99	0.86
6/18/08	1.76	2.32	1.39	1.60	1.18	1.09	0.28	0.00	-0.14	-0.41	-0.43	-0.37	-0.90	-0.47	0.27	0.35	-0.14	-0.05	0.32	0.94	1.94	1.68	0.73	0.38	24	2.32	-0.90	0.56
6/19/08	0.43	0.59	0.77	0.81	0.52	0.37	-0.04	-0.28	-0.57	-0.85	-0.96	-0.91	-0.91	-0.67	-0.74	-0.57	-0.04	-0.01	0.01	0.97	2.13	2.69	2.15	1.75	24	2.69	-0.96	0.28
6/20/08	1.60	1.90	2.13	1.56	1.33	1.15	0.39	-0.20	-0.58	-0.72	-0.75	-0.86	-0.94	-0.88	-0.51	-0.42	-0.11	0.09	0.51	1.23	1.87	3.54	3.49	4.65	24	4.65	-0.94	0.81
6/21/08	4.83	4.44	4.14	3.16	2.65	2.38	-0.20	-0.29	-0.46	-0.59	-0.63	-0.50	-0.75	0.19	-0.57	-0.45	-0.25	0.57	1.03	1.51	2.02	1.56	1.49	2.28	24	4.83	-0.75	1.15
6/22/08	2.03	2.53	3.48	2.90	2.67	2.96	-0.02	-0.26	-0.34	-0.49	-0.57	-0.72	-0.73	-0.61	-0.49	-0.32	0.06	0.53	0.96	1.98	2.28	1.59	1.69	1.86	24	3.48	-0.73	0.96
6/23/08	0.93	0.93	0.78	0.56	0.76	0.61	0.39	0.19	-0.10	-0.32	-0.37	-0.76	-0.93	-0.69	-0.57	-0.47	-0.32	-0.15	0.13	0.40	0.41	0.34	0.50	0.33	24	0.93	-0.93	0.11
6/24/08	0.76	0.99	1.20	1.13	0.96	0.98	0.09	-0.38	-0.64	-0.66	-0.74	-0.77	-0.79	-0.63	-0.54	-0.37	-0.05	0.11	0.35	0.53	0.46	0.23	0.41	0.71	24	1.20	-0.79	0.14
6/25/08	1.43	0.84	0.70	0.96	0.71	0.54	0.34	-0.05	-0.36	-0.66	-0.65	-0.58	-0.47	-0.63	-0.40	-0.34	0.04	0.25	1.02	1.77	3.47	2.71	3.09	1.68	24	3.47	-0.66	0.64
6/26/08	1.00	1.54	0.59	0.68	1.68	0.32	0.10	0.15	-0.41	-0.30	0.01	-0.02	-0.59	-0.90	-0.77	-0.56	-0.20	0.05	0.53	1.17	0.64	0.58	0.65	0.63	24	1.68	-0.90	0.27
6/27/08	0.67	0.36	1.32	1.84	0.73	0.28	0.23	0.39	0.16	-0.15	-0.52	-0.70	-0.59	-0.50	-0.37	-0.31	-0.10	0.17	0.41	0.96	1.55	1.41	0.82	0.65	24	1.84	-0.70	0.36
6/28/08	0.58	0.45	0.34	0.30	0.26	0.22	0.04	-0.15	-0.22	-0.39	-0.59	-0.74	-0.12	-0.10	-0.17	-0.24	0.15	0.12	0.47	0.47	0.75	1.04	0.96	0.74	24	1.04	-0.74	0.17
6/29/08	0.77	0.81	0.76	0.71	0.73	0.39	-0.11	-0.49	-0.68	-0.70	-0.73	-0.71	-0.57	-0.60	-0.30	-0.32	0.10	0.35	0.60	1.64	1.84	3.60	3.59	4.72	24	4.72	-0.73	0.64
6/30/08	5.45	5.73	5.58	5.96	4.41	3.26	0.32	-0.46	-0.62	-0.75	-0.93	-0.88	-0.99	-0.80	-0.60	-0.37	-0.07	0.19	0.53	0.97	1.52	1.10	0.90	0.99	24	5.96	-0.99	1.27
																									0			
hr max	5.45	5.73	5.58	5.96	4.41	4.86	0.73	0.39	0.16	-0.08	0.01	-0.02	-0.09	0.19	0.27	0.35	0.20	0.66	1.03	1.98	3.47	3.60	3.59	4.72				
hr min	-0.11	-0.09	-0.11	-0.09	-0.05	-0.07	-0.34	-0.57	-0.81	-0.99	-1.06	-1.22	-1.17	-1.10	-0.99	-0.90	-0.75	-0.51	-0.07	-0.08	-9.74	0.06	0.01	-0.12				
average	1.38	1.42	1.42	1.35	1.16	0.92	0.08	-0.18	-0.40	-0.55	-0.64	-0.74	-0.74	-0.60	-0.51	-0.40	-0.20	0.06	0.37	0.81	1.01	1.43	1.40	1.28				

monthly	monthly	monthly
max hr	min hr	ave hr
5.96	-9.74	0.38
6/30/08	6/10/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	713
possible hours	720
data capture	99.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
6/1/08	1.49	1.27	1.29	3.34	3.41	2.53	2.04	-0.28	-0.54	-0.54	-0.66	-0.64	-0.71	-0.65	-0.63	-0.52	-0.52	-0.47	-0.38	0.08	0.47	0.17	1.87	1.46	24	3.41	-0.71	0.54
6/2/08	0.01	0.34	2.00	2.58	0.58	0.31	0.78	0.18	-0.40	-0.60	-0.62	-0.71	-0.65	-0.63	-0.55	-0.48	-0.55	-0.32	-0.17	-0.17	-0.09	-0.12	-0.22	-0.22	24	2.58	-0.71	0.01
6/3/08	-0.28	-0.30	-0.24	-0.25	-0.26	-0.27	-0.31	-0.36	-0.43	-0.43	-0.42	-0.41	-0.62	-1.35	-1.66	-0.88	-0.50	-0.38	-0.26	-0.05	0.68	1.46	1.05	0.46	24	1.46	-1.66	-0.25
6/4/08	-0.05	0.02	0.78	1.10	1.71	2.20	1.77	0.00	-0.53	-0.64	-0.61	-0.60	-0.63	-0.57	-0.20	-0.37	-0.17	-0.19	-0.17	0.12	0.75	1.13	0.46	-0.13	24	2.20	-0.64	0.22
6/5/08	-0.09	-0.19	-0.27	-0.29	-0.31	-0.30	-0.32	-0.31	-0.34	-0.40	-0.38	-0.41	-0.40	-0.37	-0.31	-0.29	-0.31	-0.28	-0.27	-0.28	-0.28	-0.26	-0.27	-0.23	24	-0.09	-0.41	-0.30
6/6/08	-0.26	-0.32	-0.32	-0.30	-0.42	-0.44	-0.44	-0.42	-0.46	-0.44	-0.41	-0.34	-0.36	-0.53	-0.59	-0.56	-0.61	-0.48	-0.22	1.54	2.34	0.76	0.76	0.64	24	2.34	-0.61	-0.08
6/7/08	1.21	1.84	0.89	0.70	0.70	0.95	0.44	-0.38	-0.55	-0.51	-0.54	-0.57	-0.64	-0.68	-0.60	-0.55	-0.48	-0.48	-0.44	-0.28	0.63	0.94	1.36	1.80	24	1.84	-0.68	0.20
6/8/08	1.96	3.29	1.00	2.35	2.74	2.51	1.73	-0.23	-0.41	-0.61	-0.69	-0.76	-0.68	-0.69	-0.84	-0.97	-0.94	-0.67	-0.55	-0.25	0.51	1.22	2.62	1.99	24	3.29	-0.97	0.57
6/9/08	0.69	0.11	-0.06	0.00	-0.02	-0.13	-0.38	-0.56	-0.39	-0.57	-0.72	-0.82	-0.88	-0.76	-0.92	-0.82	-0.96	-0.80	-0.65	-0.31	0.66	1.29	1.47	0.87	24	1.47	-0.96	-0.19
6/10/08	1.42	0.67	1.33	2.35	2.92	2.68	1.04	-0.56	-0.69	-0.77	-0.72	-0.67	-0.69	-0.74							-0.17	-0.26	-0.32	-0.28	18	2.92	-0.77	0.36
6/11/08	-0.32	-0.26	-0.14	-0.24	-0.28	-0.26	-0.29	-0.27	-0.28	-0.34	-0.35	-0.43	-0.53	-0.64	-0.55	-0.36	-0.60	-0.48	-0.41	-0.38	0.74	1.47	0.81	-0.16	24	1.47	-0.64	-0.19
6/12/08	1.09	3.67	3.44	2.82	1.99	0.89	-0.19	-0.44	-0.57	-0.66	-0.70	-0.63	-0.70	-0.72	-0.69	-0.50	-0.19	-0.13	-0.28	-0.08	0.14	0.17	0.00	0.09	24	3.67	-0.72	0.33
6/13/08	0.07	0.08	0.07	0.02	0.01	0.06	-0.22	-0.23	-0.42	-0.48	-0.50	-0.59	-0.59	-0.79	-0.63	-0.87	-0.76	-0.20	-0.17	0.02	0.60	0.57	0.98	1.58	24	1.58	-0.87	-0.10
6/14/08	2.26	2.94	3.61	3.09	3.63	3.32	1.88	-0.37	-0.46	-0.48	-0.54	-0.55	-0.62	-0.50	-0.42	-0.57	-0.84	-0.67	-0.44	0.49	2.41	4.35	1.03	0.99	24	4.35	-0.84	0.98
6/15/08	1.33	1.49	1.09	1.71	3.66	3.56	0.73	-0.52	-0.71	-0.86	-1.00	-0.99	-0.99	-0.96	-0.94	-0.98	-0.92	-0.63	-0.46	-0.01	1.22	2.08	1.43	0.92	24	3.66	-1.00	0.39
6/16/08	1.13	1.88	2.45	3.09	3.12	3.52	1.38	-0.36	-0.55	-0.65	-0.58	-0.62	-0.60	-0.67	-0.67	-0.63	-0.59	-0.50	-0.36	-0.34	0.35	1.14	2.39	2.64	24	3.52	-0.67	0.67
6/17/08	2.97	3.56	3.25	2.65	3.60	3.16	1.76	-0.43	-0.70	-0.85	-0.83	-0.77	-0.80	-0.85	-0.61	-0.70	-0.47	-0.07	0.11	0.30	1.89	3.42	3.91	3.61	24	3.91	-0.85	1.13
6/18/08	3.55	3.99	2.29	2.82	2.49	2.65	0.48	-0.39	-0.66	-0.78	-0.78	-0.85	-0.86	-0.74	-0.55	-0.52	-0.56	-0.65	-0.53	0.30	1.80	3.01	1.68	0.13	24	3.99	-0.86	0.72
6/19/08	0.66	0.79	1.76	3.22	2.47	3.69	1.17	-0.41	-0.54	-0.62	-0.68	-0.67	-0.62	-0.64	-0.62	-0.51	-0.42	-0.32	-0.28	0.63	1.82	1.96	2.70	1.93	24	3.69	-0.68	0.69
6/20/08	1.52	1.48	2.83	1.77	1.07	2.15	1.48	0.31	-0.48	-0.49	-0.72	-0.70	-0.77	-0.72	-0.57	-0.63	-0.65	-0.60	-0.45	0.18	0.65	1.15	2.04	1.21	24	2.83	-0.77	0.46
6/21/08	1.37	2.25	1.08	1.91	3.66	4.84	1.85	0.20	-0.43	-0.51	-0.55	-0.53	-0.60	-0.21	-0.54	-0.55	-0.49	-0.14	0.16	0.40	1.58	2.22	2.63	1.40	24	4.84	-0.60	0.88
6/22/08	1.67	2.96	2.80	2.06	3.22	3.63	3.29	0.76	-0.39	-0.53	-0.55	-0.56	-0.58	-0.58	-0.49	-0.54	-0.39	-0.25	-0.04	0.44	2.63	3.61	4.50	4.15	24	4.50	-0.58	1.28
6/23/08	3.33	2.61	1.44	1.60	1.20	2.07	1.42	0.03	-0.42	-0.65	-0.81	-0.82	-0.88	-0.94	-0.81	-0.92	-0.87	-0.86	-0.62	0.03	1.21	1.14	1.52	0.86	24	3.33	-0.94	0.41
6/24/08	1.78	2.04	2.65	2.55	2.98	3.16	1.04	-0.41	-0.48	-0.55	-0.54	-0.55	-0.82	-1.05	-0.91	-0.90	-0.94	-0.75	-0.35	0.50	0.61	0.41	2.05	3.38	24	3.38	-1.05	0.62
6/25/08	2.44	1.37	2.26	0.69	0.69	0.50	0.84	0.07	-0.48	-0.60	-0.63	-0.64	-0.67	-0.63	-0.57	-0.50	-0.34	-0.25	0.01	-0.02	1.09	3.44	2.99	3.56	24	3.56	-0.67	0.61
6/26/08	2.44	1.84	1.06	0.54	0.34	1.15	0.72	0.07	-0.54	-0.67	-0.55	-0.39	-0.63	-0.90	-0.79	-0.75	-0.74	-0.68	-0.03	1.02	0.84	0.32	0.40	0.85	24	2.44	-0.90	0.21
6/27/08	1.37	0.74	1.45	1.66	2.92	0.63	-0.01	0.49	0.53	-0.18	-0.51	-0.61	-0.69	-0.71	-0.65	-0.66	-0.56	-0.42	-0.25	0.44	1.95	3.70	3.26	0.87	24	3.70	-0.71	0.62
6/28/08	0.86	0.10	-0.07	-0.16	-0.14	-0.16	-0.32	-0.48	-0.51	-0.62	-0.80	-0.90	-0.54	-0.49	-0.49	-0.51	-0.24	-0.37	-0.01	0.02	0.67	1.43	1.82	1.85	24	1.85	-0.90	0.00
6/29/08	1.74	1.32	1.37	1.54	1.97	0.97	-0.11	-0.52	-0.64	-0.67	-0.69	-0.67	-0.58	-0.63	-0.50	-0.46	-0.28	-0.22	-0.15	0.52	1.14	1.03	1.21	1.31	24	1.97	-0.69	0.33
6/30/08	1.35	1.36	1.72	1.52	2.96	2.81	2.97	0.65	-0.43	-0.55	-0.66	-0.68	-0.74	-0.84	-0.80	-0.85	-0.81	-0.70	-0.26	1.09	2.61	2.72	2.50	2.84	24	2.97	-0.85	0.82
																									0			
hr max	3.55	3.99	3.61	3.34	3.66	4.84	3.29	0.76	0.53	-0.18	-0.35	-0.34	-0.36	-0.21	-0.20	-0.29	-0.17	-0.07	0.16	1.54	2.63	4.35	4.50	4.15				
hr min	-0.32	-0.32	-0.32	-0.30	-0.42	-0.44	-0.44	-0.56	-0.71	-0.86	-1.00	-0.99	-0.99	-1.35	-1.66	-0.98	-0.96	-0.86	-0.65	-0.38	-0.28	-0.26	-0.32	-0.28				
average	1.29	1.43	1.43	1.55	1.75	1.75	0.87	-0.17	-0.46	-0.58	-0.62	-0.64	-0.67	-0.71	-0.66	-0.63	-0.58	-0.45	-0.27	0.21	1.05	1.52	1.62	1.35				

monthly max hr	monthly min hr	monthly ave hr
4.84	-1.66	0.40
6/21/08	6/3/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
6/1/08	0.02	0.01	0.33	0.05	0.11	0.07	0.13	0.27	-0.52	-0.60	-0.63	-0.66	-0.64	-0.65	-0.67	-0.57	-0.57	-0.59	-0.55	-0.26	-0.20	-0.32	0.57	0.54	24	0.57	-0.67	-0.22
6/2/08	0.38	1.10	1.01	1.16	0.91	-0.08	-0.10	-0.27	-0.49	-0.50	-0.53	-0.53	-0.53	-0.56	-0.52	-0.52	-0.50	-0.52	-0.46	-0.42	-0.26	-0.28	-0.28	-0.22	24	1.16	-0.56	-0.13
6/3/08	-0.28	-0.26	-0.23	-0.25	-0.28	-0.30	-0.32	-0.31	-0.32	-0.32	-0.30	-0.31	-0.37	-0.21	0.47	-0.31	-0.49	-0.48	-0.45	-0.38	-0.17	0.31	0.69	0.36	24	0.69	-0.49	-0.19
6/4/08	0.31	0.44	0.55	2.12	1.36	2.04	1.44	0.95	-0.34	-0.55	-0.57	-0.59	-0.59	-0.55	-0.18	-0.38	-0.32	-0.29	-0.21	-0.02	0.45	0.44	0.21	-0.12	24	2.12	-0.59	0.23
6/5/08	-0.07	-0.23	-0.29	-0.29	-0.34	-0.34	-0.35	-0.39	-0.38	-0.38	-0.51	-0.47	-0.35	-0.34	-0.41	-0.38	-0.41	-0.38	-0.36	-0.40	-0.42	-0.37	-0.34	-0.26	24	-0.07	-0.51	-0.35
6/6/08	-0.29	-0.32	-0.36	-0.40	-0.37	-0.29	-0.30	-0.35	-0.46	-0.47	-0.69	-0.86	-0.80	-0.74	-0.59	-0.58	-0.56	-0.55	-0.43	-0.21	-0.20	-0.03	0.72	0.48	24	0.72	-0.86	-0.36
6/7/08	0.82	1.06	0.39	0.44	0.66	0.54	0.41	-0.14	-0.49	-0.52	-0.52	-0.53	-0.55	-0.55	-0.53	-0.54	-0.52	-0.52	-0.51	-0.48	-0.36	-0.30	-0.12	0.03	24	1.06	-0.55	-0.12
6/8/08	-0.07	0.01	-0.09	0.59	0.08	0.12	0.05	-0.01	-0.34	-0.51	-0.58	-0.59	-0.58	-0.53	-0.63	-0.65	-0.60	-0.72	-0.54	-0.25	0.27	0.59	0.24	-0.04	24	0.59	-0.72	-0.20
6/9/08	0.14	0.09	-0.15	-0.15	-0.20	-0.23	-0.43	-0.61	-0.78	-0.68	-0.75	-0.79	-0.69	-0.58	-0.60	-0.58	-0.64	-0.62	-0.60	-0.40	-0.25	0.15	-0.23	-0.23	24	0.15	-0.79	-0.41
6/10/08	0.03	0.06	0.43	0.67	0.36	0.19	0.27	-0.30	-0.49	-0.52	-0.52	-0.55	-0.55	-0.62							-0.21	-0.43	-0.44	-0.38	18	0.67	-0.62	-0.17
6/11/08	-0.44	-0.39	-0.26	-0.28	-0.35	-0.30	-0.34	-0.27	-0.26	-0.28	-0.27	-0.35	-0.45	-0.52	-0.60	-0.68	-0.60	-0.52	-0.47	-0.41	-0.36	-0.18	0.11	-0.19	24	0.11	-0.68	-0.36
6/12/08	1.17	0.60	0.82	1.34	1.27	1.65	0.37	-0.38	-0.55	-0.54	-0.55	-0.57	-0.54	-0.56	-0.68	-0.61	-0.12	-0.22	-0.34	-0.29	-0.14	-0.11	-0.26	-0.15	24	1.65	-0.68	0.03
6/13/08	-0.18	-0.26	-0.23	-0.22	-0.14	-0.03	-0.44	-0.80	-0.83	-0.86	-0.94	-0.80	-0.85	-0.77	-0.93	-0.66	-0.50	0.41	-0.04	-0.06	0.33	-0.05	0.05	-0.03	24	0.41	-0.94	-0.37
6/14/08	0.22	0.66	0.84	2.11	2.70	2.02	1.51	-0.01	-0.50	-0.50	-0.54	-0.56	-0.58	-0.54	-0.50	-0.51	-0.56	-0.62	-0.44	-0.02	0.34	0.40	0.35	0.86	24	2.70	-0.62	0.26
6/15/08	1.41	0.25	0.36	0.31	0.37	0.52	0.46	-0.27	-0.54	-0.61	-0.64	-0.67	-0.66	-0.65	-0.64	-0.62	-0.62	-0.57	-0.53	-0.34	-0.16	0.14	0.74	0.78	24	1.41	-0.67	-0.09
6/16/08	0.76	0.41	-0.01	0.12	0.19	0.32	0.82	-0.08	-0.49	-0.53	-0.54	-0.56	-0.58	-0.54	-0.59	-0.55	-0.56	-0.57	-0.54	-0.49	-0.31	-0.21	-0.18	-0.05	24	0.82	-0.59	-0.20
6/17/08	-0.14	0.14	0.40	0.47	0.54	0.98	1.27	0.53	-0.53	-0.62	-0.67	-0.69	-0.65	-0.55	-0.64	-0.60	-0.53	-0.50	-0.49	-0.12	0.26	0.02	-0.12	0.59	24	1.27	-0.69	-0.07
6/18/08	0.89	0.92	2.24	1.82	2.19	1.56	1.35	0.53	-0.50	-0.62	-0.62	-0.67	-0.65	-0.59	-0.57	-0.55	-0.57	-0.64	-0.57	-0.36	-0.31	-0.20	-0.17	0.01	24	2.24	-0.67	0.16
6/19/08	2.69	2.05	2.18	1.76	3.12	1.97	2.79	0.05	-0.49	-0.53	-0.53	-0.53	-0.55	-0.55	-0.51	-0.51	-0.51	-0.47	-0.25	0.09	-0.17	-0.13	0.06	0.28	24	3.12	-0.55	0.47
6/20/08	2.20	3.10	0.89	0.69	1.28	2.09	1.18	0.20	-0.49	-0.55	-0.59	-0.61	-0.64	-0.59	-0.59	-0.61	-0.58	-0.62	-0.52	-0.43	-0.37	-0.23	-0.07	-0.15	24	3.10	-0.64	0.17
6/21/08	-0.03	0.04	-0.01	0.65	0.90	1.24	1.92	0.25	-0.45	-0.51	-0.51	-0.49	-0.52	-0.46	-0.54	-0.53	-0.52	-0.47	-0.41	-0.36	0.17	1.17	0.55	1.46	24	1.92	-0.54	0.11
6/22/08	1.25	1.08	0.60	0.89	0.57	0.40	1.00	0.41	-0.31	-0.51	-0.51	-0.53	-0.52	-0.49	-0.58	-0.51	-0.53	-0.51	-0.52	-0.32	-0.32	-0.25	-0.18	0.16	24	1.25	-0.58	-0.01
6/23/08	0.02	0.66	1.58	1.91	1.78	1.17	0.84	0.30	-0.17	-0.44	-0.53	-0.60	-0.60	-0.57	-0.63	-0.62	-0.59	-0.57	-0.47	-0.29	-0.01	0.15	0.25	0.49	24	1.91	-0.63	0.13
6/24/08	0.42	0.94	0.82	0.80	1.01	0.57	1.06	0.97	-0.55	-0.57	-0.59	-0.62	-0.69	-0.60	-0.65	-0.59	-0.55	-0.50	-0.40	0.02	0.60	0.13	2.04	1.28	24	2.04	-0.69	0.18
6/25/08	1.62	1.56	0.49	0.60	0.19	0.73	0.86	1.16	-0.32	-0.52	-0.52	-0.56	-0.57	-0.58	-0.55	-0.53	-0.49	-0.47	-0.47	-0.46	-0.29	-0.20	-0.21	-0.08	24	1.62	-0.58	0.02
6/26/08	0.13	-0.08	1.07	0.16	-0.09	0.36	0.75	0.17	-0.30	-0.22	-0.47	-0.27	0.20	-0.53	-0.60	-0.59	-0.54	-0.54	-0.36	0.09	0.20	-0.10	0.02	0.78	24	1.07	-0.60	-0.03
6/27/08	1.06	0.37	0.20	0.28	0.26	0.98	0.28	1.16	1.46	0.50	-0.39	-0.70	-0.58	-0.58	-0.59	-0.55	-0.53	-0.48	-0.38	-0.11	0.42	0.79	0.71	0.34	24	1.46	-0.70	0.16
6/28/08	0.03	-0.14	-0.30	-0.34	-0.28	-0.30	-0.44	-0.52	-0.53	-0.56	-0.59	-0.62	-0.51	-0.50	-0.46	-0.44	-0.29	-0.46	-0.29	-0.19	0.45	0.89	1.04	1.12	24	1.12	-0.62	-0.18
6/29/08	1.36	1.83	1.86	2.26	2.09	1.70	0.42	-0.22	-0.51	-0.55	-0.56	-0.57	-0.57	-0.57	-0.52	-0.51	-0.49	-0.45	-0.41	-0.27	-0.14	-0.14	-0.22	0.00	24	2.26	-0.57	0.20
6/30/08	0.07	0.12	-0.02	0.22	0.31	0.44	0.48	0.24	-0.46	-0.58	-0.65	-0.61	-0.62	-0.62	-0.66	-0.56	-0.53	-0.50	-0.35	-0.15	0.30	1.02	1.65	0.87	24	1.65	-0.66	-0.02
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	2.69	3.10	2.24	2.26	3.12	2.09	2.79	1.16	1.46	0.50	-0.27	-0.27	0.20	-0.21	0.47	-0.31	-0.12	0.41	-0.04	0.09	0.60	1.17	2.04	1.46	3.12	-0.94	-0.04
hr min	-0.44	-0.39	-0.36	-0.40	-0.37	-0.34	-0.44	-0.80	-0.83	-0.86	-0.94	-0.86	-0.85	-0.77	-0.93	-0.68	-0.64	-0.72	-0.60	-0.49	-0.42	-0.43	-0.44	-0.38	6/19/08	6/13/08	
average	0.52	0.53	0.50	0.65	0.67	0.66	0.56	0.08	-0.40	-0.49	-0.56	-0.58	-0.56	-0.56	-0.54	-0.55	-0.51	-0.48	-0.43	-0.25	-0.03	0.09	0.24	0.28			

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	714
possible hours	720
data capture	99.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	2.8	4.2	2.4	3.6	2.9	3.9	3.6	2.7	2.6	1.9	1.4	1.2	1.0	1.0	1.2	1.2	1.2	1.1	1.4	2.0	3.7	3.2	4.6		23	4.6	1.0	2.4
6/2/08	3.2	2.4	2.1	2.1	2.8	4.3	5.0	5.5	4.3	3.9	3.2	2.3	1.7	1.8	1.7	1.5	1.4	1.5	2.2	2.7	3.2	3.0	2.7		23	5.5	1.4	2.8
6/3/08	2.6	2.5	2.3	2.4	2.5	2.7	2.7	2.5	2.3	2.2	2.2	2.3	2.2	2.1	1.7	1.7	1.6	1.7	2.0	2.6	3.7	3.7	3.8		23	3.8	1.6	2.4
6/4/08	2.3			1.6	1.9	2.2	2.0	1.8	1.7	1.4	1.4	1.2	1.2	1.2	1.6	1.8	1.8	2.0	2.3	2.7	3.8	4.3	4.4		21	4.4	1.2	2.1
6/5/08	1.5	2.4	3.2	2.8	2.8	2.8	3.0	2.8	2.8	2.8	2.7	2.2	2.1	2.0	1.9	2.0	2.0	2.1	2.2	2.2	2.0	1.8	1.7		23	3.2	1.5	2.3
6/6/08	1.7	1.7	1.6	1.3	1.2	1.1	0.9	1.6	1.2	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.8	1.1	1.4	1.3	1.2		23	1.7	0.7	1.1
6/7/08	1.2	1.2	1.1	0.9	1.1	1.1	1.1	0.9	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.9	2.4	2.7	2.3		23	2.7	0.7	1.1
6/8/08	2.0	2.9	2.3	2.2	2.7	2.0	1.8	1.3	1.2	0.9	0.9	0.8	0.8	1.0	0.9	0.8	0.8	0.8	0.8	0.9	1.3	1.5	1.9		23	2.9	0.8	1.4
6/9/08	1.5	0.9	1.1	0.9	1.1	1.1	1.1	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8	1.3	2.3	3.5	4.0		23	4.0	0.8	1.3
6/10/08	3.0	2.7	2.6	2.2	2.4	2.5	2.9	2.8	1.3	0.8					0.7	0.9	1.1	1.2	1.3	1.5	1.9	1.9	1.9		19	3.0	0.7	1.9
6/11/08	1.4			1.3	1.5	2.1	2.3	3.2					1.8	1.4	0.9	0.7	0.7	0.7	0.8	1.0	1.4	1.6	1.6		17	3.2	0.7	1.4
6/12/08	0.9	1.1	1.1	1.2	1.2	1.2	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.1	1.0	0.8	0.7	0.7	0.6	0.7		23	1.2	0.6	0.9
6/13/08	0.4	0.3	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.1	1.1	0.9	0.9	1.0	1.4	1.2	0.8	1.4	1.8	1.9		23	1.9	0.3	0.9
6/14/08	1.6	1.8	1.8	1.7	1.5	1.5	1.6	1.2	1.2	1.1	1.0	0.8	0.9	0.8	1.1	0.9	0.7	0.8	1.1	1.5	2.3	2.6	1.8		23	2.6	0.7	1.4
6/15/08	1.9	1.8	2.0	2.5	2.7	2.8	2.0	1.2	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.5	2.4	3.0	3.3		23	3.3	0.7	1.6
6/16/08	2.9	2.4	1.9	2.2	2.5	2.4	2.1	1.1	0.6	0.6	0.7	0.7	0.7	0.7	0.9	1.0	0.8	0.8	0.7	0.8	4.3	3.0	2.8		23	4.3	0.6	1.6
6/17/08	2.5	1.9	4.0	3.7	2.7	1.3	1.2	1.1	1.0	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.9	1.3	2.6	2.4	2.5		23	4.0	0.7	1.6
6/18/08	2.3			2.4	3.4	2.6	2.3	1.9	1.2	1.0	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.4	2.8	2.7	2.7		21	3.4	0.7	1.6
6/19/08	1.5	1.4	1.3	1.6	1.5	1.8	1.8	2.0	1.6	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	2.3	3.9	4.3	5.8		23	5.8	1.1	1.8
6/20/08	2.6	3.3	3.1	2.1	3.3	3.7	2.8	2.0	1.3	1.1	1.2	1.1	1.1	0.9	0.9	1.0	0.9	1.0	1.1	1.8	4.1	7.7	9.7		23	9.7	0.9	2.5
6/21/08	5.2	6.2	4.8	4.3	3.8	3.5	3.1	2.0	1.3	1.0	1.0	0.9	0.9	1.0	1.0	0.9	1.0	0.8	1.0	1.4	2.6	2.9	3.0		23	6.2	0.8	2.3
6/22/08	3.6	4.7	3.1	1.8	2.3	2.7	3.8	2.0	0.9	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.6	0.6	0.7	1.1	2.8	2.6	2.4		23	4.7	0.6	1.8
6/23/08	2.3	2.2	1.8	1.7	1.7	3.2	2.6	2.4	1.9	1.2	1.1	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.3	1.6	1.7	2.5	2.9		23	3.2	1.1	1.8
6/24/08	3.2	2.7	2.3	2.7	2.0	3.1	2.1	2.2	2.4	1.8	1.3	1.1	1.1	1.0	1.0	1.1	1.2	1.2	1.4	1.9	2.2	1.6	1.4		23	3.2	1.0	1.8
6/25/08	2.8			1.6	2.2	2.5	2.6	2.5	1.8	1.5	1.4	1.4	1.2	1.1	1.1	1.1	0.9	1.1	1.2	2.1	4.0	5.3	3.9		21	5.3	0.9	2.1
6/26/08	2.8	2.6	1.4	1.4	2.0	2.4	2.2	2.3	1.5	1.3	1.7	2.3	2.2	1.9	1.6	1.4	1.3	1.4	1.6	2.5					20	2.8	1.3	1.9
6/27/08	1.7	1.7	1.3	2.4	2.0	1.4	1.7	1.6	1.8	1.5	1.1	1.3	1.3	1.3	1.1	1.1	1.0	1.0	1.2	2.0	4.0	5.4	3.9		23	5.4	1.0	1.9
6/28/08	2.0	1.2	0.9	0.9	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.3	1.8	2.0	2.7	2.5		23	2.7	0.9	1.4
6/29/08	1.7	1.8	2.0	2.2	2.5	2.6	2.5	2.2	1.5	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.1	2.0	4.1	4.8	3.9		23	4.8	0.8	1.9
6/30/08	4.7	6.5	6.1	7.1	2.1	2.2	2.8	1.8	1.3	1.8	0.9	0.8	0.9	0.9	1.2	1.0	1.0	1.1	1.3	1.7	2.7	2.3	2.0		23	7.1	0.8	2.4
																									0			
hr max	5.2	6.5	6.1	7.1	3.8	4.3	5.0	5.5	4.3	3.9	3.2	2.3	2.2	2.1	1.9	2.0	2.0	2.1	2.3	2.7	4.3	7.7	9.7	0.0				
hr min	0.4	0.3	0.4	0.4	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.0				
average	2.3	2.5	2.2	2.2	2.1	2.3	2.2	1.9	1.5	1.3	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.2	1.6	2.7	3.0	3.0	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.71	0.30	1.77
6/20/08	6/13/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	671
possible hours	720
data capture	93.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		23	0.7	0.1	0.3
6/2/08	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	0.7	1.2	1.0	0.7	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2		23	1.2	0.1	0.4
6/3/08	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2		23	0.7	0.2	0.4
6/4/08	0.2			0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		21	0.4	0.1	0.2
6/5/08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.5	0.2	0.2
6/6/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
6/7/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2		23	0.4	0.2	0.2
6/8/08	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.6	0.2	0.3
6/9/08	0.2	0.2	0.5	0.3	0.5	0.4	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.3		23	0.6	0.2	0.4
6/10/08	0.2	0.2	0.3	0.2	0.1	0.4	1.0	1.1	0.6	0.3					0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2		19	1.1	0.1	0.3
6/11/08	0.2			0.2	0.2	0.3	0.3	1.0					0.5	0.5	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2		17	1.0	0.1	0.3
6/12/08	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.4	0.1	0.2
6/13/08	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2		23	0.3	0.1	0.2
6/14/08	0.2	0.2	0.1	0.2	0.2	0.3	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		23	0.6	0.1	0.3
6/15/08	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		23	0.6	0.1	0.3
6/16/08	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
6/17/08	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.4	0.1	0.2
6/18/08	0.2			0.2	0.2	0.2	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		21	0.5	0.2	0.2
6/19/08	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.6	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1		23	0.6	0.1	0.2
6/20/08	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.4		23	0.5	0.1	0.2
6/21/08	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.5	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.1	0.2
6/22/08	0.2	0.2	0.2	0.2	0.2	0.3	0.9	0.6	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2		23	0.9	0.1	0.2
6/23/08	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.6	0.6	0.4	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2		23	0.6	0.1	0.3
6/24/08	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		23	0.7	0.2	0.3
6/25/08	0.2			0.1	0.2	0.1	0.4	0.6	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2		21	0.6	0.1	0.3
6/26/08	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.3	0.3	0.3	0.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2					20	0.7	0.1	0.3
6/27/08	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.4	0.3		23	0.4	0.1	0.2
6/28/08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3		23	0.4	0.2	0.3
6/29/08	0.2	0.2	0.2	0.3	0.3	0.5	0.9	0.9	0.7	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2		23	0.9	0.2	0.3
6/30/08	0.6	1.0	0.3	0.3	0.2	0.5	0.7	0.5	0.5	0.6	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2		23	1.0	0.2	0.4
																									0			
hr max	0.6	1.0	0.5	0.3	0.5	0.5	1.0	1.1	0.7	1.2	1.0	0.7	0.7	0.6	0.4	0.4	0.5	0.4	0.3	0.4	0.3	0.4	0.4	0.0				
hr min	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
1.2	0.1	0.3
6/2/08	6/2/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	671
possible hours	720
data capture	93.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
6/1/08	2.7	4.1	2.2	3.6	2.9	3.7	3.1	2.3	2.1	1.7	1.3	1.1	1.0	0.9	1.1	1.1	1.1	1.1	1.4	2.0	3.7	3.2	4.5	
6/2/08	3.1	2.4	2.1	2.0	2.7	4.0	4.6	4.8	3.7	2.8	2.5	1.9	1.5	1.7	1.5	1.4	1.3	1.5	2.2	2.7	3.1	2.9	2.8	
6/3/08	2.5	2.5	2.3	2.3	2.4	2.5	2.4	2.2	1.9	1.7	1.8	1.9	1.8	1.6	1.5	1.4	1.6	1.7	1.9	2.5	3.6	3.6	3.7	
6/4/08	2.2			1.6	1.9	2.0	1.8	1.7	1.4	1.3	1.3	1.2	1.2	1.2	1.5	1.5	1.7	1.9	2.1	2.6	3.7	4.2	4.2	
6/5/08	1.3	2.3	3.0	2.6	2.7	2.7	2.8	2.7	2.6	2.6	2.3	1.9	1.9	1.9	1.8	1.9	1.9	2.0	2.1	2.1	2.0	1.8	1.6	
6/6/08	1.7	1.7	1.5	1.3	1.1	1.0	0.9	1.4	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.0	
6/7/08	1.1	1.1	1.0	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.8	2.4	2.7	2.2	
6/8/08	1.9	2.9	2.2	2.1	2.5	1.8	1.5	1.1	0.9	0.7	0.8	0.7	0.7	0.8	0.9	0.8	0.7	0.6	0.6	0.8	1.3	1.5	1.8	
6/9/08	1.4	0.8	1.2	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	1.0	2.1	3.3	3.8	
6/10/08	3.0	2.6	2.5	2.2	2.3	2.1	2.0	1.9	0.9	0.6					0.7	0.8	0.9	1.0	1.2	1.5	1.9	1.9	1.9	
6/11/08	1.4			1.3	1.4	1.9	2.2	2.2					1.4	1.2	0.8	0.7	0.7	0.7	0.9	0.9	1.4	1.7	1.6	
6/12/08	0.9	1.1	1.0	1.2	1.3	1.1	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.9	0.9	0.7	0.7	0.6	0.7	0.6	
6/13/08	0.4	0.3	0.3	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	0.9	0.8	0.8	1.2	1.1	0.8	1.3	1.7	1.7	
6/14/08	1.5	1.8	1.8	1.7	1.4	1.4	1.2	0.9	0.9	0.8	0.8	0.8	0.8	0.7	1.0	0.7	0.6	0.7	0.9	1.3	2.2	2.6	1.7	
6/15/08	1.9	1.7	2.0	2.3	2.6	2.5	1.6	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	1.0	1.3	2.4	3.0	3.3	
6/16/08	2.7	2.4	1.8	2.1	2.4	2.1	1.6	0.9	0.4	0.4	0.5	0.5	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	4.2	3.0	2.7	
6/17/08	2.5	1.8	3.9	3.7	2.6	1.1	1.0	0.8	0.9	0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.9	1.2	2.5	2.4	2.5	
6/18/08	2.3			2.3	3.3	2.6	2.1	1.6	1.1	0.9	0.8	0.7	0.8	0.7	0.7	0.8	0.7	0.8	0.9	1.4	2.8	2.6	2.6	
6/19/08	1.5	1.5	1.3	1.6	1.4	1.8	1.7	1.6	1.3	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.2	2.3	3.8	4.3	5.8	
6/20/08	2.6	3.1	3.0	2.1	3.3	3.6	2.6	1.7	1.2	1.0	1.0	1.0	1.0	0.8	0.9	0.9	0.9	1.0	1.1	1.8	4.1	7.6	9.5	
6/21/08	5.2	6.1	4.7	4.2	3.7	3.3	2.5	1.7	1.2	0.9	0.9	0.8	0.8	1.0	0.9	0.8	0.8	0.8	0.9	1.3	2.6	2.8	2.9	
6/22/08	3.6	4.6	3.0	1.8	2.3	2.6	3.1	1.6	0.8	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	1.0	2.8	2.5	2.4	
6/23/08	2.2	2.2	1.7	1.5	1.6	3.1	2.4	2.1	1.6	1.0	0.9	1.0	0.9	1.0	1.1	1.1	1.1	1.1	1.3	1.5	1.6	2.4	2.8	
6/24/08	3.1	2.6	2.2	2.7	2.0	2.9	1.9	1.8	1.9	1.5	1.3	1.1	1.0	0.9	0.9	0.9	1.0	1.1	1.3	1.9	2.2	1.6	1.3	
6/25/08	2.7			1.6	2.2	2.5	2.4	2.1	1.6	1.3	1.2	1.1	1.1	1.1	1.1	1.0	0.9	0.9	1.1	2.1	4.0	5.2	3.9	
6/26/08	2.6	2.6	1.4	1.3	1.9	2.2	1.9	2.0	1.2	1.2	1.6	2.0	1.9	1.6	1.4	1.3	1.2	1.3	1.5	2.5				
6/27/08	1.7	1.7	1.4	2.4	2.0	1.5	1.7	1.5	1.8	1.3	1.0	1.2	1.4	1.2	1.0	0.9	0.9	1.0	1.1	1.8	3.8	5.2	3.8	
6/28/08	2.0	1.2	0.9	0.8	1.0	1.0	0.9	0.8	0.8	0.8	0.9	0.9	1.1	1.1	1.1	0.9	0.9	1.2	1.1	1.6	1.8	2.5	2.4	
6/29/08	1.6	1.7	1.8	2.0	2.3	2.2	1.8	1.5	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.9	1.9	4.0	4.7	3.8	
6/30/08	4.3	5.5	5.9	7.0	2.0	2.0	2.1	1.4	0.9	1.4	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.9	1.2	1.6	2.5	2.2	1.9	
hr max	5.2	6.1	5.9	7.0	3.7	4.0	4.6	4.8	3.7	2.8	2.5	2.0	1.9	1.9	1.8	1.9	1.9	2.0	2.2	2.7	4.2	7.6	9.5	0.0
hr min	0.4	0.3	0.3	0.5	0.5	0.7	0.6	0.6	0.4	0.4	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.7	0.6	0.7	0.6	0.0
average	2.3	2.4	2.2	2.1	2.0	2.1	1.9	1.6	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.1	1.6	2.6	2.9	2.9	#DIV/0!

valid hr count	daily max hr	daily min hr	daily ave hr
23	4.5	0.9	2.3
23	4.8	1.3	2.6
23	3.7	1.4	2.2
21	4.2	1.2	2.0
23	3.0	1.3	2.2
23	1.7	0.7	1.0
23	2.7	0.5	1.0
23	2.9	0.6	1.3
23	3.8	0.6	1.1
19	3.0	0.6	1.7
17	2.2	0.7	1.3
23	1.3	0.6	0.8
23	1.7	0.3	0.8
23	2.6	0.6	1.2
23	3.3	0.7	1.5
23	4.2	0.4	1.5
23	3.9	0.6	1.5
21	3.3	0.7	1.5
23	5.8	1.0	1.8
23	9.5	0.8	2.4
23	6.1	0.8	2.2
23	4.6	0.6	1.7
23	3.1	0.9	1.6
23	3.1	0.9	1.7
21	5.2	0.9	2.0
20	2.6	1.2	1.7
23	5.2	0.9	1.8
23	2.5	0.8	1.2
23	4.7	0.7	1.6
23	7.0	0.8	2.1
0			

monthly max hr	monthly min hr	monthly ave hr
9.5	0.3	1.6
6/20/08	6/13/08	

Validated by:	Roger L Thompson	Date: 7/20/08
Analyst:	Denise Hazelman	Date: 7/20/08

valid hours	671
possible hours	720
data capture	93.2%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/2/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/3/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/4/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
6/5/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/6/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/7/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/8/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/9/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/10/08	0.1	0.1	0.1	0.1	0.1	0.1	1.5	1.7	0.1	0.1					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	19	1.7	0.1	0.3
6/11/08	0.1			0.1	0.1	0.1	0.1	0.1					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	17	0.1	0.1	0.1
6/12/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/13/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	0.1	0.1	0.1	0.1	23	1.2	0.1	0.1
6/14/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/15/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/16/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/17/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/18/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
6/19/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/20/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/21/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/22/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/23/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/24/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
6/25/08	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	20	0.1	0.1	0.1
6/26/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					23	0.1	0.1	0.1
6/27/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/28/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/29/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
6/30/08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
																									0			
hr max	0.1	0.1	0.1	0.1	0.1	0.1	1.5	1.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	0.1	0.1	0.1	0.0		monthly max hr	monthly min hr	monthly ave hr
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0		1.7	0.1	0.1
average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	#DIV/0!		6/10/08	6/1/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	671
possible hours	720
data capture	93.2%

Max 3 hr ave.	1.1	6/10/08 7:00
Max 24 hr ave.	0.3	6/10/08 3:00

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
6/1/08	40.3	37.2	45.6	39.9	43.0	35.4	37.9	46.1	43.8	46.3	52.1	53.9	56.1	57.2	57.1	57.4	57.4	61.0	57.7	51.1	47.4	47.3	36.6		23	61.0	35.4	48.2
6/2/08	33.4	42.1	44.5	41.9	31.3	26.2	19.6	16.9	22.9	25.0	33.3	42.6	50.4	49.8	50.8	52.6	54.3	53.9	43.0	38.6	30.6	30.0	31.2		23	54.3	16.9	37.6
6/3/08	26.9	25.8	23.5	21.2	19.5	19.0	18.4	20.2	21.6	23.9	22.9	22.8	25.4	31.1	38.6	43.6	43.0	42.2	36.9	31.8	26.5	25.3	23.7		23	43.6	18.4	27.6
6/4/08	40.6		57.7	44.7	33.4	32.0	32.3	35.9	38.2	39.5	42.8	47.7	49.9	50.8	47.1	46.6	43.0	40.0	39.3	38.8	29.7	22.6	23.1		22	57.7	22.6	39.8
6/5/08	44.0	29.8	24.1	24.6	25.0	24.7	22.7	25.7	26.4	26.8	28.6	28.0	25.2	27.0	30.4	32.8	32.4	31.8	32.6	34.6	33.5	33.5	34.4		23	44.0	22.7	29.5
6/6/08	30.8	28.1	27.0	28.2	27.6	27.6	34.7	37.2	38.3	40.9	42.7	44.9	47.9	49.3	49.2	45.1	45.7	45.0	42.7	33.2	24.7	35.3	33.4		23	49.3	24.7	37.4
6/7/08	29.4	26.2	26.8	27.8	26.1	25.5	24.8	29.6	33.1	33.8	33.5	33.0	34.7	38.5	39.9	39.5	38.6	40.3	41.5	38.8	27.7	22.8	18.0		23	41.5	18.0	31.7
6/8/08	21.3	9.7	21.3	16.2	11.8	17.1	20.3	27.9	28.5	31.3	34.9	36.1	48.0	38.9	42.4	48.1	43.2	40.5	38.8	35.1	27.9	21.7	15.5		23	48.1	9.7	29.4
6/9/08	19.1	29.4	31.1	30.5	30.7	30.3	31.3	30.8	30.0	30.6	33.0	33.6	34.7	35.5	35.4	35.7	36.6	36.0	35.4	31.8	25.9	24.2	21.4		23	36.8	19.1	31.0
6/10/08	19.8	21.2	20.1	21.4	20.4	21.8	20.9	23.9	31.4	36.3					41.1	41.0	40.0	38.5	37.6	36.0	32.3	29.1	26.7		19	41.1	19.8	29.4
6/11/08	26.5			24.4	23.5	23.6	22.1	21.6	22.1	21.9		22.1	22.0	23.1	26.6	32.3	34.3	32.7	29.1	27.0	22.9	26.1	27.3		20	34.3	21.6	25.6
6/12/08	39.1	29.9	30.7	27.9	31.1	31.4	34.0	37.0	40.8	42.3	42.0	43.2	43.8	46.1	45.6	39.7	39.1	38.0	36.6	37.1	36.2	34.8	35.8		23	46.1	27.9	37.5
6/13/08	34.7	37.9	38.7	38.0	37.9	34.5	37.2	39.6	40.8	42.0	42.4	43.3	44.2	44.2	45.2	45.2	45.5	42.2	41.8	39.6	35.2	30.5	29.4		23	45.5	29.4	39.6
6/14/08	27.3	23.9	24.1	27.0	25.7	20.1	22.7	31.0	32.3	32.9	35.1	34.9	33.9	34.7	33.8	38.6	42.9	40.8	37.5	32.3	26.8	25.7	29.4		23	42.9	20.1	31.0
6/15/08	31.2	34.3	34.8	33.0	24.0	20.6	28.6	33.8	35.4	38.9	43.2	44.6	44.3	44.1	43.4	43.6	45.3	45.6	45.6	39.8	30.9	26.5	24.2		23	45.6	20.6	36.3
6/16/08	22.5	20.7	20.5	18.9	18.8	18.1	18.6	29.9	38.9	40.7	42.9	44.3	45.2	46.6	44.6	44.8	46.6	46.5	44.0	42.6	36.1	33.6	30.4		23	46.6	18.1	34.6
6/17/08	30.8	27.7	20.3	23.8	23.8	30.4	32.9	37.1	38.0	42.2	45.2	46.8	47.6	49.7	50.2	51.7	50.6	48.0	45.6	40.1	31.4	34.0	35.9		23	51.7	20.3	38.4
6/18/08	32.7		48.8	31.6	28.7	31.2	34.9	39.5	43.6	49.1	53.5	52.7	54.7	54.4	53.8	52.6	53.6	53.7	52.6	44.3	35.0	36.9	42.9		22	54.7	28.7	44.6
6/19/08	44.3	43.6	42.1	36.6	34.5	31.7	33.8	37.4	38.7	36.5	39.0	40.9	43.5	46.0	47.6	46.5	46.1	46.2	48.8	45.6	33.4	31.7	27.2		23	48.8	27.2	40.1
6/20/08	34.5	30.0	33.4	34.9	31.2	23.9	26.0	37.4	48.7	53.5	55.4	53.5	48.7	52.0	53.5	51.9	49.6	50.9	51.1	44.8	38.4	27.8	15.1		23	55.4	15.1	41.2
6/21/08	39.6	36.9	39.6	39.0	28.5	20.8	23.9	36.8	44.1	47.9	48.8	47.9	49.7	44.6	46.8	48.2	48.0	44.4	40.4	35.4	27.5	26.3	27.9		23	49.7	20.8	38.8
6/22/08	27.0	24.1	29.6	36.1	34.6	31.9	25.9	32.5	40.8	45.4	45.9	46.0	46.8	47.5	46.9	47.4	47.6	47.2	46.0	40.9	31.6	34.9	34.4		23	47.6	24.1	38.7
6/23/08	33.0	31.9	31.2	29.9	27.1	19.9	20.5	21.9	28.3	35.5	40.9	42.5	46.3	48.0	47.3	49.0	50.3	50.3	47.5	42.1	36.6	35.5	32.6		23	50.3	19.9	36.9
6/24/08	29.7	28.8	28.9	27.8	29.0	27.7	31.2	32.6	35.0	40.4	43.4	46.7	51.9	55.9	57.2	57.2	57.4	55.0	51.3	44.2	43.2	47.4	44.6		23	57.4	27.7	42.0
6/25/08	35.1		50.4	31.7	29.4	27.6	27.3	29.1	34.4	36.7	38.6	40.1	42.3	42.8	43.2	43.7	43.0	41.2	38.9	38.7	29.0	25.6	32.3		22	50.4	25.6	36.4
6/26/08	32.2	30.2	38.8	36.8	31.1	27.8	32.1	27.8	39.2	40.8	39.3	34.7	36.0	46.2	52.9	52.4	54.4	55.3	49.1	37.7					20	55.3	27.8	39.7
6/27/08	29.9	32.1	34.8	25.2	31.8	38.5	34.1	35.0	28.8	30.1	35.4	41.1	41.9	43.8	42.1	41.9	40.7	38.4	36.0	30.1	21.6	15.2	18.6		23	43.8	15.2	33.4
6/28/08	21.7	27.9	30.5	29.6	27.4	27.3	28.4	29.9	32.3	34.3	36.3	36.1	36.8	36.4	33.2	32.1	30.5	31.0	29.9	27.3	23.6	19.4	19.2		23	36.8	19.2	29.6
6/29/08	19.9	19.0	17.8	16.9	14.9	15.0	16.1	19.8	24.4	28.8	31.2	32.8	32.8	34.3	34.0	34.1	33.4	33.7	32.6	26.9	22.9	23.1	27.1		23	34.3	14.9	25.7
6/30/08	22.1	20.8	20.1	17.1	23.0	19.4	19.5	28.4	34.8	37.5	38.6	40.7	41.8	42.5	42.6	43.5	43.1	42.1	39.5	32.3	28.7	30.5	30.6		23	43.5	17.1	32.1
																									0			

hr max	44.3	43.6	57.7	44.7	43.0	38.5	37.9	46.1	48.7	53.5	55.4	53.9	56.1	57.2	57.2	57.4	57.4	61.0	57.7	51.1	47.4	47.4	44.6	0.0
hr min	19.1	9.7	17.8	16.2	11.8	15.0	16.1	16.9	21.6	21.9	22.9	22.1	22.0	23.1	26.6	32.1	30.5	31.0	29.1	26.9	21.6	15.2	15.1	0.0
average	30.6	28.8	32.3	29.4	27.5	26.0	27.2	31.1	34.5	37.1	40.0	40.6	42.3	43.5	44.1	44.6	44.5	43.7	41.6	37.3	30.9	29.6	28.6	#DIV/0!

monthly max hr	monthly min hr	monthly ave hr
61.0	9.7	35.5
6/1/08	6/8/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	677
possible hours	720
data capture	94.0%

Max 8 hr ave. 57.6 6/1/08 12:00

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
DegC
StnT

data
channel
DegC

hr beg / hr end	0 / 1	1 / 2	2 / 3	3 / 4	4 / 5	5 / 6	6 / 7	7 / 8	8 / 9	9 / 10	10 / 11	11 / 12	12 / 13	13 / 14	14 / 15	15 / 16	16 / 17	17 / 18	18 / 19	19 / 20	20 / 21	21 / 22	22 / 23	23 / 24	valid hr count	daily max hr	daily min hr	daily ave hr
6/1/08	23	23	23	22	22	22	22	23	23	23	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	22	23
6/2/08	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	23	23	23	23	24	24	23	23
6/3/08	23	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	24	24	24	24	23	23	23	23	24	24	22	23
6/4/08	23	23	23	23	22	22	22	22	23	23	23	23	24	24	24	24	24	24	23	23	23	23	23	23	24	24	22	23
6/5/08	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	23	23
6/6/08	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	24	24	23	24
6/7/08	23	23	23	23	23	22	22	22	23	23	23	23	23	24	24	24	24	24	24	23	23	23	23	23	24	24	22	23
6/8/08	23	23	23	22	22	22	22	23	23	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	24	24	22	23
6/9/08	23	22	22	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	22	23
6/10/08	22	23	23	23	23	23	23	22	23	23	23	24	24	24	24	24	24	24	24	24	24	23	23	24	24	25	23	24
6/11/08	23	23	23	24	24	24	24	23	24	24	25	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	23	24
6/12/08	23	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24	25	24	24
6/13/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	24	24	24	24	24	24	24	25	23	24
6/14/08	24	23	24	24	23	23	23	24	24	24	24	24	25	25	25	25	25	25	25	25	25	24	24	24	24	25	23	24
6/15/08	24	24	24	23	23	23	24	24	24	24	24	24	24	24	25	25	25	25	24	24	24	24	24	24	24	25	23	24
6/16/08	24	23	24	24	24	24	23	24	24	24	24	24	24	25	25	25	25	25	25	24	24	24	24	24	24	25	23	24
6/17/08	24	24	24	23	23	23	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	24	24	24	24	25	23	24
6/18/08	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/19/08	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/20/08	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/21/08	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/22/08	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/23/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	24	24	24	24	25	24	24
6/24/08	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	25	25	24	24	25	24	24
6/25/08	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/26/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	24	25	24	24
6/27/08	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	24	24	24	24	24	24	24	24	24
6/28/08	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	24	24
6/29/08	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	24	24	24	24	25	24	24
6/30/08	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	24	24	24	0			

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	monthly max hr	monthly min hr	monthly ave hr
hr max	24.1	24.3	24.4	24.1	24.1	24.2	24.1	24.0	24.2	24.5	24.6	24.8	24.9	25.1	25.3	25.3	25.3	25.3	25.3	25.1	24.9	25.0	24.8	24.5	25.3	22.1	23.8
hr min	22.4	22.3	22.2	22.2	22.2	22.2	22.2	22.1	22.2	22.3	22.5	22.5	22.5	23.0	22.7	23.2	23.4	23.4	23.2	23.2	23.1	22.8	22.5	22.6	6/19/08	6/3/08	
average	23.5	23.5	23.5	23.4	23.4	23.3	23.3	23.4	23.5	23.7	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.4	24.4	24.2	24.0	23.8	23.7	23.8			

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	720
possible hours	720
data capture	100.0%

Nevada/NAAQS 8hr standard = 80 ppb or 157 μg/m^3 (ppb to μg/m^3 factor =1.96)

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
6/1/08	0	0	0	0	0	48	191	367	544	701	810	917	927	918	839	460	460	340	185	35	0	0	0	0	24	927	7743	7743
6/2/08	0	0	0	0	0	10	31	72	148	497	761	876	828	709	555	476	501	208	32	0	0	0	0	0	24	876	5702	5702
6/3/08	0	0	0	0	0	6	57	110	184	201	159	211	268	733	631	547	260	153	86	62	4	0	0	0	24	733	3670	3670
6/4/08	0	0	0	0	0	16	81	174	409	556	592	783	768	376	245	272	78	137	62	36	0	0	0	0	24	783	4585	4585
6/5/08	0	0	0	0	0	0	13	25	45	87	81	90	40	21	10	19	29	6	0	9	0	0	0	0	24	90	473	473
6/6/08	0	0	0	0	0	8	45	73	197	226	569	680	621	788	609	589	583	446	255	35	0	0	0	0	24	788	5724	5724
6/7/08	0	0	0	0	0	12	66	282	405	365	588	604	825	797	587	458	306	359	288	122	7	0	0	0	24	825	6070	6070
6/8/08	0	0	0	0	0	35	123	162	225	386	676	798	835	701	722	772	587	425	215	96	6	0	0	0	24	835	6761	6761
6/9/08	0	0	0	0	0	33	132	335	255	356	480	699	545	378	585	553	604	387	251	94	5	0	0	0	24	699	5691	5691
6/10/08	0	0	0	0	0	67	213	366	508	605	556	463		689	692	746	548		229	45	0	0	0	0	22	746	5727	5727
6/11/08	0	0	0	0	0	0	7	16	29	32	50	0	197	326	378	318	532	177	97	108	7	0	0	0	24	532	2275	2275
6/12/08	0	0	0	0	0	65	204	378	548	718	749	842	800	844	821	406	174	144	217	59	4	0	0	0	24	844	6972	6972
6/13/08	0	0	0	0	0	47	197	352	545	618	721	715	632	797	727	686	417	181	85	67	5	0	0	0	24	797	6791	6791
6/14/08	0	0	0	0	0	52	196	371	544	694	813	903	714	490	293	613	621	446	263	101	8	0	0	0	24	903	7123	7123
6/15/08	0	0	0	0	0	56	209	383	551	702	826	834	852	832	841	776	602	430	263	96	8	0	0	0	24	852	8262	8262
6/16/08	0	0	0	0	0	55	197	374	550	718	828	900	936	942	800	767	622	446	205	94	6	0	0	0	24	942	8439	8439
6/17/08	0	0	0	0	0	57	188	361	533	687	807	877	919	912	853	755	618	287	204	82	5	0	0	0	24	919	8144	8144
6/18/08	0	0	0	0	0	36	154	340	363	584	654	654	935	721	337	290	535	438	254	65	6	0	0	0	24	935	6365	6365
6/19/08	0	0	0	0	0	37	154	323	485	649	753	815	923	829	890	674	469	396	322	77	6	0	0	0	24	923	7802	7802
6/20/08	0	0	0	0	0	31	41	262	529	608	799	839	891	915	790	765	571	449	266	93	9	0	0	0	24	915	7858	7858
6/21/08	0	0	0	0	0	39	203	347	532	680	763	674	876	446	859	753	613	341	237	105	8	0	0	0	24	876	7476	7476
6/22/08	0	0	0	0	0	52	196	370	546	702	822	886	924	898	829	771	614	447	318	80	5	0	0	0	24	924	8461	8461
6/23/08	0	0	0	0	0	8	20	96	206	362	400	546	592	572	584	603	543	421	243	78	6	0	0	0	24	603	5281	5281
6/24/08	0	0	0	0	0	23	158	333	517	672	783	847	898	896	828	738	600	427	196	36	0	0	0	0	24	898	7951	7951
6/25/08	0	0	0	0	0	10	67	240	446	681	801	873	874	860	756	743	602	437	265	86	6	0	0	0	24	874	7746	7746
6/26/08	0	0	0	0	0	23	118	126	518	491	279	181	648	892	818	720	571	397	134	9	0	0	0	0	24	892	5924	5924
6/27/08	0	0	0	0	0	66	31	17	68	248	615	872	763	910	863	768	626	431	275	92	9	0	0	0	24	910	6653	6653
6/28/08	0	0	0	0	0	27	82	210	240	380	552	695	298	389	551	608	545	409	136	90	9	0	0	0	24	695	5219	5219
6/29/08	0	0	0	0	0	47	180	354	526	677	798	851	770	820	694	728	543	426	288	72	8	0	0	0	24	851	7780	7780
6/30/08	0	0	0	0	0	43	176	352	523	682	806	881	923	904	847	764	619	448	260	94	9	0	0	0	24	923	8329	8329
																									0		0	0
hr max	0	0	0	0	0	67	213	383	551	718	828	917	936	942	890	776	626	449	322	122	9	0	0	0				
hr min	0	0	0	0	0	0	7	16	29	32	50	0	40	21	10	19	29	6	0	0	0	0	0	0				
average	0	0	0	0	0	34	124	252	391	519	630	694	725	710	661	605	500	346	204	71	5	0	0	0				

monthly	monthly	monthly
max hr	Max24hr	Total
942	8461	192993
6/16/08	6/22/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	718
possible hours	720
data capture	99.7%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
6/1/08	707	707	707	707	707	707	707	707	707	707	707	707	707	706	706	706	706	705	705	705	705	705	705	705
6/2/08	706	706	704	703	704	704	705	705	705	704	704	704	704	703	703	702	702	701	701	701	701	702	702	700
6/3/08	700	700	700	700	700	701	700	700	700	700	700	700	699	699	699	698	698	698	698	697	697	697	697	698
6/4/08	697	697	697	696	696	696	696	696	696	696	696	696	696	696	696	696	696	696	696	696	697	697	697	697
6/5/08	696	697	697	697	697	697	697	697	697	697	697	696	696	696	696	694	695	694	693	692	691	691	690	689
6/6/08	689	688	688	687	687	688	689	690	691	692	692	693	694	694	695	695	695	695	695	695	696	697	697	698
6/7/08	698	698	699	699	699	699	700	700	700	700	700	701	701	701	701	701	701	701	701	701	701	701	701	701
6/8/08	701	701	701	701	701	701	701	701	701	701	700	700	700	699	699	700	700	700	700	700	700	701	701	701
6/9/08	701	701	701	701	700	701	701	701	702	702	702	702	702	702	702	702	702	702	702	702	703	703	703	703
6/10/08	703	703	703	703	703	704	704	704	704	703	703	703	702	702	701	701	701	700	699	699	698	699	698	699
6/11/08	699	699	696	696	696	696	695	695	695	695	695	695	694	695	695	696	697	697	698	698	698	698	699	699
6/12/08	699	699	699	699	700	700	701	701	700	700	700	700	700	700	700	700	700	700	700	701	701	701	701	700
6/13/08	700	701	701	701	701	702	702	702	703	703	703	703	704	704	703	703	703	703	704	703	704	704	704	704
6/14/08	704	703	704	704	704	704	704	705	705	704	704	704	704	704	703	703	703	703	703	703	703	704	704	705
6/15/08	705	706	706	706	706	706	707	707	707	707	707	707	707	707	706	707	707	707	708	708	708	709	709	710
6/16/08	710	710	710	710	710	710	711	711	711	711	711	711	711	710	710	710	710	710	710	710	710	710	710	710
6/17/08	710	710	710	710	710	710	710	710	710	709	709	709	709	708	708	708	708	708	707	707	707	708	708	708
6/18/08	708	707	707	708	708	708	708	708	708	708	708	707	707	707	707	707	706	705	705	705	706	706	707	707
6/19/08	706	706	706	705	705	705	706	706	706	706	706	706	706	706	706	706	706	706	706	706	707	707	708	708
6/20/08	708	708	708	708	708	709	709	709	710	709	709	710	710	710	709	710	710	710	710	710	710	710	710	710
6/21/08	710	711	711	711	711	711	711	711	711	711	711	711	710	710	710	710	709	709	709	709	710	710	710	710
6/22/08	710	710	710	710	710	710	710	710	710	710	709	709	709	708	708	708	708	708	708	708	708	707	708	708
6/23/08	708	708	708	708	709	708	708	709	708	708	708	708	708	708	708	708	708	707	707	707	707	708	708	708
6/24/08	707	707	707	707	707	707	707	707	707	706	706	706	705	705	705	704	704	703	703	703	703	705	704	704
6/25/08	704	704	705	705	706	706	706	706	706	707	707	707	707	707	707	706	706	706	706	706	706	706	706	705
6/26/08	706	706	704	704	705	705	705	705	704	704	704	704	702	703	703	702	702	701	701	700	700	700	700	699
6/27/08	699	700	700	700	700	701	701	702	702	702	702	702	702	703	703	703	703	703	704	704	704	704	704	704
6/28/08	704	704	704	704	704	705	705	705	705	706	706	706	706	707	707	707	708	708	708	709	709	710	710	710
6/29/08	710	710	710	710	711	711	712	712	712	712	712	712	712	712	712	712	711	711	711	711	711	711	711	711
6/30/08	711	711	711	711	711	711	711	711	711	711	711	710	710	709	709	708	708	707	707	706	706	706	706	706
hr max	711	711	711	711	711	711	712	712	712	712	712	712	712	712	712	712	711	711	711	711	711	711	711	711
hr min	689	688	688	687	687	688	689	690	691	692	692	693	694	694	695	694	695	694	693	692	691	691	690	689
average	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	703	703	703	703	704	704	704

valid hr count	daily max hr	daily min hr	daily ave hr
24	707	705	706
24	706	700	703
24	701	697	699
24	697	696	696
24	697	689	695
24	698	687	692
24	701	698	700
24	701	699	700
24	703	700	702
24	704	698	702
24	699	694	696
24	701	699	700
24	704	700	703
24	705	703	704
24	710	705	707
24	711	710	710
24	710	707	709
24	708	705	707
24	708	705	706
24	710	708	709
24	711	709	710
24	710	707	709
24	709	707	708
24	707	703	705
24	707	704	706
24	706	699	703
24	704	699	702
24	710	704	706
24	712	710	711
24	711	706	709
0			

monthly max hr	monthly min hr	monthly ave hr
712	687.0	703.9
6/29/08	6/6/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
6/1/08	63.9	72.2	65.9	73.0	75.8	76.9	61.3	50.3	50.1	42.3	30.2	27.7	24.0	23.6	24.3	25.8	25.8	20.5	27.8	31.9	39.2	47.2	62.4	68.2	24	76.9	20.5	46.3
6/2/08	77.6	91.9	86.5	80.1	87.9	87.6	88.6	86.1	78.6	75.5	67.3	63.7	57.1	53.6	53.7	52.5	51.6	55.4	64.9	67.8	86.3	91.1	93.5	94.2	24	94.2	51.6	74.7
6/3/08	96.1	96.9	97.7	98.0	98.3	98.5	98.7	98.7	98.3	96.8	94.5	93.5	89.3	81.7	72.5	67.8	70.4	71.4	77.5	82.1	88.0	91.6	93.6	96.0	24	98.7	67.8	89.5
6/4/08	94.1	97.0	96.0	94.1	94.5	93.9	90.8	85.5	84.4	79.9	74.9	66.1	61.3	59.4	67.2	64.9	71.2	80.0	78.4	81.3	88.9	92.8	93.6	95.7	24	97.0	59.4	82.7
6/5/08	93.9	96.6	97.0	97.1	96.7	96.8	96.9	96.4	96.2	96.2	94.2	94.4	95.8	96.3	95.9	96.2	95.6	95.9	96.2	96.3	96.0	96.3	96.6	97.1	24	97.1	93.9	96.1
6/6/08	97.3	96.8	96.4	95.4	94.9	94.5	95.1	93.5	90.8	85.5	80.7	73.8	67.8	62.0	58.1	59.4	54.5	52.8	55.9	72.7	83.0	86.9	93.2	93.6	24	97.3	52.8	80.6
6/7/08	93.4	92.9	90.7	88.0	89.3	87.8	86.2	78.4	72.1	68.5	64.9	63.5	59.2	52.4	48.8	48.9	51.3	46.0	43.3	48.0	67.6	77.0	82.0	79.7	24	93.4	43.3	70.0
6/8/08	84.1	89.9	82.9	85.4	89.5	84.7	79.0	70.4	67.7	65.5	62.4	60.4	52.7	59.9	57.4	49.2	48.1	46.0	53.6	53.5	68.3	77.9	84.7	84.9	24	89.9	46.0	69.1
6/9/08	85.8	82.6	80.5	82.5	84.5	83.4	79.1	73.3	71.2	68.2	63.0	59.5	56.3	56.3	60.2	57.9	48.5	49.5	53.1	63.3	78.0	82.3	87.2	85.4	24	87.2	48.5	70.5
6/10/08	89.4	89.6	89.6	90.8	91.8	90.1	86.5	84.7	76.8	69.2	65.0	64.4	63.8	61.2	60.6	60.4	54.9		62.0	71.0	79.1	84.9	88.8	86.8	23	91.8	54.9	76.6
6/11/08	83.6	85.0	94.0	97.8	97.0	96.6	96.4	97.4	97.6	97.3	97.5	97.1	95.7	93.1	86.1	78.7	76.6	79.7	83.5	81.1	87.7	90.4	90.4	89.7	24	97.8	76.6	90.4
6/12/08	92.3	95.1	94.4	94.6	93.6	92.5	87.3	77.8	64.2	57.9	58.1	54.1	52.7	45.3	42.8	53.3	69.1	66.6	59.9	60.1	67.4	72.3	70.9	73.5	24	95.1	42.8	70.7
6/13/08	74.0	71.7	73.0	75.9	77.8	80.5	73.9	69.2	63.4	58.4	53.7	48.6	45.5	42.9	39.7	40.1	38.1	66.4	84.8	86.5	87.9	89.4	89.7	81.9	24	89.7	38.1	67.2
6/14/08	85.9	91.5	90.7	89.1	88.9	90.8	85.1	72.7	66.8	61.9	54.0	48.0	43.7	41.0	42.4	36.4	28.3	31.7	37.7	44.3	57.6	63.1	74.4	83.4	24	91.5	28.3	62.9
6/15/08	81.6	80.8	79.0	79.5	86.5	85.8	76.8	66.8	60.3	54.3	47.0	43.0	42.1	40.2	39.7	36.6	37.3	46.4	48.6	55.5	69.4	79.9	81.9	82.2	24	86.5	36.6	62.6
6/16/08	84.3	87.5	89.0	87.4	88.3	85.8	79.0	65.1	56.6	53.7	46.4	42.6	42.5	39.6	43.0	42.3	35.4	33.9	39.1	41.1	52.4	59.7	68.2	72.8	24	89.0	33.9	59.8
6/17/08	73.8	79.4	84.9	82.8	82.6	76.1	66.5	55.6	52.9	47.1	42.9	44.1	46.8	47.0	47.1	44.9	47.1	52.5	55.6	62.6	76.4	75.8	73.1	75.2	24	84.9	42.9	62.2
6/18/08	79.5	81.9	76.4	78.5	78.4	75.1	67.1	57.4	52.3	47.4	44.5	45.0	43.0	42.5	42.3	47.4	46.1	46.8	50.7	60.9	73.2	73.9	70.3	90.0	24	90.0	42.3	61.3
6/19/08	90.9	87.4	86.8	89.0	90.5	91.2	87.9	79.9	75.2	71.8	67.7	64.7	62.3	59.7	56.0	59.6	58.8	57.8	55.2	59.0	72.7	78.5	82.1	81.9	24	91.2	55.2	73.6
6/20/08	81.7	84.8	80.5	80.7	83.4	85.1	81.1	72.4	52.7	49.2	47.0	51.0	54.2	47.1	39.7	39.5	37.2	36.7	39.7	48.2	56.2	67.4	77.7	71.4	24	85.1	36.7	61.0
6/21/08	69.8	70.6	68.1	73.8	79.3	86.4	75.8	62.8	55.6	50.6	49.2	50.7	46.1	55.6	51.9	47.7	46.8	47.6	51.7	59.7	72.3	77.3	73.2	75.0	24	86.4	46.1	62.4
6/22/08	74.2	77.1	75.3	66.3	68.7	69.6	67.0	56.9	42.6	38.0	36.5	36.1	34.8	35.9	37.9	37.1	36.9	37.0	41.2	50.6	63.1	59.5	62.4	68.3	24	77.1	34.8	53.0
6/23/08	64.8	62.2	59.1	62.3	69.0	79.1	79.8	80.1	75.6	69.4	64.5	65.4	60.2	59.8	59.8	54.5	51.6	50.5	53.6	61.1	71.2	72.0	77.2	76.4	24	80.1	50.5	65.8
6/24/08	80.0	80.1	79.9	81.9	81.7	81.3	74.6	69.2	64.5	60.7	60.4	60.1	53.6	45.4	42.6	43.1	43.7	48.9	56.6	68.2	73.2	80.5	89.3	88.8	24	89.3	42.6	67.0
6/25/08	87.8	87.7	88.0	88.5	90.2	90.5	89.3	83.3	73.6	65.1	58.3	50.9	41.3	42.5	43.3	41.5	40.2	44.6	48.7	48.5	64.5	71.0	64.3	60.2	24	90.5	40.2	65.2
6/26/08	65.4	82.4	82.3	81.9	87.3	88.1	81.2	83.5	66.8	63.0	66.7	73.6	73.9	64.6	62.7	61.7	58.4	58.9	63.3	78.2	83.6	91.3	83.2	83.6	24	91.3	58.4	74.4
6/27/08	90.9	89.6	88.3	91.4	89.7	87.7	85.4	80.8	87.7	81.3	72.1	65.2	64.9	52.3	39.2	36.8	34.9	36.3	40.2	51.9	69.8	77.9	72.7	69.8	24	91.4	34.9	69.0
6/28/08	73.6	63.0	68.8	73.3	79.8	80.4	77.6	75.8	74.5	71.7	66.4	64.3	63.5	61.8	68.1	58.9	64.4	60.3	61.7	70.3	80.2	86.3	86.2	89.1	24	89.1	58.9	71.7
6/29/08	85.5	87.7	89.4	90.4	91.9	90.7	86.4	78.2	69.5	60.9	55.1	51.0	51.6	48.6	46.5	45.9	47.0	46.8	49.1	60.8	67.2	74.7	70.6	74.5	24	91.9	45.9	67.5
6/30/08	80.5	85.2	82.0	82.1	81.3	82.3	79.8	65.4	53.2	48.3	46.3	44.3	42.4	39.4	39.1	39.2	39.7	43.7	48.1	61.7	72.0	72.3	73.2	71.5	24	85.2	39.1	61.4
																									0			

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr max	97.3	97.0	97.7	98.0	98.3	98.5	98.7	98.7	98.3	97.3	97.5	97.1	95.8	96.3	95.9	96.2	95.6	95.9	96.2	96.3	96.0	96.3	96.6	97.1
hr min	63.9	62.2	59.1	62.3	68.7	69.6	61.3	50.3	42.6	38.0	30.2	27.7	24.0	23.6	24.3	25.8	25.8	20.5	27.8	31.9	39.2	47.2	62.4	60.2
average	82.5	84.6	83.8	84.4	86.3	86.3	82.0	75.6	69.7	65.2	61.0	58.9	56.3	53.7	52.3	50.9	50.3	52.1	56.1	62.6	73.1	78.0	80.2	81.4

monthly max hr	monthly min hr	monthly ave hr
98.7	20.5	69.5
6/3/08	6/1/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-08
in
Prcp

data
channel
in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily		daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr		total
6/1/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/2/08	0.1	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.14	0.17	0	24	0.17		0.49
6/3/08	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
6/4/08	0.05	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.07		0.12
6/5/08	0.37	0.03	0.14	0.01	0	0.08	0.02	0.04	0	0	0	0	0	0.04	0.16	0.16	0.05	0.1	0.2	0.11	0.02	0.08	0.01	0.04	24	0.37		1.66
6/6/08	0.01	0	0.02	0.01	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.08	0	0	24	0.08		0.13
6/7/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/8/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/9/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/10/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	0.01	0	0	0	0	0	0	24	0.24		0.25
6/11/08	0	0.02	1.12	0.05	0.04	0.05	0	0	0.01	0	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	1.12		1.32
6/12/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	24	0.01		0.01
6/13/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0	24	0.07		0.07
6/14/08	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
6/15/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/16/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/17/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/18/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	24	0.06		0.06
6/19/08	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.16		0.16
6/20/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/21/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/22/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/23/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/24/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.23	0	0	24	0.23		0.23
6/25/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/26/08	0	0.07	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.56	0	0	24	0.56		0.66
6/27/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/28/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0	0	0	24	0.04		0.05
6/29/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
6/30/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
																									0			

hr max	0.37	0.16	1.12	0.05	0.04	0.08	0.02	0.04	0.01	0.00	0.02	0.01	0.00	0.04	0.16	0.16	0.24	0.10	0.20	0.11	0.05	0.56	0.17	0.06
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.53	0.39	1.30	0.07	0.04	0.14	0.02	0.04	0.01	0.00	0.02	0.02	0.00	0.04	0.17	0.21	0.29	0.11	0.27	0.11	0.08	1.09	0.18	0.10

monthly	monthly	monthly
max hr	24h max	TOTAL
1.12	1.66	5.23
6/11/08	6/5/08	

Validated by: Roger L Thompson Date: 7/20/08
Analyst: Denise Hazelman Date: 7/20/08

valid hours	720
possible hours	720
data capture	100.0%

ENSR

Appendix E

ARS Audit Report

02450-017-701

August 2008

Air Resource Specialists, Inc.

1901 Sharp Point Drive
Suite E
Fort Collins, Colorado 80525
970-484-7941
FAX: 970-484-3423

July 16, 2008

Vince Scheetz
ENSR
1601 Prospect Parkway
Fort Collins, CO 80525

RE: Air Quality and Meteorology Audit Report Entitled:
Audit Report for Basin NextGen Project
Gettysburg, South Dakota, Second Quarter 2008

Dear Vince:

Enclosed for your use are one bound copy and one unbound copy of the above referenced report.

Air Resource Specialists, Inc. appreciates this opportunity to assist ENSR with independent quality assurance audit services. Please contact me if you have any questions or need any additional information.

Sincerely,

Martin H. Valvur
Project Manager

MHV/jg
Enclosures

AUDIT REPORT

FOR

BASIN NEXTGEN PROJECT
GETTYSBURG, SOUTH DAKOTA
SECOND QUARTER 2008

Prepared for

ENSR
1601 Prospect Parkway
Fort Collins, Colorado 80525

Prepared by

AIR RESOURCE SPECIALISTS, INC.
1901 Sharp Point Drive, Suite E
Fort Collins, Colorado 80525
Telephone: 970-484-7941
Fax: 970-484-3423

July 11, 2008

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1.0 AUDIT SUMMARY

ENSR is operating an ambient air quality and meteorological monitoring station for the Basin NextGen Project, approximately five (5) miles east of Gettysburg, South Dakota. The monitoring program has been designed to fulfill specific regulatory requirements that relate to the Environmental Protection Agency's (EPA) Prevention of Significant Deterioration (PSD) Program. Specific objectives of the ambient air quality and meteorological monitoring program are to:

- Fulfill pre-construction air monitoring required under PSD permitting rules,
- Obtain baseline data on the present ambient air conditions, and
- Provide a comprehensive on-site database for use in dispersion modeling using ISCST3, AERMOD, and CALPUFF.

To meet these objectives, ENSR has installed an ambient air quality monitoring station and an instrumented 100-meter meteorological tower.

Air Resources Specialists, Inc. (ARS) conducted a performance audit of the monitoring systems on June 10 and 11, 2008. Guidance from the following EPA documents was used to establish the audit procedures:

- 40 CFR 58, Appendix A. *Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring*
- EPA *Quality Assurance Handbook for Air Pollution Measurement Systems:*
  - *Volume I. Principles*
  - *Volume II. Ambient Air Specific Methods*
  - *Volume IV. Meteorological Measurements*
- EPA *Meteorological Monitoring Guidance for Regulatory Modeling Applications*
- EPA *Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone*
- NDEP *Bureau of Air Pollution Control, Ambient Air Quality Monitoring Standards*

At the time of the audit, all of gaseous analyzers, PM_{10} samplers, and meteorological parameters were operating within EPA and project accuracy goals.

Ambient air quality audit results are summarized by parameter in Table 1-1, while meteorological results are summarized by parameter in Table 1-2.

The monitoring site specifications, as measured by ARS' global positioning system (GPS) and parameters audited are:

- Elevation: 2,050 feet MSL
- Latitude: 45° 02' 37" N
- Longitude: 99° 50' 13" W
- UTM 4988136 N
- UTM 565914 E

Ambient air quality instruments audited were:

- Ozone (O_3) Analyzer
- Sulfur Dioxide (SO_2) Analyzer
- Oxides of Nitrogen (NO, NO_2, and NO_X) Analyzer
- In-Station Calibrator
- Inhalable Particulate (PM_{10}) Sampler (2)

Meteorological parameters audited were:

- 100 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 50 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 10 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 2 meters:
  - Temperature
  - Relative humidity
- Solar radiation
- Precipitation
- Barometric pressure

Table 1-1

Summary of Ambient Air Quality Audit Results

Parameter	Instrument/Analyzer	Within Accuracy Goal
Gaseous Samplers		
O_3	TEI* 49i Analyzer	Yes
SO_2	TEI 43i Analyzer	Yes
NO, NO_2, NO_x	TEI 42i Analyzer	Yes
Particulate Samplers		
PM_{10}	Tisch (PM_{10} #1)	Yes
PM_{10}	Tisch (PM_{10} #2)	Yes

*Thermo Environmental Instruments, Inc.

Table 1-2

Summary of Meteorological Audit Results

Parameter	Instrument/Sensor	Within Accuracy Goal
100-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
50-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
10-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
2-Meter Level		
Temperature	Climatronics 100093	Yes
Other		
Relative Humidity	Rotronics HMD 35	Yes
Solar Radiation	Eppley 8-48	Yes
Precipitation	Texas Electronics TR525-1	Yes
Barometric Pressure	Climatronics 101448	Yes

Details of the audit are presented in the following sections:

Section 2.0	Audit Methods
Section 3.0	Audit Equipment
Section 4.0	Audit Results
Appendix A	Audit Data Forms
Appendix B	Relevant Formulae for Computing NO_2 Input Concentration
Appendix C	Audit Standards Certifications

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2.0 AUDIT METHODS

Audit procedures, audit challenge ranges, and acceptance criteria are described below. These ranges and limits conform to EPA's PSD guidelines. Audit results were verbally communicated to the site operator and the ENSR Project Manager prior to departure from the site. Audit data forms are provided in Appendix A.

2.1 GASEOUS ANALYZERS (O_3, SO_2, AND NO_x)

Audit challenge ranges and acceptance criteria for the ambient gas analyzers are presented in Table 2-1. Audits were conducted by using an ozone primary standard and a gas dilution/gas phase titration system. These systems introduced a reference zero and three (3) test atmospheres to the individual gas analyzers through the normal sampling system, including the sample intake manifold, filters, and scrubbers.

The percent difference between the actual concentration of the audit test gas and the concentration indicated by the analyzer was used to determine if the analyzer was operating within specified limits. Analyzers whose readings at any point differed from the test atmosphere by more than ±15% were considered out of tolerance.

Test atmospheres for the ozone analyzer and the on-site ozone transfer standard were generated using an ozone primary standard (TEI 49C). Test atmospheres for the gaseous SO_2 and NO_x analyzers were generated using the ARS gas dilution/gas phase titration system, zero air supply, and EPA protocol reference gases. The formulae for completing NO_2 input concentrations are provided in Appendix B.

Table 2-1

Gaseous Analyzers
Audit Challenge Ranges and Acceptance Criteria

Parameter	Audit Concentration Ranges (ppm)					Acceptance Criteria
	Level 1	Level 2	Level 3	Level 4	Level 5	
O_3	0.02-0.05	0.06-0.08	0.15-0.20	0.36-0.45	n/a	±15% or ±15 ppb for any point
SO_2	0.003-0.005	0.006-0.01	0.03-0.08	0.15-0.20	0.36-0.40	±15% or ±15 ppb for any point
$NO/NO_2/NO_X$	0.003-0.005	0.03-0.08	0.15-0.20	0.35-0.45	n/a	±15% or ±15 ppb for any point

2.1.1 In-Station Standards Comparisons

In addition to conducting audits of the gaseous analyzers, ARS also conducted a comparison of the in-station calibration standards. The in-station calibration standards consisted of a TEI 146 gas dilution system and a TEI 49C ozone transfer standard. Standards comparisons are not required in the regulatory guidelines; however, ARS has found this to be a useful evaluation tool in cases where analyzers are operating outside of project accuracy goals.

2.2 PARTICULATE SAMPLERS

The volumetric flow controlled PM_{10} particulate samplers were audited in their normal operating mode with a particulate filter installed. ARS audited the samplers with a fixed flow audit orifice. The observed flow of the sampler, based on its most recent calibration, was compared to the observed flow of the ARS audit orifice. The audit value is represented by the percent difference between the two flows. Differences between the sampler and audit flows greater than ±10% are considered out of tolerance. To ensure that the addition of the audit orifice to the sampler did not adversely affect the sampler flow, an additional sampler flow rate, with the particulate filter in place and the audit orifice removed, was performed. This design flow rate of the PM_{10} samplers was compared to the actual flow rate and reported as the percent difference. Values greater than ±10% are considered out of tolerance. Audit methods and acceptable criteria for the particulate samplers are summarized in Table 2-2.

Table 2-2

Particulate Samplers
Audit Methods and Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
PM_{10} filter sampler	Audit orifice flow to actual sampler flow.	±10%
(EPA Reference Method)	Design criteria flow to actual sampler flow.	±10%

2.3 METEOROLOGICAL PARAMETERS

Meteorological measurement systems were audited in accordance with the EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume IV – Meteorological Measurements*, (March 1995). Accuracy goals for the meteorological parameters were obtained from the EPA's *On-Site Meteorological Program Guidance for Regulatory Modeling Applications*. ARS used National Institute of Standards and Technologies (NIST) traceable test equipment for all meteorological parameters. Audit ranges and acceptable criteria for each parameter are summarized in Table 2-3. Meteorological audit procedures are as follows:

Table 2-3

Meteorological Sensors
Audit Ranges and Acceptance Criteria

Sensor	Parameter	Audit Challenge Ranges	Acceptance Criteria
Wind Speed (Horizontal and Vertical)	• Speed Accuracy	Three RPM Values	0.447 mph + 5% of Observed
	• Starting Threshold	Starting Torque	≤0.2 gm-cm (horizontal) ≤2.0 gm-cm (vertical)
Wind Direction	• Orientation Accuracy	To and From Two Landmarks	±5° in Any Direction
	• Response Threshold	Starting Torque	≤7.0 gm-cm
Temperature and Temperature Difference	• Accuracy and Linearity	Three Temperature Baths: 0°C, Near Ambient, and Near Full-Scale	Temperature ±0.5°C Δ Temperature ±0.1°C
Relative Humidity	• Accuracy	Compared to Ambient	Relative Humidity ±10%
Solar Radiation	• Accuracy	Three collocated readings	±5° of Observed, ±25 w/m^2 which ever is greater
Precipitation	• Accuracy	Compared to Three Known Amounts of Introduced Water	±10% of Observed
	• Tip Response	Manual Tips	One contact closure per tip
Barometric Pressure	• Accuracy	Compared to Ambient	±3 mb

Wind Speed – Dynamic tests of the horizontal wind speed sensors were performed using an R. M. Young model 18810 pulsed motor wind speed calibrator. Each sensor was tested at zero plus three (3) shaft revolution speeds (300, 900, and 1500 rpm). The equivalent wind speed was calculated corresponding to the manufacturer's specified values for shaft rpm versus wind velocity and compared to readings obtained from the on-site datalogger and backup strip chart recorder. A bearing integrity check was also performed using an R. M. Young torque wheel.

Wind Direction – Wind direction sensor audits included the verification of sensor orientation, linearity, and bearing integrity. ARS determined the orientation of the wind sensor crossarm. Accuracy of the crossarm was determined by use of a Brunton compass mounted on a tripod and knowledge of the site location in terms of latitude and longitude. A computer program was used to establish the declination of the site.

Potentiometer linearity was tested by verifying the accuracy of the measured wind direction towards and away from the crossarm in the four (4) cardinal directions. If the checks are within ±5 degree accuracy, the linearity is also valid.

In addition to the sensor orientation and linearity checks, the sensor bearings were tested using an R. M. Young torque wheel.

Vertical Wind Speed – Vertical wind speed was audited by first obtaining a zero response. The sensors were then challenged using an R. M. Young Model 18810 pulsed motor wind speed calibrator. The pulsed motor was used to rotate the sensor shafts at 300 and 900 rpm in both the clockwise (cw) and counter-clockwise (ccw) directions. Values observed were compared to the manufacturer's specifications to verify sensor accuracy.

Temperature and Temperature Difference – Each temperature sensor was audited by immersion in three (3) temperature baths with NIST-traceable thermometers. The temperature tests were performed at 0°C, ambient (approximately 25°C), and as near to full-scale as possible. Bath temperature readings obtained with the NIST-traceable thermometer were compared to the on-site datalogger. Temperature differences (ΔT) systems were assessed by simultaneously immersing both sensors in each of the three baths and noting the measured temperature difference between sensors. Data observed on the datalogger were used to assess the accuracy and linearity of each sensor.

Relative Humidity – The relative humidity monitoring system performance audit was conducted using a hand-held reference relative humidity measurement system to obtain the ambient relative humidity value. The observation was taken as near as possible to the on-site sensor. Relative humidity data observed on the on-site datalogger and strip chart recorder were compared to the reference readings.

Solar Radiation – The solar radiation sensor was audited by collocating an Eppley model PSP certified reference sensor next to the station sensor. Three (3) instantaneous comparisons were conducted. Readings from the audit standard and on-site dataloggers were arithmetically averaged, converted to proper engineering units (watts per meter square), and compared to establish sensor accuracy.

Precipitation – The tipping bucket precipitation gauge was audited by using a volumetric precipitation gauge calibrator and transferring a known amount of water through the gauge orifice at a rate equivalent to 2.0 inches/hour of precipitation. The gauge was challenged twice with water equivalents of approximately 1.0 inch of precipitation (100 tips of the sensor). The tip response of the on-site datalogger was verified, and the total datalogger values were compared to the actual introduced volumes.

Barometric Pressure – Barometric pressure was audited by side-by-side comparison to a portable barometric pressure standard (AIR-HB-1A).

3.0 AUDIT EQUIPMENT

Audits of all criteria pollutant gaseous analyzers were conducted using EPA protocol reference gases. All audit equipment and reference standards were in current calibration and traceable to the NIST or other authoritative references. The nitric oxide (NO) and sulfur dioxide (SO_2) reference gases were traceable to EPA standard reference materials. Table 3-1 lists the specific audit equipment used and certification dates. Copies of standards certifications for the equipment used in the audit are provided in Appendix C.

Table 3-1

Audit Equipment

References	Manufacturer	Model Number	Serial Number	Recertification Date
O_3	API	700E	734-S	1/10/2009
Gas Dilution	API	700E	734-S	9/03/2008
SO_2 (29.35 ppm)	Scott Marrin	--	JJ686	11/16/2008
NO (30.8 ppm)	--	--	JJ686	11/16/2008
Zero Air Source	Sabio	1001P	10071550	N/A
High Vol Cal Orifice	Graseby	G28	C368	12/31/2008
Digital Voltmeter	Fluke	8060A	4735610	1/10/2009
Wind Speed	R.M. Young	18810	21181	1/04/2009
Bearing Torque	R.M. Young	18312	N/A	N/A
Temperature	Alpha Technics	4600	101610	1/03/2009
Relative Humidity	Rotronics	Hygroclip	95915	9/28/2009
Solar Radiation	Eppley	PSP	29387F3	1/09/2009

4.0 AUDIT RESULTS

Detailed Basin NextGen Project monitoring system audit results of continuous gaseous analyzers and particulate samplers are provided in Tables 4-1 and 4-2, respectively. The standards comparison is shown on Table 4-3. Detailed audit results of meteorological parameters are provided in Tables 4-4 through 4-6. Audit findings and recommendations are discussed below.

4.1 AUDIT FINDINGS

Performance Audit Results

- None.

System Audit Results

- None.

Table 4-1
Summary of Audit Findings
Continuous Gaseous Parameters
Basin NextGen Project
Gettysburg, South Dakota
June 11, 2008

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	ppm Difference	Accuracy Goal (±) * (± ppm)	Percent Difference (± 15%)	Within Accuracy Goal
Ozone - Parts Per Million								
Analyzer	TEI	0517812012	0.000	-0.001	-0.001	0.007	NA	NA
			0.435	0.437	0.002	0.030	0.5	Y
Slope = 0.997748	Correlation = 0.999978		0.239	0.243	0.004	0.017	1.8	Y
Intercept = 0.003597	Mean % = 1.94		0.077	0.079	0.003	0.007	3.5	Y
			0.000	0.000	0.000	0.007	N/A	NA
Sulfur Dioxide - Parts Per Million								
SO_2	TEI	29727-236	0.000	0.002	0.002	0.015	NA	NA
			0.460	0.472	0.012	0.069	2.5	Y
Slope =1.031871	Correlation =0.999998		0.205	0.209	0.004	0.031	2.0	Y
Intercept =-0.002942	Mean % =1.4		0.092	0.092	0.000	0.015	-0.3	Y
			0.000	0.000	0.000	0.015	NA	NA
			0.000	0.000	0.000	0.015	NA	NA
Oxides of Nitrogen - Parts Per Million								
NO	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.457	0.466	0.009	0.069	1.9	Y
Slope =1.01745	Correlation =0.999999		0.203	0.207	0.004	0.030	2.2	Y
Intercept = 0.000701	Mean =2.3		0.091	0.094	0.003	0.015	2.7	Y
			0.000	0.000	0.000	0.015	NA	NA
NO_x	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.457	0.464	0.007	0.069	1.5	Y
Slope =1.014459	Correlation =0.999999		0.203	0.206	0.003	0.030	1.5	Y
Intercept = 0.000185	Mean =1.7		0.091	0.093	0.002	0.015	2.0	Y
			0.000	0.000	0.000	0.015	NA	NA
NO_2	TEI	70181-365	0.000	-0.002	-0.002	0.015	NA	NA
			0.401	0.411	0.011	0.060	2.6	Y
Slope =1.033298	Correlation =0.999937		0.180	0.186	0.006	0.027	3.3	Y
Intercept = -0.002304	Mean =-2.2		0.086	0.085	-0.002	0.015	-2.2	Y
Converter Efficiency =	101.7%		0.454	0.000	-0.454	0.068	NA	NA

* Continuous analyzer accuracy goals are +/- 10.0% of observed. Accuracy goals were taken from 40 CFR, Part 58, Appendix B, Quality Assurance Requirements for Prevention of Significant Deteriorations (PSD) Air Monitoring. All units are in parts per million (ppm).

Table 4-2
Summary of Audit Findings
Particulate Parameters
Basin NextGen
Gettysburg, South Dakota
June 10, 2008

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	Observed		Accuracy Goal (±) * (+ 10%)	Percent Difference	Within Accuracy Goal
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 1	Graseby	985						
		Audit Flows	40.7	40.0		10.0	-1.7	Y
		Design Flow	40.0	41.2		10.0	3.3	Y
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 2	Graseby	986						
		Audit Flows	40.4	39.9		10.0	-1.3	Y
		Design Flow	40.0	40.9		10.0	2.4	Y

* PM_{10} sampler accuracy goals are ± 10.0% of observed audit flow, and ± 10.0% of design flow. Accuracy goals were taken from 40 CFR, Part 58, Appendix B, "Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring."
All units are in cubic feet per minute (CFM).

Table 4-3
Summary of Audit Findings
Standards Comparisons
Basin NextGen
Gettysburg, South Dakota
June 10, 2008

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Audit (ppm)		DAS In-Station (ppm)	Percent Difference (+ 15%)	Within Accuracy Goal
NO	API	482	0.000	0.000		0.000	NA	N/A
			0.457	0.466		0.450	-3.4	Y
			0.091	0.094		0.090	-4.8	Y
SO_2	API	482	0.000	-0.002		-0.001	NA	N/A
			0.460	0.472		0.450	-4.7	Y
			0.092	0.092		0.092	0.2	Y

Table 4-4
Summary of Audit Findings
Meteorological Parameters
(Wind Speed, Wind Direction)
Basin NextGen
Gettysburg, South Dakota
June 10, 2008

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Wind Speed (100m) - Meters Per Second							
0 RPM	Climatronics	2915	0.2	0.2	0.5	0.0	Y
300 RPM			16.1	16.1	1.3	0.0	Y
900 RPM			47.3	47.7	2.9	0.4	Y
1500 RPM			78.5	79.2	4.5	0.7	Y
Wind Speed (50m) - Meters Per Second							
0 RPM	Climatronics	2920	0.2	0.3	0.5	0.1	Y
300 RPM			16.1	16.1	1.3	0.0	Y
900 RPM			47.3	47.6	2.9	0.3	Y
1500 RPM			78.5	79.2	4.5	0.7	Y
Wind Speed (10m) - Meters Per Second							
0 RPM	Climatronics	2911	0.2	0.3	0.5	0.1	Y
300 RPM			16.1	16.1	1.3	0.0	Y
900 RPM			47.3	47.5	2.9	0.2	Y
1500 RPM			78.5	79.1	4.5	0.6	Y
Vertical Wind Speed (100m) - Meters Per Second							
0	R.M. Young	295	0.0	0.1	0.2	0.1	Y
300 RPM CW			1.9	1.9	0.3	0.0	Y
300 RPM CCW			-1.9	-1.9	-0.3	0.0	Y
900 RPM CW			5.6	5.6	0.5	-0.1	Y
900 RPM CCW			-5.6	-5.7	-0.5	0.0	Y
Vertical Wind Speed (50m) - Meters Per Second							
0	R.M. Young	296	0.0	0.0	0.2	0.0	Y
300 RPM CW			1.9	1.9	0.3	0.0	Y
300 RPM CCW			-1.9	-1.9	-0.3	0.0	Y
900 RPM CW			5.6	5.7	0.5	0.1	Y
900 RPM CCW			-5.6	-5.7	-0.5	0.0	Y
Vertical Wind Speed (10m) - Meters Per Second							
0	R.M. Young	297	0.0	0.1	0.2	0.1	Y
300 RPM CW			1.9	2.0	0.3	0.1	Y
300 RPM CCW			-1.9	-1.8	-0.3	0.1	Y
900 RPM CW			5.6	5.7	0.5	0.1	Y
900 RPM CCW			-5.6	-5.6	-0.5	0.0	Y
Wind Direction (100m) - Degrees True							
To Mark 1	Climatronics	2925	185	187	5	2.3	Y
From Mark 1			5	4	5	-0.6	Y
To Mark 2			254	256	5	1.6	Y
From Mark 2			74	76	5	1.9	Y
Wind Direction (50m) - Degrees True							
To Mark 1	Climatronics	2936	185	184	5	-1.5	Y
From Mark 1			5	3	5	-2.2	Y
To Mark 2			254	254	5	0.1	Y
From Mark 2			74	73	5	-0.7	Y
Wind Direction (10m) - Degrees True							
To Mark 1	Climatronics	2931	185	184	5	-1	Y
From Mark 1			5	3	5	-2	Y
To Mark 2			254	255	5	1	Y
From Mark 2			74	73	5	-2	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-5
Summary of Audit Findings
Meteorological Parameters
(Delta Temperature, Temperature, Relative Humidity,
Solar Radiation, Precipitation, Barometric Pressure)
Basin NextGen
Gettysburg, South Dakota
June 10, 2008

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Delta Temperature (100m - 55m)							
Ice Bath	Climatronics	4947-4945	0.00	0.03	0.10	0.03	Y
Ambient Bath			0.00	-0.04	0.10	-0.04	Y
Hot Bath			0.00	-0.07	0.10	-0.07	Y
Delta Temperature (100m - 2m)							
Ice Bath	Climatronics	4947-4945	0.00	0.00	0.10	0.00	Y
Ambient Bath			0.00	0.00	0.10	0.00	Y
Hot Bath			0.00	0.00	0.10	0.00	Y
Delta Temperature (50m - 2m)							
Ice Bath	Climatronics	4943-4945	0.00	-0.03	0.10	-0.03	Y
Ambient Bath			0.00	0.03	0.10	0.03	Y
Hot Bath			0.00	0.07	0.10	0.07	Y
Delta Temperature (10m - 2m)							
Ice Bath	Climatronics	4948-4945	0.00	0.03	0.10	0.03	Y
Ambient Bath			0.00	0.01	0.10	0.01	Y
Hot Bath			0.00	0.01	0.10	0.01	Y
Temperature (2m)							
Ice Bath	Climatronics	4945	0.01	0.08	0.50	0.07	Y
Ambient Bath			25.16	25.02	0.50	-0.14	Y
Hot Bath			48.60	48.40	0.50	-0.20	Y
Relative Humidity							
Average	Vaisala	A1320004	61.40	59.17	10.00	-2.23	Y
Solar Radiation							
Average	Eppley	17696	160.4	166.3	3.70	6.0	Y
Precipitation							
Average	Met One	F7976	0.25	0.25	0.03	0.00	Y
Barometric Pressure							
Average	Setra	2500480	702.6	701.5	3.00	-1.1	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-6
Summary of Audit Findings
Wind Sensor Torque Values
Basin NextGen
Gettysburg, South Dakota
June 10, 2008

Sensor	Maximum Torque*	Audit Value	Accuracy Goal	Within Accuracy Goal
100 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.1	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	3.0	7.0	Y
50 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.1	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y
10 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.1	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y

* Torque accuracy goals were obtained from the sensor manufacturers specifications

APPENDIX A

AUDIT DATA FORMS

Air Resource Specialists, Inc.

OZONE AUDIT

Date: 6/11/2008 Network: NextGen Site: Basin NextGen Auditor: M. H. Valvur

Site Analyzer Mfg: TEI Model: 49c S/N: 0517812012 Last Certification Date: 4/23/2008

Site Reference Mfg: TEI Model: 49 TS S/N: 33799-246 Last Certification Date: 4/23/2008

Audit O3 Mfg: API 700E Model: 700E S/N: 734-S Recalibration Date: 1/10/09

Frequency A: Frequency B: A Flow: 0.654 B Flow:

Zero Air Mfg: Sabio Model: 1001P S/N: 10071550 Maintenance Due Date: N/A

AUDIT REFERENCE		STATION ANALYZER			STATION REFERENCE		
Audit Point	Input Conc. (ppm)	DAS Reading	Recorder Reading	%Difference Ref.vs.Analyzer	DAS Reading	Recorder Reading	%Difference Ref.vs.SiteRef.
Zero	0.000	-0.001	N/A	NA	0.000	N/A	N/A
1	0.435	0.437	N/A	0.5	0.432	N/A	-0.7
2	0.239	0.243	N/A	1.8	0.239	N/A	0.0
3	0.077	0.079	N/A	3.5	0.076	N/A	0.0
4			N/A	N/A		N/A	N/A

STATION REFERENCE CHECK					
Station Reference			Station Analyzer		
Cal. Point	Display Reading	Recorder Reading	DAS Reading	Recorder Reading	% Difference Ref. vs Analyzer
1					
2					
3					
4					

LINEAR REGRESSION*			
Station Analyzer		Station Reference	
Slope	0.997748	Slope	0.991447
Intercept	0.003597	Intercept	0.001140
Correlation	0.999978	Correlation	0.999990
Average % Difference	1.9	Average % Difference	-0.2

REMARKS:

*Regression results are calculated from audit points zero, 1, 2, and 3.

Signature:

GAS DILUTION AUDIT

SO_2

Date: 6/11/2008 Network: NextGen Site: Basin NextGen Auditor: M. H. Valvur

Instrument: TECO Model: 43A S/N: 29727-236 Last Certification Date: 4/23/2008

Dilution System Mfg: API 700E S/N: 734-S Recalibration Date: 9/3/2008

Z Air Mod: Sabio S/N: 10071550 Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 29.35 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results

MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999935	0.994993	-0.079015
Gas 1	0.999929	0.992784	0.000449
Gas 2			

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed SO2 DAS	Observed SO2 Recorder	% Diff.
Zero	0.000	4974.9	0.000	5000.00	0.00	0.002	0.0	NA
1	0.460	4974.9	79.038	5000.00	79.61	0.472	94.0	2.5
2	0.205	4974.9	34.916	5000.00	35.17	0.209	36.0	2.0
3	0.092	6964.9	21.853	7000.00	22.01	0.092	16.0	-0.3
4		8158.9	0.000	8200.00	0.00		8.0	NA
5								NA

Linear Regression Results*

Slope (m)	1.031871
Intercept (b)	-0.002942
Correlation (r)	0.999998
Average % difference	1.4

* Regression results are calculated from audit points zero, 1, 2, and 3.

Station Reference Check

Point	(ppm)	Audit	In-Station	Ref. vs. Analyzer
1	0.000	-0.002	-0.001	NA
2	0.460	0.472	0.450	-4.7
3	0.092	0.092	0.092	0.2

Concentration (ppm): 31.3

Recalibration Date: 2/12/2010

Remarks:

Signature:

GAS DILUTION AUDIT

$NO/NO_2/GPT$

Date: 6/11/2008 Network: NextGen Site: Basin NextGen Auditor: M. H. Valvur

Instrument: TECO Model: 42 S/N: 70181-365 Last Certification Date: 4/23/2008

Dilution System Mfg: API 700E S/N: 734-S Recalibration Date: 9/3/2008

Z Air Mod: Sabio S/N: 10071550 Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 30.80 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results			
MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999935	0.994993	-0.079015
Gas 1	0.999929	0.992784	0.000449
Gas 2			

NO Audit

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed NO DAS	Observed NO Recorder	Observed NO % Diff.	Observed NOX DAS	Observed NOX Recorder	Observed NOX % Diff.	Observed NO_2 DAS	Observed NO_2 Recorder
Zero	0.000	5969.9	0.000	6000.00	0.00	0.000	0.0%	NA	0.000	N/A	NA	0.000	N/A
1	0.457	5969.9	89.715	6000.00	90.37	0.466	98	1.9	0.464	97	1.5	-0.001	0
2	0.203	5969.9	39.521	6000.00	39.81	0.207	37	2.2	0.206	38	1.5	-0.001	0
3	0.091	5969.9	17.652	6000.00	17.78	0.094	16	2.7	0.093	16	2.0	-0.001	0
4		5969.9	10.425	6000.00	10.50		8	NA		8	NA		0

Gas Phase Titration

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed NO DAS	Observed NO Recorder	Observed NO_X DAS	Observed NO_X Recorder	Observed NO_2 DAS	Observed NO_2 Recorder	Observed NO_2 % Difference
GPT Zero	0.000	5969.9	89.715	6000.00	90.37	0.462	96	0.463	N/A	-0.002	N/A	NA
GPT 1	0.401	5969.9	89.715	6000.00	90.37	0.054	24	0.465	96	0.411	N/A	2.6
GPT 2	0.180	5969.9	89.715	6000.00	90.37	0.279	66	0.463	96	0.186	N/A	3.3
GPT 3	0.086	5969.9	89.715	6000.00	90.37	0.374	78	0.460	96	0.085	N/A	-2.2
GPT 4	0.454	5969.9	89.715	6000.00	90.37		N/A		N/A		N/A	NA

Linear Regression*

	NO	NO_x	NO_2 GPT
Slope	1.017450	1.014459	1.033298
Intercept	0.000701	0.00019	-0.00230
Correlation	0.999999	0.999999	0.999937
Ave. % Diff.	2.3	1.7	-2.2

Catalytic Converter Efficiency: 101.7%

Signature: [signature]

Station Reference Check: Cyl. SN: JJ8689 Conc. 30.6 Recal Due 2/12/2010

Input Conc. ppm	DAS - NO Audit	DAS - NO In-Station	DAS - NO_X Audit	DAS - NO_X In-Station	DAS - NO_2 Audit	DAS - NO_2 In-Station	NO % difference Audit vs. In-Station
0.000	0.000	0.000	0.001	0.000	0.000	0.000	NA
0.457	0.466	0.450	0.464	0.449	-0.001	0.000	-3.4
0.091	0.094	0.090	0.093	0.090	-0.001	0.001	-4.8

Remarks: * Regression results are calcula bb

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 6/10/08 Time: 16:05

Sampler Model: Tisch S/N: 985

Pa: 702.6 mm Hg. Ta: 18.5 °C 291.65 K

Sampler No. PM_{10} #1

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1598 b = -0.016980 r = 0.999980

Sampler Calibration Relationship m = 9.9310 b = 0.282200 r = 0.990500

Orifice Pressure Drop (ΔH_2O): 4.20 in. H_2O Qa (audit)[a]: 1.15 m^3 / min, 40.71 ACFM

With Orifice Installed Without Orifice Installed

Sampler Pressure Drop (ΔH_2O): 21.97 in. H_2O 18.73 in. H_2O

Qa (Sampler)[b]: 1.134 m^3 / min, 40.04 ACFM 1.149 m^3 / min, 40.56 ACFM

Audit Flow Rate Percentage Difference[c]: -1.7 %

Qa (Corrected Sampler)[d]: 1.17 m^3 / min, 41.24 ACFM

Design Flow Rate Percentage Difference[e]: 3.35 %

[a] For calculation of audit orifice standard flow rates:

$$Qa\ (audit) = \{[\Delta(H_2O)(Ta / Pa)]^{1/2} - b\}\{1 / m\}$$

[b] For calculation of sampler flow rate:

$$Qa\ (Sampler) = \{[P1/Pa - b][Ta]^{1/2}\}\{1/m\}$$

[c] Audit % Difference = $\frac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\frac{[100 - \text{audit \% Difference}]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (\text{corrected sampler}) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 6/10/08 Time: 12:20

Sampler Model: Tisch S/N: 986

Pa: 702.6 mm Hg. Ta: 18.4 °C 291.55 K

Sampler No. PM_{10} #2

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1598 b = -0.016980 r = 0.999980

Sampler Calibration Relationship m = 10.6300 b = 0.238200 r = 0.995400

Orifice Pressure Drop (ΔH_2O): 4.13 in. H_2O Qa (audit)[a]: 1.14 m^3 / min, 40.37 ACFM

With Orifice Installed Without Orifice Installed

Sampler Pressure Drop (ΔH_2O): 22.19 in. H_2O 18.94 in. H_2O

Qa (Sampler)[b]: 1.129 m^3 / min, 39.86 ACFM 1.143 m^3 / min, 40.35 ACFM

Audit Flow Rate Percentage Difference[c]: -1.3 %

Qa (Corrected Sampler)[d]: 1.16 m^3 / min, 40.86 ACFM

Design Flow Rate Percentage Difference[e]: 2.41 %

[a] For calculation of audit orifice standard flow rates:

$$Qa\ (audit) = \{[\Delta(H_2O)\ (Ta / Pa)]^{1/2} - b\}\ \{1 / m\}$$

[b] For calculation of sampler flow rate:

$$Qa\ (Sampler) = \{[P1/Pa - b][Ta]^{1/2}\}\ \{1/m\}$$

[c] Audit % Difference = $\dfrac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\dfrac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\dfrac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

Basin NextGen Project
Meteorological Audit Results
100 METER LEVEL
June 10, 2008

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.2	0.0
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.7	0.4
1500 RPM	78.5	79.2	0.7
VERITCAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.09	0.09
300 RPM CW	1.88	1.86	-0.01
300 RPM CCW	-1.88	-1.91	-0.03
900 RPM CW	5.63	5.57	-0.05
900 RPM CCW	-5.63	-5.66	-0.04
WIND DIRECTION - Degrees True			
To Mark 1	185.0	187.3	2.3
From 1	5.0	4.4	-0.6
To Mark 2	254.0	255.6	1.6
From 2	74.0	75.9	1.9
DELTA TEMPERATURE - Degrees Celsius (100 - 50)			
Ice Bath	0.00	0.03	0.03
Ambient Bath	0.00	-0.04	-0.04
Hot Bath	0.00	-0.07	-0.07
DELTA TEMPERATURE - Degrees Celsius (100 - 2)			
Ice Bath	0.00		0.00
Ambient Bath	0.00		0.00
Hot Bath	0.00		0.00

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.1	0.1
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	3.0	3.0

Basin NextGen Project
Meteorological Audit Results
50 METER LEVEL
June 10, 2008

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.6	0.3
1500 RPM	78.5	79.2	0.7
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.00	0.00
300 RPM CW	1.88	1.91	0.03
300 RPM CCW	-1.88	-1.85	0.02
900 RPM CW	5.63	5.68	0.05
900 RPM CCW	-5.63	-5.65	-0.03
WIND DIRECTION - Degrees True			
To Mark 1	185.0	183.5	-1.5
From 1	5.0	2.8	-2.2
To Mark 2	254.0	254.1	0.1
From 2	74.0	73.3	-0.7
DELTA TEMPERATURE - Degrees Celsius (50 - 10)			
Ice Bath	0.00	-0.03	-0.03
Ambient Bath	0.00	0.03	0.03
Hot Bath	0.00	0.07	0.07

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.1	0.1
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
10 METER LEVEL
June 10, 2008

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.5	0.2
1500 RPM	78.5	79.1	0.6
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.12	0.12
300 RPM CW	1.88	1.96	0.09
300 RPM CCW	-1.88	-1.78	0.10
900 RPM CW	5.63	5.71	0.09
900 RPM CCW	-5.63	-5.60	0.03
WIND DIRECTION - Degrees True			
To Mark 1	185.0	184.4	-0.6
From 1	5.0	2.9	-2.1
To Mark 2	254.0	255.3	1.3
From 2	74.0	72.5	-1.5
DELTA TEMPERATURE - Degrees Celsius (10 - 2)			
Ice Bath	0.00	0.03	0.03
Ambient Bath	0.00	0.01	0.01
Hot Bath	0.00	0.01	0.01
Wind Sensor Torques			
Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.1	0.1
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
2 METER LEVEL
June 10, 2008

Parameter/Test	Ideal Response	DAS Response	Delta Units
TEMPERATURE - Degrees Celsius			
Ice Bath	0.0	0.1	0.1
Ambient Bath	25.2	25.0	-0.1
Hot Bath	48.6	48.4	-0.2
RELATIVE HUMIDITY - Percent			
Comparison 1	61.1	59.7	-1.4
Comparison 2	61.1	57.9	-3.2
Comparison 3	62.0	59.9	-2.1
Average	61.4	59.2	-2.2

Basin NextGen Project
Meteorological Audit Results
OTHER PARAMETERS
June 10, 2008

Parameter/Test	Ideal Response	DAS Response	Delta Units
SOLAR RADIATION - Watts Per Meter^2			
RUN 1	150.0	142.8	-7.2
RUN 2	254.9	269.6	14.7
RUN 3	76.2	86.6	10.4
Average	160.4	166.3	6.0
PRECIPITATION - Inches			
Comparison 1	0.25	0.25	0.00
Comparison 2			
Comparison 3			
Average	0.25	0.25	0.00
BAROMETRIC PRESSURE - Millimeters of Mercury			
Comparison 1	702.6	701.5	-1.1
Comparison 2			
Comparison 3			
Average	702.6	701.5	-1.1

APPENDIX B

RELEVANT FORMULAE

FOR COMPUTING NO_2 INPUT CONCENTRATION

Equations used to compute $[NO_2]_{OUT}$ and the $NO_2 \rightarrow NO$ converter efficiency are:

Equation 1 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} > 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM} + \frac{F_{NO} \times [NO_2]_{IMP}}{F_{NO} + F_O + F_D}$$

Equation 2 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} = 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM}$$

Equation 3 $[NO_2]_{CONV}$

$$[NO_2]_{CONV} = [NO_2]_{OUT} - ([NO_x]_{ORIG} - [NO_x]_{REM})$$

Equation 4 **Converter Efficiency**

Based on the slope (b) of a linear regression analysis of
$[NO_2]_{CONV}$ (y-axis) versus $[NO_2]_{OUT}$ (x-axis)
Converter efficiency % = $NO_2(_{CONV})$ x slope x 100

Where F_{NO} = flow rate of NO standard

F_O = flow rate of air through O_3 generator

F_D = flow rate of dilution air

$[NO]_{ORIG}$ = concentration of NO before O_3 is added during GPT

$[NO]_{REM}$ = concentration of NO after O_3 is added during GPT

$[NO]_{CONV}$ = quantity of NO_2 converted to NO

$$[NO]_{OUT} = \frac{F_{NO} \times [NO]_{std}}{F_{NO} + F_O + F_D}$$

APPENDIX C

AUDIT STANDARDS CERTIFICATIONS

Air Resource Specialists, Inc.

LAB O_3 CALIBRATION FORM

Date 1/10/2008 **Client** ARS **Tech.** J Faust

DVM Manufacturer Fluke **Model** 8060A

Last Certification Date 1/02/2008 **Serial Number** 4753610

Z Air Make Werther ARS **Model** Lab

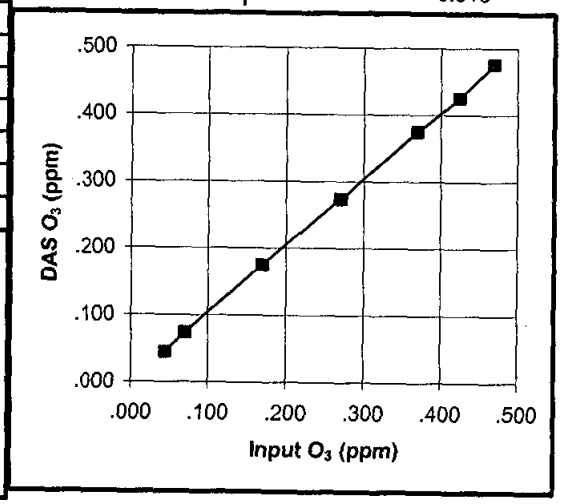
Serial Number 526280 N/A **Last Maintenance Date** 11/17/05

PRIMARY	
Last Cal. Date	9/6/2007
Manufacturer	TECO
Model	49C PS
Serial Number	75759-380
BKG / CO EFF	0 / 1.020
A Frequency	107508
B Frequency	101507
Flow	.588 / .547
Cell Temperature	34.5
Inst. Offset (ppm)	0

Instrument to be Calibrated	
Last Cal. Date	New
Manufacturer	API
Model	700E
Serial Number	734S
BKG / CO EFF	N/A
A Frequency	
B Frequency	
Flow	.682
Cell Temperature	36.3
Inst. Offset (ppm)	.000

Input Conc. (ppm)	Display Reading (ppm)		API O3 Disp	Error in ppm	Error Delta %
.470	.457		**.476**	.006	**01.3 %**
.425	.408		**.425**	.000	**00.0 %**
.370	.362		**.375**	.005	**01.4 %**
.270	.265		**.274**	.004	**01.5 %**
.170	.170		**.175**	.005	**02.9 %**
.070	.076		**.074**	.004	**05.7 %**
.045	.045		**.045**	.000	**00.0 %**
.000	.000		**.000**	.000	**N/A**

Slope	0.956453
Intercept	0.002413
Correlation	0.999962
Average Delta %	0.018



REMARKS:

Air Resource Specialists, Inc.

GAS DILUTION CALIBRATOR CALIBRATION FORM

Network:	Location:	Site: ARS LAB	Date: 06/03/08	Date of Last Site Visit: 01/16/08
				Field Specialist: Valvur, Martin

High Flow Standard Reference: BIOS, DC2	High Flow Standard Reference S/N: 2186	Calibration Date: 01/16/08
Low Flow Standard Reference: BIOS, DC2	Low Flow Standard Reference S/N: 1293	Calibration Date: 01/16/08

Mass Flow Device (Dilution Air)

Mfg: API	S/N: 234S	Range: 0 - 20 L
Calibration Gas: Air	This primary standard automatically corrects to standard flow.	

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1	1.947	2.006
2	3.942	4.02
3	5.923	6.021
4	7.805	8.028
5	9.9	10.029
6	14.9	15.013

Linear Regression		
Parameter	Air Flow Controller	Pass/Fail
Slope (m)	0.994993	N/A
Y Intercept (b)	-0.079015	N/A
Correlation Coefficient (r)	0.999935	PASS

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts - b) / m

Mass Flow Device (Gas 1)

Mfg: API	S/N: 734S	Range: 0 - 100 cc
Calibration Gas:	This primary standard automatically corrects to standard flow.	

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1	0.01024	0.01
2	0.03017	0.03
3	0.05052	0.0501
4	0.06496	0.0651
5	0.07546	0.0751
6	0.08447	0.0851

Linear Regression		
Parameter	Gas Flow Controller	Pass/Fail
Slope (m)	0.992784	N/A
Y Intercept (b)	0.000449	N/A
Correlation Coefficient (r)	0.999929	PASS

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts -b) / m

MFC/MFM Comments:	

SCOTT-MARRIN, INC.
6531 BOX SPRINGS BLVD. • RIVERSIDE, CA 92507
TELEPHONE (951) 653-6780 • FAX (951) 653-2430

REPORT OF ANALYSIS
EPA PROTOCOL GAS MIXTURES

AIRR01
TO: Air Resource Specialists Inc
Attn: Tara Porter
1901 Sharp Point Dr, Suite E
Fort Collins, CO 80525-4402
(970) 484-7941

DATE: December 1 2006

CUSTOMER ORDER NUMBER: A19425

COMPONENT	CONCENTRATION(v/v) ± EPA UNCERTAINTY	REFERENCE STANDARD	ANALYZER MAKE, MODEL, S/N, DETECTION	EXPIRATION DATE	REPLICATE ANALYSIS DATA
CYLINDER NO:	JJ686				
			CARLE INST MODEL 8000		11/16/06
Carbon monoxide	3030 ± 30 ppm	GMIS	S/N 8249	11/16/08	3030 ppm
		CYLINDER #:	METHANATION/FID		3040 ppm
		1L3312	GAS CHROMATOGRAPHY		3030 ppm
		@ 2528 ppm	LAST CAL DATE: 11/10/06	MEAN:	3030 ppm
			MONITOR LABS MODEL 8440		11/27/06
Nitric oxide	30.8 ± 0.2 ppm	GMIS	S/N 136	11/27/08	30.7 ppm
NOx	30.8 ppm	CYLINDER #:	CONTINUOUS		30.8 ppm
		CC28420	CHEMILUMINESCENCE		30.8 ppm
		@ 50.6 ppm	LAST CAL DATE: 11/22/06	MEAN:	30.8 ppm
			BOVAR MODEL 922M		11/29/06
Sulfur dioxide	29.35 ± 0.3 ppm	GMIS	S/N VD92284844	11/29/08	29.19 ppm
		CYLINDER #:	CONTINUOUS		29.28 ppm
O2-free Nitrogen	Balance	CC50772	UV PHOTOMETRY		29.27 ppm
CYLINDER PRESSURE:	1850 psig	@ 26.34 ppm	LAST CAL DATE: 11/07/06	MEAN:	29.25 ppm

ppm = µmole/mole % = mole-%

The above analyses were performed in accordance with Procedure G1 of the EPA Traceability Protocol, Report Number EPA-600/R97/121, dated September 1997.
This cylinder should not be used if the pressure is less than 150 psig.

ANALYST: M.J.MONSON APPROVED: J.T.MARRIN

The only liability of this company for gas which fails to comply with this analysis shall be replacement or reanalysis thereof by the company without extra cost.
STANDARD CALIBRATION GASES IN ALUMINUM CYLINDERS

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Dec 31, 2007 Rootsmeter S/N 9833620 Ta (K) - 291
Operator Tisch Orifice I.D. - C368 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2850	3.2	2.00
2	NA	NA	1.00	0.9120	6.3	4.00
3	NA	NA	1.00	0.8130	7.8	5.00
4	NA	NA	1.00	0.7750	8.6	5.50
5	NA	NA	1.00	0.6410	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0053	0.7823	1.4210		0.9957	0.7749	0.8813
1.0012	1.0978	2.0096		0.9916	1.0873	1.2464
0.9990	1.2288	2.2468		0.9895	1.2171	1.3935
0.9980	1.2878	2.3565		0.9885	1.2755	1.4615
0.9927	1.5487	2.8420		0.9833	1.5340	1.7626

Qstd slope (m) = 1.85224
intercept (b) = -0.02737
coefficient (r) = 0.99998

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Qa slope (m) = 1.15984
intercept (b) = -0.01698
coefficient (r) = 0.99998

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

MARGIN

SYPRIS®
TEST & MEASUREMENT

CALIBRATION CERTIFICATE

Certificate Number: 5100104632
CUSTOMER # 510773-0000

AIR RESOURCE SPECIALISTS

1901 SHARP POINT DRIVE
STE E
FT. COLLINS, CO 80525
ATTN: Denise Yates

Manufacturer: FLUKE
Model: 8060A
Description: DIGITAL MULTIMETER
Size / Range:
Serial Number: 4735610
Asset Number:
Department:
Accessories: NO ACCESSORIES RECEIVED

Calibration Date: 01/10/2008
Recommended Due: 01/10/2009
As Received: IN TOLERANCE
As Returned: IN TOLERANCE
Procedure: MANUFACTURER'S MNL
Environment: 23 DEG C 35 % RH
P.O. / Release: A20710
Sypris ID #: 4735610
Barcode ID: 51-2013772
Location:

This instrument has been processed and calibrated in accordance with the Sypris Test & Measurement Quality Assurance Manual and is traceable to the National Institute of Standards and Technology (NIST). The Sypris Test & Measurement quality system is registered to ISO 9001:2000 and compliant with ISO 10012-1, ISO/IEC 17025-2005, ANSI/NCSL Z540-1-1994, 10 CFR 50 App. B, 10 CFR 21, NQA-1, and MIL-STD-45662A. This report may not be reproduced, except in full, without written approval of Sypris Test & Measurement. Unless stated otherwise; the expanded measurement uncertainty of the measurement process does not exceed 25% of the tolerance allowed for the individual characteristics measured, uncertainties of measurements for this calibration are based upon 95% (2 sigma) confidence limits, no sampling plan or other process was used for this calibration, the results reported herein apply only to the calibration of the item described above and no limitations of use apply to the calibrated item. Although the item calibrated meets the specifications and performance at the time of calibration, due to any number of factors, the recommended due date of the item calibrated does not imply continuing conformance to specifications during the recommended interval.

Calibration Accuracy MANUFACTURER'S SPECIFICATIONS

Conditions/Analysis

DUE CALIBRATION
CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
PERFORMED PREVENTATIVE MAINTENANCE INSPECTION

STANDARDS USED

ID Number	Model Number	Cal Date	Due Date	Traceability Number
FL943	5520A	02/12/2007	02/12/2008	5100095321

1367
CERTIFIED BY

Access your Calibration Records Online at http://Calweb.Sypris.com

8020 SOUTHPARK CIRCLE SUITE 300, LITTLETON, CO 80120 303-798-2243

1367
INSPECTED BY

QA 47-33 (09/07)

Page 1 of ____

CERTIFICATE OF CALIBRATION AND TESTING

MODEL: **18801** (Comprised of Models 18820 Control Unit & 18830 Motor Assembly)
SERIAL NUMBER: 21181

R. M. Young Company certifies that the above equipment was inspected and calibrated prior to shipment in accordance with established manufacturing and testing procedures. Standards established by R.M. Young Company for calibrating the measuring and test equipment used in controlling product quality are traceable to the National Institute of Standards and Technology.

Nominal Motor Rpm	Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6,000	3200	6000	6000
8,100	4320	8100	8100
9,900	5280	9900	9900
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output.
(2) Frequency output produces 32 pulses per revolution of motor shaft.
(3) Indicated on the Control Unit LCD display.

* Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration Model: DP5740 SN: 4863

Date of inspection 4 JAN 2008
Inspection Interval One Year

Tested By EJC

Filename: CP18801(A).doc

SYPRIS®
TEST & MEASUREMENT

CALIBRATION CERTIFICATE

Certificate Number: 5100104638
CUSTOMER # 510773-0000

AIR RESOURCE SPECIALISTS

1901 SHARP POINT DRIVE
STE E
FT. COLLINS, CO 80525
ATTN: Denise Yates

Manufacturer: EUTECHNICS
Model: 4600
Description: THERMOMETER
Size / Range:
Serial Number: 99F101610
Asset Number:
Department:
Accessories: IN CASE

Calibration Date: 01/03/2008
Recommended Due: 01/03/2009
As Received: IN TOLERANCE
As Returned: IN TOLERANCE
Procedure: AFTO 33K5-4-212-1
Environment: 22 DEG C 19 % RH
P.O. / Release: A20691
Sypris ID #: 51-2036833
Barcode ID: 51-2036833
Location:

This instrument has been processed and calibrated in accordance with the Sypris Test & Measurement Quality Assurance Manual and is traceable to the National Institute of Standards and Technology (NIST). The Sypris Test & Measurement quality system is registered to ISO 9001:2000 and compliant with ISO 10012-1, ISO/IEC 17025-2005, ANSI/NCSL Z540-1-1994, 10 CFR 50 App. B, 10 CFR 21, NQA-1, and MIL-STD-45662A. This report may not be reproduced, except in full, without written approval of Sypris Test & Measurement. Unless stated otherwise; the expanded measurement uncertainty of the measurement process does not exceed 25% of the tolerance allowed for the individual characteristics measured, uncertainties of measurements for this calibration are based upon 95% (2 sigma) confidence limits, no sampling plan or other process was used for this calibration, the results reported herein apply only to the calibration of the item described above and no limitations of use apply to the calibrated item. Although the item calibrated meets the specifications and performance at the time of calibration, due to any number of factors, the recommended due date of the item calibrated does not imply continuing conformance to specifications during the recommended interval.

Calibration Accuracy *Manufacturer's Specifications*

Conditions/Analysis

DUE CALIBRATION
CALIBRATED TO MANUFACTURER'S SPECIFICATIONS USING DOD PROCEDURE
PERFORMED PREVENTATIVE MAINTENANCE INSPECTION

STANDARDS USED

ID Number	Model Number	Cal Date	Due Date	Traceability Number
HS04	5615-9	04/11/2007	04/11/2008	5100097863
1021500	ISO-CAL9000+	11/14/2007	11/14/2008	5100103593

1097
CERTIFIED BY

Access your Calibration Records Online at http://Calweb.Sypris.com

8020 SOUTHPARK CIRCLE SUITE 300, LITTLETON, CO 80120 303-798-2243

1097
INSPECTED BY

QA 47-33 (09/07)

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rotronic
instrument corp

160 E. Main Street, Huntington, NY 11743 • 631-427-3898 • FAX 631-427-3902 • 1-800-628-7101 • http://www.rotronic-usa.com

Certificate of Humidity Calibration

Nbr 25038

Model Hygroclip R **SN** 95915

Laboratory Conditions: 25.0 **Deg C** 40.0 **%RH**

This instrument was placed in a ventilated tunnel having a minimum air velocity of 180 Ft/min. and calibrated against two reference instruments.

Calibration of the reference instruments was both with saturated salt solutions and with a certified chilled mirror instrument, traceable to the National Institute of Standards and Technology (NIST). A certified, traceable thermometer was used to monitor temperature. The % RH values of the saturated salt solutions were taken from the tables published by the National Bureau of Standards (now NIST), L. Greenspan, Journal of Research, Vol. 81A, and January – February 1977. Details regarding calibration with saturated salt solutions may be found in ASTM standard E104-85.

Based on the above procedures, the accuracy of this instrument has been found to be as follows:

Reference %RH	Reading %RH	Correction %RH
0.5	0.5	0.0
11.0	11.0	0.0
35.0	35.0	0.0
80.0	80.0	0.0

By: Gary Boney
Rotronic Instrument Corp

Date 9/28/2007

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: info@eppleylab.com Internet: www.eppleylab.com

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STANDARDIZATION OF EPPLEY PRECISION SPECTRAL PYRANOMETER Model PSP

Serial Number: 29282F3

Resistance: 717 Ω at 23 °C
Temperature Compensation Range: -20 to 40 °C

This radiometer has been compared with Standard Precision Spectral Pyranometer, Serial Number 21231F3 in Eppley's Integrating Hemisphere under radiation intensities of approximately 700 watts meter^{-2} (roughly one half a solar conatant).

As a result of a series of comparisons, it has been found to have a sensitivity of:

7.61 x 10^{-6} volts/watts meter^{-2}

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 1400 watts meter^{-2}. This radiometer is linear to within ± 0.5% up to this intensity.

The calibration of this instrument is traceable to standard self-calibrating cavity pyrheliometers in terms of the Systems Internationale des Unites (SI units), which participated in the Tenth International Pyrheliometric Comparisons (IPC X) at Davos, Switzerland in September-October 2005.

Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy. Unless otherwise stated in the remarks section below or on the Sales Order, the results are "AS FOUND / AS LEFT".

Useful conversion facts: 1 cal cm^{-2} min^{-1} = 697.3 watts meter^{-2}
1 BTU/ft^2-hr^{-1} = 3.153 watts meter^{-2}

Shipped to:
Air Resource Specialists, Inc.
Fort Collins, CO

S.O. Number: 61453
Date: January 9, 2008

Date of Test: January 8, 2008

In Charge of Test: R. T. Eyman

Reviewed by: Thomas J. Kirk

Remarks:

U.S. Locations

AK, Anchorage
(907) 561-5700

AL, Birmingham
(205) 980-0054

AL, Florence
(256) 767-1210

CA, Alameda
(510) 748-6700

CA, Camarillo
(805) 388-3775

CA, Orange
(714) 973-9740

CA, Sacramento
(916) 362-7100

CO, Ft. Collins
(970) 493-8878

CO, Ft. Collins Tox Lab.
(970) 416-0916

CT, Stamford
(203) 323-6620

CT, Willington
(860) 429-5323

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FL, Tallahassee
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PA, Pittsburgh
(412) 261-2910

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TX, Dallas
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TX, Houston
(713) 520-9900

TX, San Antonio
(210) 296-2125

VA, Chesapeake
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VA, Glen Allen
(804) 290-7920

WA, Redmond
(425) 881-7700

WI, Milwaukee
(262) 523-2040

Headquarters
MA, Westford
(978) 589-3000

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About ENSR

ENSR, an AECOM company, is a leading worldwide environmental services firm. Founded in 1968, ENSR serves industrial companies and government agencies with consulting, engineering, remediation, and environmental health and safety solutions. ENSR is a recipient of the BP HSSE Diamond Award, Textron Environmental *Remediation Partner in Excellence Award*, and Environmental Business Journal awards. As an AECOM company, ENSR is part of a global design and management company with 29,000 employees worldwide serving the transportation, facilities, and environmental markets.

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