Prepared for:
Basin Electric, Inc.
South Dakota

Basin NextGen Project Ambient Air Quality and Meteorological Monitoring Program
Data Report April through June 2007

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ENSR Corporation
November 2007
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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 2007. 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.

	Measured Concentration		Standards NAAQS	
Parameter	**µg/m³**	**ppb**	**µg/m³**	**ppb**
NO_2				
1-hour Maximum	13	6.8	NS[1]	NS
Quarterly Mean	3	2.0	100[2]	50[2]
O_3				
1-hour Maximum	115	58.4	NS	NS
8-hour Maximum	101	52.0	157	80
SO_2				
1-hour Maximum	6	2.2	NS	NS
3-hour Maximum	2	<1	1,300	500
24-hour Maximum	<1	<1	365	140
Quarterly Mean	<1	<1	80[2]	30[2]
PM_{10}				
24-hour Maximum	36.8	NA[3]	150	NA
Quarterly Mean	18.8	NA	50	NA

[1]NS = No Standard.
[2]Quarterly mean concentrations are compared to annual NAAQS.
[3]NA = Not Applicable.
PM_{10} values are based upon primary sampler.
µg/m³ = micrograms per cubic meter.
ppb = parts per billion.
NO_2 = nitrogen dioxide.
O_3 = ozone.
SO_2 = sulfur dioxide.
CO = carbon monoxide.
PM_{10} = particulate matter with an aerodynamic diameter of 10 microns or less.
ppm = parts per million.

NAAQS Standards (µg/m³)									
	PM_{10}		NO_2	SO_2			CO		O_3
Annual Average		50	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150				365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

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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 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});
- 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 2007. 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 calibrations performed on July 12, 2007. Appendix D presents the complete and validated meteorological and air quality monthly data summarized by hour April through June 2007. Appendix E contains a copy of the 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
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

The Basin NextGen Project site was installed the last week in March 2007 and became fully operational on April 9, 2007. Analysis of gas and particulate parameters started April 5, 2007, but electrical problems to the meteorological tower prevented full data collection until April 9th.

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 Basin site presented some challenges during the first week of operation. Electrical problems from the tower to the station resulted in invalidating much of the first week's data. Ten meter wind speed and the 100m vertical wind speed both lost data on April 10th and 11th due to rime icing associated with precipitation and freezing temperatures.

The station ran well until June 6, when a catastrophic failure of the tower elevator system brought all tower instruments to the ground. The elevator cable was severed approximately 160 feet off the ground and appeared to be cleanly cut. Though we have no way of knowing why, a rifle bullet is our chief suspect. The station elevator and all instruments had to be rebuilt. Tower data collection was restored on June 16th.

The quarterly audit for April through June had been scheduled for the week of June 12 but had to be rescheduled to July 12, after the tower failure. A copy of the July 12 audit is submitted here and will be submitted with the July through September quarterly report. No problems were seen and all parameters were within U.S. Environmental Protection Agency (USEPA) specifications.

Representatives from the State of South Dakota visited the site on July 12 and were present for a portion of the audit.

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.

This report is presented in a calendar quarter fashion, starting April 1, 2007 and data capture rates presented here are reflective of that fact. Due to electrical problems during the first 2 weeks of April, and the tower cable failure on June 6, it is anticipated that in order to insure an annual 90 percent meteorological PSD data recovery rate that the 12 month modeling dataset will begin on April 15, 2007 and run through April 14, 2008. **Table 3-1** provides a summary of network performance by calendar 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 NextGen 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[1]	April[1]	April[1]	May	May	May	June[2]	June[2]	June[2]	Qtr[3]	Qtr[3]	Qtr[3]
10WS	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
10WD	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
10ST	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
50WS	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
50WD	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
50ST	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
100WS	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
100WD	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
100ST	720	517	71.8%	744	744	100.0%	720	468	65.0%	2184	1729	79.2%
10 VWS	720	594	82.5%	744	744	100.0%	720	468	65.0%	2184	1806	82.7%
50 VWS	720	592	82.2%	744	744	100.0%	720	468	65.0%	2184	1804	82.6%
100VWS	720	549	76.3%	744	744	100.0%	720	467	64.9%	2184	1760	80.6%
10SW	720	594	82.5%	744	744	100.0%	720	468	65.0%	2184	1806	82.7%
50SW	720	592	82.2%	744	744	100.0%	720	468	65.0%	2184	1804	82.6%
100SW	720	549	76.3%	744	744	100.0%	720	467	64.9%	2184	1760	80.6%
2mt	720	598	83.1%	744	744	100.0%	720	698	96.9%	2184	2040	93.4%
10mt	720	588	81.7%	744	744	100.0%	720	467	64.9%	2184	1799	82.4%
50mt	720	572	79.4%	744	744	100.0%	720	467	64.9%	2184	1783	81.6%
100mt	720	588	81.7%	744	744	100.0%	720	467	64.9%	2184	1799	82.4%
10-2dt	720	588	81.7%	744	744	100.0%	720	467	64.9%	2184	1799	82.4%
50-10dt	720	572	79.4%	744	744	100.0%	720	467	64.9%	2184	1783	81.6%
100-50dt	720	572	79.4%	744	744	100.0%	720	467	64.9%	2184	1783	81.6%
RH%	720	602	83.6%	744	744	100.0%	720	720	100.0%	2184	2066	94.6%
Sol w/m2	720	604	83.9%	744	744	100.0%	720	698	96.9%	2184	2046	93.7%
Precip.	720	606	84.2%	744	744	100.0%	720	720	100.0%	2184	2070	94.8%
Pressure	720	602	83.6%	744	744	100.0%	720	720	100.0%	2184	2066	94.6%
SO2	720	564	78.3%	744	703	94.5%	720	660	91.7%	2184	1927	88.2%
NO	720	564	78.3%	744	703	94.5%	720	660	91.7%	2184	1927	88.2%
NOx	720	654	90.8%	744	703	94.5%	720	660	91.7%	2184	2017	92.4%
NO2	720	564	78.3%	744	703	94.5%	720	660	91.7%	2184	1927	88.2%
O3	720	570	79.2%	744	708	95.2%	720	665	92.4%	2184	1943	89.0%
Stn T	720	601	83.5%	744	744	100.0%	720	698	96.9%	2184	2043	93.5%
PM10*	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.

[1]The 720 'possible hours' shown in April assumes that all data collection started April 1, 2007. In reality, electrical problems at the site prevented the station from full startup until April 9th. Gas data began collection on 4/5/07 and full tower meteorology began on 4/9/07.

[2]A catastophic failure of the elevator cable system brought all meteorological equipment to the ground on June 6, 2007. The elevator cable parted at the 160 foot level and appeared to be cleanly cut. Tower data was restored June 16. Rebuilding the tower took a total of 10.5 days to complete. During this time only the gas equipment and ground instruments were running.

[3]It is anticipated that in order to insure an annual 90 percent meteorological PSD data recovery rate that the final 12-month modeling dataset will begin on April 15, 2007 and will run through April 14, 2008.

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 2007.

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	1.8	4	2.0	3	1.4	3	2
	1-hour Maximum	8	4.0	13	6.8	7	3.5	13	7
SO_2	Average	<1	<1	<1	<1	<1	<1	<1	<1
	1-hour Maximum	<1	<1	3.7	1.4	5.8	2.2	5.8	2.2
	3-hour Maximum	<1	<1	2.1	<1	2.1	<1	2.1	<1
	24-hour Maximum	<1	<1	<1	<1	<1	<1	<1	<1
O_3	Average	70	35.5	64	32.4	60	30.8	65	33
	1-hour Maximum	114	57.9	115	58.4	103	52.3	115	58
	8-hour Maximum	101	51.7	101	51.7	90	46.0	101	52

ppb = parts per billion.

NAAQS Standards (µg/m³)									
	PM_{10}		NO_2	SO_2			CO		O_3
Annual Average		50	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150				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 2007

Parameter	Measured Concentration		Standards NAAQS	
	µg/m³	ppb	µg/m³	ppb
NO_2				
1-hour Maximum	13	6.8	NS[2]	NS
Quarterly Mean	3	1.7	100[3]	50[3]
O_3				
1-hour Maximum	115	58.4	NS	NS
8-hour Maximum	101	51.7	157	80
SO_2				
1-hour Maximum	6	2.2	NS	NS
3-hour Maximum	2	<1	1,300	500
24-hour Maximum	<1	<1	365	140
Quarterly Mean	<1	<1	80[3]	30[3]
PM_{10}				
24-hour Maximum	36.8	NA[4]	150	NA
Quarterly Mean	18.8	NA	50	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.

NAAQS Standards (µg/m³)									
	PM_{10}		NO_2	SO_2			CO		O_3
Annual Average		50	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150				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
Apr-07	1.8	0.5	1/4/00	564	720	78.3%
May-07	2.0	6.8	5/14/07	703	744	94.5%
Jun-07	1.4	3.5	6/9/07	660	720	91.7%

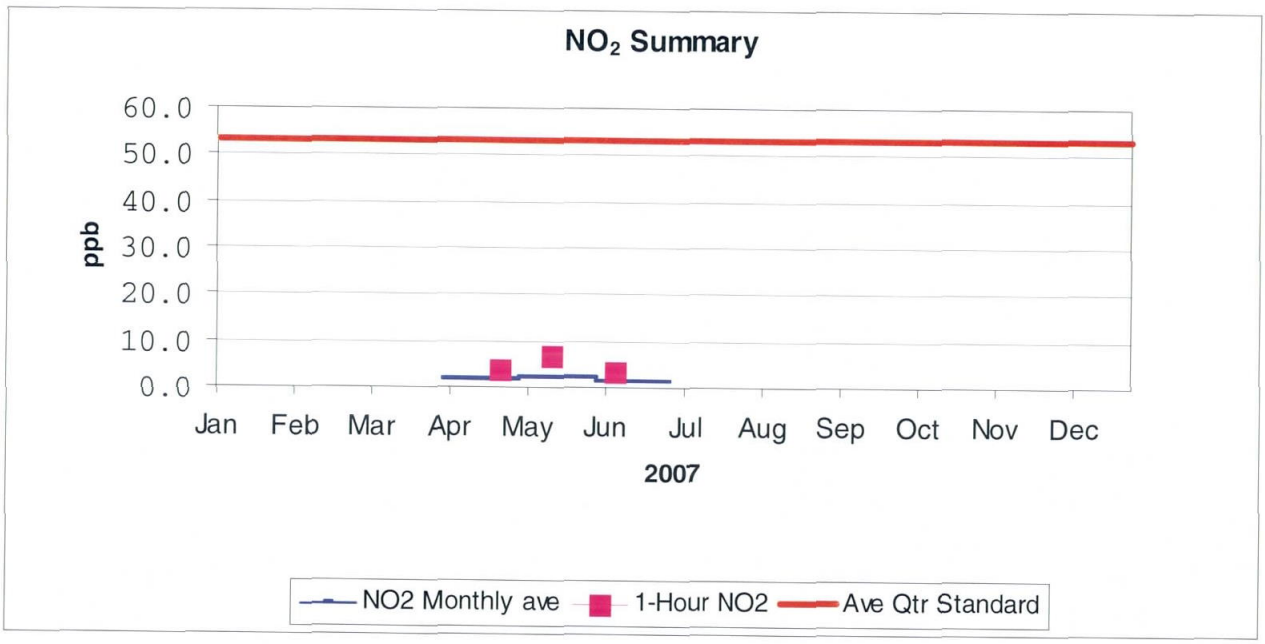

Figure 4-1 NO_2 Summary

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
Apr-07	<1	<1	4/5/07	<1	<1	564	720	78.3%
May-07	<1	1.4	5/22/07	<1	<1	703	744	94.5%
Jun-07	<1	2.2	6/21/07	<1	<1	660	720	91.7%

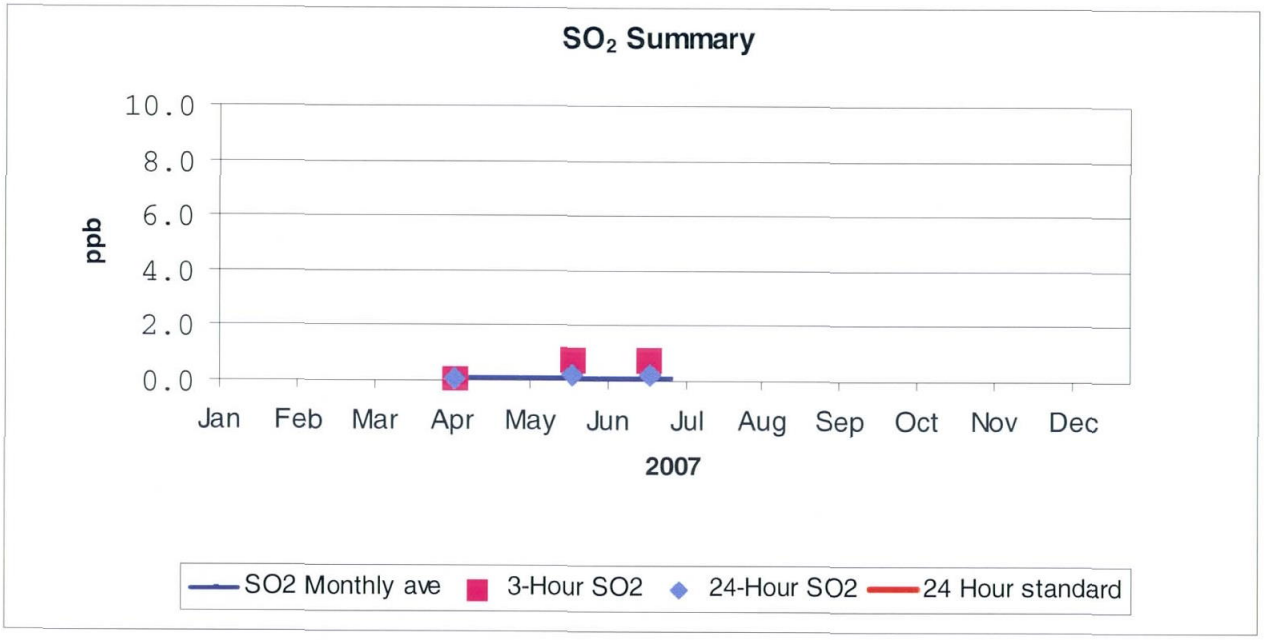

Figure 4-2 SO_2 Summary

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
Apr-07	36	58	4/8/07	52	4/26/07	570	720	79.2%
May-07	32	58	5/18/07	52	5/18/07	708	744	95.2%
Jun-07	31	52	6/16/07	46	6/25/07	665	720	92.4%

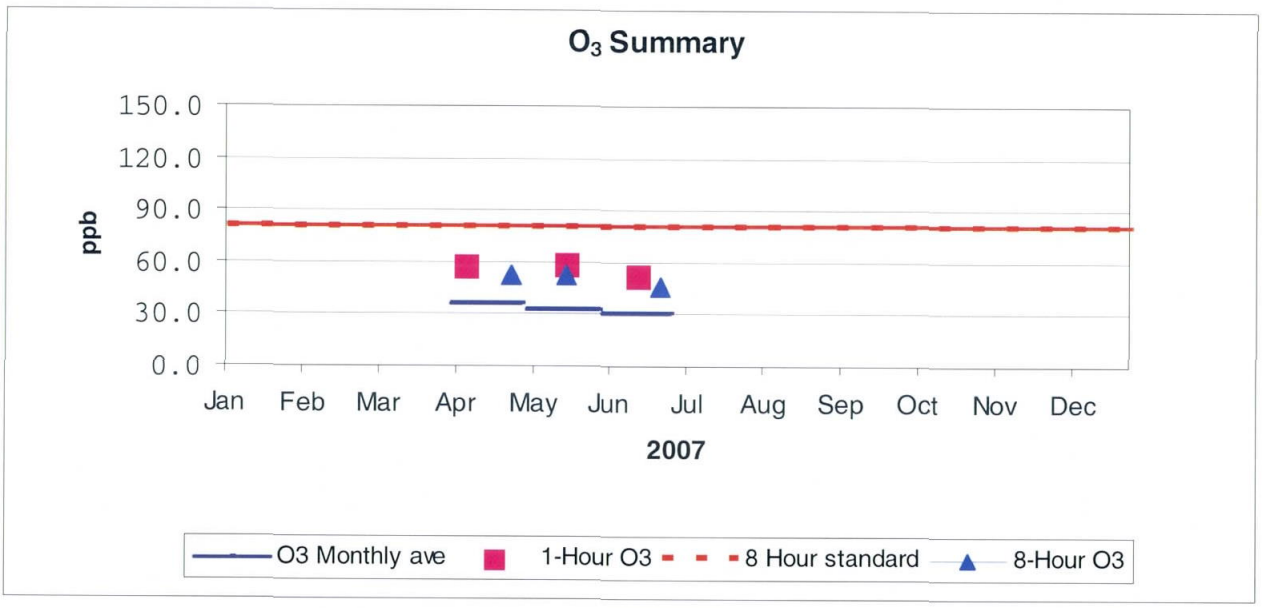

Figure 4-3 O_3 Summary

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 2007. 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 2007

Analyzer	N	Average Percent Difference (d_j)	Standard Deviation (S_j)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
SO_2	6	-5.4	0.9	-3.7	-7.0
NO_2	6	-0.6	1.4	2.1	-3.3
NO	6	-1.8	3.4	4.9	-8.5
O_3	6	-0.2	2.2	4.1	-4.5

4.1.2 Continuous Analyzer Accuracy Statistics

Accuracy statistics for the period April through June 2007 were determined from the quarterly network performance quality assurance audit, conducted by ARS on July 11-12, 2007. 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 2007

Date	Analyzer	Parameter	Accuracy (Percent)[1]		
			30 – 80 ppb	150 - 200 ppb	400 - 450 ppb
July 11-12, 2007*	TEI 42 SN: 70181-365	NO_X[1] NO[1] NO_2[1]	3.6 0.1 11.3	7.4 0.2 4.9	8.6 0.5 9.1
July 11-12, 2007*	TEI 43A SN: 29727-236	SO_2	-3.8	-8.5	6.8
July 11-12, 2007*	TEI 49 SN: 051781-2012	O_3	-7.4	-7.3	-1.4

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

*The quarterly audit for April through June was rescheduled to July 11-12, after the tower failure on June 6.

4.2 Particulate Data

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, 2007

	PM_{10} (µg/m^3)	
Date	***Primary***	***Collocated***
April 6, 2007	5.9	5.3
April 12, 2007	9.2	9.4
April 18, 2007	12.6	12.2
April 24, 2007	10.1	8.1
April 30, 2007	27.1	24.5
May 6, 2007	14.3	13.5
May 12, 2007	31.5	28.7
May 18, 2007	36.8	29.2
May 24, 2007	6.6	5.8
May 30, 2007	8.0	7.1
June 5, 2007	21.7	18.9
June 11, 2007	24.5	23.7
June 17, 2007	29.7	27.4
June 23, 2007	16.5	16.0
June 29, 2007	27.4	29.4
Quarterly Arithmetic Mean	**18.8**	**17.3**

Table 4-9 PM_{10} Sampler Monitoring Data

Date	Unit Designation	Filter Number	SCCM (µg/m³)	Delta Weight (g)	Initial Flow (SCCM)	Initial Flow (ACCM)	Final Flow (SCCM)	Final Flow (ACCM)	Time (min)	Comments
04/06/07	PM10 (Primary)	000005	**5.9**	0.0091	38.2	39.4	38.4	39.6	1410.0	
04/06/07	PM10 (Collocated)	000006	**5.3**	0.0090	41.5	42.8	41.8	43.1	1428.0	
04/12/07	PM10 (Primary)	000007	**9.2**	0.0141	38.4	39.6	38.3	39.4	1418.4	
04/12/07	PM10 (Collocated)	000008	**9.4**	0.0159	41.7	43.0	41.5	42.8	1432.8	
04/18/07	PM10 (Primary)	000009	**12.6**	0.0193	38.2	39.4	38.2	39.3	1416.6	
04/18/07	PM10 (Collocated)	000010	**12.2**	0.0205	41.5	42.8	41.4	42.7	1428.0	
04/24/07	PM10 (Primary)	000011	**10.1**	0.0155	38.5	39.7	38.1	39.3	1414.8	
04/24/07	PM10 (Collocated)	000012	**8.1**	0.0136	41.4	42.6	41.4	42.7	1426.8	
04/30/07	PM10 (Primary)	000013	**27.1**	0.0414	38.1	39.3	38.2	39.3	1413.0	
04/30/07	PM10 (Collocated)	000014	**24.5**	0.0408	41.3	42.6	41.3	42.6	1425.0	
05/06/07	PM10 (Primary)	000015	**14.3**	0.0218	38.1	39.3	38.1	39.3	1412.4	
05/06/07	PM10 (Collocated)	000016	**13.5**	0.0226	41.4	42.7	41.5	42.8	1425.0	
05/12/07	PM10 (Primary)	000017	**31.5**	0.0480	38.1	39.3	38.1	39.3	1413.6	
05/12/07	PM10 (Collocated)	000018	**28.7**	0.0481	41.3	42.6	41.4	42.7	1428.0	
05/18/07	PM10 (Primary)	000019	**36.8**	0.0560	38.2	39.4	38.1	39.3	1408.8	
05/18/07	PM10 (Collocated)	000020	**29.2**	0.0489	41.4	42.7	41.3	42.6	1430.4	
05/24/07	PM10 (Primary)	000021	**6.6**	0.0101	38.1	39.3	38.2	39.4	1413.0	
05/24/07	PM10 (Collocated)	000022	**5.8**	0.0097	41.4	42.6	41.5	42.8	1429.2	
05/30/07	PM10 (Primary)	000023	**8.0**	0.0122	38.2	39.4	38.1	39.3	1413.6	
05/30/07	PM10 (Collocated)	000024	**7.1**	0.0119	41.4	42.7	41.3	42.5	1426.2	
06/05/07	PM10 (Primary)	000025	**21.7**	0.0330	38.1	39.3	38.1	39.3	1413.0	
06/05/07	PM10 (Collocated)	000026	**18.9**	0.0318	41.6	42.9	41.6	42.9	1426.8	
06/11/07	PM10 (Primary)	000027	**24.5**	0.0375	38.3	39.5	38.4	39.5	1411.8	
06/11/07	PM10 (Collocated)	000028	**23.7**	0.0397	41.5	42.8	41.6	42.8	1425.0	
06/17/07	PM10 (Primary)	000029	**29.7**	0.0453	38.4	39.5	38.0	39.1	1411.8	
06/17/07	PM10 (Collocated)	000030	**27.4**	0.0460	41.6	42.9	41.6	42.8	1423.8	
06/23/07	PM10 (Primary)	000031	**16.5**	0.0252	38.2	39.4	38.4	39.6	1410.6	
06/23/07	PM10 (Collocated)	000032	**16.0**	0.0267	41.8	43.1	41.7	43.0	1411.8	
06/29/07	PM10 (Primary)	000033	**27.4**	0.0420	38.3	39.5	38.4	39.6	1411.8	
06/29/07	PM10 (Collocated)	000034	**29.4**	0.0495	41.6	42.9	41.6	42.9	1429.2	

Validated By RLT 7/18/07
Analyst DH 7/18/07

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 July 11-12, 2007. 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 2007

N	Average Percent Difference (d_i)	Standard Deviation (S_i)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
8	-7.3	8.2	8.7	-23.3

Table 4-11 Hi-vol Accuracy – Accuracy April through June 2007

Date	Station/ Sampler	Parameter	Units	Accuracy[1] (%)
July 11-12, 2007*	#1	PM_{10}	ACFM	2.5
July 11-12, 2007*	#2	PM_{10}	ACFM	1.5

[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.

*The quarterly audit for April through June was rescheduled to July 11-12, after the tower failure on June 6.

5.0 Meteorological Data Summary

At the Basin site, meteorological data is collected in accordance with USEPA Meteorological Monitoring Guidance for Regulatory 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 10m, 50m, and 100m. 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 100m, 50m, 10m and 2m 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, 10-2m, 100-50m, and 50-10m. 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 100m, 50m, and 10m. 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 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
Apr-07	5.5	17.2	04/19/07	0.8	04/17/07	497	720	69.0%
May-07	7.1	17.5	05/05/07	0.9	05/26/07	744	744	100.0%
Jun-07	5.6	16.4	06/18/07	0.7	06/27/07	468	720	65.0%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

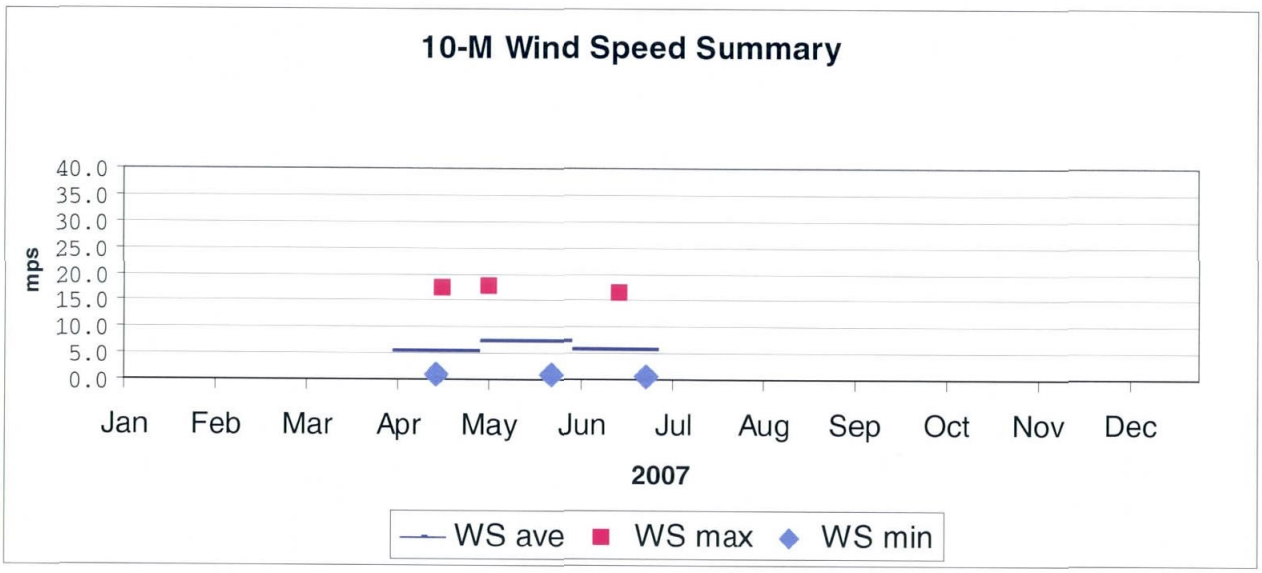

Figure 5-1 10-meter Wind Speed Summary

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
Apr-07	7.3	19.9	4/17/07	1.1	4/25/07	517	720	71.8%
May-07	8.9	23.2	5/5/07	1.4	5/8/07	744	744	100.0%
Jun-07	7.7	19.7	6/18/07	0.9	6/27/07	468	720	65.0%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

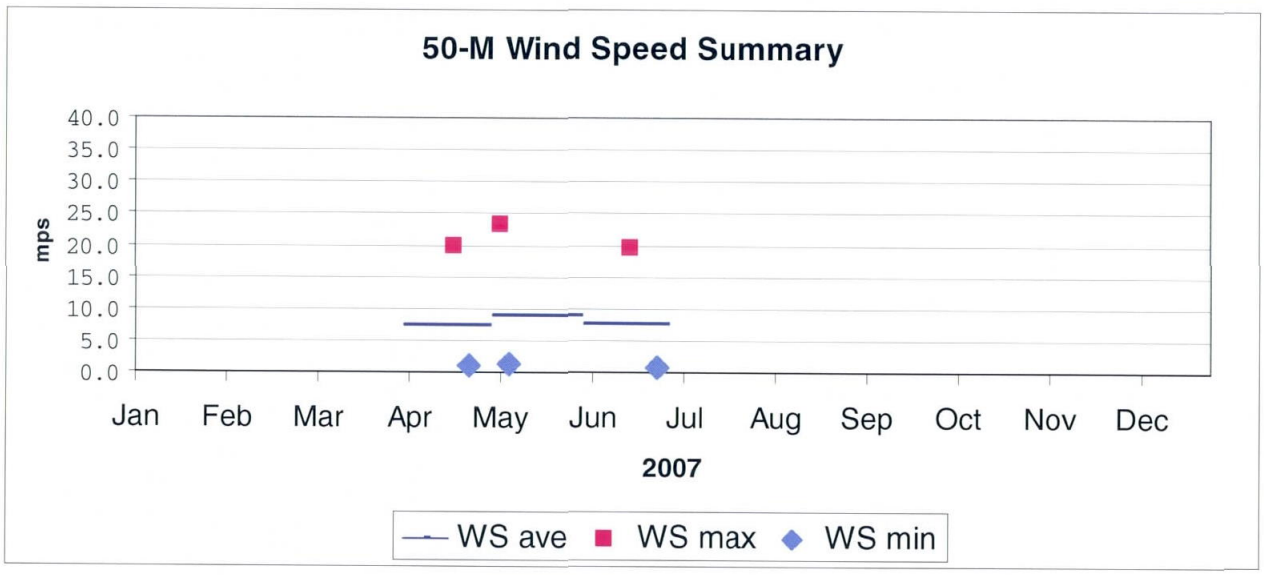

Figure 5-2 50-meter Wind Speed Summary

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
Apr-07	8.2	20.7	4/19/07	1.0	4/12/07	517	720	71.8%
May-07	10.0	26.3	5/5/07	1.0	5/8/07	744	744	100.0%
Jun-07	8.0	18.9	6/25/07	0.1	6/18/07	468	720	65.0%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

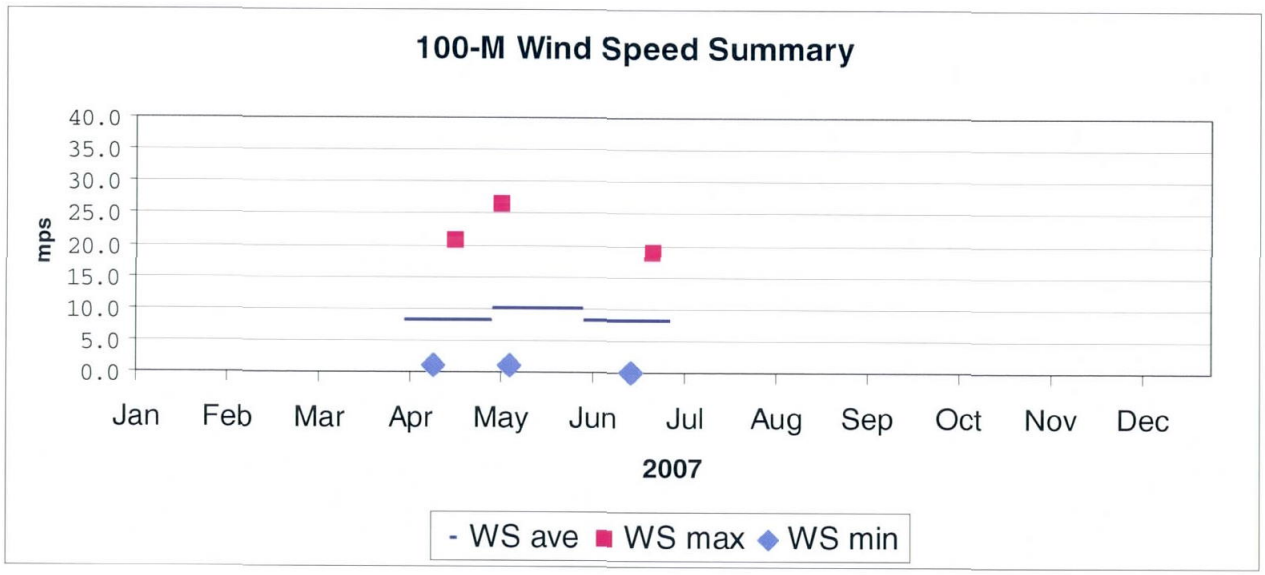

Figure 5-3 100-meter Wind Speed Summary

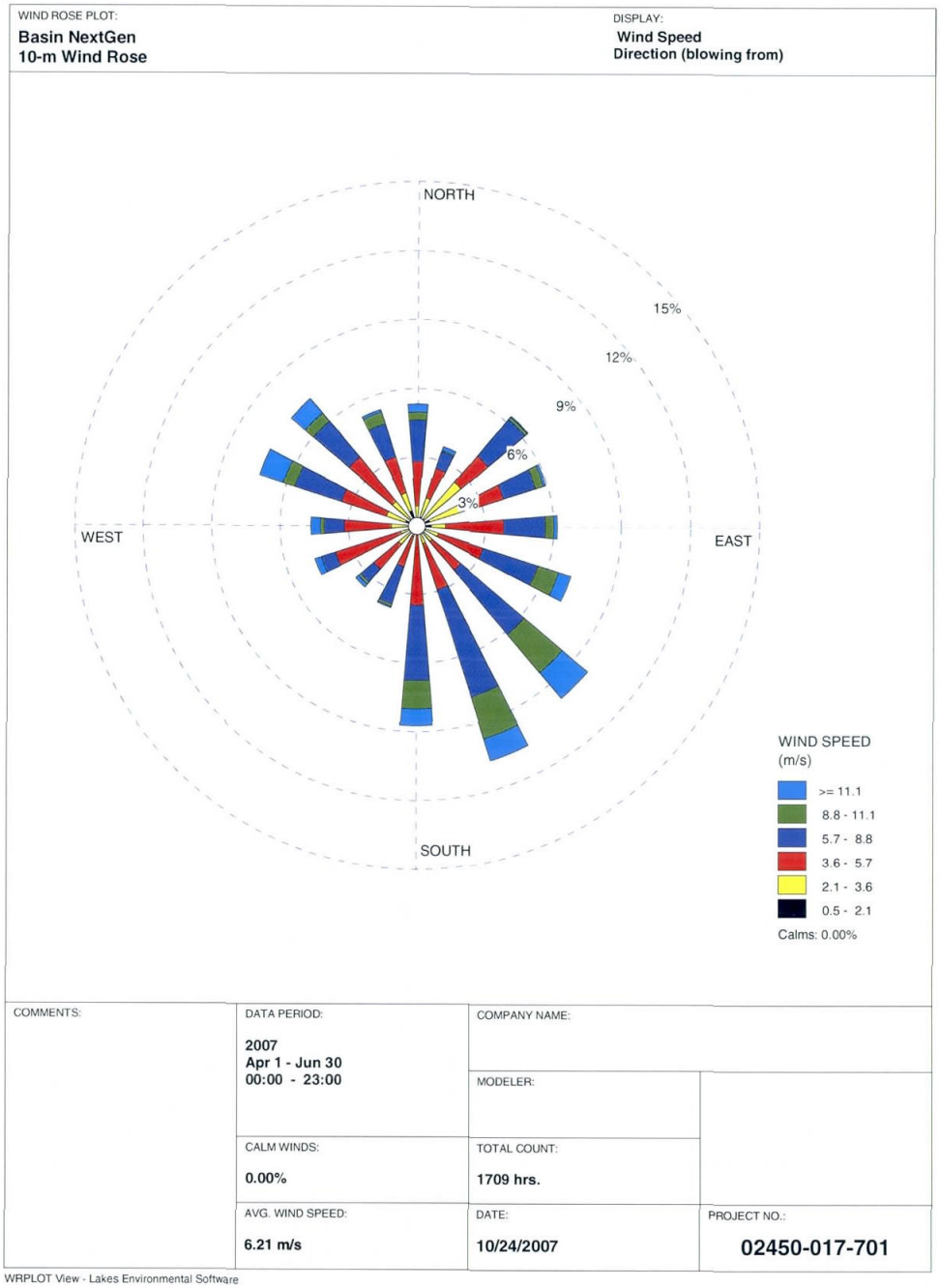

Figure 5-4 10-meter Wind Rose

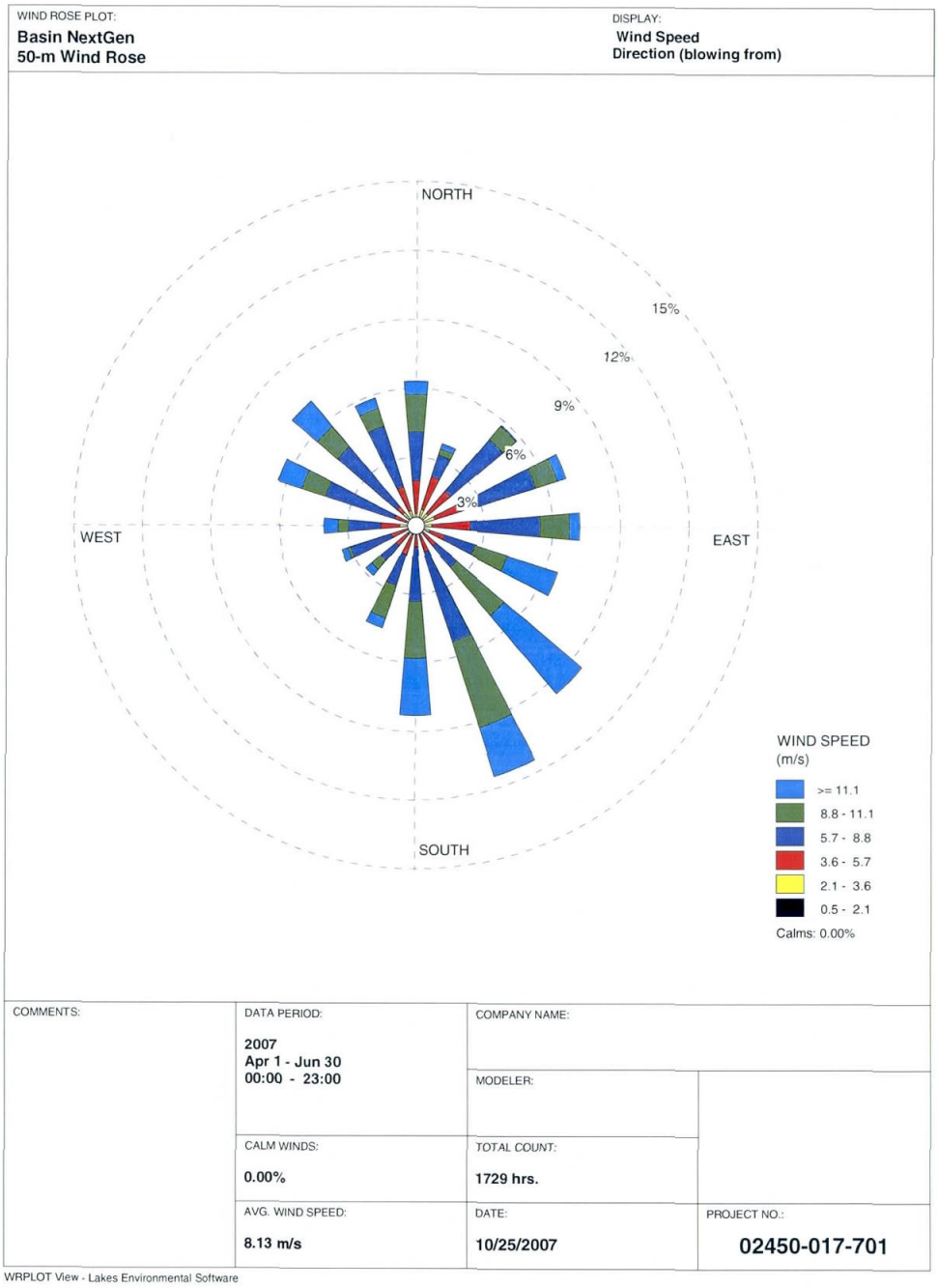

Figure 5-5 50-meter Wind Rose

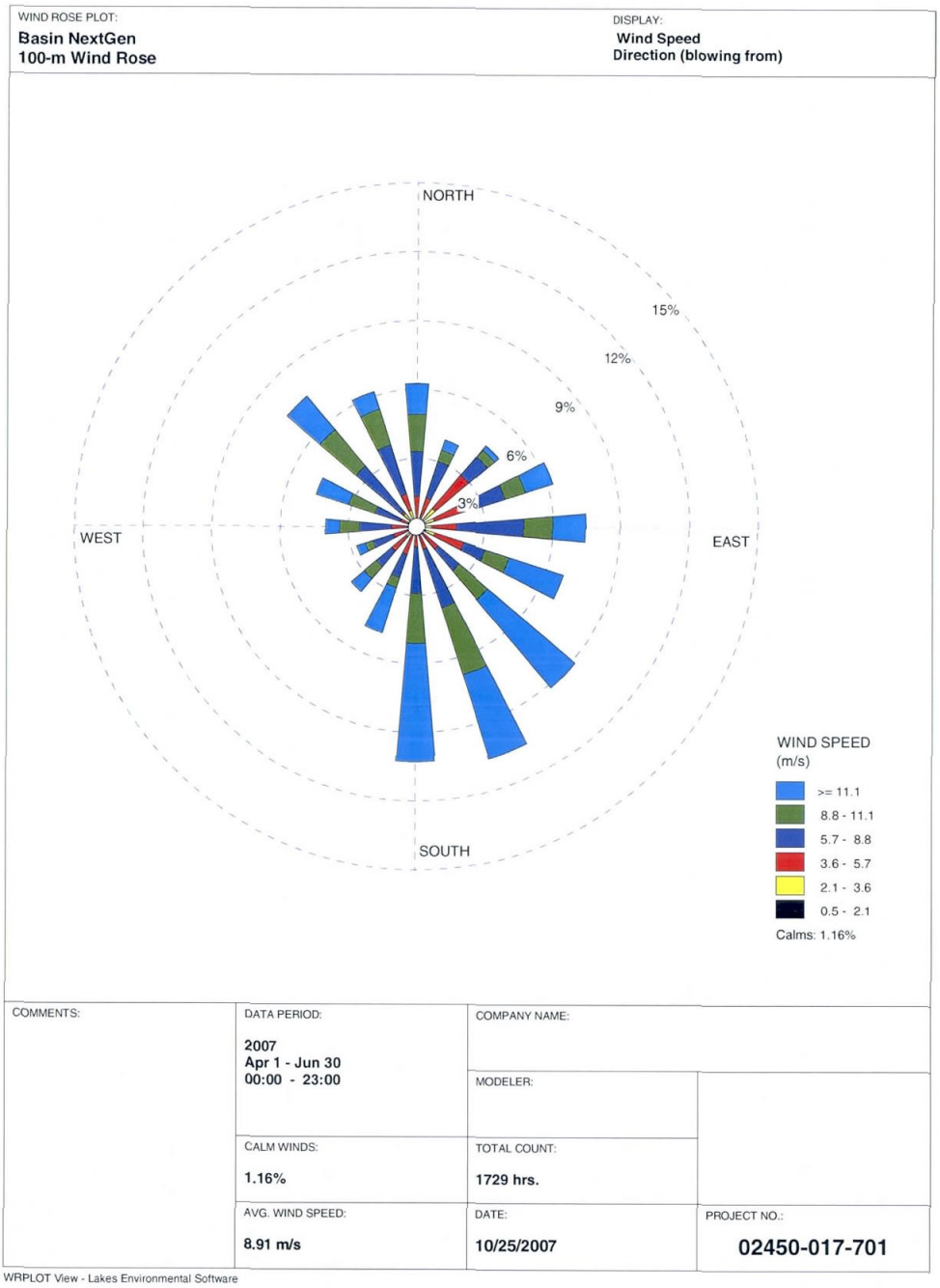

Figure 5-6 100-meter Wind Rose

Table 5-4 2-meter Temperature Summary

	WS Monthly Average deg C	WS Monthly Max deg C	Date Max Occurred	WS Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	7.1	26.4	4/28/07	-13.8	4/7/07	598	720	83.1%
May-07	14.7	32.1	5/13/07	1.8	5/17/07	744	744	100.0%
Jun-07	18.9	35.4	6/15/07	4.5	6/8/07	698	720	96.9%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

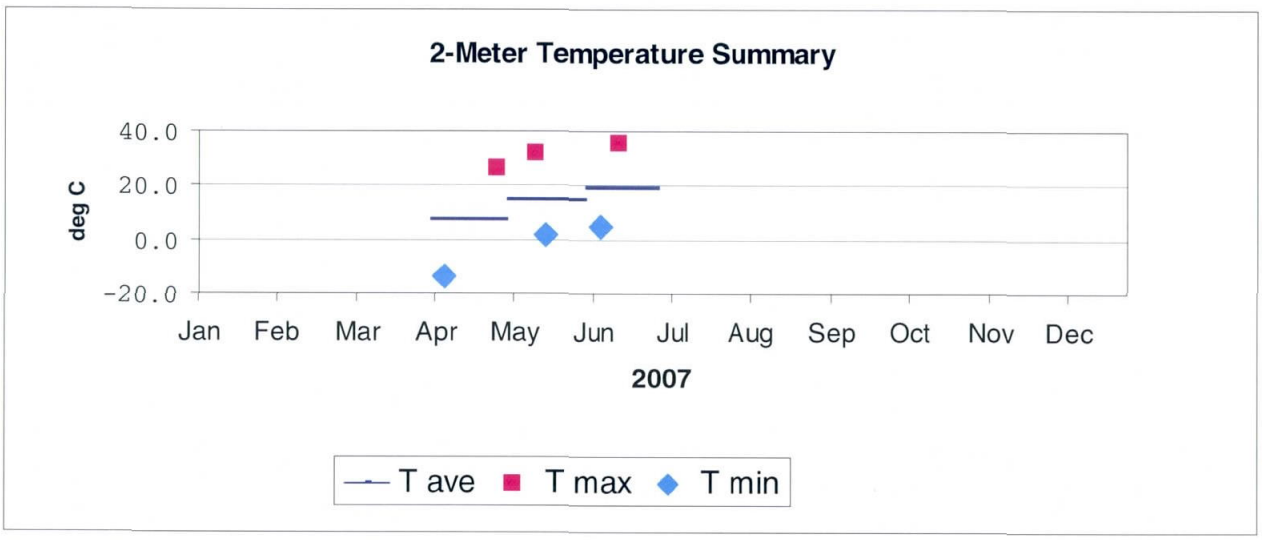

Figure 5-7 2-meter Temperature Summary

Table 5-5 10-meter 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
Apr-07	7.3	25.6	4/28/07	-13.5	4/7/07	588	744	79.0%
May-07	14.8	31.7	5/13/07	3.6	5/26/07	744	744	100.0%
Jun-07	19.4	31.8	6/25/07	8.3	6/28/07	467	672	69.5%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

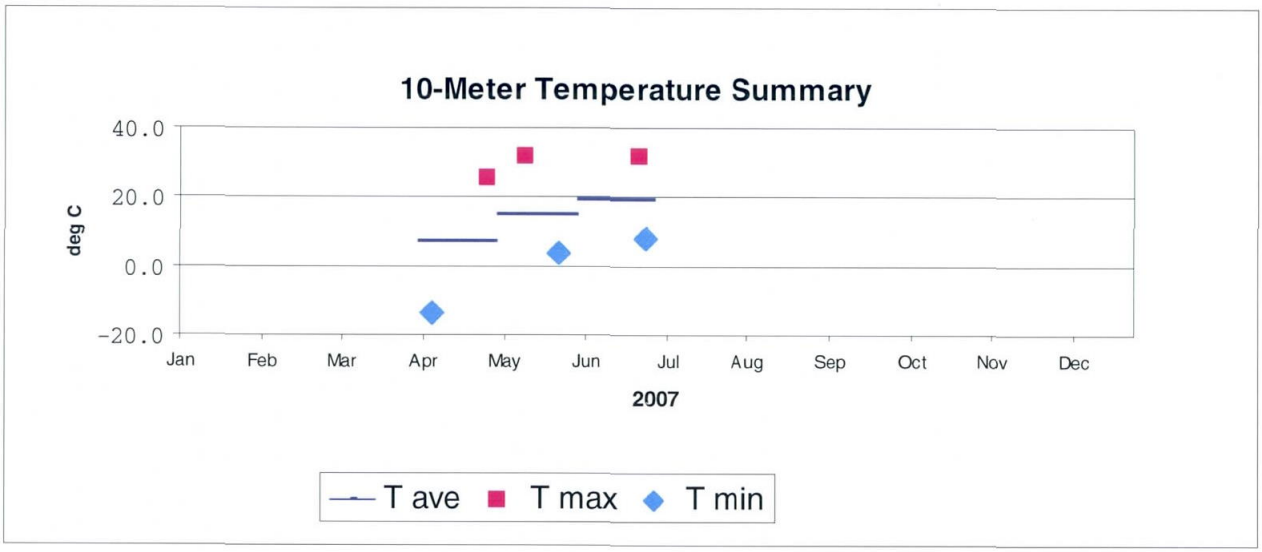

Figure 5-8 10-meter Temperature Summary

Table 5-6 50-meter 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
Apr-07	8.2	25.0	4/28/07	-12.8	4/7/07	572	744	76.9%
May-07	15.0	30.9	5/13/07	3.2	5/26/07	744	744	100.0%
Jun-07	19.6	31.6	6/25/07	8.5	6/28/07	467	672	69.5%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

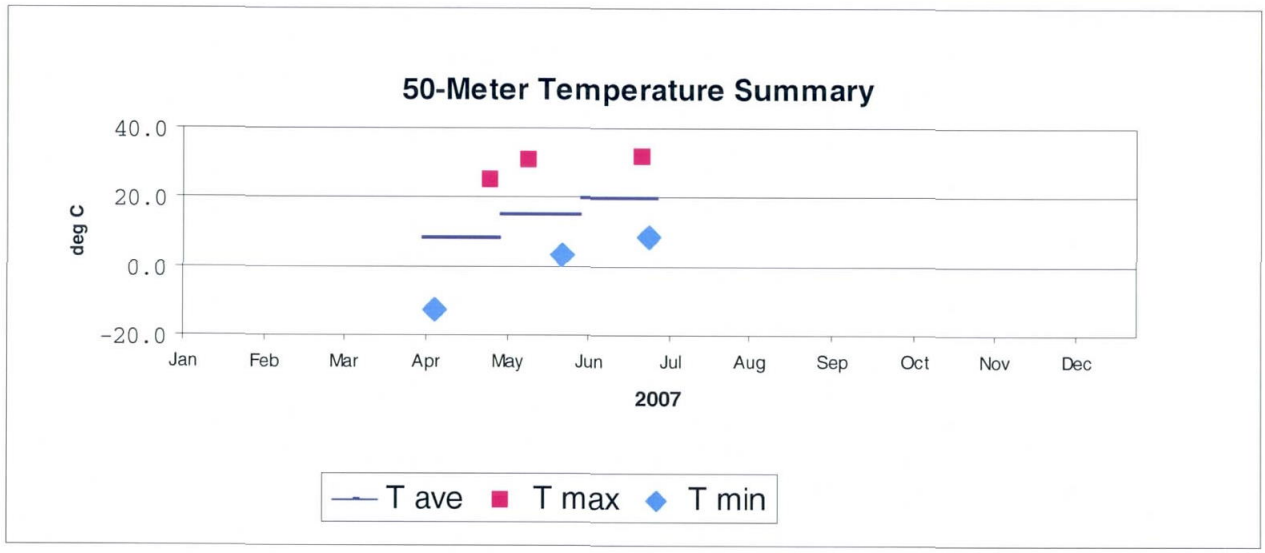

Figure 5-9 50-meter Temperature Summary

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
Apr-07	7.9	24.5	4/28/07	-12.6	4/7/07	588	744	79.0%
May-07	14.9	30.4	5/13/07	2.6	5/26/07	744	744	100.0%
Jun-07	19.6	31.3	6/25/07	8.8	6/28/07	467	672	69.5%

Note: As discussed in Chapter 3.0, the percentage data capture percent shown here are based upon the days in a calendar month. As a result of early electrical problems in April and the tower elevator failure in June, it is anticipated that the final 12-month modeling dataset where annual data recovery percentages are greater than 90 percent will begin on April 15, 2007 and run through April 14, 2008.

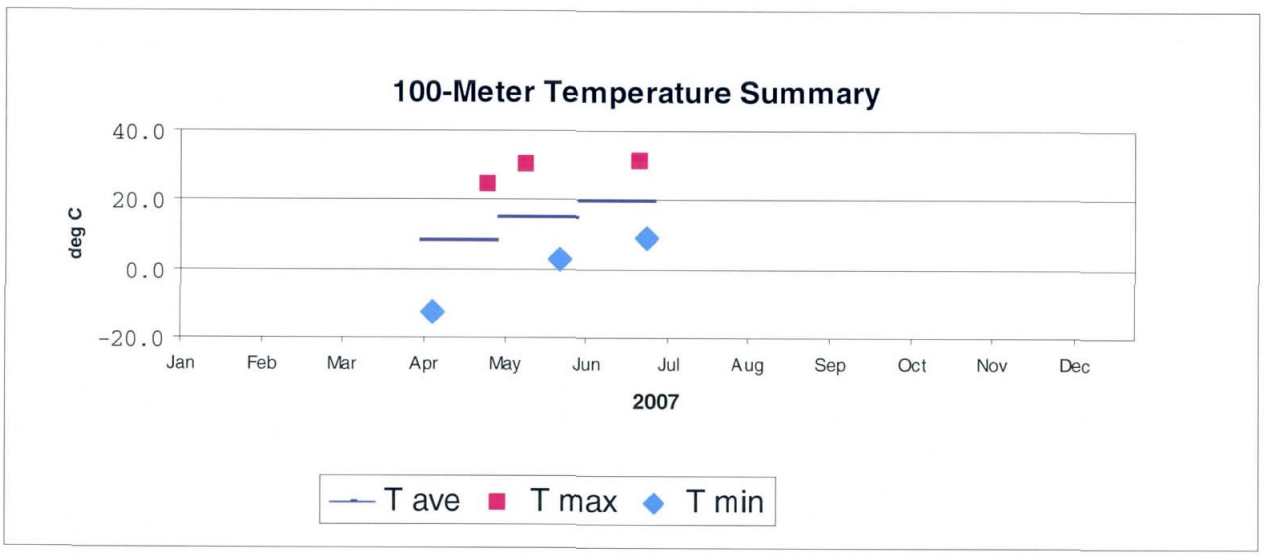

Figure 5-10 100-meter Temperature Summary

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
Apr-07	0.27	5.57	4/14/07	-5.47	4/9/07	588	720	81.7%
May-07	0.08	5.39	5/8/07	-1.69	5/24/07	744	744	100.0%
Jun-07	0.26	5.48	6/26/07	-1.28	6/28/07	467	720	64.9%
deg C/m								
Apr-07	0.03	0.70	04/14/07	-0.68	04/09/07	588	720	81.7%
May-07	0.01	0.67	05/08/07	-0.21	05/24/07	744	744	100.0%
Jun-07	0.03	0.69	06/26/07	-0.16	06/28/07	467	720	64.9%

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
Apr-07	0.59	6.47	4/29/07	-3.56	4/20/07	572	720	79.4%
May-07	0.21	5.47	5/9/07	-1.33	5/20/07	744	744	100.0%
Jun-07	0.27	4.33	6/19/07	-1.05	6/18/07	467	720	64.9%
deg C/m								
Apr-07	0.01	0.16	04/29/07	-0.09	04/20/07	572	720	79.4%
May-07	0.01	0.14	05/09/07	-0.03	05/20/07	744	744	100.0%
Jun-07	0.01	0.11	06/19/07	-0.03	06/18/07	467	720	64.9%

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
Apr-07	0.04	4.10	4/21/07	-0.95	4/8/07	572	720	79.4%
May-07	-0.11	3.44	5/13/07	-0.80	5/20/07	744	744	100.0%
Jun-07	-0.03	2.23	6/30/07	-0.67	6/19/07	467	720	64.9%
deg C/m								
Apr-07	0.00	0.08	04/21/07	-0.02	04/08/07	572	720	79.4%
May-07	0.00	0.07	05/13/07	-0.02	05/20/07	744	744	100.0%
Jun-07	0.00	0.04	06/30/07	-0.01	06/19/07	467	720	64.9%

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
Apr-07	130450	7270	880	4/17/07	604	720	83.9%
May-07	184461	7799	905	5/14/07	744	744	100.0%
Jun-07	188287	8318	939	6/8/07	698	720	96.9%

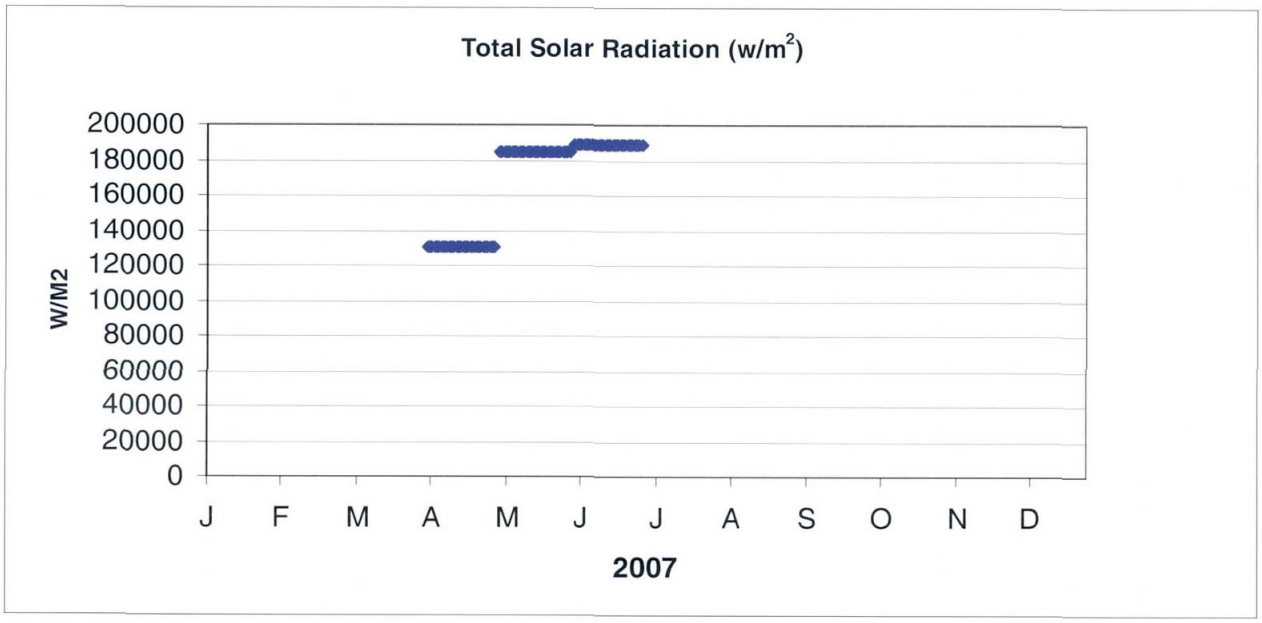

Figure 5-11 Solar Radiation

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
Apr-07	63.2	99.1	4/21/07	18.7	4/28/07	602	720	83.6%
May-07	69.2	99.0	5/5/07	26.3	5/8/07	744	744	100.0%
Jun-07	74.7	98.3	6/14/07	29.1	6/9/07	720	720	100.0%

Table 5-13 Barometric Pressure Summary

	Pressure Monthly Average (mmHg)	Pressure Monthly Max (mmHg)	Date Max Occurred	Pressure Monthly Min (mmHg)	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	705	720	4/6/07	699	4/19/07	602	720	83.6%
May-07	705	714	5/16/07	695	5/21/07	744	744	100.0%
Jun-07	704	714	6/28/07	683	6/6/07	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
Apr-07	1.56	0.66	0.42	4/20/07	606	720	84.2%
May-07	4.58	2.33	0.96	5/22/07	744	744	100.0%
Jun-07	3.67	1.98	0.78	6/12/07	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 scheduled to be performed in mid-June but had to be rescheduled until July 11-12 after the failure of the tower elevator system. A copy of the July 11-12 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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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 =

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

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:

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

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[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.

ENSR

Appendix B

Unit Vector Averaging Method for Wind Directions

02450-017-701

November 2007

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

ENSR INTERNATIONAL

PROCESSING FOR UNEXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	3/15/2007	
FILTER BATCH:	1	PM_{10} ✱✱✱	TSP	DICHOT ☐	2.5 ☐		
		Please check box by hand, or highlight/shade filter type!					
AMOUNT:	46 FILTER NO:	000001	TO:	000045	LOT:	1851865	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	3/15/2007	800	34	70.3	
STOP DAY:	3/20/2007	1000	31.2	70.1	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE: 3/20/2007	Start-Stop:	1000	RH%	31.2	TEMP (°F):	70.1
BALANCE SN:	SA2901048					

BALANCE ZERO*	+	DRIFT ZERO		REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		000001
2				Yes		000011
3				Yes		000021
4				Yes		000031
5				Yes		000041
6						
7						
8						
9						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	3/20/2007	TIME:	1100	RH (%):	31.7	TEMP (°F): 70.2
BALANCE SN:	SA2901048		INITIAL ZERO:			

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0028g)
000003	4.6388	4.6391	-0.0003	OK
000012	4.6664	4.6672	-0.0008	OK
000023	4.6780	4.6779	0.0001	OK
000036	4.3448	4.3451	-0.0003	OK
000042	4.3360	4.3358	0.0002	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0028 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	3/20/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	5/16/2007
FILTER BATCH:	1	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	12 FILTER NO:	1	TO:	14	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	5/9/2007	1300	30	71.3	
STOP DAY:	5/16/2007	930	34.2	70.5	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	930	RH%	34.2	TEMP (°F): 70.5
BALANCE SN:		SA2901048				

BALANCE ZERO*		DRIFT ZERO		REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		1
2				Yes		10
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	5/16/2007	TIME:	1000	RH (%): 34.1	TEMP (°F): 70.4
BALANCE SN:	SA2901048		INITIAL ZERO:		

NUMBER:	(GRAMS)	(GRAMS)	(GRAMS)	(<0.0050g)
1	4.6398	4.6395	0.0003	OK
5	4.6510	4.6513	-0.0003	OK
8	4.6777	4.6779	-0.0002	OK
10	4.6932	4.6929	0.0003	OK
13	4.7092	4.7096	-0.0004	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	5/16/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	6/8/2007
FILTER BATCH:	1	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	10	FILTER NO:	15	TO:	24	LOT:

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	6/5/2007	1000	30	72.3	
STOP DAY:	6/8/2007	1130	30.5	70.7	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1130	RH%	30.5	TEMP (°F): 70.7
BALANCE SN:		SA2901048				

BALANCE ZERO*	DRIFT ZERO +	DRIFT ZERO -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1			Yes		15
2			Yes		24
3					
4					
5					
6					
7					
8					

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	6/8/2007	TIME:	1145	RH (%): 30.8	TEMP (°F): 70.5
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

NUMBER:	(GRAMS)	(GRAMS)	(GRAMS)	↑ (≤0.0050g)
15	4.6813	4.6815	-0.0002	OK
17	4.7111	4.7114	-0.0003	OK
19	4.7276	4.7279	-0.0003	OK
22	4.6704	4.6706	-0.0002	OK
24	4.6907	4.6911	-0.0004	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	6/8/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin					DATE:	7/19/2007
FILTER BATCH:	1	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐		
		Please check box by hand, or highlight/shade filter type!					
AMOUNT:	10	FILTER NO:	25	TO:	34	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	7/11/2007	1500	32.7	73.5	
STOP DAY:	7/19/2007	1100	35.2	74.7	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1100	RH%	35.2	TEMP (°F): 74.7
BALANCE SN:		SA2901048				

BALANCE ZERO*	+	DRIFT ZERO		REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		25
2				Yes		34
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	7/19/2007	TIME:	1130	RH (%): 36.2	TEMP (°F): 75.3
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

NUMBER	(GRAMS)	(GRAMS)	(GRAMS)	(<0.0050g)
25	4.6917	4.6916	0.0001	OK
27	4.3979	4.3978	0.0001	OK
29	4.4029	4.4027	0.0002	OK
31	4.3794	4.3792	0.0002	OK
34	4.3975	4.3974	0.0001	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	7/19/2007

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000001	4.639	3/20/2007	4.6398	5/16/2007	
2	000002	4.6366	3/20/2007	4.6375	5/16/2007	
3	000003	4.6388	3/20/2007			
4	000004	4.6642	3/20/2007			
5	000005	4.6419	3/20/2007	4.6510	5/16/2007	
6	000006	4.6411	3/20/2007	4.6501	5/16/2007	
7	000007	4.6589	3/20/2007	4.6730	5/16/2007	
8	000008	4.6618	3/20/2007	4.6777	5/16/2007	
9	000009	4.6603	3/20/2007	4.6796	5/16/2007	
10	000010	4.6727	3/20/2007	4.6932	5/16/2007	
11	000011	4.6759	3/20/2007	4.6914	5/16/2007	
12	000012	4.6664	3/20/2007	4.68	5/16/2007	
13	000013	4.6678	3/20/2007	4.7092	5/16/2007	
14	000014	4.6661	3/20/2007	4.7069	5/16/2007	
15	000015	4.6595	3/20/2007	4.6813	6/8/2007	
16	000016	4.6537	3/20/2007	4.6763	6/8/2007	
17	000017	4.6631	3/20/2007	4.7111	6/8/2007	
18	000018	4.6637	3/20/2007	4.7118	6/8/2007	
19	000019	4.6716	3/20/2007	4.7276	6/8/2007	
20	000020	4.6779	3/20/2007	4.7268	6/8/2007	
21	000021	4.6771	3/20/2007	4.6872	6/8/2007	
22	000022	4.6607	3/20/2007	4.6704	6/8/2007	
23	000023	4.6780	3/20/2007	4.6902	6/8/2007	
24	000024	4.6788	3/20/2007	4.6907	6/8/2007	
25	000025	4.6587	3/20/2007	4.6917	7/19/2007	
26	000026	4.3718	3/20/2007	4.4036	7/19/2007	
27	000027	4.3604	3/20/2007	4.3979	7/19/2007	
28	000028	4.3665	3/20/2007	4.4062	7/19/2007	
29	000029	4.3576	3/20/2007	4.4029	7/19/2007	
30	000030	4.3559	3/20/2007	4.4019	7/19/2007	
31	000031	4.3542	3/20/2007	4.3794	7/19/2007	
32	000032	4.3469	3/20/2007	4.3736	7/19/2007	
33	000033	4.3466	3/20/2007	4.3886	7/19/2007	
34	000034	4.348	3/20/2007	4.3975	7/19/2007	
35	000035	4.3432	3/20/2007	4.3745	8/8/2007	

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000036	4.3448	3/20/2007	4.3728	8/8/2007	
2	000037	4.3439	3/20/2007	4.3754	8/8/2007	
3	000038	4.3368	3/20/2007	4.3657	8/8/2007	
4	000039	4.3478	3/20/2007	4.3549	8/8/2007	VOID/(USED for Calibration)
5	000040	4.3331	3/20/2007	4.3776	8/8/2007	
6	000041	4.3309	3/20/2007	4.3722	8/8/2007	
7	000042	4.336	3/20/2007	4.3848	8/8/2007	
8	000043	4.3302	3/20/2007	4.3726	8/8/2007	
9	000044	4.3304	3/20/2007	4.3619	8/8/2007	
10	000045	4.3325	3/20/2007	4.3631	8/8/2007	
11						
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ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 2-15-07 **to** 4-5-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
2-15-07	48887	2.0L	2.0000	0.0000	0930	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
2-22-07	48887	2.0L	2.0000	0.0000	0500	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-2-07	48887	2.0L	1.9999	+0.0001	0600	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-12-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		
3-13-07	48887	2.0L	2.0000	0.0000	1300	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-14-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-15-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-20-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-28-07	48887	2.0L	2.0000	0.0000	0600	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-30-07	48887	2.0L	1.9999	-0.0001	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		
4-5-07	48887	2.0L	2.0000	0.0000	0800	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 4-9-07 **to** 6-8-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
4-9-07	48887	2.0L	2.0000	0.0000	1230	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0000		
	48886	5.0H	5.0000	0.0000		
4-18-07	48887	2.0L	2.0000	0.0000	1030	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
4-19-07	48887	2.0L	2.0000	0.0000	1230	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.000		
4-25-07	48887	2.0L	2.0000	0.0000		DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	4886	5.0H	5.0000	0.0000		
5-2-07	48887	2.0L	2.0000	0.0000	1200	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
5-4-07	48887	2.0L	1.9999	0.0001	0530	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
5-16-07	J20159	2.0L	1.9999	0.0001	0730	DH
	J20159	2.0H	2.0000	0.0000	0730	DH
	96-J30786-2	5.0L	4.9999	0.0001	0730	DH
	96-J30786-2	5.0H	5.0000	0.0000	0730	DH
5-21-07	J20159	2.0L	2.0000	0.0000	1230	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
5-30-07	J20159	2.0L	2.0000	0.0000	1400	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-5-07	J20159	2.0L	2.0000	0.0000	1200	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-8-07	J20159	2.0L	2.0000	0.0000	1000	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 6-13-07 **to** 8-1-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
6-13-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-14-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-15-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	4.9999	0.0001		
	96-J30786-2	5.0H	5.0000	0.0000		
6-20-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-29-07	J20159	2.0L	2.0000	0.0000	0530	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-30-07	J20159	2.0L	2.0000	0.0000	0700	DH
	J20159	2.0H	2.0000	0.0000		
	96 J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
7-9-07	J20159	2.0 H	2.0000	00000	0900	KLT
	"	2.0 L	2.0000	00000		
	96 J30786-2	5.0 H	5.0000	00000		
	"	5.0 L	5.0000	00000		
7-11-07	J20159	2.0L	2.0000	0.0000	1230	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-13-07	J20159	2.0L	2.0000	0.0000	0600	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-19-07	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-1-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
		5.0H	5.0000	0.0000		

Service Performed On
6 SEPT 2007

CBS INC.

Date of Issuance
13 SEPT 2007

This Certificate verifies that the following balances belonging to

ENSR AIR RESOURCES

have been serviced by **Jeff Roy** an authorized service representative of Certified Balance Service and were found to be within manufacturers specifications.

They were checked by weight set(s) **K-02**

Certified by the Colorado Bureau of Weights and Measures, on **12/14/2005**

and were found to be within specification and TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), WASHINGTON, D.C.

MANUFACTURER	MODEL #	SERIAL or ID #	DEPARTMENT	WEIGHT SET	RECERT DATE
SARTORIUS	2432	SA 2901048		K-02	03/06/2008

Jeff Roy

Service Technician's Signature

Purchase Order #
VERBAL

Certificate ID #
1121

The above work has been performed in accordance with the CBS Quality Assurance Program's most recent revision.

Service Performed On
12 MAR 2007

CBS INC.

Date of Issuance
14 MAR 2007

This Certificate verifies that the following balances belonging to

ENSR - AIR RESOURCES

have been serviced by **Jeff Roy** an authorized service representative of Certified Balance Service and were found to be within manufacturers specifications.

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MANUFACTURER	MODEL #	SERIAL or ID #	DEPARTMENT	WEIGHT SET	RECERT DATE
SARTORIUS	2432	SA 2901048		K-02	03/12/2007

Jeff Roy

Service Technician's Signature

Purchase Order #
VERBAL

Certificate ID #
662

The above work has been performed in accordance with the CBS Quality Assurance Program's most recent revision.

Oklahoma Bureau of Standards

Okla Dept of Agriculture, Food, and Forestry
2800 N. Lincoln Blvd.
Oklahoma City, Oklahoma 73105-4298
TEL (405) 522-5459
FAX (405) 522-5461
www.oda.state.ok.us

Certificate of Calibration

ENSR
1601 Prospect Parkway
Ft. Collins, Colorado

Test No. OBS 07-0754

Lab Environmental Conditions
Temperature (oC): 20.9
Pressure (mmHg): 730.7
Humidity (%): 65.9

Manufacturer: Denver Instruments
Identification: See Below
Tolerance: ANSI/ASTM E617 Class 2

This document is to certify that the (3) physical standards described below were on this day compared to the standards of the State of Oklahoma which are traceable to the National Institute of Standards and Technology. The conventional mass value is the weight in normal air (1.2 mg/cm3) at 20 C versus a reference density of 8.0 g/cm3. Tolerances are evaluated using the conventional mass values. Magnetism screening was not conducted and is not represented in the uncertainty budget. The expanded uncertainty, using NIST Technical Note 1297 as a guide, is obtained by summing in quadrature the Type A and Type B components and using a k-factor of 2. A detailed explanation of the expanded uncertainty is given on the reverse side of this certificate. This Certificate shall not be reproduced, except in full, without the written approval of the Bureau of Standards. Test procedures are OBS SOP 18 (3-1) and/or OBS SOP 17 (double substitution). This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP or any other government agency. NVLAP Lab Code: 200396-0. [c-120]

Nominal Value	Conventional Mass Value (grams)	Assumed Density (g/cm^3)	Tolerance (in/out)	Uncertainty of Mass Values (milligrams) k=2	Class 2 Tolerance (milligrams)	Mass in Vacuum Value (grams)
5 g 96-J30786-2	5.0000072	7.85	IN	0.0046	0.0540	*5.0000215*
2 g 99-J40360-9	1.9999724	7.85	IN	0.0033	0.0540	*1.9999781*
2.g J20159	1.9999859	7.85	IN	0.0033	0.0540	*1.9999916*

The above listed conventional mass values (except those marked as "out") meet the tolerance for Class 2. No weights were adjusted, the above values are 'As Received' and 'As Left'.

Date of Test: **May 7, 2007**

Richard Gonzales , Metrologist

Software Version: MassII v11.04 7May07.xls

The Expanded Uncertainties are calculated in the following manner with the listed conditions: The systematic error is calculated as the absolute difference between the observed Msc value and the control Msc value, and the portion that exceeds 1 sd of the pooled Msc values is designated as u_{sys}. This uncertainty component, u_{sys}, along with the other standard uncertainty components are summed in quadrature then multiplied times the k-factor to obtain the Expanded Uncertainty. Type A uncertainty components are designated by a lower case s and type B by lower case u.
Conditions: These include the environmental conditions with their associated uncertainties and density characteristics for the test weight (X) and the standard (S) and their associated uncertainty and also the degrees of freedom associated with the standard deivation of the process, s_p.
Below, there are two uncertainties quoted for each standard, the first labeled 'Vacuum' and the second labeled 'Normal Air'. These uncertainties are associated with the environment in which the standards are used, i.e. if the standard is used in a vacuum then the 'Vacuum Uncertainty' should be used, if the standard is used in air then the 'Normal Air Uncertainty' should be used. The uncertainty quoted on the front of this calibration certificate is the 'Normal Air Uncertainty'.

Nominal	u_{sys} Obs-Con Msc (ug)	u_t Balance Temp (ug)	u_p Barometer (ug)	u_{rh} Humidity (ug)	u_{rhox} Rho X (ug)	u_{rhos} Rho S (ug)	u_s S (ug)	s_p Balance (ug)	K-factor	Expanded Uncertainty (ug)	
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
5 g 96-J30786-2	0.036	0.069	0.004	0.038	6.186	0.596	1.919	1.071	2	13.185	Vacuum
	0.036	0.069	0.004	0.038	0.307	0.596	1.919	1.071	2	4.597	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2 g 99-J40360-9	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2.g J20159	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air

Colorado Department of Agriculture
Inspection and Consumer Services Division
Measurement Standards Section
Metrology Laboratory
3125 Wyandot Street
Denver, CO 80211-3824
(303) 477-4220; FAX (303) 477-4248

CERTIFICATE # 06-247

Date Certified: May 8, 2006

Owner/User: ENSR Corporation
Address: 1601 Prospect Parkway, Fort Collins CO 80525
Submitted by: Henry Sofai

Serial No.: 48885 thru 48887
Manufacturer: Denver Instrument & Troemner
Item(s) Certified: Class 2, 5 g & 2 g Weights

Certificate expiration: Certificate expiration to be determined by owner using the procedures in the National Conference Laboratories International Recommended Practice RP-1, Establishment and Adjustment of calibration intervals.

Method and Traceability:
The procedure used by this laboratory is National Institute of Standards and Technology *(NIST) Handbook 145*, Standard Operating Procedure (SOP) 4, Weighing by Double Substitution. Standards used for comparison are traceable to the National Institute of Standards and Technology and are part of a comprehensive measurement assurance program for ensuring continued accuracy and traceability within the level of uncertainty reported by this laboratory. Traceability to National Standards through the certificate number and date, above.

Laboratory Conditions:
The laboratory is monitored and maintained at 20°C to 23°C at a set point ± 2°C with maximum change 1°C/hour, with relative humidity controlled at 40% to 60% ± 10%. Measurement data is retained for buoyancy corrections, which are made to correct mass values to conventional reference conditions, if the standard and calibration item are different densities; measurements are not made when conditions deviate from those stated.

Uncertainty Statement:
The uncertainty conforms to the International Organization for Standardization (ISO) *Guide to the Expressions of Uncertainty in Measurement.* Uncertainty is based on a coverage factor, K=2, for an approximate 95 percent level of uncertainty. Uncertainty components include standard deviations, uncertainty of the standard, and any environmental corrections. The reported uncertainty exceeds the 3:1 ratio required by NIST hb 44, Appendix A, para 3.2.

Magnetism was not included in the uncertainty analysis; magnetism is a specification accounted for at the time of weight manufacture.

Explanation of Values listed in the Table on page 2:

Conventional Mass:
The value listed is a correction and must be algebraically added to the listed nominal value in order to determine the actual value. The value was computed using air buoyancy corrections, referenced to a laboratory standard air density of 1.2 mg/cm^3.
The "As Found" value is the error existing prior to adjustment, if necessary. The adjustment point is equivalent to the specification tolerance minus the reported uncertainty of the measurement. The "As Left" value is the in-tolerance value to which the item was adjusted, if necessary.

This certificate meets the requirements of ISO Guide 17025.

Metrologist performing calibration: Jennifer A. Oznoff

Diane C. Wise, Lead Metrologist

MS Invoice # 0922

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Client must not use this document to claim product endorsement by this laboratory.

ENSR Corporation
Certificate #: 06-247
Serial #: 48885 thru 48887
Date: May 8, 2006

Table

Serial Number	Mfr.	Nominal Value (g)	Conventional Mass Correction (mg)	Tolerance (± mg)	Uncertainty (± mg)
48885	Denver Instrument	5	- 0.04452	0.054	0.00422
48886	Troemner	5	- 0.03034	"	"
48887	Troemner	2	- 0.02208	"	0.00347

Supplemental Information:

All items were left "as found", no adjustments were made.

Condition of items upon receipt: The items were in good condition for the type and Class.

Weight S/N # 48885 was changed from 94-061458 permanently.

Standards and equipment used for testing:

Balance	Range	Standards Used
Mettler UMT6	0 g – 6 g	96-110696

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Basin Electric - Gettsyburg
Teco 146 Flow Calibrations
3/31/07

TANK JJ8896		
NO	31.10	ppm
SO2	30.30	ppm

AIR

M=	1055.63	**B=**	-332.33	**CORR=**	0.999975

GAS

M=	1.1241	**B=**	-0.780	**CORR=**	0.999985

FLOWS AND SETTINGS

INPUT	DILUTION FLOW CC/MIN	DILUTION SET	GAS FLOW CC/MIN	GAS SET
0.450	5000	**5.05**	73.41	**66.0**
0.200	5000	**5.05**	32.36	**29.5**
0.080	6000	**6.00**	15.47	**14.5**

SO2 INPUTS	
NO	SO2
.450	0.438
.200	0.195
.080	0.078

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

FLOW SET = (FLOW-B)/M

TECO 146 BIOS FLOW CALIBRATIONS

SITE:	Basin Elec.		**DATE:**	**3/31/07**		**SN:**	30141-237
FLOW STANDARD:		BIOS	**MODEL:**	DC-1 Rev. E	SN 426	**CERT.DATE**	**1/10/2007**
				DC-MC-1 Re	SN 809		
PRESS:	**702.0**	**mmHg**	**DEG C:**	**19.8**	**TEMP:**	**293**	**DEG/K**
	CORR. FAC. (QA TO QSTD = 298/760 * PA/TA) =					0.9394	

AIR FLOW METER

BIOS			PVA
	Y	X	
FLOW CC/M	FLOW STD/CCM	DISPLAY (AIR)	VOLTS
1810	1700	**1.94**	**0.99**
4055	3809	**3.92**	**1.97**
5190	4875	**4.92**	**2.46**
6315	5932	**5.92**	**2.95**
7430	6979	**6.92**	**3.44**
8510	7994	**7.91**	**3.92**
M=	1055.63		
B=	-332.33		
CORR=	0.999975		

GAS FLOW METER

BIOS			PVA
	Y	X	
FLOW ACCM Bios	FLOW STD/CCM	DISPLAY (GAS) 146	VOLTS
15.00	14.1	**13.40**	**0.74**
32.00	30.1	**27.30**	**1.47**
54.25	51.0	**45.90**	**2.44**
65.30	61.3	**55.20**	**2.93**
76.40	71.8	**64.60**	**3.42**
87.50	82.2	**73.90**	**3.97**
M=	1.1241		
B=	-0.780		
CORR=	0.999985		

'INPUTS WITH PREVIOUS SETTINGS

INPUT	ACTUAL	DELTA%
0.450	0.526	16.8%
0.200	0.227	13.5%
0.080	0.084	5.3%

ENSR INTERNATIONAL

NO/NOX/NO2 CALIBRATION

Network:	Site: Basin	Date: 3/31/2007	Initial / Final: Basin Elec	QTR Apr-Jun 2007

Instrument: Model 42C	**Calibrator:** Teco 146	**SN:** 30141-237	**Comments:**
SN: 70181-365	**Cert. Date:** 3/5/2007		set internal at 450

Instrument Settings

	Initial	Final		
NO Bkg	10.8			
Nox Bkg	6.700			
NO Coeff	0.980			
NO2 Coeff	1.000			
S. Flow	0.6	Rct. Chmb.	49.3	
Cnv.Tmp	323.0	Cool Tmp.	-2.3	

DVM: Fluke 87V **SN:** 89250710
Certification Date: 2/21/07
Gas Cylinder Serial Number: TANK JJ8896
Gas Cylinder Pressure: 1250
Concentration: 31.1 ppm
Expiration Date: 3/8/2009

Converter Effieciency		
High	98.3%	>96%
Mid	100.0%	

Flows and Settings						Readings							Delta %		
Gas Flow cc/m	Set	Air Flow L/M	Set	Input NO	Ozone Set	NO DAS	Volt	NOX DAS	Volt	Input NO2	NO2 DAS	Volt	NO	NOX	NO2
N/A	N/A	5000	5.05	.000	N/A	.000		.000		N/A	.000		N/A	N/A	N/A
73.41	66.0	5000	5.05	.450	N/A	.452		.452		N/A	.000		0.4%	0.4%	N/A
73.41	66.0	5000	5.05	.036	Remote	.037		.445		0.414	.408		N/A	N/A	-1.4%
32.36	29.5	5000	5.05	.200	N/A	.201		.201		N/A	.000		0.5%	0.5%	N/A
32.36	29.5	5000	5.05	.042	515	.043		.201		0.158	.158		N/A	N/A	0.2%
15.47	14.5	6000	6.00	.080	N/A	.081		.082		N/A	.001		1.3%	2.5%	N/A
15.47	14.5	6000	6.00	-.005	410	.367		.450		0.085	.083		N/A	N/A	-2.0%

	NO	NOX	NO2
M=	1.0029	1.0006	0.9848
B=	0.0006	0.0015	0.0009
Corr.=	1.00000	1.0000	1.0000

Average %

NO	NOX	NO2
0.7%	1.1%	-1.1%

Signature: _____
QA/QC: _____

0.450	0.452	0.452	0.414	0.408
0.200	0.201	0.201	0.158	0.158
0.080	0.081	0.082	0.085	0.083

701.696

ENSR INTERNATIONAL

SO2 GAS DILUTION CALIBRATION

Network:	Site: Basin	Date: 3/15/2007	Initial / Final: QTR

Instrument:	Teco 43A	**Calibrator:**	Teco 146	**SN:**	53915-298
SN:	29727-236	**Cert. Date:**	3/31/07		
	Initial / **Final**	Air M=	1055.63	B=	-332.3296
Zero Set	**256**	Gas M=	1.12412	B=	-0.7801
Span Set	**85**				
Flow	**0.45** LPM	**DVM:**	Fluke 87	**SN:**	**89250710**
Vacuum	**19.0** (>10inhg)	**Cert. Date:**	2/21/07		
Lamp Volts	**1035** (800-1200)	**Gas Bottle SN:**	TANK JJ8	**Conc.:**	30.3
		Cyl. Pressure:	1250		

Comments:

new install 3/31/07

Flows and Settings				Initial Results				Final Results			Delta %	
Gas Flow cc/m	Set	Air Flow L/M	Set	Input SO2	INITIAL DAS	Volt	Chart%	FINAL DAS	Volt	Chart%	Initial % Error	Final % Error
N/A	N/A	5000	**5.05**	**.000**	**0.000**						N/A	N/A
73.41	**66.0**	5000	**5.05**	**.438**	**0.438**						-0.1%	-100.0%
32.36	**29.5**	5000	**5.05**	**.195**	**0.199**						2.1%	-100.0%
15.47	**14.5**	6000	**6.00**	**.078**	**0.078**						0.1%	-100.0%

M=	0.9960138	M=	#DIV/0!
B=	0.0022044	B=	#DIV/0!
Corr.=	0.99991	Corr.=	#DIV/0!

Signature: bj

QA/QC:

ENSR INTERNATIONAL

INITIAL OZONE CALIBRATION

Date: 3/31/2007 **Network:** _____ **Station:** Basin

Analyzer: TECO 49c **SN** 0517812012 **OFFSET** _____ **SPAN** _____

Standard: Teco 49C I **SN:** 65002-345 **Certification Date:** 1/27/05
OZONE PPM = 0.9994 (IND O3 - -0.00019)

SETTING	STANDARD READING	STANDARD PPM	DATALOGGER READING	DATALOGGER PPM	DELTA %	DISPLAY PPM	CHART %	CHART PPM
OFF	0.001	0.001	-0.001	-0.001	NA	0.000		0.000
AVG	0.001		-0.001			0.000		
	0.450	0.450	0.450	0.450	0.0%	0.450		0.000
AVG	0.450		0.450			0.450		
	0.249	0.249	0.249	0.249	0.0%	0.25		0.000
AVG	0.249		0.249			0.250		
	0.090	0.090	0.090	0.090	-0.2%	0.090		0.000
AVG	0.090		0.090			0.090		

M= 1.00313 B= -0.0011 CORR.= 0.999996

OZONATER SET					
PPM		Frequency A	139873	Noise	1.2
SET:		Frequency B	76776	Noise	0.7
		Flow A	0.657	Flow B	0.623 (1.0LPM
		Pressure	700.9	Temp.	37.6

COMMENTS
new station

Technician bj

QA/QC: _____

ENSR INTERNATIONAL

TS OZONE CALIBRATION

Date: 3/31/2007 Network: _____ Station: Basin

Analyzer: TECO 49 SN 517812012 OFFSET _____ SPAN _____

Standard: Teco 49C I SN: 65002-345 Certification Date: 2/16/07
OZONE PPM = 0.9999 (IND O3 - 0.00006)

STANDARD SETTING	STANDARD READING	STANDARD PPM	DATALOGGER READING	DATALOGGER PPM	DELTA %	DISPLAY PPM	CHART %	CHART PPM
OFF	0.000	0.000	0.001	0.001	NA	0.001		0.000
AVG	0.000		0.001			0.001		
~55%	0.450	0.450	0.450	0.450	0.0%	0.451		0.000
AVG	0.450		0.450			0.451		
~42%	0.248	0.248	0.248	0.248	0.0%	0.249		0.000
AVG	0.248		0.248			0.249		
~31.3%	0.090	0.090	0.090	0.090	0.1%	0.092		0.000
AVG	0.090		0.090			0.092		

M= 0.999257 B= 0.0004 CORR.= 1

OZONATER SET					
PPM		Frequency A		Noise	
SET:		Frequency B		Noise	
		Flow A		Flow B	(1.0LPM
		Pressure		Temp.	

COMMENTS

Technician bj

QA/QC: _____

OZONE TRANSFER STANDARD CALIBRATION

Calibration Date: 11/8/2006

Transfer Standard:		Mfg & Model:	Teco 49 TS	Primary:	Mfg & Model:	49CPS
Freq A	91131	SN:	33799-246		SN:	27285-228
Freq B	92880	Span:	523		Span:	511
Flow A	1.0	Offset:	50		Offset:	51
Flow B	1.0				Cert Date:	2/16/2007

	11/7/2006		9/12/2006		11/17/2006		3/2/2007		3/7/2007			
	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.
TP1	0.454	0.455	0.450	0.451	0.450	0.451	0.450	0.449	0.449	0.449	0.454	0.455
TP2	0.353	0.355	0.350	0.351	0.350	0.352	0.349	0.347	0.350	0.35	0.353	0.355
TP3	0.252	0.252	0.250	0.251	0.250	0.252	0.250	0.250	0.250	0.251	0.252	0.252
TP4	0.152	0.151	0.150	0.150	0.150	0.149	0.150	0.150	0.150	0.150	0.152	0.151
TP5	0.081	0.081	0.080	0.081	0.080	0.079	0.081	0.081	0.081	0.080	0.081	0.081
TP6	0.000	0.000	0.000	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000
Slope		1.00396293		1.00044186		1.0069302		0.99644959		1.00118163		1.003962933
Intercept		-0.00052		0.00073907		-0.001145		0.00025683		-0.00025188		-0.000520018

AVG. SLOPE	1.00215486	(.95to1.05)	STD.DEV	0.36%	(<3.7%OK)	1/M =	0.997849771
AVG. INTERCEPT	-0.00024		STD.DEV	0.1%	(<1.5%OK)		

O3 Std ppm = 0.9978 X [O3 indicated - -0.00024]

11/8/06 solenoid a little sticky

ENSR INTERNATIONAL

Wind Speed Calibrations
Installation

Network: _____ Site: Basin Level: 100 m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: TR Date: 4/9/2007

INITIAL SYSTEM CHECKS

Sensor Serial Number: 5153 Cup / Propeller Serial Number: 4831

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.46 mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.07	1.25	0.00	pass
900	450	47.6	450	47.61	2.83	-0.01	pass
1800	900	94.9	900	94.98	5.19	0.04	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: New Replaced: na

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: BJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Speed Calibrations
Installation

Network: _____ Site: Basin Level: 50 m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: TR Date: 4/9/2007

INITIAL SYSTEM CHECKS

Sensor Serial Number: 5152 Cup / Propeller Serial Number: 4830

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.45mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.7	1.25	0.63	pass
900	450	47.6	450	47.61	2.83	-0.01	pass
1800	900	94.9	900	94.98	5.19	0.04	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: New Replaced: na

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: BJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Speed Calibrations
Installation

Network: _____ Site: Basin Level: 10m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: HS , LN Date: 4/9/2007

INITIAL SYSTEM CHECKS

Sensor Serial Number: 5151 Cup / Propeller Serial Number: 4829

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.45 mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.12	1.25	0.05	pass
900	450	47.6	450	47.61	2.83	-0.01	pass
1800	900	94.9	900	95.24	5.19	0.30	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: new Replaced: na

Bearing Torque: _____ Cup/Propeller Condition: _____ Replaced: _____

Comments: _____

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: BJ Q.C. Review: _____

ENSR INTERNATIONAL

RM Young Model 27106 Vertical Wind Speed Calibration Form
2nd Quarter 2007

Network: _____ Site: Basin Date: 4/9/2007

Range: -10 to + 10 m/s

Initial System Checks

Sensor		Motor Speed RPM	Ideal output mV	Ideal output (m/s)	DAS Output (m/s)	Sensor (mV)	Strip Chart % Full Scale	Tolerance (± 0.2 ms + 5% of Des.)
Level:	10m	0	NA	0	0	0	na	PASS
SN:	171	300 CW	83	1.87	1.91	83.3	na	PASS
Prop SN:	64657	300 CCW	-83	-1.87	-1.88	-83.2	na	PASS
Bearing Test		600 CW	166	3.75	3.81	166.3	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.79	-166.6	na	PASS
CCW:	.4 gm/cm	900 CW	250	5.62	5.71	249.6	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.68	-249.8	na	PASS
Sensor		**Motor Speed RPM**	**Ideal output mV**	**Ideal output (m/s)**	**DAS Output (m/s)**	**Sensor (mV)**	**Strip Chart % Full Scale**	**Tolerance (± 0.2 ms + 5% of Des.)**
Level:	50m	0	NA	0	0	0	0	PASS
SN:	169	300 CW	83	1.87	1.97	83.42	na	PASS
Prop SN:	64666	300 CCW	-83	-1.87	-1.83	-83.4	na	PASS
Bearing Test		600 CW	166	3.75	3.85	166.9	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.74	-166.8	na	PASS
CCW:	1.0 gm/cm	900 CW	250	5.62	5.71	250.3	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.66	-249.9	na	PASS
Sensor		**Motor Speed RPM**	**Ideal output mV**	**Ideal output (m/s)**	**DAS Output (m/s)**	**Sensor (mV)**	**Strip Chart % Full Scale**	**Tolerance (± 0.2 ms + 5% of Des.)**
Level:	100m	0	NA	0	0	0	0	PASS
SN:	170	300 CW	83	1.87	1.99	83.42	na	PASS
Prop SN:	64597	300 CCW	-83	-1.87	-1.87	-83.4	na	PASS
Bearing Test		600 CW	166	3.75	3.86	166.9	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.73	-166.8	na	PASS
CCW:	1.0 gm/cm	900 CW	250	5.62	5.7	250.3	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.66	-249.9	na	PASS

Comments: _____

Test Equipment

Instrument	Manufacturer	Model	Serial No.	Cal Date
Var Motors	RM Young	18820-30-31	44073	1/10/2006
DVM	Fluke	87	51702189	1/11/2005
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Direction System Calibrations
2nd Quarter 2007

Network :		Site :	Basin	Level :	10 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	
Range :	0 to 360 degrees	Date :	4/20/2007		
Technicians :	BCJ				

		To	From
Landmark # 1:	Water Tower near due west	Angle:	262.5	82.5
Landmark # 2:	Radio Tower SE	Angle:	141.5	321.5

SENSOR LINEARITY CHECK

Angle	DAS Degrees	Δ Degrees	Error	Angle	DAS Degrees	Δ Degrees	Error
0°	6.9	na	na	210°	203.0	26.0	-4.0
30°	38.0	31.1	1.1	240°	231.3	28.3	-1.7
60°	68.0	30.0	0.0	270°	258.8	27.5	-2.5
90°	96.3	28.3	-1.7	300°	286.2	27.4	-2.6
120°	112.9	16.6	-13.4	330°	315.3	29.2	-0.8
150°	156.2	43.3	13.3	360°	6.9	51.6	21.6
180°	177.03	20.8	-9.2	Cumulative Error		0.0	

Initial

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3715

Final

Max Torque:	8.0 gm/cm	Torque:	
Vane Cond:		Bearings:	
Pot Switching:		Vane SN:	

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ± 5°	Tolerance
To Landmark # 1	262.5	264.04		1.5	PASS
From Landmark # 1	82.5	83.46		1.0	PASS
To Landmark # 2	141.5	143.68		2.2	PASS
From Landmark # 2	321.5	323.9		2.4	PASS

Comments:

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ

Q.C. Review:

ENSR INTERNATIONAL

Wind Direction System Calibrations
2nd Quarter 2007

Network :		Site :	Basin	Level :	50 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	
Range :	0 to 360 degrees	Date :	4/20/2007		
Technicians :	BCJ				
Landmark # 1:	Water Tower near due west			Angle:	To: 262.5 / From: 82.5
Landmark # 2:	Radio Tower SE			Angle:	To: 141.5 / From: 321.5

SENSOR LINEARITY CHECK

Angle	DAS Degrees	Δ Degrees	Error	Angle	DAS Degrees	Δ Degrees	Error
0°	0.7	na	na	210°	211.0	30.1	0.1
30°	30.2	29.5	-0.6	240°	240.7	29.7	-0.3
60°	60.3	30.1	0.1	270°	271.0	30.4	0.4
90°	90.9	30.6	0.6	300°	301.5	30.5	0.5
120°	120.9	30.1	0.0	330°	331.9	30.4	0.4
150°	150.8	29.9	-0.1	360°	0.4	28.5	-1.5
180°	180.85	30.0	0.0	Cumulative Error		-0.3	

Initial

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3716

Final

Max Torque:	8.0 gm/cm	Torque:	
Vane Cond:		Bearings:	
Pot Switching:		Vane SN:	

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ± 5°	Tolerance
To Landmark # 1	262.5	263.22		0.7	PASS
From Landmark # 1	82.5	83.26		0.8	PASS
To Landmark # 2	141.5	142		0.5	PASS
From Landmark # 2	321.5	322.38		0.9	PASS

Comments:

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ

Q.C. Review:

ENSR INTERNATIONAL

Wind Direction System Calibrations
2nd Quarter 2007

Network :		Site :	Basin	Level :	100 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	
Range :	0 to 360 degrees	Date :	4/20/2007		
Technicians :	BCJ				
Landmark # 1:	Water Tower near due west			Angle:	To: 262.5 / From: 82.5
Landmark # 2:	Radio Tower SE			Angle:	To: 141.5 / From: 321.5

SENSOR LINEARITY CHECK

Angle	DAS Degrees	A Degrees	Error	Angle	DAS Degrees	A Degrees	Error
0°	1.7	na	na	210°	211.2	30.2	0.2
30°	30.9	29.2	-0.8	240°	241.6	30.5	0.5
60°	60.9	30.0	0.0	270°	272.4	30.7	0.7
90°	90.8	29.9	-0.1	300°	302.3	29.9	-0.1
120°	121.1	30.3	0.3	330°	332.6	30.3	0.3
150°	150.9	29.8	-0.2	360°	1.8	29.1	-0.9
180°	181.03	30.1	0.1	Cumulative Error		0.1	

Initial

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3716

Final

Max Torque:	8.0 gm/cm	Torque:	
Vane Cond:		Bearings:	
Pot Switching:		Vane SN:	

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ±5°	Tolerance
To Landmark # 1	262.5	265.49		3.0	PASS
From Landmark # 1	82.5	84.1		1.6	PASS
To Landmark # 2	141.5	142.81		1.3	PASS
From Landmark # 2	321.5	323.1		1.6	PASS

Comments: _____

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ

Q.C. Review: _____

ENSR INTERNATIONAL

Relative Humidity/BarometricPressure Calibration

Network: _____ Site: Basin Date: 3/31/2007

RH Sensor Manufacturer: Vaisala Model: HMP45AC RH Serial # : A1320004

BP Sensor Manufacturer: Setra Model: 278 BP Serial # : 2500480

Tech: rt,bj

Relative Humidity

Run	Reference RH%	Accuracy Goal	DAS RH %	Error (± 10%)
1	94.3	9.4	97.5	3.2
2		0.0		0.0
3		0.0		0.0
AVG	94.3	3.1	97.5	1.1

Barometric Pressure

Run	Reference Sensor Pressure (mmHg)	DAS Pressure (mmHg)	Error(± 3 mb, ± 2.25 mmHg)
1	701.7	701.4	0.3
2			0.0
3			0.0
AVG	701.7	701.4	0.1

Test Equipment

Instrument	Manufacturer	Model	Serial Number	Cal Date
RH			123672	8/14/2006
BP	ensr tabletop		32299	

Comments: _____

Signature: _____ Q.C. Review: _____

ENSR INTERNATIONAL

Tipping Bucket Type Rain Gauge
2nd Quarter 2007 Calibration

Network : _____ Site : Basin Date : _____

Rain Gauge SN : 33618-1003 Manufacturer : _____

Translator SN : 7788 Manufacturer : Campbell 23x

Technician: _____

Initial System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	NW Facing	SW Facing
1st Test		
2nd Test		
3rd Test		
Average	#DIV/0!	#DIV/0!

Final System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	North Facing	South Facing
1st Test		
2nd Test		
3rd Test		
Average	#DIV/0!	#DIV/0!

Heater Operational? : na 18.25 mL=1 tip = 0.01 inches

Final Volume Check : 1000 m/L = 0.548 inches

DAS Indication : 0.51 inches

Error : -6.9

Tolerance : +/- 10% of designated value

Test Equipment

Instrument	Manufacturer	Model	Serial #	Cal Date
Test Volume	Novalynx	264-2545	948	na

Signature: _____ Q.C. Review: _____

ENSR INTERNATIONAL

Eppley Solar Radiation Calibration
Initial Install

Network: _____ Site: Basin Date: _____

Station Pyranometer SN: 17696 Cal Voltage Output: 12.18 μV/Wm²

Reference Pyranometer SN: 23154 Cal Voltage Output: 10.01 μV/Wm²

Technician: _____

Initial System Checks

SENSORS		Run #1	Run #2	Run #3	Average
Station Sensor mV Output:		6.63	6.37	6.23	6.41
	W/m²:	544	523	511	526
Station DAS W/m² Output:		540.7	519.0	507.0	522
Reference Sensor mV Output:		5.31	5.13	4.97	5.14
	W/m²:	530	512	497	513

Tolerance ± 4% of Standard between Average 3 and Average 5: 1.8%

Pyranometer Level: YES

Test Equipment

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Pyranometer	Eppley	8-48	23154	1/8/2007
DVM	Fluke	87	90850057	4/27/2006

Signature: _____ Q.C. Review: _____

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION

(VFC Type sampler)

PM-10

Sampling Network:		**Site: Basin**		Cal Date:	**3/30/07@1700**		
Sampler:	#1	Orifice SN:	F3	Barometric Pressure (mmhg):		**708.0**	=(Pa)
SN:	PM10	Calibration. Date	5/18/06	Seasonal Mean Pressure (mmhg):		**708.0**	=(Ps)
Man.	**Wedding**	M=	0.9966	C	5.8	Ambient Temp (K): **279.0**	=(Ta)
		B=	-0.01522	Seasonal Avg. Temp (K):		**286.2**	=(Ts)

Temp K = 273.15+C

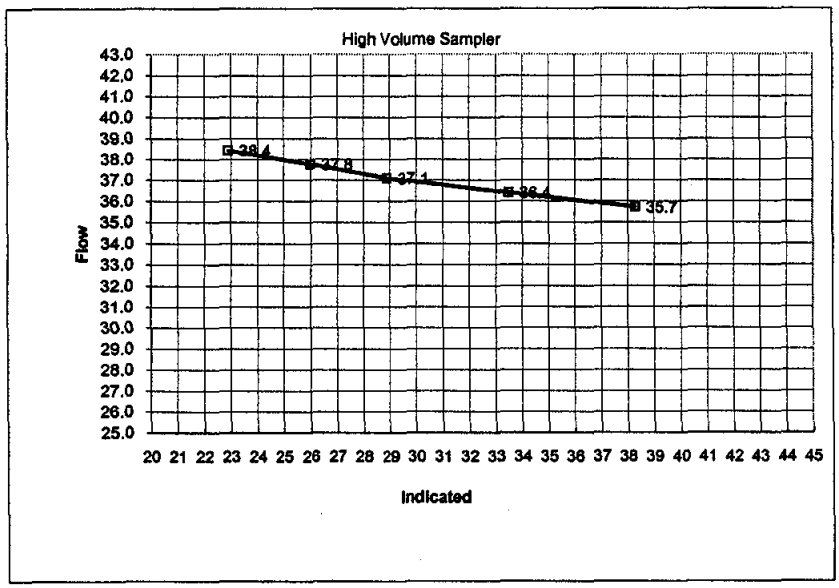
Reason for calibration= Initial Installation

ORIFICE FLOW				Xaxis	INDICATED (I)			Yaxis	
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$	Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	**2.90**	**1.088**	38.4	0.0651	**22.90**	**665.18**	0.9395	jan-ma	-5.8
2	**2.80**	**1.069**	37.8	0.0640	**26.00**	**659.38**	0.9313	apr-jun	13.0
3	**2.70**	**1.050**	37.1	0.0629	**28.90**	**653.96**	0.9237	jul-sep	19.9
4	**2.60**	**1.031**	36.4	0.0617	**33.50**	**645.36**	0.9115	oct-dec	-0.02
5	**2.50**	**1.011**	35.7	0.0605	**38.30**	**636.38**	0.8988		
Opertional Flow Rate-Qa		**1.115**	39.4		**16.9**	**676.40**	0.9554		
Opertional Flow Rate-QaAVG		**1.129**	39.9		**16.9**	**676.40**	0.9554		

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

Sampler Calibration Relationship

M= **8.8199** B= **0.3665** Corr. **0.99429**



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 Flow 36acfm-44acfm

Technician rt

QC review

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION

(VFC Type sampler)

PM-10

Sampling Network:		**Site:**	**Basin**	Cal Date:	**3/30/07@1700**		
Sampler:	#2	Orifice SN:	F3	Barometric Pressure (mmhg):	**708.0**	=(Pa)	
SN:	PM10	Calibration. Date	5/18/06	Seasonal Mean Pressure (mmhg):	**708.0**	=(Ps)	
Man.		M=	0.9966	C 5.8 Ambient Temp (K):	**279.0**	=(Ta)	
		B=	-0.01522	Seasonal Avg. Temp (K):	**286.2**	=(Ts)	

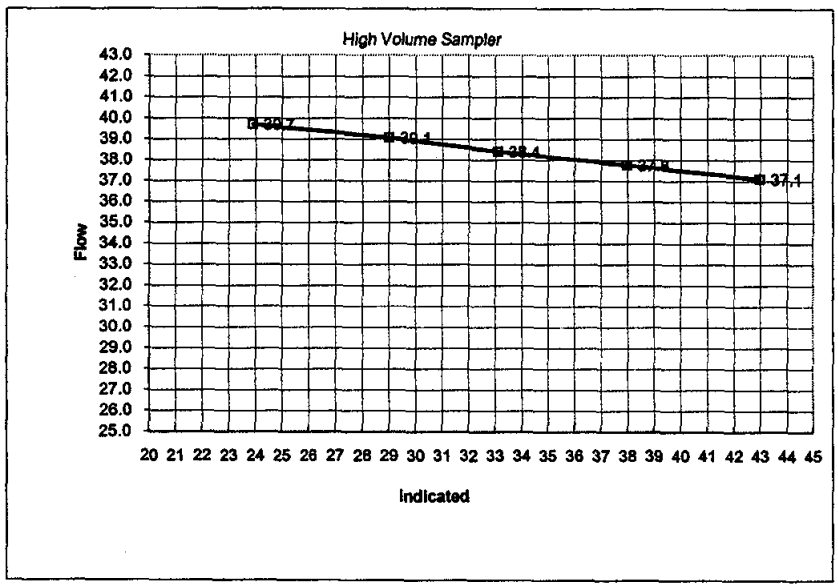
Reason for calibration= Initial Installation

ORIFICE FLOW				Xaxis		INDICATED (I)		Yaxis		
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	**3.10**	**1.124**	39.7	0.0673		**23.90**	**663.31**	0.9369	jan-mar	-5.8
2	**3.00**	**1.106**	39.1	0.0662		**29.00**	**653.77**	0.9234	apr-jun	13.0
3	**2.90**	**1.088**	38.4	0.0651		**33.10**	**646.10**	0.9126	jul-sep	19.9
4	**2.80**	**1.069**	37.8	0.0640		**37.97**	**637.00**	0.8997	oct-dec	-0.02
5	**2.70**	**1.050**	37.1	0.0629		**43.00**	**627.59**	0.8864		
Opertional Flow Rate-Qa		**1.151**	40.7			**17.1**	**676.02**	0.9548		
Opertional Flow Rate-QaAVG		**1.166**	41.2			**17.1**	**676.02**	0.9548		

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

Sampler Calibration Relationship

M= **11.2462** B= **0.1795** Corr. **0.99952**



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 Flow 36acfm-44acfm

Technician rt

QC review

ENSR INTERNATIONAL

Wind Speed Calibrations

Network: _____ Site: Basin Level: 100 m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: BCJ Date: 6/15/2007

INITIAL SYSTEM CHECKS

Sensor Serial Number: 374 Cup / Propeller Serial Number: 1094 (new s/n after tower fall)

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.45 mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.07	1.25	0.00	pass
900	450	47.6	450	47.61	2.83	-0.01	pass
1800	900	94.9	900	94.93	5.19	-0.01	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: New Replaced: yes

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: BCJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Speed Calibrations

Network: _____ Site: Basin Level: 50 m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: BCJ Date: 6/15/2007

INITIAL SYSTEM CHECKS

new s/n after tower fall

Sensor Serial Number: 1528 Cup / Propeller Serial Number: 1074

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.45 mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.18	1.25	0.11	pass
900	450	47.6	450	47.40	2.83	-0.22	pass
1800	900	94.9	900	93.87	5.19	-1.07	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: New Replaced: na

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: BCJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Speed Calibrations

Network: _____ Site: Basin Level: 10m

Sensor Manufacturer: Climatronics Model Number: 100075

Range: 0 to 100 mph

Tech: BCJ Date: 6/15/2007

INITIAL SYSTEM CHECKS

new s/n after tower fall

Sensor Serial Number: 5151 Cup / Propeller Serial Number: 216

Motor Speed (rpm)	Ideal Frequency (Hz)	Ideal WS (mph)	Frequency (Hz)	DAS WS (mph)	Tolerance (+/- 0.45 mph + 5% of Designated)	Error	Pass/Fail
0	0	0.3	0	0.3	0.46	0.00	pass
300	150	16.1	150	16.07	1.25	0.00	pass
900	450	47.6	450	47.61	2.83	-0.01	pass
1800	900	94.9	900	95.08	5.19	0.14	pass

Bearing Torque: < .1 gm/cm Cup/Propeller Condition: new Replaced: yes

Bearing Torque: _____ Cup/Propeller Condition: _____ Replaced: _____

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Var Motors	RM Young	18820-30-31		
Torque Wheel	RM Young	18312	NA	NA
DVM	Fluke	87		

Signature: _____ Q.C. Review: _____

ENSR INTERNATIONAL

Vertical Wind Speed Calibration Form
2nd Quarter 2007

Network: _____ Site: Basin Date: 6/15/2007

Range: -10 to + 10 m/s

Initial System Checks

Sensor		Motor Speed RPM	Ideal output m/V	Ideal output (m/s)	DAS Output (m/s)	Sensor (m/V)	Strip Chart % Full Scale	Tolerance (± 0.2 ms + 5% of Des.)
Level:	10m	0	NA	0	0.12	0	na	PASS
SN:	162	300 CW	83	1.87	1.98	-88	na	PASS
Prop SN:	63266	300 CCW	-83	-1.87	-1.77	0.79	na	PASS
Bearing Test		600 CW	166	3.75	3.85	-170	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.69	168	na	PASS
CCW:	.4 gm/cm	900 CW	250	5.62	5.71	-253	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.6	249	na	PASS
Sensor		Motor Speed RPM	Ideal output m/V	Ideal output (m/s)	DAS Output (m/s)	Sensor (m/V)	Strip Chart % Full Scale	Tolerance (± 0.2 ms + 5% of Des.)
Level:	50m	0	NA	0	0.03	4	0	PASS
SN:	169	300 CW	83	1.87	1.92	84	na	PASS
Prop SN:	62473	300 CCW	-83	-1.87	-1.87	-82	na	PASS
Bearing Test		600 CW	166	3.75	3.78	168	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.76	-167	na	PASS
CCW:	1.0 gm/cm	900 CW	250	5.62	5.66	252	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.65	-251	na	PASS
Sensor		Motor Speed RPM	Ideal output m/V	Ideal output (m/s)	DAS Output (m/s)	Sensor (m/V)	Strip Chart % Full Scale	Tolerance (± 0.2 ms + 5% of Des.)
Level:	100m	0	NA	0	0	0	0	PASS
SN:	170	300 CW	83	1.87	1.91	84	na	PASS
Prop SN:	63280	300 CCW	-83	-1.87	-1.91	-83	na	PASS
Bearing Test		600 CW	166	3.75	3.78	168	na	PASS
CW:	.5 gm/cm	600 CCW	-166	-3.75	-3.78	-167	na	PASS
CCW:	1.0 gm/cm	900 CW	250	5.62	5.66	252	na	PASS
(max 2.0 gm/cm)		900 CCW	-250	-5.62	-5.67	-251	na	PASS

Comments: _____

Test Equipment

Instrument	Manufacture	Model	Serial No.	Cal Date
Var Motors	RM Young	18820-30-31	44073	1/10/2006
DVM	Fluke	87	51702189	1/11/2005
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BJ Q.C. Review: _____

ENSR INTERNATIONAL

Wind Direction System Calibrations

Network :		Site :	Basin	Level :	10 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	4829
Range :	0 to 360 degrees	Date :	6/15/2007		
Technicians :					

		To	From
Landmark # 1:	Radome near due west	Angle:	276	94
Landmark # 2:	Radio Tower SE	Angle:	154	334

SENSOR LINEARITY CHECK

Angle	DAS Degrees	Δ Degrees	Error	Angle	DAS Degrees	Δ Degrees	Error
0°	7.8	na	na	210°	219.0	31.0	1.0
30°	37.9	30.1	0.1	240°	248.8	29.8	-0.2
60°	67.1	29.2	-0.8	270°	279.4	30.6	0.6
90°	98.0	30.9	0.9	300°	310.3	30.9	0.9
120°	128.5	30.5	0.5	330°	341.2	30.9	0.9
150°	158.0	29.5	-0.5	360°	7.8	26.6	-3.4
180°	188	30.0	0.0	Cumulative Error		0.0	

Initial

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3715

Final

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3719

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ± 5°	Tolerance
To Landmark # 1	276	275.2	na	-0.8	PASS
From Landmark # 1	94	93.6	na	-0.4	PASS
To Landmark # 2	154	153.5	na	-0.5	PASS
From Landmark # 2	334	333.8	na	-0.2	PASS

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ **Q.C. Review:**

ENSR INTERNATIONAL

Wind Direction System Calibrations

Network :		Site :	Basin	Level :	50 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	1545
Range :	0 to 360 degrees	Date :	6/15/2007		
Technicians :					
Landmark # 1:	Radome near due west			Angle:	To: 276 / From: 94
Landmark # 2:	Radio Tower SE			Angle:	154 / 334

SENSOR LINEARITY CHECK

Angle	DAS Degrees	Δ Degrees	Error	Angle	DAS Degrees	Δ Degrees	Error
0°	0.1	na	na	210°	208.3	29.6	-0.4
30°	28.7	28.5	-1.5	240°	237.1	28.8	-1.2
60°	58.7	30.0	0.0	270°	267.7	30.6	0.6
90°	89.3	30.6	0.6	300°	298.8	31.1	1.1
120°	121.1	31.9	1.9	330°	329.6	30.8	0.8
150°	148.7	27.6	-2.4	360°	359.1	29.5	-0.5
180°	178.71	30.0	0.0	Cumulative Error		-1.1	

Initial

Max Torque:	8.0 gm/cm	Torque:	4.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	3716

Final

Max Torque:	8.0 gm/cm	Torque:	3.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	1049

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ± 5°	Tolerance
To Landmark # 1	276	276.68	na	0.7	PASS
From Landmark # 1	94	94.89	na	0.9	PASS
To Landmark # 2	154	154.56	na	0.6	PASS
From Landmark # 2	334	335.5	na	1.5	PASS

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ

Q.C. Review:

ENSR INTERNATIONAL

Wind Direction System Calibrations

Network :		Site :	Basin	Level :	100 m
Sensor Manufacturer:	Climatronics	Model Number :	100076	Serial Number:	179
Range :	0 to 360 degrees	Date :	6/15/2007		
Technicians :					
Landmark # 1:	Radome near due west			Angle:	To: 276 / From: 94
Landmark # 2:	Radio Tower SE			Angle:	154 / 334

SENSOR LINEARITY CHECK

Angle	DAS Degrees	Δ Degrees	Error	Angle	DAS Degrees	Δ Degrees	Error
0°	-2.6	na	na	210°	207.3	29.9	-0.1
30°	26.1	28.7	-1.3	240°	237.2	29.9	-0.1
60°	56.0	29.9	-0.1	270°	267.1	29.9	-0.1
90°	87.2	31.2	1.2	300°	297.2	30.1	0.1
120°	117.2	30.0	0.0	330°	327.7	30.5	0.5
150°	147.6	30.4	0.4	360°	357.4	29.7	-0.3
180°	177.4	29.8	-0.2	Cumulative Error		0.0	

Initial

Max Torque:	8.0 gm/cm	Torque:	3.0 gm/cm
Vane Cond:	ok	Bearings:	ok
Pot Switching:	ok	Vane SN:	361

Final

Max Torque:	8.0 gm/cm	Torque:	
Vane Cond:		Bearings:	
Pot Switching:		Vane SN:	

FINAL SYSTEM CHECKS

Sensor Orientation	Ideal Angle	DAS	Volts	Error ± 5°	Tolerance
To Landmark # 1	276	275.8	na	-0.2	PASS
From Landmark # 1	94	94.4	na	0.4	PASS
To Landmark # 2	154	153.9	na	-0.1	PASS
From Landmark # 2	334	333.5	na	-0.5	PASS

Comments: On June 6, 2007 the tower suffered an elevator failure and dropped all tower instruments

TEST EQUIPMENT

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Torque Wheel	RM Young	18312	ENSR #1	na

Signature: BCJ **Q.C. Review:**

ENSR INTERNATIONAL

Temperature/Delta Temperature

Revised 2st Quarter 2007 Calibration (after tower failure)

Network: _____ Site: Basin Date: 6/15/2007

Temperature Range: -30 C to 50 C

Δ Temperature Range: -10 C to 10 C

Technician: BCJ

SENSORS

SENSORS	MANUFACTURER	MODEL	SERIAL
2m Probe	Climatronics YSI	100093	7997
10m Probe	Climatronics YSI	100093	
50m Probe	Climatronics YSI	100093	8011
100m	Climatronics YSI	100093	7998

INITIAL SYSTEM CHECKS

LEVEL	BATH TEMP °C	BATH TEMP °F	OBSERVED TEMP °C (BCJ)	ERROR (± 0.5 °C)	PASS FAIL	OBSERVED ΔTEMP °C (BCJ)	ERROR (± 0.1 °C)	PASS FAIL
2M	0.00	32.00	0.00	0.00	PASS	na	na	na
10M	0.00	32.00	0.00	0.00	PASS	0.00	0	PASS
50M	0.00	32.00	0.19	0.19	PASS	0.02	0.02	PASS
100M	0.00	32.00	0.08	0.08	PASS	-0.10	-0.10	PASS

LEVEL	BATH TEMP °C	BATH TEMP °F	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL	OBSERVED ΔTEMP °C	ERROR (± 0.1 °C)	PASS FAIL
2M	25.39	77.702	25.20	-0.19	PASS	na	na	na
10M	25.39	77.702	25.21	-0.18	PASS	0.01	0.01	PASS
50M	25.39	77.702	25.22	-0.17	PASS	0.01	0.01	PASS
100M	25.39	77.702	25.24	-0.15	PASS	-0.02	-0.02	PASS

LEVEL	BATH TEMP °C	BATH TEMP °F	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL	OBSERVED ΔTEMP °C	ERROR (± 0.1 °C)	PASS FAIL
2M	44.45	112.01	44.47	0.02	PASS	na	na	na
10M	44.45	112.01	44.52	0.07	PASS	0.06	0.06	PASS
50M	44.45	112.01	44.39	-0.06	PASS	-0.014	-0.014	PASS
100M	44.45	112.01	44.49	0.04	PASS	0.10	0.1	PASS

Test Equipment

Instrument	Manufacturer	Model	Serial Number	Cal Date
Temperature	TECHNE	4400	303990	1/10/2007

Aspirators: ok 2m ok 50m
ok 10m

Comments: _____

Signature: BCJ Q.C. Review: _____

ENSR

Appendix D

Meteorological and Air Quality Data Listings

02450-017-701

November 2007

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																									0			
4/6/07																									0			
4/7/07																									0			
4/8/07																									0			
4/9/07										5.3	4.2	1.7	4.8			3.0	3.6	4.3	8.2	6.8	7.1	6.9	6.5	6.8	13	8.2	1.7	5.3
4/10/07	6.5	7.3	7.5	8.4	8.5	9.5	10.6	10.4	9.4	9.4	9.4	8.1	6.9	6.8	6.5	5.5	5.2	4.0	frozen	rime	frozen	rime	frozen	rime	18	10.6	4.0	7.8
4/11/07	frozen	rime	frozen	rime	frozen	rime	frozen	rime	frozen	rime	frozen	rime	frozen	rime	4.7	5.7	5.5	4.9	4.1	3.4	2.8	2.5	2.4	2.3	10	5.7	2.3	3.8
4/12/07	1.9	1.6	1.7	1.6	1.4	1.9	2.4	2.8	2.7	3.3	2.2	2.2	2.0	2.8	3.5	2.9	1.7	1.2	1.2	2.4	2.7	2.6	1.5	1.5	24	3.5	1.2	2.2
4/13/07	1.6	3.0	4.0	3.8	3.8	3.6	3.4	2.5	2.7	3.8	4.9	4.7	5.1	4.6	3.2	3.8	3.2	2.7	2.5	1.7	2.8	1.6	2.0	2.6	24	5.1	1.6	3.2
4/14/07	4.6	4.8	4.5	5.0	4.7	5.7	5.2	4.1	4.8	4.9	4.3	3.7	2.5	2.7	2.8	2.5	3.0	3.3	1.9	3.1	4.7	4.8	3.9	5.5	24	5.7	1.9	4.0
4/15/07	5.2	5.4	4.9	5.3	5.3	4.7	4.8	4.9	6.6	6.0	5.5	6.8	7.0	7.5	7.4	7.5	6.9	6.3	6.3	7.2	8.2	9.3	8.7	7.4	24	9.3	4.7	6.5
4/16/07	5.5	7.1	7.3	6.7	5.9	5.5	8.1	9.3	11.3	12.3	13.9	13.8	12.7	12.0	11.9	12.6	11.7	9.8	8.2	5.5	3.8	2.7	2.4	2.3	24	13.9	2.3	8.4
4/17/07	2.1	1.7	1.8	1.8	1.2	1.9	0.8	2.4	6.3	6.4	5.6	4.9	5.4	5.7	6.8	7.1	7.4	7.0	6.2	4.6	5.5	5.7	6.0	6.8	24	7.4	0.8	4.6
4/18/07	7.1	8.1	7.2	7.3	7.9	7.5	7.7	9.4	9.3	7.0	8.0	8.5	9.5	10.7	11.5	11.9	12.1	12.1	10.6	7.7	7.8	9.0	10.3	10.3	24	12.1	7.0	9.1
4/19/07	10.6	9.8	10.2	10.6	10.3	10.7	9.2	11.1	12.4	14.3	16.2	17.2	14.0	13.0	12.9	13.4	7.1	7.9	8.6	8.2	8.2	8.0	7.8	5.8	24	17.2	5.8	10.7
4/20/07	3.5	4.0	3.5	3.3	5.5	5.9	3.4	1.6	3.7	2.9	3.0	3.2	3.0	3.7	3.4	2.9	3.3	6.0	7.0	5.1	4.1	3.4	3.1	3.2	24	7.0	1.6	3.8
4/21/07	2.7	2.8	2.6	2.4	4.0	3.6	2.7	5.9	6.6	6.6	5.8	4.7	4.2	2.5	2.3	1.8	2.5	2.0	3.4	7.9	7.8	4.9	4.0	4.8	24	7.9	1.8	4.1
4/22/07	2.1	3.7	6.2	5.2	5.1	4.4	4.0	5.0	6.8	7.8	8.7	11.7	10.5	10.3	9.5	9.3	9.2	8.5	6.0	4.6	4.5	4.6	4.1	3.8	24	11.7	2.1	6.5
4/23/07	4.0	3.8	3.8	3.2	2.7	2.5	1.9	0.9	2.3	2.0	2.1	2.0	2.9	3.3	2.7	3.4	3.8	4.1	4.2	4.0	5.0	3.7	2.5	3.7	24	5.0	0.9	3.1
4/24/07	4.2	4.0	3.6	3.3	3.0	3.6	4.0	4.8	5.5	5.7	5.5	5.1	5.8	6.5	5.8	6.5	6.2	6.0	4.3	2.1	1.4	1.8	2.2	1.1	24	6.5	1.1	4.3
4/25/07	1.2	0.8	1.9	2.1	4.1	2.9	2.1	1.9	2.0	1.4	1.2	2.7	3.6	2.5	2.7	2.7	4.7	5.2	3.4	3.5	3.9	4.3	4.6	4.7	24	5.2	0.8	2.9
4/26/07	4.6	4.9	4.8	5.2	5.1	5.2	4.5	2.9	4.2	4.1	3.9	3.5	3.2	4.1	3.5	4.1	3.7	3.5	3.8	3.7	6.0	4.9	5.0	4.7	24	6.0	2.9	4.3
4/27/07	4.3	3.9	4.6	5.0	4.5	2.7	5.1	6.4	7.5	8.5	8.3	8.1	8.7	9.2	8.9	8.5	7.8	8.3	5.1	4.6	5.3	5.4	4.9	5.6	24	9.2	2.7	6.3
4/28/07	5.2	5.8	5.4	5.3	6.0	5.1	5.5	4.8	6.1	8.0	7.8	7.5	7.0	6.8	6.6	6.8	7.2	7.0	6.0	5.7	5.9	6.0	6.0	5.8	24	8.0	4.8	6.2
4/29/07	5.7	6.1	6.3	5.3	3.4	3.8	4.0	4.5	4.9	7.6	8.3	8.4	8.2	7.1	6.7	6.5	5.8	6.4	5.8	4.3	4.7	5.6	6.2	7.5	24	8.4	3.4	6.0
4/30/07	7.1	6.3	3.5	5.6	6.2	9.2	13.2	12.6	12.8	10.5	7.9	5.9	3.4	4.1	4.6	5.8	7.5	8.9	7.2	7.6	6.9	7.1	5.5	5.4	24	13.2	3.4	7.3
																									0			
hr max	10.6	9.8	10.2	10.6	10.3	10.7	13.2	12.6	12.8	14.3	16.2	17.2	14.0	13.0	12.9	13.4	12.1	12.1	10.6	8.2	8.2	9.3	10.3	10.3				
hr min	1.2	0.8	1.7	1.6	1.2	1.9	0.8	0.9	2.0	1.4	1.2	1.7	2.0	2.5	2.3	1.8	1.7	1.2	1.2	1.7	1.4	1.6	1.5	1.1				
average	4.5	4.7	4.8	4.8	4.9	5.0	5.1	5.4	6.4	6.6	6.5	6.4	6.2	6.3	6.1	6.1	5.9	5.9	5.4	4.9	5.2	5.0	4.7	4.8				

monthly max hr	monthly min hr	monthly ave hr
17.2	0.8	5.5
4/19/07	4/17/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	497
possible hours	720
data capture	69.0%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																									0			
4/6/07																									0			
4/7/07																									0			
4/8/07																									0			
4/9/07										4.3	4.1	2.0	5.1			7.1	5.9	4.8	11.1	10.1	10.0	9.3	9.1	9.5	13	11.1	2.0	7.1
4/10/07	9.1	9.7	9.7	10.5	10.4	11.7	12.8	11.3	10.4	10.2	10.1	8.4	7.0	7.7	7.8	7.1	6.3	6.8	7.2	7.9	8.6	9.0	8.7	7.3	24	12.8	6.3	9.0
4/11/07	6.0	6.7	7.3	7.2	7.1	7.0	7.0	7.0	7.4	7.0	6.4	6.6	6.4	6.6	6.6	7.3	7.0	6.4	5.3	4.2	3.5	3.0	3.0	2.9	24	7.4	2.9	6.0
4/12/07	2.5	1.9	1.9	1.9	2.1	3.1	3.5	3.3	2.8	3.6	2.4	2.4	2.1	3.0	3.6	3.0	1.9	1.4	1.3	3.1	2.9	2.2	1.2	1.2	24	3.6	1.2	2.4
4/13/07	1.9	3.3	4.5	6.1	6.6	6.0	6.1	4.7	3.1	4.0	5.3	5.1	5.7	5.1	3.8	4.4	3.6	2.9	3.0	2.8	3.7	2.8	2.5	2.4	24	6.6	1.9	4.1
4/14/07	4.5	6.5	8.0	7.8	7.8	8.0	7.5	7.0	5.5	5.2	4.7	3.9	2.9	3.1	3.1	3.0	3.4	3.7	2.2	3.3	4.2	5.0	7.6	10.0	24	10.0	2.2	5.3
4/15/07	10.1	10.4	8.9	9.3	9.1	9.5	9.6	7.3	7.0	5.9	5.1	6.4	6.6	7.3	7.3	7.3	7.1	8.0	10.1	12.6	13.9	14.8	14.6	10.5	24	14.8	5.1	9.1
4/16/07	9.5	10.5	12.7	11.5	10.2	9.3	11.2	11.5	13.5	14.3	16.2	15.7	14.7	13.7	12.2	13.7	14.4	12.0	10.8	9.5	8.3	6.2	6.0	5.7	24	16.2	5.7	11.4
4/17/07	5.4	4.1	3.7	4.4	4.9	5.5	4.9	5.0	7.1	7.2	6.2	5.4	6.0	6.2	7.6	8.0	8.4	8.0	8.3	9.2	11.1	10.7	11.8	13.5	24	13.5	3.7	7.2
4/18/07	12.7	13.4	13.0	13.5	14.0	13.4	12.8	11.5	10.1	6.9	8.4	9.3	10.5	11.7	12.8	13.4	13.6	13.8	12.9	11.3	11.9	13.3	14.3	14.2	24	14.3	6.9	12.2
4/19/07	14.5	13.5	13.9	14.4	13.7	13.6	12.0	13.2	14.3	16.4	18.5	19.9	17.2	16.2	15.0	16.3	7.8	9.8	10.8	11.8	12.2	11.0	11.3	8.6	24	19.9	7.8	13.6
4/20/07	4.7	5.1	4.9	4.0	6.7	7.5	7.6	3.7	3.8	3.1	3.7	3.8	3.6	4.2	3.8	3.0	4.8	8.2	10.2	7.7	6.3	4.9	3.9	4.2	24	10.2	3.0	5.1
4/21/07	3.7	3.7	4.0	4.5	9.0	3.9	3.5	7.5	7.5	7.2	6.6	5.0	4.5	2.7	2.6	2.0	2.8	2.1	4.4	10.0	10.5	6.4	5.1	6.6	24	10.5	2.0	5.2
4/22/07	2.8	5.1	8.3	6.9	6.6	6.2	6.0	6.0	7.8	8.8	9.8	13.6	12.2	12.0	10.9	10.8	10.6	10.3	8.4	8.4	9.1	8.0	7.1	6.6	24	13.6	2.8	8.4
4/23/07	7.1	6.1	4.5	3.3	2.5	2.8	4.1	1.9	2.4	2.2	2.2	2.3	3.2	3.6	2.9	3.8	4.2	4.8	5.7	7.1	7.4	6.3	3.7	5.4	24	7.4	1.9	4.1
4/24/07	7.9	7.9	7.3	5.7	5.1	5.9	6.3	6.4	6.1	6.3	6.2	5.6	6.3	7.2	6.5	7.2	6.9	6.9	5.6	3.9	3.8	3.2	5.3	4.7	24	7.9	3.2	6.0
4/25/07	5.2	4.4	4.3	2.6	2.8	4.1	6.2	5.4	3.0	1.5	1.1	2.9	4.0	2.7	2.8	3.1	5.3	5.8	5.6	4.7	4.7	5.1	5.9	6.4	24	6.4	1.1	4.2
4/26/07	6.9	7.5	7.2	6.2	7.0	8.2	8.6	5.2	4.8	4.5	4.4	3.9	3.4	4.4	3.9	4.6	4.2	3.8	4.4	5.6	8.1	8.1	8.9	8.4	24	8.9	3.4	5.9
4/27/07	7.2	7.6	8.4	8.9	8.3	5.0	7.4	7.2	8.3	9.4	9.2	9.0	9.8	10.3	10.0	9.7	8.8	9.4	7.0	7.6	8.1	8.5	8.3	8.3	24	10.3	5.0	8.4
4/28/07	8.0	8.8	8.0	7.6	7.9	7.8	7.6	5.7	6.6	8.7	8.7	8.2	7.8	7.6	7.4	7.5	8.1	7.9	8.0	9.7	12.2	12.2	11.8	10.1	24	12.2	5.7	8.5
4/29/07	10.0	10.4	10.1	8.0	5.4	3.5	5.0	7.0	6.4	9.0	9.5	9.2	8.9	7.8	7.4	7.6	6.6	7.3	7.5	7.8	10.5	11.2	11.0	11.9	24	11.9	3.5	8.3
4/30/07	11.8	10.4	6.6	9.2	8.5	12.9	17.0	15.2	15.0	11.6	8.7	6.4	3.9	4.6	5.4	6.6	8.5	10.4	9.2	10.4	10.1	10.4	9.1	8.9	24	17.0	3.9	9.6
																									0			

																									monthly	monthly	monthly
hr max	14.5	13.5	13.9	14.4	14.0	13.6	17.0	15.2	15.0	16.4	18.5	19.9	17.2	16.2	15.0	16.3	14.4	13.8	12.9	12.6	13.9	14.8	14.6	14.2	max hr	min hr	ave hr
hr min	1.9	1.9	1.9	1.9	2.1	2.8	3.5	1.9	2.4	1.5	1.1	2.0	2.1	2.7	2.6	2.0	1.9	1.4	1.3	2.8	2.9	2.2	1.2	1.2	19.9	1.1	7.3
average	7.2	7.5	7.5	7.3	7.4	7.4	7.9	7.3	7.3	7.2	7.2	7.0	6.9	7.0	6.8	7.1	6.8	7.0	7.2	7.7	8.2	7.8	7.7	7.6	4/19/07	4/25/07	

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																								
4/2/07																								
4/3/07																								
4/4/07																								
4/5/07																								
4/6/07																								
4/7/07																								
4/8/07																								
4/9/07										5.2	5.9	1.5	6.0			8.6	7.8	5.2	13.0	13.0	11.8	11.8	11.3	11.9
4/10/07	11.6	11.8	11.4	12.1	11.8	13.1	13.4	10.4	9.2	9.5	9.3	7.8	6.5	5.9	5.5	5.1	4.4	4.9	5.1	5.4	5.9	6.1	6.1	5.4
4/11/07	5.1	4.0	3.9	5.1	5.4	4.7	4.2	5.5	5.7	5.2	4.5	4.0	3.4	3.4	3.7	4.4	4.2	3.8	3.2	2.9	2.3	2.2	2.0	1.9
4/12/07	1.6	1.1	1.2	1.3	1.8	2.4	2.9	2.7	2.0	2.5	1.7	1.7	1.5	2.2	3.4	2.9	2.0	1.5	1.4	2.8	2.4	1.8	1.0	1.5
4/13/07	2.5	3.6	5.1	6.8	6.2	5.7	6.6	4.8	3.7	4.0	5.2	5.1	5.8	5.2	4.0	4.6	3.7	3.0	3.2	3.2	3.9	3.0	2.7	2.5
4/14/07	2.3	4.8	6.4	6.0	6.1	6.7	6.9	7.0	6.3	5.3	4.8	4.1	3.0	3.2	3.4	3.3	3.5	4.0	2.4	3.8	3.3	4.4	9.5	10.3
4/15/07	12.7	14.1	12.2	12.0	12.7	12.8	11.9	11.2	8.3	6.5	5.2	6.1	6.8	7.5	7.9	7.7	6.9	7.6	11.9	15.6	16.6	13.3	11.2	12.8
4/16/07	15.6	15.7	15.3	13.7	9.7	10.0	14.5	13.3	14.3	14.8	16.8	16.3	15.3	14.1	14.3	15.3	15.0	12.5	11.6	9.9	11.6	12.1	11.5	10.2
4/17/07	9.7	8.0	8.0	8.3	7.7	8.5	8.3	8.6	7.5	7.5	6.3	5.7	6.2	6.5	8.0	8.4	8.6	8.3	9.0	10.2	13.2	14.7	15.1	16.4
4/18/07	17.4	17.9	17.4	17.9	18.3	17.2	16.8	14.0	9.5	6.2	8.0	9.3	10.7	12.0	13.1	13.8	13.8	14.3	14.2	14.6	16.3	18.1	18.4	18.0
4/19/07	18.1	17.1	17.5	18.0	16.7	16.0	14.6	15.1	15.5	16.9	18.9	20.7	19.0	18.7	15.9	17.8	9.5	11.7	12.7	14.5	14.3	10.7	15.4	9.7
4/20/07	5.2	4.6	4.2	4.4	5.1	6.7	9.0	7.3	3.9	3.6	4.8	5.1	4.8	5.6	5.3	3.6	5.0	8.6	11.3	10.1	8.6	7.1	4.5	4.8
4/21/07	6.1	5.2	5.3	4.0	8.2	3.3	4.9	9.2	8.1	7.3	6.4	5.3	4.6	2.7	2.5	2.1	3.0	2.3	4.6	11.6	12.3	7.6	5.2	7.4
4/22/07	3.6	5.6	9.6	8.4	7.8	7.8	8.4	7.3	8.8	9.1	10.1	14.2	12.9	12.5	11.4	11.3	11.0	10.7	9.4	10.4	10.0	9.5	9.1	8.8
4/23/07	10.0	7.8	5.9	4.7	2.9	3.5	3.7	3.0	3.2	2.2	2.2	2.4	3.2	3.8	3.0	3.9	4.4	5.1	7.0	8.5	8.1	7.5	4.4	7.1
4/24/07	10.4	10.4	10.2	7.9	7.4	8.1	8.8	8.8	6.5	6.6	6.7	6.1	6.9	7.7	6.9	7.8	7.9	8.1	7.3	4.7	4.6	5.7	6.4	6.5
4/25/07	6.2	4.5	3.9	2.3	2.2	3.7	6.0	5.5	4.3	1.6	1.2	3.0	4.3	2.7	2.9	3.3	5.4	5.9	5.7	4.8	4.6	5.0	5.8	6.4
4/26/07	7.2	7.2	6.8	6.4	7.5	8.2	8.8	7.7	5.4	4.6	4.5	4.2	3.7	4.6	4.0	4.7	4.4	4.0	4.6	5.8	9.7	11.0	11.6	10.0
4/27/07	8.8	8.5	9.7	11.8	10.8	7.4	9.7	8.2	8.5	9.6	9.4	9.3	10.1	10.7	10.5	10.1	9.2	9.8	8.2	8.6	9.1	9.9	9.3	7.9
4/28/07	7.1	7.4	8.8	8.6	8.7	8.4	7.8	7.5	7.3	8.7	8.7	8.3	8.1	7.8	7.7	7.8	8.3	8.1	8.7	10.6	13.1	14.3	13.9	13.9
4/29/07	13.7	12.4	9.2	8.5	5.1	3.5	7.4	9.4	8.0	9.5	10.1	10.2	10.2	8.6	8.0	7.6	7.2	7.4	8.0	8.8	12.8	15.1	15.7	17.0
4/30/07	16.7	15.2	9.9	13.4	11.6	16.5	20.7	17.5	15.9	11.8	8.8	6.6	4.0	4.6	5.4	6.9	8.8	11.0	10.3	12.5	13.3	13.8	13.0	13.2
hr max	18.1	17.9	17.5	18.0	18.3	17.2	20.7	17.5	15.9	16.9	18.9	20.7	19.0	18.7	15.9	17.8	15.0	14.3	14.2	15.6	16.6	18.1	18.4	18.0
hr min	1.6	1.1	1.2	1.3	1.8	2.4	2.9	2.7	2.0	1.6	1.2	1.5	1.5	2.2	2.5	2.1	2.0	1.5	1.4	2.8	2.3	1.8	1.0	1.5
average	9.1	8.9	8.7	8.6	8.3	8.3	9.3	8.8	7.7	7.2	7.3	7.1	7.1	7.1	7.0	7.3	7.0	7.2	7.9	8.7	9.4	9.3	9.2	9.3

valid hr count	daily max hr	daily min hr	daily ave hr
0			
0			
0			
0			
0			
0			
0			
0			
13	13.0	1.5	8.7
24	13.4	4.4	8.2
24	5.7	1.9	3.9
24	3.4	1.0	2.0
24	6.8	2.5	4.3
24	10.3	2.3	5.0
24	16.6	5.2	10.5
24	16.8	9.7	13.5
24	16.4	5.7	9.1
24	18.4	6.2	14.5
24	20.7	9.5	15.6
24	11.3	3.6	6.0
24	12.3	2.1	5.8
24	14.2	3.6	9.5
24	10.0	2.2	4.9
24	10.4	4.6	7.4
24	6.4	1.2	4.2
24	11.6	3.7	6.5
24	11.8	7.4	9.4
24	14.3	7.1	9.2
24	17.0	3.5	9.7
24	20.7	4.0	11.7
0			

monthly max hr	monthly min hr	monthly ave hr
20.7	1.0	8.2
4/19/07	4/12/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0
4/2/07																									0
4/3/07																									0
4/4/07																									0
4/5/07																									0
4/6/07																									0
4/7/07																									0
4/8/07																									0
4/9/07										341	63	91	90			324	329	337	74	68	64	76	84	84	13
4/10/07	95	111	116	115	117	113	116	121	123	121	124	122	96	111	110	103	103	92	83	86	89	90	91	79	24
4/11/07	67	55	56	63	65	64	62	72	78	70	69	63	62	57	56	52	55	56	54	45	43	40	43	36	24
4/12/07	24	336	341	340	309	301	328	353	350	344	318	285	293	281	265	272	264	301	277	261	274	290	289	270	24
4/13/07	259	250	241	229	230	234	225	220	220	215	219	219	222	226	277	313	294	289	319	331	329	245	302	260	24
4/14/07	213	238	234	230	234	244	245	241	247	242	228	244	239	244	236	246	250	235	220	187	171	172	183	195	24
4/15/07	206	204	202	202	196	189	190	189	193	193	184	183	184	186	185	184	181	174	163	155	161	167	168	175	24
4/16/07	185	192	198	209	229	281	326	334	351	2	6	3	10	13	14	22	34	38	44	53	60	75	64	67	24
4/17/07	56	46	31	48	66	42	20	54	91	99	96	94	89	98	90	89	96	105	104	106	112	110	115	123	24
4/18/07	128	134	140	144	146	145	141	136	147	161	149	141	133	127	126	123	127	132	127	126	119	116	116	122	24
4/19/07	121	123	133	131	129	137	125	123	132	137	133	134	134	126	148	145	190	166	169	172	177	184	218	234	24
4/20/07	214	203	201	202	181	177	163	141	360	2	296	141	141	125	353	323	23	61	67	63	59	40	25	39	24
4/21/07	38	33	45	40	129	353	291	317	336	355	31	66	98	102	105	119	44	140	37	342	5	10	4	347	24
4/22/07	20	2	341	346	357	0	337	343	356	2	357	3	3	356	352	347	351	351	354	331	320	323	316	316	24
4/23/07	321	308	296	314	315	335	12	318	51	96	55	70	62	50	71	93	109	84	57	81	6	24	72	47	24
4/24/07	72	91	66	68	73	71	65	72	67	67	61	56	51	50	71	59	54	55	51	78	76	4	61	78	24
4/25/07	93	97	87	339	309	319	336	328	340	326	152	166	198	163	154	202	237	255	249	229	220	227	234	239	24
4/26/07	234	237	239	245	252	245	238	239	263	248	235	216	189	173	167	204	195	196	208	190	303	311	305	280	24
4/27/07	281	284	294	289	283	263	290	299	303	303	302	299	289	294	305	299	302	292	292	276	265	261	258	262	24
4/28/07	262	268	254	255	264	254	233	228	237	250	233	236	248	259	258	254	252	236	219	199	195	193	196	197	24
4/29/07	194	193	192	206	219	218	290	350	24	41	45	46	48	49	57	44	46	79	72	82	85	92	97	106	24
4/30/07	110	95	41	70	34	66	107	100	110	113	112	92	79	26	30	356	340	340	343	338	333	336	339	343	24
																									0

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0
4/2/07																									0
4/3/07																									0
4/4/07																									0
4/5/07																									0
4/6/07																									0
4/7/07																									0
4/8/07																									0
4/9/07										1	89	111	100			322	352	359	89	81	75	84	93	95	13
4/10/07	105	120	125	120	121	115	119	122	122	119	121	120	110	105	103	98	96	85	74	72	71	71	71	62	24
4/11/07	52	41	41	46	47	45	43	53	56	50	49	45	43	37	36	34	35	36	34	28	27	24	26	22	24
4/12/07	15	335	334	330	301	287	314	344	342	335	310	270	277	266	244	252	252	283	293	243	262	280	265	217	24
4/13/07	205	218	222	210	207	209	202	206	206	194	196	197	199	204	256	297	273	268	303	322	328	331	305	269	24
4/14/07	189	200	201	199	207	221	224	224	221	216	203	218	216	219	210	225	223	210	197	166	152	153	166	172	24
4/15/07	182	182	186	188	185	174	172	167	169	168	157	155	158	160	160	157	154	149	138	132	137	141	144	153	24
4/16/07	165	167	176	188	217	271	315	325	344	356	359	357	2	5	5	12	22	24	30	38	46	53	53	59	24
4/17/07	60	56	57	62	71	62	64	67	85	90	87	85	81	86	81	79	85	94	93	91	94	95	104	114	24
4/18/07	121	123	129	135	136	138	136	133	142	153	143	132	122	115	117	115	118	123	118	118	110	109	110	115	24
4/19/07	114	115	115	109	110	115	107	117	126	132	128	128	127	121	143	139	164	138	139	141	144	154	188	215	24
4/20/07	210	186	177	170	143	136	137	131	26	358	157	158	142	135	31	7	30	61	68	67	65	56	44	46	24
4/21/07	48	43	62	84	136	20	303	313	339	358	34	70	100	105	103	118	46	143	81	348	9	14	9	356	24
4/22/07	17	10	346	349	0	5	345	346	1	5	1	5	6	360	356	351	354	355	359	341	349	358	357	353	24
4/23/07	356	348	343	360	356	10	11	22	59	94	65	75	65	51	80	96	109	86	59	81	15	27	74	56	24
4/24/07	75	91	79	76	81	79	74	78	70	69	64	59	54	53	73	61	58	57	57	71	67	53	81	81	24
4/25/07	90	92	100	69	356	339	333	334	339	333	124	170	199	175	157	203	240	257	252	240	227	229	231	241	24
4/26/07	240	242	243	246	255	255	256	259	268	252	240	218	193	174	173	208	202	201	214	190	311	315	312	291	24
4/27/07	289	294	304	294	290	290	300	303	306	306	304	301	292	297	308	302	305	294	296	289	286	283	283	287	24
4/28/07	288	288	282	278	285	277	255	247	243	252	236	240	250	262	262	257	256	238	224	209	203	203	203	199	24
4/29/07	195	196	206	231	263	280	341	356	28	46	49	48	50	52	60	49	51	81	74	79	85	93	98	107	24
4/30/07	113	103	65	80	45	68	110	104	113	116	114	97	78	30	32	358	342	343	346	342	339	341	343	346	24
																									0

Validated by:	Roger L. Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0
4/2/07																									0
4/3/07																									0
4/4/07																									0
4/5/07																									0
4/6/07																									0
4/7/07																									0
4/8/07																									0
4/9/07										349	103	113	111			17	16	14	96	93	87	94	106	111	13
4/10/07	117	128	132	126	127	122	124	126	127	124	125	125	116	112	111	106	104	94	83	80	79	80	79	71	24
4/11/07	61	51	50	54	55	53	52	62	63	58	56	53	50	44	43	40	41	41	40	35	34	31	36	36	24
4/12/07	28	355	340	331	308	294	322	343	348	340	316	276	282	274	249	258	261	285	272	248	266	287	238	197	24
4/13/07	201	220	234	216	215	221	215	218	216	204	201	201	204	209	261	299	275	269	306	322	329	333	310	282	24
4/14/07	222	207	211	211	213	221	220	221	221	221	208	222	222	221	214	230	226	214	201	176	160	160	172	178	24
4/15/07	180	184	196	201	197	186	181	180	176	173	160	159	161	165	165	162	158	153	143	142	147	153	158	166	24
4/16/07	179	180	186	206	231	285	324	332	349	359	3	0	6	10	9	17	27	30	35	45	53	60	64	68	24
4/17/07	70	70	74	77	86	83	82	83	92	95	93	91	87	90	86	86	92	100	99	99	100	101	116	123	24
4/18/07	126	129	138	142	142	144	141	141	148	157	147	137	126	120	121	120	123	127	123	122	116	118	117	121	24
4/19/07	121	122	123	119	119	125	118	125	132	136	132	132	131	126	148	143	176	146	148	151	155	168	201	237	24
4/20/07	238	219	210	198	155	138	145	148	36	13	190	147	165	138	126	79	43	72	78	76	76	77	88	75	24
4/21/07	72	78	110	111	147	344	256	310	342	3	39	77	106	112	112	117	52	146	95	355	14	21	18	7	24
4/22/07	28	21	356	355	5	10	356	350	5	10	4	10	10	4	0	356	358	360	3	349	357	11	9	11	24
4/23/07	12	11	15	37	38	56	45	83	90	103	73	78	72	58	87	102	112	93	67	87	29	38	81	69	24
4/24/07	82	96	84	83	91	90	90	92	78	75	70	65	60	61	79	67	64	63	64	75	76	73	95	90	24
4/25/07	96	99	106	76	9	350	342	341	342	338	136	177	200	182	159	206	245	261	258	248	234	235	236	245	24
4/26/07	247	251	252	256	262	264	259	272	274	257	245	222	196	179	180	209	206	208	221	194	319	322	319	303	24
4/27/07	301	308	312	299	299	306	315	310	311	310	308	304	296	302	312	305	309	299	302	299	295	297	299	306	24
4/28/07	305	298	300	299	301	295	282	271	255	257	241	244	256	267	268	262	261	243	230	218	211	211	209	202	24
4/29/07	197	209	230	252	290	332	358	4	36	53	54	54	55	58	66	56	58	87	81	86	92	101	103	112	24
4/30/07	118	111	86	95	62	76	114	110	119	121	119	103	84	35	37	1	347	347	351	346	345	347	349	352	24
																									0

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																									0			
4/6/07																									0			
4/7/07																									0			
4/8/07																									0			
4/9/07										19.6	41.0	9.7	9.7			3.0	48.3	16.8	6.5	7.1	6.5	7.2	6.8	6.2	13	48.3	3.0	14.5
4/10/07	6.4	5.3	5.7	5.7	5.5	5.6	5.7	5.8	5.5	5.8	5.8	6.1	8.8	7.1	6.8	6.3	7.1	8.0	7.4	7.7	7.3	7.4	7.4	7.9	24	8.8	5.3	6.6
4/11/07	8.4	7.2	7.0	8.5	8.1	8.1	8.4	8.6	8.7	9.0	9.1	9.0	8.0	8.7	10.4	7.6	8.0	7.2	8.7	8.1	8.6	8.3	7.2	7.2	24	10.4	7.0	8.3
4/12/07	11.3	6.2	4.3	5.3	3.1	3.7	6.4	8.0	7.7	9.2	19.7	14.1	13.7	10.9	12.8	12.9	27.6	52.2	61.8	4.5	5.7	3.1	8.4	5.9	24	61.8	3.1	13.3
4/13/07	4.9	3.0	3.5	4.1	4.6	4.1	3.7	6.1	8.3	9.8	12.7	11.3	10.9	10.3	12.7	9.9	11.5	14.6	8.6	7.6	4.6	44.1	7.5	18.1	24	44.1	3.0	9.9
4/14/07	3.9	3.9	2.9	1.5	1.9	1.4	2.3	4.2	5.9	8.4	10.8	25.3	35.3	36.9	46.5	33.9	34.4	21.5	34.8	4.0	2.3	2.4	2.0	2.3	24	46.5	1.4	13.7
4/15/07	4.2	4.4	3.5	3.3	2.6	2.8	3.3	4.7	5.3	7.7	7.2	8.8	8.1	8.6	8.9	8.1	6.9	5.5	4.0	4.0	4.3	4.4	4.4	4.0	24	8.9	2.6	5.4
4/16/07	3.9	4.1	5.0	6.4	4.0	6.7	4.6	4.8	5.6	7.6	9.3	8.8	11.1	11.0	11.3	11.5	10.5	10.1	8.9	6.6	6.5	7.6	8.4	9.3	24	11.5	3.9	7.7
4/17/07	10.8	12.9	9.9	8.7	12.5	8.2	44.3	14.1	9.9	12.4	18.4	21.6	20.8	18.9	15.0	15.1	13.4	9.7	6.7	4.0	3.8	5.1	3.8	3.9	24	44.3	3.8	12.7
4/18/07	4.5	4.6	4.7	3.9	4.1	4.3	4.7	4.9	5.6	7.6	8.4	10.6	11.8	10.3	8.6	9.1	8.6	7.0	5.8	5.0	5.0	5.3	5.3	5.4	24	11.8	3.9	6.5
4/19/07	5.2	5.6	7.0	6.1	6.4	5.8	9.8	6.2	5.7	6.1	6.2	5.9	5.4	5.5	6.5	5.4	7.6	5.8	5.2	4.7	4.7	4.9	7.4	8.1	24	9.8	4.7	6.1
4/20/07	7.5	2.9	1.9	1.6	3.5	2.5	6.5	19.5	51.4	47.0	85.6	21.8	13.0	41.0	40.0	48.4	9.3	37.9	7.3	7.7	8.4	11.2	7.8	8.1	24	85.6	1.6	20.5
4/21/07	7.2	7.9	8.4	23.8	12.6	46.9	12.4	7.8	7.5	8.2	10.8	14.4	14.5	22.0	25.4	31.5	22.4	19.7	38.3	7.9	6.9	8.4	7.1	7.5	24	46.9	6.9	15.8
4/22/07	36.1	6.5	6.1	6.7	6.5	5.9	6.6	7.5	6.9	6.8	7.7	6.1	8.2	8.9	9.1	8.4	8.8	7.8	5.9	5.7	4.0	4.1	3.5	3.9	24	36.1	3.5	7.8
4/23/07	4.3	5.2	4.3	3.8	6.4	3.1	7.6	41.1	14.9	39.9	45.7	40.9	18.1	21.1	46.6	21.9	16.9	9.6	7.2	7.3	18.0	8.6	17.0	7.5	24	46.6	3.1	17.4
4/24/07	5.9	5.4	7.1	6.4	7.8	6.7	6.5	7.1	8.9	10.3	13.1	13.6	12.2	11.3	15.6	12.7	10.4	9.0	7.6	9.7	15.9	9.4	8.1	34.1	24	34.1	5.4	10.6
4/25/07	12.9	11.8	9.5	27.4	3.7	6.1	9.9	7.8	10.7	36.1	65.5	24.0	22.4	47.3	56.5	33.2	25.6	9.7	5.7	5.9	9.2	3.8	4.0	2.4	24	65.5	2.4	18.8
4/26/07	9.4	4.7	1.8	2.0	2.2	6.0	6.9	7.9	8.2	11.8	12.5	25.4	41.1	26.2	32.0	31.4	25.9	21.9	14.9	15.1	8.4	5.7	5.7	5.9	24	41.1	1.8	13.9
4/27/07	5.4	5.1	5.1	5.1	5.1	8.7	6.6	6.6	8.2	8.3	8.8	10.4	10.9	11.4	12.2	9.6	9.1	9.8	5.9	4.5	4.8	4.3	4.3	4.4	24	12.2	4.3	7.3
4/28/07	4.4	4.0	4.2	3.2	4.0	7.1	4.1	4.8	7.4	8.8	9.4	13.4	12.2	15.2	16.0	16.1	9.7	9.8	6.9	3.9	3.5	3.1	3.4	2.3	24	16.1	2.3	7.4
4/29/07	1.8	1.9	1.7	3.6	10.3	8.5	9.6	7.1	7.9	9.0	9.1	9.4	10.7	11.2	14.5	12.1	10.9	8.6	6.2	4.3	4.0	5.5	5.2	5.0	24	14.5	1.7	7.4
4/30/07	4.8	8.0	10.0	7.6	13.5	8.8	6.7	6.7	6.3	7.3	10.1	12.9	28.1	20.8	15.8	11.8	9.9	8.1	6.2	5.6	5.9	6.0	5.9	5.8	24	28.1	4.8	9.7
																									0			
hr max	36.1	12.9	10.0	27.4	13.5	46.9	44.3	41.1	51.4	47.0	85.6	40.9	41.1	47.3	56.5	48.4	48.3	52.2	61.8	15.1	18.0	44.1	17.0	34.1				
hr min	1.8	1.9	1.7	1.5	1.9	1.4	2.3	4.2	5.3	5.8	5.8	5.9	5.4	5.5	6.5	3.0	6.9	5.5	4.0	3.9	2.3	2.4	2.0	2.3				
average	7.8	5.7	5.4	6.9	6.1	7.7	8.4	9.1	9.8	13.5	19.4	14.7	15.2	17.4	20.2	16.4	15.6	14.1	12.3	6.4	6.7	7.7	6.4	7.5				

monthly max hr	monthly min hr	monthly ave hr
85.6	1.4	10.9
4/20/07	4/14/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																									0			
4/6/07																									0			
4/7/07																									0			
4/8/07																									0			
4/9/07										31.4	50.8	10.4	33.2			10.9	55.2	15.7	3.6	4.3	3.9	4.2	4.1	3.6	13	55.2	3.6	17.8
4/10/07	4.4	4.2	4.6	4.5	4.6	4.7	4.9	4.5	4.4	4.4	4.4	4.8	5.1	5.1	5.1	3.8	5.0	5.4	4.6	4.6	4.6	4.3	4.4	4.2	24	5.4	3.8	4.6
4/11/07	4.8	4.7	4.4	5.5	5.2	5.0	5.1	5.2	4.9	5.2	5.2	5.0	4.7	4.8	5.9	3.4	4.3	3.6	5.2	3.9	5.2	4.5	3.2	3.7	24	5.9	3.2	4.7
4/12/07	6.9	7.3	4.0	4.8	3.0	2.3	6.3	6.5	6.6	8.6	17.8	11.5	13.2	9.4	11.9	11.8	20.8	50.5	61.5	3.8	6.5	3.8	10.0	3.3	24	61.5	2.3	12.2
4/13/07	3.4	2.9	3.6	2.9	2.1	2.3	2.3	3.3	5.4	7.4	8.8	9.5	10.2	8.7	13.2	10.5	10.5	14.7	9.3	10.0	2.4	2.9	4.3	10.8	24	14.7	2.1	6.7
4/14/07	9.3	3.1	1.2	1.6	1.8	1.4	1.7	1.8	4.1	6.3	8.8	23.2	31.2	25.6	42.3	32.7	27.9	20.1	30.3	4.0	1.7	2.2	2.1	1.9	24	42.3	1.2	11.9
4/15/07	2.3	2.2	2.0	1.7	2.0	2.5	1.7	3.0	4.8	6.0	5.2	7.0	6.5	7.3	8.4	6.7	5.5	4.1	2.3	1.7	1.8	1.9	1.5	1.4	24	8.4	1.4	3.7
4/16/07	1.2	1.6	2.8	2.7	3.3	6.0	3.9	4.1	4.5	5.3	5.9	5.7	7.3	6.7	7.5	7.6	6.1	6.5	5.2	3.2	2.9	2.9	3.5	4.6	24	7.6	1.2	4.6
4/17/07	5.0	5.7	5.3	4.2	1.9	2.2	2.5	6.2	6.8	8.8	13.8	16.6	15.7	14.6	11.3	11.4	10.0	6.6	4.0	1.9	1.7	2.8	1.5	1.5	24	16.6	1.5	6.8
4/18/07	2.5	3.1	1.9	1.1	0.9	1.0	2.0	3.5	3.8	6.0	7.0	8.8	10.3	8.8	7.5	8.1	7.5	5.7	4.5	4.0	3.4	3.5	4.0	3.9	24	10.3	0.9	4.7
4/19/07	3.9	4.0	4.2	4.4	5.0	4.3	4.6	4.9	4.7	4.6	5.1	4.3	4.2	4.3	4.6	3.9	5.6	4.1	3.8	2.8	2.7	2.7	5.2	8.8	24	8.8	2.7	4.4
4/20/07	8.6	6.4	3.8	1.9	2.9	1.2	2.9	9.4	45.0	48.7	9.9	58.0	14.9	26.6	36.4	37.6	9.0	19.2	4.2	4.9	5.7	8.9	6.1	5.8	24	58.0	1.2	15.8
4/21/07	5.1	6.8	6.3	13.6	3.6	32.5	9.9	9.8	5.6	6.4	7.5	10.9	12.4	17.7	22.3	33.8	20.7	16.9	27.3	6.9	5.4	6.5	5.3	6.9	24	33.8	3.6	12.5
4/22/07	23.5	4.7	3.9	5.4	5.3	4.4	5.0	6.0	5.6	4.9	6.3	3.8	6.7	7.3	8.8	6.9	7.6	5.9	4.7	2.8	1.8	3.0	2.6	2.8	24	23.5	1.8	5.8
4/23/07	3.0	2.9	3.8	3.8	4.8	3.7	3.2	15.3	14.3	26.9	33.8	30.4	16.7	17.1	34.7	19.1	13.6	7.9	4.1	3.2	17.0	5.5	13.2	5.7	24	34.7	2.9	12.7
4/24/07	2.9	2.8	2.9	4.0	5.0	4.0	3.5	5.3	6.5	7.5	9.8	10.5	9.8	9.6	13.1	11.2	7.7	6.6	4.2	5.0	4.2	5.4	3.2	2.9	24	13.1	2.8	6.2
4/25/07	1.6	2.3	2.4	6.4	6.1	2.4	1.9	2.1	7.0	32.6	65.9	15.2	16.4	41.2	40.2	25.9	21.6	8.1	2.7	3.2	7.4	2.1	1.8	1.4	24	65.9	1.4	13.2
4/26/07	5.0	1.6	1.1	1.5	1.1	1.5	2.1	5.3	7.0	9.4	10.3	21.5	31.9	23.0	30.6	23.5	20.9	20.4	12.6	14.4	6.3	3.3	2.8	2.6	24	31.9	1.1	10.8
4/27/07	3.4	3.2	2.7	2.2	2.2	5.3	3.8	5.2	6.2	6.2	6.8	8.5	10.0	9.9	10.9	8.5	7.7	9.3	4.1	2.3	2.6	2.4	1.6	1.2	24	10.9	1.2	5.3
4/28/07	1.3	1.8	2.1	1.8	1.7	8.8	3.6	6.6	6.2	7.3	7.6	10.6	9.7	12.1	13.2	14.5	9.4	8.5	5.0	3.0	1.6	1.1	1.3	1.7	24	14.5	1.1	5.9
4/29/07	1.6	1.4	2.2	3.4	6.2	16.2	8.3	5.9	6.5	6.8	6.4	7.2	8.0	8.7	11.4	9.7	8.4	6.6	4.1	2.1	1.3	2.7	3.0	3.5	24	16.2	1.3	5.9
4/30/07	2.9	4.8	7.8	4.9	11.0	6.6	5.6	5.4	5.2	6.3	9.2	10.9	23.6	16.7	13.2	10.0	8.8	7.3	4.5	3.8	3.8	4.2	3.5	4.0	24	23.6	2.9	7.7
																									0			
hr max	23.5	7.3	7.8	13.6	11.0	32.5	9.9	15.3	45.0	48.7	65.9	58.0	33.2	41.2	42.3	37.6	55.2	50.5	61.5	14.4	17.0	8.9	13.2	10.8				
hr min	1.2	1.4	1.1	1.1	0.9	1.0	1.7	1.8	3.8	4.4	4.4	3.8	4.2	4.3	4.6	3.4	4.3	3.6	2.3	1.7	1.3	1.1	1.3	1.2				
average	4.9	3.7	3.5	3.9	3.8	5.6	4.0	5.7	7.9	11.7	13.9	13.4	13.7	13.6	16.8	14.2	13.4	11.5	9.6	4.4	4.3	3.7	4.0	3.9				

monthly max hr	monthly min hr	monthly ave hr
65.9	0.9	8.2
4/25/07	4/18/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																									0			
4/6/07																									0			
4/7/07																									0			
4/8/07																									0			
4/9/07										39.0	11.2	10.0	10.0			9.4	22.4	14.4	2.6	3.5	3.7	3.1	3.6	3.0	13	39.0	2.6	10.5
4/10/07	3.1	3.0	3.7	3.8	3.7	3.6	3.9	3.8	3.6	3.7	3.6	3.8	4.0	4.3	4.1	2.9	4.5	4.6	4.2	3.9	3.9	3.4	3.6	3.7	24	4.6	2.9	3.8
4/11/07	4.4	4.1	3.7	4.4	4.1	4.2	4.8	4.9	4.5	4.9	4.9	4.5	3.9	3.9	4.8	3.2	3.4	3.0	4.4	3.0	3.7	3.1	2.2	2.6	24	4.9	2.2	3.9
4/12/07	5.4	4.5	2.9	3.5	1.6	1.5	4.8	5.6	6.4	7.7	18.4	11.0	11.8	9.2	10.5	12.7	19.7	46.0	43.6	3.4	9.1	4.1	11.1	5.3	24	46.0	1.5	10.8
4/13/07	3.1	2.3	5.4	2.7	3.2	2.5	2.0	1.4	4.9	7.6	8.3	9.0	9.7	8.1	13.4	10.1	10.9	13.0	8.8	7.6	1.5	2.5	3.1	4.1	24	13.4	1.4	6.1
4/14/07	7.0	3.0	0.7	0.7	1.1	1.3	1.1	1.1	3.5	5.2	8.3	17.7	25.7	25.6	35.6	25.7	26.0	18.7	26.1	4.8	2.0	1.8	2.4	1.7	24	35.6	0.7	10.3
4/15/07	2.2	2.2	1.4	0.9	1.3	2.1	2.2	2.4	4.4	6.0	4.9	6.1	6.7	7.3	7.9	7.0	5.1	3.6	1.8	0.9	1.0	0.9	0.9	1.3	24	7.9	0.9	3.4
4/16/07	2.3	2.3	3.0	2.5	2.7	5.8	2.9	3.6	4.0	4.2	5.2	4.9	6.8	6.5	7.6	6.9	5.1	5.7	4.1	2.3	1.7	1.2	1.1	2.9	24	7.6	1.1	4.0
4/17/07	2.4	3.0	3.0	2.3	1.5	1.5	1.0	2.8	5.8	7.2	12.2	14.5	12.9	13.3	10.7	10.6	8.8	5.8	3.3	1.8	0.8	1.4	0.9	0.5	24	14.5	0.5	5.3
4/18/07	0.4	0.7	0.7	0.4	0.6	0.7	0.7	2.6	3.7	5.3	6.3	7.7	8.9	7.2	6.4	7.0	6.4	4.5	3.4	2.9	1.3	1.4	2.1	2.3	24	8.9	0.4	3.5
4/19/07	2.4	2.7	2.9	3.2	4.1	3.1	3.3	3.9	4.0	4.1	4.3	3.4	3.2	3.1	4.2	3.6	4.1	2.9	3.1	2.1	1.8	1.9	4.8	8.3	24	8.3	1.8	3.5
4/20/07	7.5	7.5	6.2	4.5	4.7	1.9	1.7	2.6	44.1	55.3	30.0	47.0	33.9	9.5	9.8	10.5	7.8	14.4	4.5	3.6	3.9	8.3	16.0	11.2	24	55.3	1.7	14.4
4/21/07	7.2	12.1	7.4	27.0	4.4	41.9	10.6	9.4	5.8	5.8	6.6	9.7	12.0	17.7	19.7	29.1	19.5	16.3	23.3	5.8	4.0	5.2	5.2	6.1	24	41.9	4.0	13.0
4/22/07	19.4	4.9	3.6	3.5	4.2	4.1	4.5	5.7	4.1	4.2	5.2	3.4	6.2	7.1	8.0	6.0	6.0	4.8	3.4	2.6	1.9	1.2	1.1	1.5	24	19.4	1.1	4.9
4/23/07	1.0	1.9	2.5	2.5	2.5	2.9	4.8	3.6	11.5	25.0	28.2	24.6	16.8	14.7	28.6	15.9	11.6	7.7	4.0	2.4	16.3	3.9	11.8	4.5	24	28.6	1.0	10.4
4/24/07	0.9	2.0	2.6	3.3	3.8	3.2	2.7	4.1	6.4	6.5	8.2	9.8	9.1	8.9	11.6	9.9	7.0	5.9	4.1	4.6	3.0	3.4	2.9	1.7	24	11.6	0.9	5.2
4/25/07	1.4	1.9	2.4	7.2	3.3	1.4	1.4	1.9	3.1	28.7	67.8	13.6	14.8	40.0	34.1	20.3	19.4	7.4	2.5	3.5	6.6	1.8	1.4	1.7	24	67.8	1.4	12.0
4/26/07	5.3	3.0	1.5	1.2	1.5	2.8	1.2	3.7	6.0	9.0	9.1	17.7	29.8	18.9	26.6	21.5	22.2	20.6	12.2	13.8	5.1	2.7	2.7	1.9	24	29.8	1.2	10.0
4/27/07	3.5	2.9	3.0	1.9	1.5	3.7	2.4	5.4	5.5	5.5	6.1	7.8	8.9	8.4	10.5	7.9	6.4	8.0	3.0	1.9	1.3	1.7	1.3	0.9	24	10.5	0.9	4.6
4/28/07	1.1	1.4	1.8	1.9	2.2	7.6	2.7	2.4	5.4	6.2	7.0	9.3	9.2	11.1	12.4	13.0	9.7	7.9	4.2	3.0	1.2	1.1	1.4	1.0	24	13.0	1.0	5.2
4/29/07	1.7	1.8	3.0	3.1	6.3	10.2	3.4	6.2	5.0	6.0	5.4	5.8	6.8	7.1	9.8	8.8	7.7	6.6	3.2	1.9	1.6	1.6	1.2	1.3	24	10.2	1.2	4.8
4/30/07	1.2	3.1	5.9	3.7	9.8	6.2	4.1	4.1	4.4	5.3	7.7	10.0	19.9	16.4	12.3	9.3	7.9	6.4	4.0	2.9	2.6	2.8	2.2	2.5	24	19.9	1.2	6.4
																									0			
hr max	19.4	12.1	7.4	27.0	9.8	41.9	10.6	9.4	44.1	55.3	67.8	47.0	33.9	40.0	35.6	29.1	26.0	46.0	43.6	13.8	16.3	8.3	16.0	11.2				
hr min	0.4	0.7	0.7	0.4	0.6	0.7	0.7	1.1	3.1	3.7	3.6	3.4	3.2	3.1	4.1	2.9	3.4	2.9	1.8	0.9	0.8	0.9	0.9	0.5				
average	3.9	3.3	3.2	4.0	3.2	5.3	3.2	3.9	7.0	11.5	12.2	11.4	12.3	11.8	13.7	11.4	11.0	10.4	7.9	3.7	3.5	2.7	3.8	3.2				

monthly max hr	monthly min hr	monthly ave hr
67.8	0.4	7.0
4/25/07	4/18/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	517
possible hours	720
data capture	71.8%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-0.13	-0.17	-0.14	-0.12	-0.12	-0.16	-0.16	-0.18	8	-0.12	-0.18	-0.15
4/6/07	-0.22	-0.21	-0.18	-0.17	-0.18	-0.22		-0.27	-0.31	-0.26	-0.38	-0.42	-0.34	-0.33	-0.37	-0.31	-0.35	-0.33	-0.31	-0.21	-0.18	-0.19	-0.20	-0.20	23	-0.17	-0.42	-0.27
4/7/07	-0.17	-0.18	-0.19	-0.15	-0.13	-0.14	-0.14	-0.16	-0.24	-0.24	-0.19	-0.28	-0.31	-0.26	-0.30	-0.24	-0.27	-0.19	-0.15	-0.09	-0.06	-0.10	-0.07	-0.06	24	-0.06	-0.31	-0.18
4/8/07	-0.09	-0.08	-0.10	-0.07	-0.03	-0.06	-0.06	-0.05	-0.05	-0.10	-0.09	-0.08	-0.15						-0.08	0.05	0.05	0.04	0.04	0.02	19	0.05	-0.15	-0.05
4/9/07	-0.10	-0.15	-0.03	0.05	0.00	-0.18	-0.02	-0.06	-0.02	-0.12								0.14	0.26	0.24	0.25	0.24	0.20	0.22	17	0.26	-0.18	0.05
4/10/07	0.23	0.32	0.38	0.43	0.36	0.44	0.49	0.51	0.48	0.44	0.50	0.42	0.30	0.29	0.25	0.22	0.20	0.22	0.22	0.24	0.22	0.24	0.22	0.19	24	0.51	0.19	0.33
4/11/07	0.19	0.18	0.21	0.21	0.25	0.18	0.22	0.18	0.26	0.24	0.22	0.26	0.21	0.22	0.26	0.28	0.27	0.17	0.15	0.15	0.12	0.09	0.10	0.09	24	0.28	0.09	0.20
4/12/07	0.09	0.05	0.08	0.07	0.06	0.07	0.10	0.10	0.12	0.15	0.10	0.16	0.11	0.15	0.16	0.14	0.03	-0.37	0.13	0.17	0.24	0.17	0.07	0.12	24	0.24	-0.37	0.09
4/13/07	0.20	0.26	0.28	0.31	0.27	0.25	0.23	0.21	0.28	0.21	0.19	0.20	0.22	0.18	0.15	0.15	0.13	0.18	0.17	0.08	0.10	0.12	0.13	0.12	24	0.31	0.08	0.19
4/14/07	0.27	0.28	0.21	0.29	0.37	0.49	0.50	0.45	0.49	0.41	0.25	0.22	0.22	0.20	0.24	0.22	0.23	0.23	0.23	0.22	0.20	0.20	0.22	0.22	24	0.50	0.20	0.29
4/15/07	0.26	0.32	0.35	0.36	0.45	0.42	0.34	0.43	0.54	0.47	0.39	0.36	0.31	0.25	0.29	0.23	0.21	0.13	0.04	0.03	0.11	0.18	0.23	0.23	24	0.54	0.03	0.29
4/16/07	0.29	0.27	0.32	0.28	0.32	0.26	0.39	0.33	0.35	0.29	0.22	0.14	0.14	0.12	0.06	0.03	0.08	0.10	0.08	0.07	0.19	0.16	0.16	0.24	24	0.39	0.03	0.20
4/17/07	0.38	0.41	0.50	0.63	0.58	0.66	0.70	0.65	0.60	0.59	0.64	0.49	0.64	0.63	0.44	0.30	0.22	0.27	0.31	0.24	0.21	0.23	0.24	0.20	24	0.70	0.20	0.45
4/18/07	0.30	0.33	0.39	0.32	0.30	0.27	-0.50	-0.09	-0.14	-0.06	0.18	0.19	0.38	0.48	0.45	0.61	0.64	0.60	0.53	0.34	0.32	0.38	0.44	0.45	24	0.64	-0.50	0.30
4/19/07	0.47	0.45	0.45	0.46	0.47	0.50	0.40	0.54	0.69	0.81	0.95	1.13	0.82	0.72	0.85	0.76	0.32	0.46	0.46	0.44	0.43	0.40	0.27	0.21	24	1.13	0.21	0.56
4/20/07	0.10	0.07	0.16	0.09	0.29	0.30	0.15	0.09		-0.95	-0.28	-0.21	-0.28	-0.15	-0.14	-0.10	-0.16	0.23	0.27	0.14	-0.20	-0.60	-0.75	-0.61	23	0.30	-0.95	-0.11
4/21/07	-0.16	-0.12	-0.14	0.03	0.19	0.15	0.14	0.26	0.22	0.24	0.13	0.19	0.08	0.12	0.08	0.13	0.06	0.12	0.17	0.28	0.31	0.27	0.25	0.26	24	0.31	-0.16	0.14
4/22/07	0.19	0.23	0.28	0.26	0.25	0.23	0.23	0.26	0.32	0.31	0.19	0.01	0.63	0.58	0.66	0.70	0.65	0.60	0.59	0.64	0.49	0.64	0.63	0.44	24	0.70	0.01	0.42
4/23/07	0.30	0.22	0.27	0.31	0.24	0.21	0.23	0.24	0.20	0.30	0.33	0.39	0.32	0.30	0.27	0.38	0.24	0.24	0.34	0.31	0.27	0.32	0.16	0.03	24	0.39	0.03	0.27
4/24/07	0.07	0.18	-0.90	-0.33	0.10	0.15	0.19	0.23	-0.07	-0.46	-0.16	0.13	0.26	0.23	0.22	0.24	0.31	0.30	0.26	0.14	0.10	0.13	0.10	0.08	24	0.31	-0.90	-0.06
4/25/07	0.07	0.08	0.09	0.11	0.08	0.13	0.11	0.13	0.15	0.17	0.22	0.20	0.18	0.09	0.15	0.26	0.29	0.20	0.11	0.07	0.01	0.02	0.03	0.03	24	0.29	0.01	0.12
4/26/07	0.11	0.07	0.04	0.03	0.09	0.13	0.12	0.09	0.15	0.13	0.09	0.10	0.12	0.18	0.19	0.08	0.15	0.16	0.11	0.12	0.18	0.13	0.12	0.12	24	0.19	0.03	0.12
4/27/07	0.11	0.10	0.11	0.15	0.13	0.07	0.16	0.19	0.20	0.24	0.23	0.20	0.24	0.26	0.31	0.29	0.25	0.27	0.14	0.12	0.15	0.15	0.13	0.15	24	0.31	0.07	0.18
4/28/07	0.14	0.13	0.10	0.13	0.16	0.13	0.10	0.11	0.19	0.26	0.20	0.22	0.22	0.27	0.15	0.21	0.16	0.20	0.19	0.17	0.18	0.18	0.17	0.12	24	0.27	0.10	0.17
4/29/07	0.22	0.24	0.24	0.20	0.04	0.04	0.11	0.14	0.17	0.27	0.28	0.38	0.36	0.23	0.27	0.24	0.24	0.24	0.18	0.12	0.11	0.19	0.25	0.32	24	0.38	0.04	0.21
4/30/07	0.30	0.23	0.09	0.18	0.20	0.36	0.70	0.60	0.70	0.64	0.48	0.20	0.14	0.14	0.11	0.16	0.24	0.27	0.23	0.26	0.21	0.20	0.17	0.16	24	0.70	0.09	0.29
																									0			
hr max	0.47	0.45	0.50	0.63	0.58	0.66	0.70	0.65	0.70	0.81	0.95	1.13	0.82	0.72	0.85	0.76	0.65	0.60	0.59	0.64	0.49	0.64	0.63	0.45				
hr min	-0.22	-0.21	-0.90	-0.33	-0.18	-0.22	-0.50	-0.27	-0.31	-0.95	-0.38	-0.42	-0.34	-0.33	-0.37	-0.31	-0.35	-0.37	-0.31	-0.21	-0.20	-0.60	-0.75	-0.61				
average	0.14	0.15	0.12	0.17	0.19	0.19	0.20	0.20	0.22	0.16	0.20	0.19	0.20	0.21	0.21	0.22	0.17	0.17	0.17	0.16	0.15	0.14	0.12	0.11				

monthly max hr	monthly min hr	monthly ave hr
1.13	-0.95	0.17
4/19/07	4/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	594
possible hours	720
data capture	82.5%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																								
4/2/07																								
4/3/07																								
4/4/07																								
4/5/07																	-0.25	-0.36	-0.34	-0.36	-0.41	-0.46	-0.49	-0.52
4/6/07	-0.46	-0.44	-0.35	-0.41	-0.35	-0.51		-0.46	-0.55	-0.41	-0.49	-0.54	-0.46	-0.56	-0.60	-0.46	-0.58	-0.55	-0.48	-0.47	-0.51	-0.52	-0.56	-0.54
4/7/07	-0.46	-0.49	-0.61	-0.56	-0.38	-0.40	-0.33	-0.24	-0.37	-0.37	-0.15	-0.44	-0.45	-0.53	-0.46	-0.57	-0.41	-0.42	-0.37	-0.40	-0.44	-0.41	-0.40	-0.35
4/8/07	-0.18	-0.14	-0.13	-0.23	-0.20	-0.18	-0.15	-0.16	-0.03	-0.31	-0.29	-0.22	-0.41						0.07	-0.05	-0.11	-0.13	-0.12	
4/9/07	-0.12	-0.12	-0.13	-0.13	-0.14	-0.13	-0.12	-0.11	-0.10	-0.35								0.22	0.34	0.44	0.27	0.37	0.23	0.27
4/10/07	0.34	0.41	0.40	0.46	0.34	0.46	0.53	0.62	0.60	0.57	0.59	0.49	0.44	0.38	0.30	0.31	0.24	0.11	0.11	0.11	0.11	0.11	0.13	0.23
4/11/07	0.19	0.18	0.20	0.29	0.31	0.23	0.23	0.20	0.25	0.13	0.10	0.14	0.15	0.09	0.20	0.15	0.23	0.10	0.09	-0.01	-0.31	-0.53	-0.66	-0.66
4/12/07	-0.52	-0.48	-0.39	-0.37	-0.28	-0.12	-0.14	-0.25	-0.30	-0.25	-0.26	-0.07	-0.43	-0.58	-0.44	-0.47	-0.49	-0.48	0.28	0.32	0.39	0.32	0.22	0.27
4/13/07	0.35	0.41	0.43	0.46	0.42	0.40	0.38	0.36	0.43	0.36	0.34	0.35	0.37	0.33	0.30	0.30	0.28	0.33	0.32	0.23	0.25	0.27	0.28	0.27
4/14/07	0.42	0.43	0.36	0.44	0.52	0.64	0.65	0.60	0.64	0.56	0.40	0.37	0.37	0.35	0.39	0.37	0.38	0.38	0.38	0.37	0.35	0.35	0.37	0.37
4/15/07	0.41	0.47	0.50	0.51	0.60	0.57	0.49	0.58	0.69	0.62	0.54	0.51	0.46	0.40	0.44	0.38	0.36	0.28	0.19	0.18	0.26	0.33	0.38	0.38
4/16/07	0.44	0.42	0.47	0.43	0.47	0.41	0.54	0.48	0.50	0.44	0.37	0.29	0.29	0.27	0.21	0.18	0.23	0.25	0.23	0.22	0.34	0.31	0.31	0.39
4/17/07	0.53	0.56	0.65	0.78	0.73	0.81	0.85	0.80	0.75	0.74	0.79	0.64	0.79	0.78	0.59	0.45	0.37	0.42	0.46	0.39	0.36	0.38	0.39	0.35
4/18/07	0.45	0.48	0.54	0.47	0.45	0.42	0.53	0.48	0.27	0.45	0.30	0.30	0.23	0.38	0.45	0.60	0.69	0.49	0.53	0.38	0.35	0.47	0.54	0.52
4/19/07	0.52	0.50	0.59	0.56	0.55	0.56	0.46	0.52	0.61	0.68	0.77	1.02	0.75	0.71	0.38	0.67	0.32	0.43	0.48	0.50	0.51	0.54	0.49	0.59
4/20/07	0.33	0.19	0.11	0.20	0.16	0.12	0.23	0.18	0.69	0.57	0.30	0.46	0.29	0.38			0.36	0.09	0.30	0.20	0.17	0.20	0.18	0.07
4/21/07	0.13	0.12	0.13	0.12	0.35	0.23	0.25	0.46	0.37	0.26	0.11	0.25	0.17	0.12	0.27	0.31	0.16	0.17	0.25	0.50	0.46	0.30	0.26	0.35
4/22/07	0.21	0.26	0.50	0.37	0.33	0.31	0.35	0.36	0.40	0.34	0.44	0.45	0.78	0.73	0.81	0.85	0.80	0.75	0.74	0.79	0.64	0.79	0.78	0.59
4/23/07	0.45	0.37	0.42	0.46	0.39	0.36	0.38	0.39	0.35	0.45	0.48	0.54	0.47	0.45	0.42	0.53	0.39	0.39	0.49	0.46	0.42	0.47	0.31	0.18
4/24/07	0.22	0.33	0.18	0.16	0.18	0.17	0.13	0.15	0.09	0.13	0.17	0.16	0.24	0.17	0.31	0.21	0.20	0.26	0.28	0.15	0.12	0.10	0.11	0.10
4/25/07	0.10	0.11	0.12	0.12	0.16	0.26	0.41	0.28	0.20	0.32	0.30	0.13	0.22	0.17	0.14	0.35	0.43	0.32	0.48	0.41	0.41	0.42	0.47	0.50
4/26/07	0.53	0.16	0.13	0.13	0.13	0.53	0.69	0.47	0.38	0.34	0.21	0.25	0.12	0.34	0.35	0.22	0.41	0.41	0.26	0.19	0.56	0.56	0.66	0.65
4/27/07	0.55	0.56	0.63	0.71	0.68	0.43	0.49	0.43	0.43	0.52	0.48	0.45	0.50	0.50	0.80	0.61	0.59	0.64	0.51	0.62	0.71	0.73	0.71	0.69
4/28/07	0.68	0.68	0.62	0.59	0.65	0.58	0.34	0.40	0.45	0.49	0.54	0.55	0.48	0.64	0.34	0.53	0.43	0.54	0.57	0.72	0.87	0.85	0.80	0.63
4/29/07	0.51	0.61	0.70	0.67	0.53	0.30	0.19	0.30	0.23	0.14	0.10	0.25	0.37	0.15	0.31	0.22	0.20	0.20	0.13	0.13	0.13	0.21	0.21	0.28
4/30/07	0.27	0.25	0.14	0.16	0.26	0.34	0.62	0.49	0.51	0.55	0.49	0.19	0.29	0.18	0.12	0.27	0.44	0.60	0.57	0.66	0.63	0.58	0.50	0.48
hr max	0.68	0.68	0.70	0.78	0.73	0.81	0.85	0.80	0.75	0.74	0.79	1.02	0.79	0.78	0.81	0.85	0.80	0.75	0.74	0.79	0.87	0.85	0.80	0.69
hr min	-0.52	-0.49	-0.61	-0.56	-0.38	-0.51	-0.33	-0.46	-0.55	-0.41	-0.49	-0.54	-0.46	-0.58	-0.60	-0.57	-0.58	-0.55	-0.48	-0.47	-0.51	-0.53	-0.66	-0.66
average	0.24	0.23	0.25	0.26	0.27	0.27	0.33	0.29	0.30	0.28	0.28	0.27	0.25	0.25	0.26	0.27	0.24	0.22	0.26	0.26	0.25	0.25	0.23	0.24

valid hr count	daily max hr	daily min hr	daily ave hr
0			
0			
0			
0			
8	-0.25	-0.52	-0.40
23	-0.35	-0.60	-0.49
24	-0.15	-0.61	-0.42
18	0.07	-0.41	-0.17
17	0.44	-0.35	0.04
24	0.62	0.11	0.35
24	0.31	-0.66	0.05
24	0.39	-0.58	-0.19
24	0.46	0.23	0.34
24	0.65	0.35	0.44
24	0.69	0.18	0.44
24	0.54	0.18	0.35
24	0.85	0.35	0.60
24	0.69	0.23	0.45
24	1.02	0.32	0.57
22	0.69	0.07	0.26
24	0.50	0.11	0.25
24	0.85	0.21	0.56
24	0.54	0.18	0.42
24	0.33	0.09	0.18
24	0.50	0.10	0.28
24	0.69	0.12	0.36
24	0.80	0.43	0.58
24	0.87	0.34	0.58
24	0.70	0.10	0.29
24	0.66	0.12	0.40
0			

monthly max hr	monthly min hr	monthly ave hr
1.02	-0.66	0.26
4/19/07	4/11/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	592
possible hours	720
data capture	82.2%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-0.16	-0.29	-0.43	-0.46	-0.53	-0.54	-0.61	-0.79	8	-0.16	-0.79	-0.48
4/6/07	-0.88	-0.82	-0.66	-0.73	-0.66	-0.79			-0.69	-0.45	-0.56	-0.66	-0.57	-0.79	-0.86	-0.69	-0.76	-0.71	-0.74	-0.81	-0.85	-0.81	-0.79	-0.84	22	-0.45	-0.88	-0.73
4/7/07	-0.77	-0.74	-0.75	-0.70	-0.71	-0.71	-0.65	-0.43	-0.40	-0.47	-0.03	-0.49	-0.51	-0.64	-0.42	-0.66	-0.47	-0.49	-0.43	-0.49	-0.47	-0.46	-0.38	-0.36	24	-0.03	-0.77	-0.53
4/8/07	-0.34	-0.30	-0.33	-0.30	-0.13	-0.04	-0.02	-0.03	0.02	-0.21	-0.21	-0.03	-0.31						-0.19	-0.17	-0.20	-0.22	-0.20	-0.21	19	0.02	-0.34	-0.18
4/9/07	-0.25	-0.33	-0.29	-0.27	-0.28	-0.35	-0.31	-0.43	-0.46	-0.47									0.57	0.68	0.48	0.60	0.43	0.45	16	0.68	-0.47	-0.01
4/10/07	0.53	0.58	0.46	0.51	0.40	0.52	0.52	-0.03	0.00	0.01	0.01	0.01	0.00	-0.01	-0.04	-0.06	-0.03	frozen	frozen	frozen	frozen	frozen	frozen	frozen	17	0.58	-0.06	0.20
4/11/07	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	0			
4/12/07	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	-0.04	-0.04	-0.02	-0.02	-0.04	-0.05	-0.07	-0.07	0.15	-0.20	-0.16	-0.10	-0.16	-0.27	-0.22	15	0.15	-0.27	-0.09
4/13/07	-0.14	-0.08	-0.06	-0.02	-0.07	-0.08	-0.11	-0.12	-0.06	-0.13	-0.15	-0.14	-0.12	-0.15	-0.19	-0.18	-0.21	-0.15	-0.17	-0.26	-0.24	-0.21	-0.20	-0.21	24	-0.02	-0.26	-0.14
4/14/07	-0.06	-0.05	-0.13	-0.04	0.03	0.15	0.17	0.11	0.15	0.08	-0.09	-0.11	-0.11	-0.13	-0.09	-0.11	-0.10	-0.11	-0.11	-0.11	-0.14	-0.14	-0.12	-0.12	24	0.17	-0.14	-0.05
4/15/07	-0.08	-0.01	0.02	0.03	0.12	0.08	0.00	0.10	0.20	0.14	0.06	0.02	-0.02	-0.08	-0.04	-0.11	-0.12	-0.20	-0.29	-0.31	-0.23	-0.16	-0.11	-0.10	24	0.20	-0.31	-0.05
4/16/07	-0.05	-0.07	-0.02	-0.05	-0.02	-0.08	0.05	-0.01	0.02	-0.04	-0.11	-0.19	-0.20	-0.21	-0.27	-0.30	-0.25	-0.24	-0.26	-0.27	-0.15	-0.17	-0.18	-0.10	24	0.05	-0.30	-0.13
4/17/07	0.04	0.08	0.17	0.30	0.25	0.33	0.36	0.31	0.26	0.26	0.31	0.16	0.30	0.30	0.10	-0.04	-0.11	-0.07	-0.03	-0.09	-0.13	-0.11	-0.10	-0.14	24	0.36	-0.14	0.11
4/18/07	-0.03	0.00	0.06	-0.01	-0.03	-0.07	0.51	0.30	-0.10	0.42	0.12	0.16	0.10	0.32	0.43	0.66	0.84	0.60	0.68	0.78	0.85	1.03	1.09	1.04	24	1.09	-0.10	0.41
4/19/07	0.99	0.98	1.01	1.05	0.95	0.91	0.84	0.87	0.81	0.75	1.07	1.18	1.00	1.02	0.04	0.03	-0.23	0.43	0.37	0.19	-0.10	0.53	0.08	0.16	24	1.18	-0.23	0.62
4/20/07	-0.21	-0.18	0.07	0.29	0.23	0.29	0.47	0.37			0.15	0.22	0.14	0.22	0.24			-0.01	0.38	0.22	-0.26	-0.51	-0.50	-1.19	20	0.47	-1.19	0.02
4/21/07	-0.77	-0.82	-0.83	-0.83	-0.66	-0.77	-0.83	-0.45	-0.42	-0.57	-0.67	-0.70	-0.84	-0.93	-1.01	-0.96	-1.43	-1.54	-1.61	-1.48	-1.38	-1.60	-2.08	-2.14	24	-0.42	-2.14	-1.06
4/22/07	-2.51	-2.24	-1.84	-2.05	-2.16	-1.81	-1.91	-2.07	-1.82	-2.52	-4.44	-5.66	0.30	0.25	0.33	0.36	0.31	0.26	0.26	0.31	0.16	0.30	0.30	0.10	24	0.36	-5.66	-1.16
4/23/07	-0.04	-0.11	-0.07	-0.03	-0.09	-0.13	-0.11	-0.10	-0.14	-0.03	0.00	0.06	-0.01	-0.03	-0.07	0.05	-0.10	-0.10	0.01	-0.02	-0.06	-0.01	-0.17	-0.31	24	0.06	-0.31	-0.07
4/24/07	-0.27	-0.16	0.08	0.14	0.18	0.26	0.24	0.23	0.06	0.06	0.14	0.19	0.21	0.29	0.40	0.21	0.19	0.27	0.32	0.12	0.00	0.06	-0.04	-0.05	24	0.40	-0.27	0.13
4/25/07	-0.05	-0.05	-0.05	-0.05	-0.02	-0.02	-0.05	-0.05	0.15	0.10	0.19	0.01	0.07	-0.11	-0.42	-0.01	-0.13	-0.46	-0.45	-0.47	-0.47	-0.50	-0.48	-0.45	24	0.19	-0.50	-0.16
4/26/07	-0.34	-0.34	-0.42	-0.40	-0.39	-0.39	-0.30	0.08	-0.18	-0.29	-0.44	-0.18	-0.36	-0.14	-0.06	-0.31	-0.08	0.01	-0.21	-0.18	0.20	0.28	0.33	0.10	24	0.33	-0.44	-0.17
4/27/07	0.03	-0.03	0.18	0.31	0.26	0.09	0.17	-0.10	-0.12	0.00	-0.19	-0.15	-0.06	-0.16	0.39	0.02	0.17	-0.06	0.01	0.09	0.19	0.22	0.18	0.09	24	0.39	-0.19	0.06
4/28/07	0.06	-0.21	-0.21	-0.22	-0.05	-0.18	-0.05	-0.24	-0.10	-0.18	-0.13	-0.05	-0.04	0.17	-0.23	-0.11	-0.11	0.03	-0.02	0.25	0.47	0.54	0.49	0.45	24	0.54	-0.24	0.01
4/29/07	0.41	0.34	0.15	0.06	-0.13	-0.25	-0.04	0.04	-0.01	-0.13	-0.11	-0.06	0.15	-0.13	0.09	-0.03	0.03	-0.03	-0.15	0.03	0.40	0.44	0.31	0.78	24	0.78	-0.25	0.09
4/30/07	0.76	0.61	0.18	0.36	0.22	0.53	1.14	0.88	0.67	0.56	0.47	-0.01	0.10	-0.05	-0.15	-0.02	0.02	0.24	0.24	0.50	0.58	0.59	0.47	0.54	24	1.14	-0.15	0.39
																									0			

																									monthly	monthly	monthly
hr max	0.99	0.98	1.01	1.05	0.95	0.91	1.14	0.88	0.81	0.75	1.07	1.18	1.00	1.02	0.43	0.66	0.84	0.60	0.68	0.78	0.85	1.03	1.09	1.04	max hr	min hr	ave hr
hr min	-2.51	-2.24	-1.84	-2.05	-2.16	-1.81	-1.91	-2.07	-1.82	-2.52	-4.44	-5.66	-0.84	-0.93	-1.01	-0.96	-1.43	-1.54	-1.61	-1.48	-1.38	-1.60	-2.08	-2.14	1.18	-5.66	-0.11
average	-0.17	-0.17	-0.14	-0.12	-0.12	-0.11	0.00	-0.04	-0.10	-0.14	-0.20	-0.28	-0.03	-0.05	-0.09	-0.11	-0.13	-0.11	-0.10	-0.09	-0.08	-0.04	-0.11	-0.15	4/19/07	4/22/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	549
possible hours	720
data capture	76.3%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.32	0.32	0.28	0.20	0.15	0.15	0.16	0.23	8	0.32	0.15	0.23
4/6/07	0.29	0.32	0.29	0.23	0.20	0.31		0.47	0.50	0.53	0.57	0.65	0.66	0.65	0.64	0.59	0.58	0.54	0.47	0.32	0.23	0.22	0.23	0.24	23	0.66	0.20	0.42
4/7/07	0.24	0.28	0.26	0.19	0.17	0.19	0.20	0.33	0.47	0.45	0.50	0.59	0.59	0.59	0.61	0.58	0.54	0.46	0.30	0.12	0.10	0.12	0.11	0.12	24	0.61	0.10	0.34
4/8/07	0.13	0.11	0.12	0.15	0.07	0.10	0.10	0.24	0.30	0.39	0.48	0.54	0.55						0.27	0.19	0.23	0.21	0.18	0.20	19	0.55	0.07	0.24
4/9/07	0.19	0.24	0.23	0.22	0.23	0.24	0.26	0.31	0.33	0.40								0.29	0.51	0.45	0.48	0.46	0.40	0.38	17	0.51	0.19	0.33
4/10/07	0.35	0.38	0.41	0.45	0.44	0.48	0.54	0.52	0.45	0.47	0.53	0.46	0.38	0.38	0.36	0.32	0.30	0.36	0.37	0.43	0.45	0.45	0.47	0.41	24	0.54	0.30	0.42
4/11/07	0.40	0.35	0.37	0.44	0.43	0.39	0.40	0.45	0.49	0.50	0.44	0.41	0.40	0.38	0.42	0.42	0.39	0.34	0.30	0.23	0.18	0.17	0.16	0.15	24	0.50	0.15	0.36
4/12/07	0.14	0.11	0.12	0.11	0.09	0.11	0.16	0.22	0.26	0.33	0.31	0.24	0.27	0.31	0.39	0.34	0.34	0.74	0.13	0.12	0.10	0.16	0.16	0.23	24	0.74	0.09	0.23
4/13/07	0.42	0.55	0.58	0.62	0.60	0.59	0.62	0.59	0.53	0.53	0.48	0.45	0.37	0.34	0.26	0.29	0.32	0.30	0.24	0.15	0.16	0.18	0.22	0.25	24	0.62	0.15	0.40
4/14/07	0.45	0.47	0.45	0.58	0.56	0.57	0.58	0.58	0.54	0.53	0.41	0.35	0.30	0.33	0.51	0.55	0.52	0.52	0.51	0.50	0.48	0.45	0.41	0.47	24	0.58	0.30	0.48
4/15/07	0.55	0.58	0.58	0.59	0.65	0.58	0.61	0.61	0.61	0.56	0.52	0.50	0.48	0.43	0.50	0.40	0.37	0.22	0.09	0.06	0.11	0.14	0.18	0.18	24	0.65	0.06	0.42
4/16/07	0.32	0.40	0.47	0.49	0.49	0.50	0.57	0.56	0.56	0.50	0.43	0.29	0.26	0.12	0.08	0.06	0.12	0.12	0.12	0.15	0.37	0.22	0.28	0.39	24	0.57	0.06	0.33
4/17/07	0.65	0.67	0.71	0.73	0.70	0.73	0.81	0.76	0.70	0.67	0.68	0.62	0.67	0.69	0.52	0.43	0.34	0.33	0.33	0.29	0.28	0.27	0.30	0.25	24	0.81	0.25	0.55
4/18/07	0.41	0.42	0.53	0.55	0.58	0.60	0.40	0.52	0.52	0.54	0.59	0.60	0.62	0.67	0.68	0.67	0.64	0.60	0.55	0.35	0.40	0.43	0.53	0.53	24	0.68	0.35	0.54
4/19/07	0.52	0.50	0.52	0.53	0.56	0.53	0.51	0.59	0.65	0.72	0.75	0.79	0.69	0.65	0.74	0.68	0.40	0.44	0.46	0.40	0.38	0.41	0.37	0.26	24	0.79	0.26	0.54
4/20/07	0.14	0.12	0.14	0.11	0.11	0.11	0.13	0.22		0.84	0.40	0.36	0.41	0.34	1.55	2.61	0.48	0.44	0.44	0.34	0.31	0.25	0.14	0.27	23	2.61	0.11	0.45
4/21/07	0.19	0.19	0.17	0.12	0.21	0.22	0.13	0.33	0.41	0.41	0.49	0.56	0.48	0.48	0.47	0.32	0.27	0.11	0.23	0.46	0.50	0.34	0.22	0.26	24	0.56	0.11	0.32
4/22/07	0.16	0.21	0.36	0.31	0.33	0.24	0.25	0.32	0.41	0.51	0.62	0.74	0.73	0.70	0.73	0.81	0.76	0.70	0.67	0.68	0.62	0.67	0.69	0.52	24	0.81	0.16	0.53
4/23/07	0.43	0.34	0.33	0.33	0.29	0.28	0.27	0.30	0.25	0.41	0.42	0.53	0.55	0.58	0.60	0.61	0.48	0.53	0.49	0.51	0.42	0.40	0.23	0.10	24	0.61	0.10	0.40
4/24/07	0.10	0.14	0.25	0.28	0.19	0.22	0.24	0.35	0.51	0.52	0.55	0.52	0.53	0.54	0.55	0.52	0.48	0.43	0.31	0.11	0.06	0.08	0.06	0.07	24	0.55	0.06	0.32
4/25/07	0.07	0.06	0.04	0.09	0.08	0.10	0.10	0.14	0.28	0.37	0.48	0.41	0.46	0.61	0.55	0.45	0.45	0.38	0.17	0.09	0.12	0.04	0.06	0.05	24	0.61	0.04	0.24
4/26/07	0.13	0.11	0.07	0.04	0.12	0.15	0.15	0.18	0.34	0.37	0.43	0.53	0.54	0.49	0.51	0.48	0.46	0.36	0.25	0.14	0.35	0.27	0.25	0.24	24	0.54	0.04	0.29
4/27/07	0.22	0.19	0.19	0.23	0.23	0.17	0.33	0.42	0.49	0.55	0.57	0.57	0.67	0.66	0.59	0.52	0.48	0.48	0.30	0.17	0.17	0.17	0.18	0.19	24	0.67	0.17	0.36
4/28/07	0.18	0.16	0.14	0.14	0.18	0.17	0.21	0.28	0.38	0.49	0.55	0.56	0.60	0.61	0.56	0.55	0.49	0.44	0.34	0.16	0.18	0.15	0.16	0.16	24	0.61	0.14	0.33
4/29/07	0.10	0.11	0.11	0.13	0.07	0.07	0.15	0.26	0.39	0.58	0.64	0.67	0.66	0.59	0.56	0.51	0.48	0.39	0.34	0.14	0.15	0.23	0.30	0.36	24	0.67	0.07	0.33
4/30/07	0.35	0.34	0.17	0.35	0.39	0.61	0.73	0.66	0.65	0.59	0.58	0.56	0.59	0.51	0.51	0.45	0.48	0.53	0.44	0.43	0.40	0.41	0.30	0.28	24	0.73	0.17	0.47
																									0			
hr max	0.65	0.67	0.71	0.73	0.70	0.73	0.81	0.76	0.70	0.84	0.75	0.79	0.73	0.70	1.55	2.61	0.76	0.74	0.67	0.68	0.62	0.67	0.69	0.53				
hr min	0.07	0.06	0.04	0.04	0.07	0.07	0.10	0.14	0.25	0.33	0.31	0.24	0.26	0.12	0.08	0.06	0.12	0.11	0.09	0.06	0.06	0.04	0.06	0.05				
average	0.29	0.29	0.30	0.32	0.32	0.33	0.35	0.41	0.46	0.51	0.52	0.52	0.52	0.51	0.56	0.57	0.44	0.41	0.34	0.28	0.28	0.27	0.26	0.26				

monthly max hr	monthly min hr	monthly ave hr
2.61	0.04	0.39
4/20/07	4/25/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	594
possible hours	720
data capture	82.5%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.53	0.39	0.31	0.23	0.14	0.09	0.10	0.19	8	0.53	0.09	0.25
4/6/07	0.24	0.36	0.37	0.28	0.26	0.31		0.48	0.68	0.79	0.84	0.91	0.94	0.97	1.05	0.84	0.87	0.74	0.64	0.34	0.21	0.19	0.18	0.23	23	1.05	0.18	0.55
4/7/07	0.25	0.28	0.19	0.14	0.21	0.18	0.21	0.45	0.70	0.71	0.79	0.91	0.96	0.92	0.94	0.92	0.81	0.62	0.34	0.10	0.09	0.10	0.09	0.12	24	0.96	0.09	0.46
4/8/07	0.10	0.06	0.04	0.22	0.12	0.12	0.12	0.20	0.30	0.54	0.83	0.99	0.93						0.16	0.03	0.01	0.01	0.02		18	0.99	0.01	0.27
4/9/07	0.01	0.02	0.01	0.01	0.01	0.02	0.03	0.02	0.03	0.43								0.28	0.58	0.51	0.50	0.51	0.45	0.42	17	0.58	0.01	0.23
4/10/07	0.47	0.55	0.59	0.64	0.63	0.72	0.81	0.66	0.57	0.58	0.62	0.54	0.49	0.56	0.47	0.35	0.35	0.00	0.00	0.03	0.00	0.01	0.16	0.41	24	0.81	0.00	0.43
4/11/07	0.37	0.33	0.38	0.55	0.54	0.49	0.50	0.59	0.65	0.61	0.59	0.48	0.49	0.43	0.49	0.49	0.50	0.37	0.37	0.29	0.26	0.21	0.15	0.14	24	0.65	0.14	0.43
4/12/07	0.16	0.10	0.13	0.10	0.10	0.10	0.19	0.27	0.37	0.50	0.48	0.45	0.45	0.51	0.66	0.62	0.52	0.59	0.18	0.19	0.18	0.24	0.15	0.16	24	0.66	0.10	0.31
4/13/07	0.50	0.74	0.79	0.98	1.02	0.94	0.94	0.96	0.98	0.84	0.77	0.62	0.42	0.34	0.28	0.37	0.48	0.44	0.36	0.35	0.27	0.21	0.26	0.30	24	1.02	0.21	0.59
4/14/07	0.59	0.68	0.62	0.86	0.90	0.99	1.02	0.97	0.95	0.92	0.77	0.62	0.49	0.40	0.56	0.61	0.64	0.63	0.63	0.63	0.56	0.52	0.49	0.50	24	1.02	0.40	0.69
4/15/07	0.68	0.83	0.84	0.93	1.08	1.08	1.05	0.99	1.05	1.05	0.84	0.85	0.64	0.54	0.62	0.56	0.59	0.35	0.12	0.17	0.22	0.17	0.08	0.16	24	1.08	0.08	0.65
4/16/07	0.31	0.50	0.82	0.89	0.91	0.84	0.98	1.08	0.98	0.83	0.70	0.38	0.33	0.16	0.12	0.10	0.18	0.20	0.13	0.30	0.73	0.30	0.34	0.46	24	1.08	0.10	0.52
4/17/07	0.87	0.97	1.03	1.08	1.00	1.18	1.18	1.13	0.98	1.02	0.97	0.90	0.93	0.97	0.70	0.55	0.40	0.35	0.39	0.32	0.29	0.26	0.33	0.32	24	1.18	0.26	0.76
4/18/07	0.59	0.71	0.87	0.96	1.06	1.13	0.31	0.62	0.70	0.94	0.99	1.09	1.08	1.16	1.21	1.14	1.10	0.87	0.78	0.47	0.48	0.54	0.67	0.68	24	1.21	0.31	0.84
4/19/07	0.68	0.64	0.66	0.73	0.81	0.72	0.63	0.82	0.99	1.10	1.14	1.20	0.91	0.88	1.06	0.95	0.46	0.61	0.60	0.44	0.43	0.44	0.48	0.38	24	1.20	0.38	0.74
4/20/07	0.23	0.17	0.13	0.15	0.12	0.00	0.20	0.28	0.53	0.59	0.31	0.32	0.28	0.27			0.36	0.81	0.46	0.39	0.35	0.31	0.20	0.26	22	0.81	0.00	0.31
4/21/07	0.22	0.17	0.12	0.10	0.24	0.30	0.24	0.48	0.58	0.60	0.83	0.87	0.79	0.73	0.77	0.59	0.38	0.15	0.33	0.64	0.55	0.40	0.24	0.26	24	0.87	0.10	0.44
4/22/07	0.21	0.22	0.35	0.38	0.46	0.30	0.33	0.45	0.63	0.72	0.86	0.99	1.08	1.00	1.18	1.18	1.13	0.98	1.02	0.97	0.90	0.93	0.97	0.70	24	1.18	0.21	0.75
4/23/07	0.55	0.40	0.35	0.39	0.32	0.29	0.26	0.33	0.32	0.59	0.71	0.87	0.96	1.06	1.13	1.13	0.73	0.97	0.94	0.88	0.86	0.59	0.24	0.09	24	1.13	0.09	0.62
4/24/07	0.09	0.08	0.21	0.26	0.28	0.28	0.26	0.49	0.57	0.71	0.76	0.88	0.82	0.81	0.92	0.87	0.72	0.54	0.32	0.14	0.06	0.13	0.10	0.07	24	0.92	0.06	0.43
4/25/07	0.07	0.07	0.04	0.12	0.12	0.13	0.19	0.18	0.27	0.58	0.88	0.77	0.81	1.15	0.97	0.89	0.78	0.54	0.10	0.09	0.10	0.10	0.10	0.08	24	1.15	0.04	0.38
4/26/07	0.22	0.15	0.00	0.00	0.00	0.24	0.17	0.23	0.52	0.68	0.78	0.94	0.90	0.98	0.99	0.94	0.84	0.71	0.48	0.22	0.49	0.27	0.18	0.19	24	0.99	0.00	0.46
4/27/07	0.20	0.16	0.09	0.15	0.18	0.25	0.34	0.61	0.79	0.90	0.90	1.02	1.15	1.08	1.04	0.89	0.76	0.80	0.36	0.13	0.09	0.08	0.09	0.08	24	1.15	0.08	0.51
4/28/07	0.09	0.09	0.10	0.09	0.09	0.25	0.28	0.25	0.58	0.79	0.97	1.03	1.06	1.09	0.95	1.01	0.82	0.66	0.40	0.13	0.16	0.09	0.12	0.11	24	1.09	0.09	0.47
4/29/07	0.21	0.13	0.07	0.12	0.20	0.15	0.11	0.37	0.53	0.73	0.86	0.97	1.05	0.91	0.95	0.77	0.75	0.67	0.44	0.07	0.06	0.27	0.39	0.45	24	1.05	0.06	0.47
4/30/07	0.36	0.43	0.27	0.47	0.47	0.72	0.94	0.98	1.05	1.06	1.05	0.94	1.09	0.96	0.91	0.77	0.83	0.84	0.52	0.52	0.51	0.57	0.39	0.46	24	1.09	0.27	0.71
																									0			
hr max	0.87	0.97	1.03	1.08	1.08	1.18	1.18	1.13	1.05	1.10	1.14	1.20	1.15	1.16	1.21	1.18	1.13	0.98	1.02	0.97	0.90	0.93	0.97	0.70	monthly max hr	monthly min hr	monthly ave hr
hr min	0.01	0.02	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.43	0.31	0.32	0.28	0.16	0.12	0.10	0.18	0.00	0.00	0.03	0.00	0.01	0.02	0.07	1.21	0.00	0.52
average	0.33	0.35	0.36	0.42	0.45	0.47	0.47	0.56	0.65	0.75	0.80	0.81	0.79	0.78	0.82	0.75	0.65	0.56	0.42	0.33	0.33	0.29	0.27	0.29	4/18/07	4/10/07		

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	592
possible hours	720
data capture	82.2%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.47	0.37	0.30	0.17	0.11	0.07	0.08	0.09	8	0.47	0.07	0.21
4/6/07	0.08	0.25	0.29	0.17	0.13	0.09			0.64	0.85	0.96	0.96	1.14	1.09	1.19	0.94	0.97	0.72	0.57	0.18	0.08	0.11	0.08	0.11	22	1.19	0.08	0.53
4/7/07	0.15	0.12	0.14	0.11	0.10	0.09	0.14	0.42	0.74	0.80	0.89	1.14	1.11	1.04	1.07	1.02	0.92	0.66	0.26	0.09	0.08	0.09	0.09	0.10	24	1.14	0.08	0.47
4/8/07	0.09	0.11	0.12	0.17	0.09	0.03	0.03	0.08	0.21	0.56	0.83	1.20	1.20						0.21	0.18	0.23	0.23	0.21	0.22	19	1.20	0.03	0.32
4/9/07	0.21	0.27	0.24	0.24	0.26	0.28	0.30	0.36	0.37	0.36									0.49	0.45	0.42	0.44	0.44	0.42	16	0.49	0.21	0.35
4/10/07	0.44	0.47	0.57	0.66	0.66	0.66	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	frozen	frozen	frozen	frozen	frozen	frozen	frozen	17	0.72	0.00	0.25
4/11/07	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	0			
4/12/07	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	frozen	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.15	0.70	0.08	0.07	0.09	0.45	0.27	0.28	15	0.70	0.00	0.14
4/13/07	0.45	0.77	0.93	1.14	1.23	1.19	1.12	1.21	1.13	1.02	0.88	0.64	0.36	0.26	0.11	0.32	0.60	0.50	0.41	0.47	0.34	0.23	0.21	0.29	24	1.23	0.11	0.66
4/14/07	0.52	0.62	0.67	0.99	1.02	1.20	1.06	1.01	1.02	0.95	0.87	0.76	0.47	0.27	0.49	0.64	0.67	0.68	0.66	0.63	0.52	0.50	0.53	0.51	24	1.20	0.27	0.72
4/15/07	0.70	0.84	1.06	1.13	1.23	1.25	1.28	1.21	1.25	1.27	0.99	0.99	0.64	0.52	0.53	0.60	0.65	0.42	0.24	0.53	0.19	0.11	0.12	0.10	24	1.28	0.10	0.74
4/16/07	0.10	0.38	0.92	1.10	1.13	1.01	1.15	1.36	1.22	1.01	0.75	0.42	0.24	0.18	0.16	0.15	0.10	0.14	0.25	0.38	0.89	0.38	0.27	0.52	24	1.36	0.10	0.59
4/17/07	0.94	1.10	1.20	1.29	1.22	1.49	1.39	1.27	1.09	1.21	1.11	0.99	0.97	1.00	0.72	0.45	0.38	0.28	0.28	0.13	0.16	0.20	0.32	0.29	24	1.49	0.13	0.81
4/18/07	0.68	0.90	1.05	1.05	1.29	1.40	0.37	0.48	0.57	0.82	1.02	1.17	1.21	1.34	1.37	1.45	1.29	0.95	0.73	0.29	0.25	0.24	0.47	0.51	24	1.45	0.24	0.87
4/19/07	0.54	0.59	0.56	0.70	0.85	0.62	0.57	0.76	0.96	1.15	1.22	1.23	0.85	0.83	0.79	0.85	0.95	0.49	0.59	0.45	0.41	0.71	1.32	0.52	24	1.32	0.41	0.77
4/20/07	0.28	0.24	0.18	0.20	0.29	0.12	0.34	0.37			0.32	0.32	0.31	0.28	0.26			1.05	0.46	0.32	0.46	0.37	0.35	0.30	20	1.05	0.12	0.34
4/21/07	0.28	0.19	0.14	0.18	0.45	0.46	0.28	0.52	0.63	0.72	0.92	0.99	0.93	0.90	0.87	0.74	0.41	0.29	0.45	0.76	0.48	0.42	0.29	0.21	24	0.99	0.14	0.52
4/22/07	0.30	0.31	0.27	0.36	0.56	0.31	0.42	0.48	0.64	0.97	0.96	0.89	1.29	1.22	1.49	1.39	1.27	1.09	1.21	1.11	0.99	0.97	1.00	0.72	24	1.49	0.27	0.84
4/23/07	0.45	0.38	0.28	0.28	0.13	0.16	0.20	0.32	0.29	0.68	0.90	1.05	1.05	1.29	1.40	1.32	0.86	1.23	1.13	1.08	1.06	0.64	0.19	0.09	24	1.40	0.09	0.69
4/24/07	0.13	0.08	0.34	0.33	0.31	0.32	0.29	0.45	0.59	0.83	0.90	1.09	1.01	1.09	1.15	1.18	0.94	0.62	0.36	0.19	0.11	0.19	0.09	0.00	24	1.18	0.00	0.52
4/25/07	0.00	0.00	0.00	0.08	0.08	0.08	0.05	0.00	0.21	0.59	1.02	0.92	1.07	1.41	1.28	1.09	1.06	0.57	0.12	0.07	0.07	0.01	0.02	0.04	24	1.41	0.00	0.41
4/26/07	0.25	0.16	0.01	0.00	0.00	0.00	0.22	0.26	0.53	0.89	0.94	1.28	1.10	1.21	1.32	1.17	1.15	0.92	0.55	0.32	0.55	0.21	0.21	0.26	24	1.32	0.00	0.56
4/27/07	0.21	0.23	0.14	0.19	0.21	0.29	0.26	0.64	0.89	1.08	1.04	1.29	1.45	1.37	1.30	1.12	0.99	0.95	0.37	0.19	0.13	0.10	0.09	0.10	24	1.45	0.09	0.61
4/28/07	0.09	0.16	0.18	0.23	0.20	0.33	0.20	0.20	0.64	0.89	1.23	1.25	1.29	1.33	1.21	1.17	1.06	0.79	0.41	0.19	0.10	0.08	0.10	0.11	24	1.33	0.08	0.56
4/29/07	0.18	0.09	0.11	0.13	0.18	0.14	0.21	0.49	0.49	0.84	0.97	1.09	1.25	1.14	1.17	0.92	0.95	0.81	0.42	0.22	0.14	0.35	0.47	0.23	24	1.25	0.09	0.54
4/30/07	0.11	0.37	0.35	0.48	0.62	0.91	0.80	0.93	1.12	1.25	1.29	1.18	1.26	1.14	1.11	0.98	1.04	0.91	0.60	0.50	0.41	0.50	0.35	0.41	24	1.29	0.11	0.78
																									0			
hr max	0.94	1.10	1.20	1.29	1.29	1.49	1.39	1.36	1.25	1.27	1.29	1.29	1.45	1.41	1.49	1.45	1.29	1.23	1.21	1.11	1.06	0.97	1.32	0.72				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.08	0.07	0.07	0.01	0.02	0.00				
average	0.31	0.38	0.42	0.49	0.53	0.54	0.52	0.58	0.69	0.82	0.87	0.91	0.88	0.86	0.86	0.83	0.77	0.69	0.46	0.37	0.34	0.32	0.32	0.27				

monthly max hr	monthly min hr	monthly ave hr
1.49	0.00	0.58
4/17/07	4/10/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	549
possible hours	720
data capture	76.3%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-6.2	-6.7	-7.1	-7.8	-9.2	-10.2	-9.7	-9.8	8	-6.2	-10.2	-8.3
4/6/07	-9.7	-9.8	-10.2	-11.1	-11.7	-11.3		-10.0	-9.3	-8.3	-7.6	-6.9	-6.6	-6.4	-6.0	-6.1	-5.7	-6.4	-6.6	-7.9	-8.8	-9.2	-9.5	-10.0	23	-5.7	-11.7	-8.5
4/7/07	-10.6	-11.1	-11.7	-12.7	-13.6	-13.8	-13.7	-11.9	-10.3	-9.0	-7.9	-6.8	-5.9	-5.1	-4.4	-4.1	-4.1	-4.4	-5.5	-8.0	-9.5	-10.0	-9.7	-9.9	24	-4.1	-13.8	-8.9
4/8/07	-10.9	-10.8	-11.1	-11.6	-12.0	-12.7	-12.5	-9.8	-7.0	-4.5	-3.2	-2.3	-1.8			-1.4			-2.6	-5.0	-5.8	-6.3	-6.8	-7.1	20	-1.4	-12.7	-7.3
4/9/07	-7.1	-6.7	-6.5	-6.5	-6.8	-7.1	-7.5	-6.0	-3.5	4.1						5.4	5.1	4.5	3.5	2.2	0.6	0.2	0.1	0.1	19	5.4	-7.5	-1.7
4/10/07	0.7	1.1	1.2	1.1	0.9	0.6	0.5	0.1	0.1	0.2	0.2	0.3	0.7	0.9	0.7	0.3	0.4	0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.9	24	1.2	-0.9	0.3
4/11/07	-1.0	-1.2	-1.2	-1.2	-1.2	-1.2	-1.5	-1.9	-2.0	-1.9	-1.8	-1.4	-1.3	-1.1	-0.8	-0.8	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.4	-1.6	24	-0.8	-2.0	-1.3
4/12/07	-1.7	-1.8	-1.8	-1.9	-2.0	-2.1	-2.0	-1.7	-1.3	-0.4	-0.3	-0.2	0.1	0.8	1.4	1.4	1.7	2.0	2.1	1.0	-0.5	-1.2	-1.8	-2.2	24	2.1	-2.2	-0.5
4/13/07	-2.3	-2.7	-3.1	-3.2	-2.2	-1.5	-1.9	0.4	3.1	5.0	5.9	6.5	7.5	7.4	7.5	7.6	8.8	8.9	8.2	6.4	4.0	2.5	3.2	0.4	24	8.9	-3.2	3.2
4/14/07	-0.7	-0.5	-1.4	-1.1	-1.4	-1.3	-0.2	2.9	5.8	8.9	10.8	11.6	12.3	12.9	13.7	14.2	14.5	14.4	13.2	8.1	4.7	3.5	2.6	2.6	24	14.5	-1.4	6.3
4/15/07	2.4	2.4	1.1	0.7	0.5	0.6	1.8	5.1	8.1	11.4	14.8	17.8	19.6	20.6	21.5	21.9	21.1	20.0	17.1	14.5	13.1	12.7	11.3	10.3	24	21.9	0.5	11.3
4/16/07	9.3	9.7	8.9	8.4	6.5	6.1	6.1	6.7	9.1	12.3	15.2	15.7	15.7	16.2	16.1	15.6	14.3	13.4	11.8	8.7	5.8	4.3	3.6	3.5	24	16.2	3.5	10.1
4/17/07	3.0	2.5	2.4	1.3	1.1	0.5	0.7	3.3	7.6	9.7	10.8	12.3	13.6	14.9	15.8	16.2	16.4	15.6	13.7	8.5	6.5	6.3	5.0	4.7	24	16.4	0.5	8.0
4/18/07	5.3	5.7	4.5	3.8	3.8	3.3	3.8	6.7	10.0	12.9	15.4	17.3	18.6	18.8	19.1	19.1	18.6	17.4	15.8	12.2	9.7	8.9	8.9	8.6	24	19.1	3.3	11.2
4/19/07	8.3	7.2	6.5	6.2	5.8	5.7	5.4	7.6	9.7	13.1	14.5	14.8	11.5	10.0	8.8	8.9	8.1	8.6	9.3	8.3	7.7	7.3	6.8	6.1	24	14.8	5.4	8.6
4/20/07	3.6	2.3	2.0	1.4	2.5	2.6	3.9	7.3	10.4	13.3	16.9	19.5	18.7	13.5	14.0	15.5	14.1	13.1	13.2	12.4	12.2	11.4	10.1	9.9	24	19.5	1.4	10.2
4/21/07	9.3	8.9	8.5	8.1	9.7	9.6	9.0	9.7	11.5	13.0	15.2	17.6	18.9	19.2	19.7	19.5	19.2	18.4	17.8	14.8	13.3	12.8	11.9	11.3	24	19.7	8.1	13.6
4/22/07	11.3	11.1	11.0	10.9	10.6	10.0	9.3	9.1	10.5	12.6	14.9	16.6	17.2	18.3	18.3	18.3	17.9	16.9	15.1	11.8	9.1	8.2	7.1	7.0	24	18.3	7.0	12.6
4/23/07	6.4	5.7	5.0	5.0	4.8	4.4	3.6	7.0	10.4	13.0	14.3	14.6	14.6	14.9	15.6	15.2	14.9	14.5	13.0	11.8	10.5	9.5	9.3	8.1	24	15.6	3.6	10.3
4/24/07	7.2	6.4	7.1	7.4	7.0	6.9	6.7	7.9	9.6	11.2	12.0	13.2	13.8	14.5	15.0	14.9	14.7	14.0	12.9	10.7	9.6	8.4	6.5	5.8	24	15.0	5.8	10.1
4/25/07	7.2	7.0	5.6	4.2	3.2	3.2	3.2	6.8	9.9	12.4	14.1	15.1	15.6	16.3	17.1	17.3	17.3	16.2	14.1	11.5	9.3	8.2	7.9	7.3	24	17.3	3.2	10.4
4/26/07	6.6	6.4	6.6	6.2	6.0	6.8	8.2	10.4	14.0	16.8	17.4	18.7	19.0	19.6	20.1	20.2	20.2	20.0	18.6	14.4	13.9	12.0	10.8	10.1	24	20.2	6.0	13.5
4/27/07	10.3	9.5	8.8	8.7	8.7	8.1	8.3	9.6	11.8	14.1	15.9	17.7	19.2	20.0	20.2	20.0	20.1	20.3	18.5	15.6	13.8	12.7	10.8	10.9	24	20.3	8.1	13.9
4/28/07	9.7	9.4	7.1	7.6	8.9	7.5	7.9	11.8	16.2	19.6	21.6	22.7	23.9	24.8	25.3	26.0	26.3	25.9	24.6	20.3	17.4	15.1	14.1	13.2	24	26.3	7.1	17.0
4/29/07	11.8	11.5	10.7	9.4	8.5	8.9	12.6	16.5	18.4	22.3	23.0	23.6	24.2	23.8	24.5	24.7	24.3	23.6	21.9	17.0	13.7	12.9	13.2	13.0	24	24.7	8.5	17.3
4/30/07	12.4	12.1	9.8	10.0	10.1	10.7	12.4	15.2	16.9	19.1	20.8	22.3	23.2	24.0	24.4	24.2	24.1	23.1	21.7	19.6	17.0	14.8	12.3	10.8	24	24.4	9.8	17.1
																									0			
hr max	12.4	12.1	11.0	10.9	10.6	10.7	12.6	16.5	18.4	22.3	23.0	23.6	24.2	24.8	25.3	26.0	26.3	25.9	24.6	20.3	17.4	15.1	14.1	13.2	monthly max hr	monthly min hr	monthly ave hr	
hr min	-10.9	-11.1	-11.7	-12.7	-13.6	-13.8	-13.7	-11.9	-10.3	-9.0	-7.9	-6.9	-6.6	-6.4	-6.0	-6.1	-6.2	-6.7	-7.1	-8.0	-9.5	-10.2	-9.7	-10.0	26.3	-13.8	7.1	
average	3.2	3.0	2.4	2.0	1.9	1.8	2.7	4.1	6.4	8.8	10.5	11.7	12.2	13.0	13.4	12.6	12.2	11.7	10.1	7.7	6.0	5.1	4.5	3.9	4/28/07	4/7/07		

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	598
possible hours	720
data capture	83.1%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-6.5	-6.8	-7.0	-7.6	-8.6	-9.4	-9.2	-9.4	8	-6.5	-9.4	-8.1
4/6/07	-9.4	-9.7	-9.9	-10.7	-11.3	-11.0		-10.3	-9.9	-9.1	-8.7	-8.0	-7.8	-7.6	-7.2	-6.9	-6.5	-6.7	-6.7	-7.5	-8.4	-8.7	-9.0	-9.6	23	-6.5	-11.3	-8.7
4/7/07	-10.2	-10.6	-11.2	-12.0	-13.1	-13.3	-13.5	-12.3	-11.0	-10.2	-9.2	-8.1	-7.3	-6.4	-5.6	-5.1	-4.9	-4.9	-5.3	-6.5	-7.3	-7.6	-7.9	-8.3	24	-4.9	-13.5	-8.8
4/8/07	-8.8	-8.7	-9.5	-10.4	-10.1	-10.0	-10.7	-10.1	-7.3	-5.0	-3.9	-3.3	-2.9						-2.6	-4.9	-5.7	-6.3	-6.7	-7.0	19	-2.6	-10.7	-7.0
4/9/07	-7.1	-6.6	-6.3	-6.4	-6.7	-7.1	-7.4	-5.8	-3.3	-1.4									3.6	2.4	0.7	0.2	0.1	0.2	16	3.6	-7.4	-3.2
4/10/07	0.9	1.3	1.3	1.3	0.9	0.6	0.5	0.1	0.1	0.1	0.2	0.2	0.5	0.7	0.6	0.3	0.3	0.0	-0.2	-0.3	-0.5	-0.6	-0.7	-0.9	24	1.3	-0.9	0.3
4/11/07	-1.1	-1.2	-1.2	-1.2	-1.1	-1.1	-1.5	-2.0	-2.1	-2.0	-1.9	-1.7	-1.5	-1.4	-1.1	-1.1	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.4	-1.5	24	-1.1	-2.1	-1.4
4/12/07	-1.6	-1.7	-1.8	-1.9	-1.9	-2.0	-1.9	-1.8	-1.6	-0.9	-0.6	-0.5	-0.2	0.4	0.8	0.9	1.4	1.8	1.9	1.2	0.5	0.3	0.4	0.3	24	1.9	-2.0	-0.4
4/13/07	0.1	-0.8	-0.9	-2.0	-1.7	-1.0	-1.2	0.1	2.6	4.2	5.0	5.6	6.5	6.7	7.2	7.3	8.3	8.7	8.5	7.5	7.0	5.3	6.0	4.8	24	8.7	-2.0	3.9
4/14/07	2.4	2.0	1.7	1.8	1.4	0.7	1.1	2.9	5.4	8.0	9.7	10.7	11.6	12.2	13.1	13.6	13.9	14.1	13.6	11.9	10.3	8.1	6.7	6.0	24	14.1	0.7	7.6
4/15/07	5.2	4.8	4.0	3.1	2.5	2.4	2.9	5.0	7.5	10.4	13.4	16.3	18.1	19.1	20.2	20.8	20.7	20.0	17.9	15.5	13.9	13.3	12.0	10.9	24	20.8	2.4	11.7
4/16/07	10.1	10.4	9.7	9.3	7.6	6.8	6.2	6.4	8.5	11.3	13.8	14.2	14.2	14.5	14.7	14.5	13.5	13.0	11.8	9.3	7.2	5.6	4.8	4.6	24	14.7	4.6	10.1
4/17/07	4.1	3.6	3.3	2.4	2.1	1.7	1.2	2.9	6.8	8.3	9.3	10.9	12.1	13.2	14.2	14.9	15.3	15.0	13.8	10.3	8.1	7.3	6.0	5.7	24	15.3	1.2	8.0
4/18/07	6.2	6.4	5.2	4.5	4.4	3.8	4.0	6.3	9.1	11.6	13.9	15.6	16.7	17.0	17.5	17.7	17.7	17.0	15.9	12.8	10.3	9.4	9.3	9.0	24	17.7	3.8	10.9
4/19/07	8.7	7.5	6.8	6.5	6.0	5.8	5.4	7.3	9.0	12.2	13.6	14.0	11.8	10.2	8.8	8.9	8.0	8.5	9.4	8.6	8.0	7.7	7.2	7.0	24	14.0	5.4	8.6
4/20/07	6.1	5.0	4.2	4.1	4.8	6.0	4.9	7.1			18.4	21.1	22.3					13.2	13.3	12.5	12.3	11.6	10.6	9.9	18	22.3	4.1	10.4
4/21/07	9.3	8.9	8.5	8.2	10.2	9.9	9.1	9.5	11.0	12.7	14.5	16.5	17.8	18.4	19.0	19.1	18.9	18.6	17.9	14.9	13.4	12.8	12.0	11.4	24	19.1	8.2	13.4
4/22/07	11.3	11.1	11.1	10.9	10.7	10.1	9.4	9.0	10.2	12.0	13.7	15.5	16.0	16.9	17.0	17.1	17.0	16.5	15.3	12.9	10.8	10.3	9.3	9.1	24	17.1	9.0	12.6
4/23/07	8.6	7.8	7.7	8.4	8.8	7.5	5.0	6.9	9.9	12.4	13.8	14.1	14.1	14.3	14.8	14.7	14.5	14.3	13.1	12.1	10.7	9.7	9.8	8.7	24	14.8	5.0	10.9
4/24/07	7.6	7.1	7.5	7.8	7.3	7.2	6.9	7.7	9.2	10.5	11.3	12.1	12.7	13.3	13.9	14.0	14.1	13.8	13.0	11.8	11.1	10.3	8.8	7.5	24	14.1	6.9	10.3
4/25/07	8.0	8.0	8.0	7.2	6.2	5.0	4.3	6.8	9.6	12.0	13.7	14.3	14.6	15.4	16.2	16.4	16.5	15.7	14.2	13.5	13.0	12.7	11.6	11.1	24	16.5	4.3	11.4
4/26/07	10.1	9.1	9.2	10.5	10.2	8.5	8.6	10.4	13.4	16.0	16.5	17.6	17.9	18.4	19.0	19.2	19.4	19.5	18.9	16.6	14.2	12.3	11.2	10.4	24	19.5	8.5	14.0
4/27/07	10.5	9.8	9.3	9.0	9.0	8.5	8.2	9.1	10.8	12.7	14.4	16.0	17.5	18.4	19.0	19.2	19.5	19.8	18.6	16.6	15.0	13.7	12.4	11.9	24	19.8	8.2	13.7
4/28/07	11.1	10.9	9.9	9.5	10.2	9.1	8.1	11.3	15.5	18.5	20.3	21.4	22.4	23.3	24.1	24.9	25.5	25.6	24.8	21.6	18.8	16.7	16.2	15.8	24	25.6	8.1	17.3
4/29/07	15.4	14.7	13.5	13.1	12.7	13.7	15.0	16.6	17.9	21.3	21.9	22.3	22.9	22.7	23.4	23.7	23.6	23.3	22.2	19.0	15.6	14.2	13.9	13.6	24	23.7	12.7	18.2
4/30/07	13.0	12.6	11.0	10.5	10.4	11.1	12.6	15.1	16.6	18.1	19.5	21.0	22.1	22.8	23.4	23.4	23.3	22.8	22.0	20.0	17.6	15.4	13.2	11.7	24	23.4	10.4	17.1
																									0			
hr max	15.4	14.7	13.5	13.1	12.7	13.7	15.0	16.6	17.9	21.3	21.9	22.3	22.9	23.3	24.1	24.9	25.5	25.6	24.8	21.6	18.8	16.7	16.2	15.8				
hr min	-10.2	-10.6	-11.2	-12.0	-13.1	-13.3	-13.5	-12.3	-11.0	-10.2	-9.2	-8.1	-7.8	-7.6	-7.2	-6.9	-6.5	-6.8	-7.0	-7.6	-8.6	-9.4	-9.2	-9.6				
average	4.4	4.1	3.6	3.3	3.2	2.9	3.2	3.9	5.7	7.7	9.7	10.7	11.3	11.9	12.4	12.6	11.8	11.7	10.3	8.6	7.2	6.3	5.6	5.1				

monthly max hr	monthly min hr	monthly ave hr
25.6	-13.5	7.3
4/28/07	4/7/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	588
possible hours	720
data capture	81.7%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-6.9	-7.1	-7.3	-7.6	-7.8	-7.6	-7.5	-8.2	8	-6.9	-8.2	-7.5
4/6/07	-8.8	-9.4	-9.8	-10.1	-10.3	-10.5		-10.7	-10.5	-9.9	-9.5	-8.8	-8.7	-8.5	-8.0	-7.5	-7.1	-7.2	-7.0	-7.4	-7.7	-7.5	-7.6	-8.3	23	-7.0	-10.7	-8.7
4/7/07	-8.9	-8.8	-9.7	-10.7	-11.8	-12.4	-12.8	-12.6	-11.7	-10.9	-10.0	-9.0	-8.2	-7.3	-6.5	-6.0	-5.7	-5.5	-5.5	-5.6	-5.3	-5.3	-5.3	-5.2	24	-5.2	-12.8	-8.4
4/8/07	-5.3	-5.8	-6.1	-7.8	-8.3	-9.2	-9.8	-9.5	-7.5	-5.5	-4.5	-3.8	-3.4												13	-3.4	-9.8	-6.7
4/9/07																			3.5	2.6	0.5	0.1	0.1	0.3	6	3.5	0.1	1.2
4/10/07	1.0	1.3	1.3	1.1	0.8	0.4	0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.1	0.3	0.3	0.1	0.0	-0.3	-0.5	-0.6	-0.7	-0.9	-1.0	-1.2	24	1.3	-1.2	0.0
4/11/07	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.8	-2.3	-2.5	-2.5	-2.4	-2.2	-1.9	-1.8	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.7	-1.8	24	-1.3	-2.5	-1.7
4/12/07	-1.9	-2.0	-2.0	-2.1	-2.1	-2.1	-2.1	-2.2	-1.9	-1.4	-1.0	-0.8	-0.6	-0.1	0.3	0.5	0.9	1.4	1.6	1.2	1.0	1.0	0.9	0.8	24	1.6	-2.2	-0.5
4/13/07	0.7	0.3	0.2	-0.2	0.5	0.8	0.5	1.2	2.2	3.6	4.3	5.1	5.9	6.3	6.8	6.9	7.8	8.2	8.3	8.0	8.0	7.7	7.6	7.4	24	8.3	-0.2	4.5
4/14/07	5.6	5.4	5.4	4.4	4.3	3.4	5.1	5.2	5.4	7.5	9.0	10.0	10.8	11.5	12.3	13.0	13.4	13.6	13.5	12.9	12.6	12.2	10.5	9.9	24	13.6	3.4	9.0
4/15/07	8.7	8.2	6.9	6.9	6.6	6.2	5.9	5.5	7.1	9.9	12.8	15.6	17.3	18.4	19.4	20.1	20.3	20.1	19.2	17.7	16.1	15.1	14.6	14.0	24	20.3	5.5	13.0
4/16/07	13.1	12.6	12.3	11.8	11.8	9.4	6.4	6.2	8.0	10.5	12.8	13.1	13.1	13.3	13.6	13.5	12.6	12.4	11.7	10.0	8.8	7.3	6.6	5.9	24	13.6	5.9	10.7
4/17/07	5.1	4.5	3.8	3.2	3.8	4.1	3.4	3.5	6.2	7.5	8.5	10.0	11.2	12.3	13.3	13.9	14.6	14.4	13.8	12.7	11.3	9.1	9.1	9.3	24	14.6	3.2	8.7
4/18/07	8.5	8.2	7.5	7.3	6.9	6.2	5.8	6.1	8.5	10.9	13.1	14.7	15.7	16.0	16.4	16.7	16.9	16.4	15.7	13.6	11.1	10.2	9.9	9.5	24	16.9	5.8	11.3
4/19/07	9.1	8.0	7.2	6.9	6.3	5.9	5.4	7.0	8.5	11.5	12.8	13.3	11.9	10.3	8.7	8.8	7.9	8.3	9.4	9.1	8.6	8.3	8.0	8.1	24	13.3	5.4	8.7
4/20/07	7.8	8.2	8.5	8.7	9.1	9.7	7.9	7.7			17.0	19.5	18.8					13.7	13.3	12.6	12.3	11.7	10.8	9.8	18	19.5	7.7	11.5
4/21/07	9.2	8.8	8.7	11.5	13.8	12.2	12.6	10.3	10.8	12.3	13.8	15.7	17.1	17.7	18.4	18.6	18.4	18.5	17.9	14.8	13.3	12.6	11.8	11.3	24	18.6	8.7	13.8
4/22/07	11.2	11.0	10.9	10.8	10.5	10.1	9.4	8.7	9.9	11.3	12.8	14.6	15.1	15.8	16.1	16.2	16.3	16.0	15.5	14.3	14.4	13.3	12.4	11.5	24	16.3	8.7	12.8
4/23/07	11.0	10.2	9.5	9.6	9.5	9.2	8.2	7.7	9.5	11.8	13.2	13.6	13.7	13.8	14.2	14.2	14.2	14.0	13.1	12.5	11.0	9.9	9.9	9.1	24	14.2	7.7	11.4
4/24/07	8.4	8.3	8.5	8.2	7.5	7.4	7.2	7.5	8.8	10.0	10.7	11.3	12.0	12.6	13.2	13.4	13.5	13.5	13.0	12.3	12.0	11.2	10.8	10.6	24	13.5	7.2	10.5
4/25/07	10.4	10.1	10.6	10.3	9.7	9.6	8.6	9.6	9.6	11.6	13.2	13.8	14.0	14.8	15.5	15.9	15.9	15.2	14.7	14.3	14.2	14.1	13.8	13.9	24	15.9	8.6	12.6
4/26/07	13.1	12.7	13.0	13.3	13.2	12.8	12.3	11.1	13.0	15.5	15.9	16.9	17.2	17.6	18.1	18.5	18.8	19.0	18.7	18.0	14.3	12.8	12.2	11.4	24	19.0	11.1	15.0
4/27/07	11.0	11.1	11.1	10.3	9.8	9.0	8.3	8.6	10.2	12.0	13.6	15.1	16.6	17.4	18.2	18.5	18.8	19.2	18.5	17.9	17.6	16.8	16.1	15.7	24	19.2	8.3	14.2
4/28/07	15.5	15.3	14.8	14.5	14.1	13.6	12.9	13.2	14.9	17.8	19.5	20.5	21.5	22.4	23.2	24.1	24.7	25.0	24.8	24.1	23.4	21.9	21.7	20.1	24	25.0	12.9	19.3
4/29/07	19.4	18.3	18.5	18.9	19.1	18.6	19.1	17.3	17.4	20.5	21.0	21.4	21.9	21.9	22.6	22.9	23.0	22.9	22.2	21.0	19.1	16.9	15.4	14.7	24	23.0	14.7	19.8
4/30/07	14.2	13.6	12.0	11.3	10.7	11.3	12.7	14.8	16.1	17.3	18.6	20.2	21.4	21.9	22.7	22.7	22.7	22.3	21.9	20.2	17.9	15.8	13.9	12.5	24	22.7	10.7	17.0
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	19.4	18.3	18.5	18.9	19.1	18.6	19.1	17.3	17.4	20.5	21.0	21.4	21.9	22.4	23.2	24.1	24.7	25.0	24.8	24.1	23.4	21.9	21.7	20.1	25.0	-12.8	8.2
hr min	-8.9	-9.4	-9.8	-10.7	-11.8	-12.4	-12.8	-12.6	-11.7	-10.9	-10.0	-9.0	-8.7	-8.5	-8.0	-7.5	-7.1	-7.2	-7.3	-7.6	-7.8	-7.6	-7.6	-8.3	4/28/07	4/7/07	
average	6.5	6.2	5.9	5.7	5.6	5.2	5.5	4.7	5.7	7.4	9.0	10.0	10.5	11.2	11.7	12.0	11.3	11.4	10.7	9.9	9.0	8.2	7.7	7.2			

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	572
possible hours	720
data capture	79.4%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-7.50	-7.70	-7.80	-8.00	-7.90	-7.80	-7.70	-8.00	8	-7.50	-8.00	-7.80
4/6/07	-8.00	-9.20	-9.90	-8.90	-9.30	-10.30		-10.80	-11.10	-10.50	-10.10	-9.50	-9.30	-9.20	-8.70	-8.20	-7.70	-7.80	-7.50	-7.50	-7.30	-7.20	-7.00	-7.70	23	-7.00	-11.10	-8.81
4/7/07	-8.30	-8.30	-9.60	-10.50	-11.20	-11.80	-12.20	-12.60	-12.30	-11.50	-10.60	-9.70	-8.80	-8.00	-7.20	-6.70	-6.40	-6.10	-6.00	-5.90	-5.60	-5.60	-5.60	-5.50	24	-5.50	-12.60	-8.58
4/8/07	-5.40	-5.60	-5.70	-7.00	-8.00	-8.60	-8.30	-7.60	-7.30	-6.10	-5.10	-4.60	-4.30						-2.60	-4.80	-5.60	-6.20	-6.60	-6.90	19	-2.60	-8.60	-6.12
4/9/07	-7.00	-6.60	-6.30	-6.40	-6.60	-7.00	-7.30	-5.90	-3.60	-1.70									3.20	2.60	0.70	0.00	0.10	0.50	16	3.20	-7.30	-3.21
4/10/07	0.90	1.10	0.90	0.70	0.40	0.10	-0.20	-0.60	-0.70	-0.60	-0.60	-0.50	-0.30	-0.10	-0.10	-0.30	-0.50	-0.80	-1.00	-1.10	-1.20	-1.30	-1.40	-1.60	24	1.10	-1.60	-0.37
4/11/07	-1.80	-1.90	-1.90	-1.80	-1.80	-1.80	-2.30	-2.90	-3.00	-3.10	-3.10	-2.90	-2.80	-2.60	-2.30	-2.20	-2.30	-2.30	-2.20	-2.20	-2.20	-2.20	-2.30	-2.30	24	-1.80	-3.10	-2.34
4/12/07	-2.40	-2.50	-2.50	-2.60	-2.60	-2.50	-2.60	-2.70	-2.60	-2.00	-1.60	-1.40	-1.20	-0.70	-0.30	-0.10	0.30	0.80	1.00	0.70	0.60	0.70	0.50	0.50	24	1.00	-2.70	-1.05
4/13/07	0.30	0.10	0.00	0.00	0.50	0.90	1.30	1.80	2.20	3.00	3.80	4.50	5.30	5.70	6.30	6.40	7.20	7.70	7.80	7.60	7.60	7.50	7.40	7.30	24	7.80	0.00	4.26
4/14/07	6.90	5.80	5.60	5.70	5.60	5.50	5.80	6.10	5.90	7.00	8.40	9.40	10.20	11.00	11.70	12.40	12.80	13.10	13.00	12.60	12.30	12.00	11.40	11.70	24	13.10	5.50	9.25
4/15/07	11.00	10.20	8.90	8.70	8.70	8.70	7.20	6.00	6.70	9.30	12.30	15.00	16.60	17.80	18.80	19.60	19.80	19.80	19.30	19.00	17.90	16.80	16.30	15.10	24	19.80	6.00	13.73
4/16/07	14.10	14.10	13.70	13.60	12.60	10.50	7.00	5.90	7.40	9.80	12.10	12.40	12.40	12.60	12.90	12.80	11.90	11.80	11.20	10.00	9.40	8.40	7.70	6.60	24	14.10	5.90	10.87
4/17/07	5.90	5.10	4.80	4.50	5.00	5.10	4.90	4.70	5.60	6.80	7.80	9.30	10.50	11.70	12.50	13.20	14.00	13.80	13.40	12.70	11.90	11.10	11.10	11.00	24	14.00	4.50	9.02
4/18/07	10.60	10.20	9.70	9.30	8.90	7.80	7.40	6.60	8.10	10.30	12.40	14.00	15.10	15.40	15.80	16.10	16.30	15.90	15.30	13.90	11.80	11.20	10.30	9.80	24	16.30	6.60	11.76
4/19/07	9.40	8.30	7.60	7.30	6.40	6.00	5.40	6.70	8.00	10.90	12.30	12.70	11.60	10.00	8.20	8.30	7.50	8.10	9.10	9.10	9.10	8.90	8.90	8.20	24	12.70	5.40	8.67
4/20/07	7.70	8.20	8.50	8.80	9.20	10.40	9.70	10.70			16.70	19.20	18.50					13.70	13.70	12.50	12.30	11.90	12.40	11.40	18	19.20	7.70	11.97
4/21/07	10.00	11.30	12.40	15.60	15.60	13.70	14.70	10.70	10.30	11.80	13.20	15.00	16.50	17.10	17.80	18.10	17.90	18.10	17.60	14.60	13.00	12.20	11.50	10.90	24	18.10	10.00	14.15
4/22/07	10.90	10.70	10.60	10.40	10.10	9.80	9.40	8.30	9.40	10.70	12.10	13.90	14.40	15.20	15.40	15.60	15.70	15.50	15.20	14.50	14.50	13.90	13.10	12.10	24	15.70	8.30	12.56
4/23/07	12.30	10.90	10.30	11.20	10.30	9.70	9.00	8.90	9.40	11.20	12.70	13.00	13.10	13.20	13.60	13.70	13.60	13.40	12.70	12.40	11.00	10.10	9.50	8.90	24	13.70	8.90	11.42
4/24/07	9.00	8.90	9.70	8.50	7.40	7.30	7.40	7.60	8.20	9.30	10.10	10.70	11.30	12.00	12.50	12.70	12.90	12.90	12.60	12.00	11.80	11.40	11.00	10.80	24	12.90	7.30	10.33
4/25/07	10.70	10.50	10.60	10.50	10.40	10.20	9.80	10.10	10.50	11.00	12.50	13.10	13.30	14.20	14.90	15.30	15.30	14.60	14.20	14.00	13.90	13.80	13.70	13.70	24	15.30	9.80	12.53
4/26/07	13.20	12.80	13.00	13.30	13.20	13.20	13.00	11.90	12.50	14.90	15.30	16.20	16.60	17.00	17.60	17.90	18.20	18.40	18.30	17.70	14.10	13.10	12.60	11.60	24	18.40	11.60	14.82
4/27/07	11.30	11.60	11.30	10.90	10.10	9.00	8.50	8.20	9.60	11.30	13.00	14.50	15.80	16.70	17.50	17.90	18.20	18.60	18.20	17.90	17.60	17.50	17.00	17.10	24	18.60	8.20	14.14
4/28/07	16.90	16.40	16.00	15.60	15.30	15.30	15.10	15.90	15.00	17.30	18.90	19.90	20.90	21.80	22.60	23.50	24.20	24.50	24.40	24.20	24.00	23.90	23.90	23.10	24	24.50	15.00	19.94
4/29/07	21.80	21.00	20.80	21.00	20.90	20.00	20.40	18.00	17.50	20.00	20.50	20.70	21.30	21.30	22.00	22.30	22.40	22.40	21.80	20.80	19.70	18.40	17.30	16.70	24	22.40	16.70	20.38
4/30/07	15.90	15.00	12.90	12.40	11.00	11.40	13.00	14.50	15.60	16.70	18.00	19.50	20.80	21.30	22.10	22.20	22.10	21.70	21.50	20.00	18.00	16.00	14.50	13.30	24	22.20	11.00	17.06
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	21.80	21.00	20.80	21.00	20.90	20.00	20.40	18.00	17.50	20.00	20.50	20.70	21.30	21.80	22.60	23.50	24.20	24.50	24.40	24.20	24.00	23.90	23.90	23.10	24.50	-12.60	7.90
hr min	-8.30	-9.20	-9.90	-10.50	-11.20	-11.80	-12.20	-12.60	-12.30	-11.50	-10.60	-9.70	-9.30	-9.20	-8.70	-8.20	-7.70	-7.80	-7.80	-8.00	-7.90	-7.80	-7.70	-8.00	4/28/07	4/7/07	
average	6.64	6.32	6.06	6.03	5.68	5.30	5.67	4.78	5.05	6.49	8.38	9.35	9.90	10.61	11.07	11.39	10.69	10.84	9.86	9.20	8.52	8.02	7.68	7.24			

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	588
possible hours	720
data capture	81.7%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-0.29	-0.11	0.07	0.26	0.65	0.72	0.49	0.41	8	0.72	-0.29	0.28
4/6/07	0.29	0.13	0.23	0.40	0.47	0.23		-0.29	-0.64	-0.87	-1.08	-1.17	-1.16	-1.18	-1.11	-0.76	-0.76	-0.31	-0.08	0.31	0.40	0.46	0.45	0.45	23	0.47	-1.18	-0.24
4/7/07	0.46	0.48	0.47	0.63	0.58	0.47	0.23	-0.41	-0.78	-1.13	-1.28	-1.33	-1.40	-1.33	-1.25	-1.05	-0.81	-0.47	0.13	1.42	2.19	2.47	1.77	1.53	24	2.47	-1.40	0.07
4/8/07	2.05	2.11	1.53	1.13	1.86	2.70	1.79	-0.20	-0.26	-0.50	-0.72	-1.05	-1.14						0.02	0.09	0.09	0.08	0.07	0.07	19	2.70	-1.14	0.51
4/9/07	0.07	0.09	0.10	0.09	0.08	0.07	0.07	0.16	0.18	-5.47									0.09	0.16	0.04	0.01	0.04	0.09	16	0.18	-5.47	-0.26
4/10/07	0.15	0.19	0.16	0.09	0.05	0.01	0.00	-0.02	-0.03	-0.04	-0.07	-0.11	-0.21	-0.20	-0.10	-0.07	-0.11	-0.07	-0.07	-0.07	-0.05	-0.04	-0.03	-0.02	24	0.19	-0.21	-0.03
4/11/07	-0.02	-0.01	0.00	0.00	0.02	0.04	0.01	-0.03	-0.09	-0.14	-0.18	-0.27	-0.25	-0.27	-0.33	-0.32	-0.23	-0.14	-0.04	0.01	0.03	0.03	0.04	0.07	24	0.07	-0.33	-0.09
4/12/07	0.05	0.04	0.05	0.07	0.09	0.08	0.07	-0.11	-0.28	-0.45	-0.32	-0.25	-0.29	-0.39	-0.59	-0.43	-0.31	-0.24	-0.15	0.13	0.97	1.51	2.21	2.48	24	2.48	-0.59	0.16
4/13/07	2.39	1.88	2.22	1.19	0.54	0.50	0.66	-0.33	-0.58	-0.83	-0.93	-0.84	-1.01	-0.61	-0.30	-0.28	-0.50	-0.30	0.29	1.16	3.00	2.72	2.82	4.48	24	4.48	-1.01	0.72
4/14/07	3.04	2.57	3.05	2.93	2.77	1.95	1.31	-0.03	-0.47	-0.84	-1.04	-0.87	-0.71	-0.73	-0.66	-0.58	-0.60	-0.40	0.37	3.87	5.57	4.54	4.04	3.42	24	5.57	-1.04	1.35
4/15/07	2.73	2.46	2.95	2.40	2.00	1.75	1.03	-0.06	-0.60	-1.00	-1.37	-1.45	-1.55	-1.48	-1.32	-1.06	-0.46	0.05	0.79	1.04	0.83	0.68	0.73	0.67	24	2.95	-1.55	0.41
4/16/07	0.76	0.69	0.81	0.87	1.09	0.76	0.10	-0.26	-0.60	-1.02	-1.39	-1.51	-1.50	-1.65	-1.43	-1.15	-0.84	-0.48	0.06	0.65	1.37	1.29	1.25	1.16	24	1.37	-1.65	-0.04
4/17/07	1.08	1.12	0.92	1.07	1.00	1.25	0.43	-0.32	-0.84	-1.33	-1.47	-1.45	-1.57	-1.63	-1.60	-1.33	-1.01	-0.55	0.19	1.79	1.57	0.95	1.09	1.02	24	1.79	-1.63	0.02
4/18/07	0.90	0.72	0.68	0.68	0.60	0.54	0.20	-0.43	-0.93	-1.26	-1.55	-1.69	-1.86	-1.79	-1.60	-1.33	-0.91	-0.42	0.11	0.65	0.57	0.49	0.44	0.41	24	0.90	-1.86	-0.28
4/19/07	0.37	0.34	0.29	0.26	0.20	0.09	-0.03	-0.30	-0.63	-0.86	-0.89	-0.74	0.34	0.27	-0.02	0.03	-0.03	-0.14	0.16	0.36	0.36	0.32	0.39	0.89	24	0.89	-0.89	0.04
4/20/07	2.46	2.70	2.28	2.73	2.38	3.33	1.03	-0.24			1.43	1.55	3.61					0.14	0.09	0.12	0.13	0.22	0.52	0.00	18	3.61	-0.24	1.36
4/21/07	0.00	0.01	0.01	0.14	0.49	0.30	0.12	-0.21	-0.45	-0.27	-0.73	-1.13	-1.14	-0.78	-0.66	-0.36	-0.33	0.25	0.11	0.09	0.06	0.03	0.07	0.06	24	0.49	-1.14	-0.18
4/22/07	0.05	0.02	0.02	0.04	0.05	0.17	0.11	-0.10	-0.24	-0.66	-1.19	-1.12	-1.16	-1.40	-1.29	-1.21	-0.91	-0.43	0.25	1.12	1.66	2.10	2.17	2.03	24	2.17	-1.40	0.00
4/23/07	2.21	2.14	2.71	3.44	3.98	3.04	1.38	-0.18	-0.54	-0.60	-0.59	-0.48	-0.48	-0.61	-0.81	-0.52	-0.37	-0.17	0.11	0.29	0.18	0.18	0.50	0.63	24	3.98	-0.81	0.64
4/24/07	0.44	0.69	0.40	0.38	0.26	0.27	0.16	-0.17	-0.41	-0.70	-0.72	-1.16	-1.05	-1.16	-1.14	-0.86	-0.62	-0.22	0.13	1.05	1.59	1.88	2.22	1.69	24	2.22	-1.16	0.12
4/25/07	0.80	0.99	2.41	3.01	2.99	1.80	1.12	-0.05	-0.37	-0.37	-0.44	-0.79	-1.01	-0.91	-0.93	-0.82	-0.79	-0.50	0.07	1.96	3.69	4.46	3.68	3.74	24	4.46	-1.01	0.99
4/26/07	3.50	2.72	2.51	4.27	4.11	1.68	0.40	-0.05	-0.56	-0.82	-0.90	-1.02	-1.06	-1.13	-1.06	-1.06	-0.81	-0.48	0.34	2.17	0.29	0.32	0.43	0.27	24	4.27	-1.13	0.59
4/27/07	0.21	0.35	0.46	0.33	0.23	0.39	-0.04	-0.53	-0.95	-1.35	-1.48	-1.68	-1.69	-1.61	-1.15	-0.87	-0.67	-0.50	0.14	0.98	1.19	1.00	1.61	1.02	24	1.61	-1.69	-0.19
4/28/07	1.37	1.46	2.76	1.87	1.27	1.66	0.19	-0.46	-0.75	-1.06	-1.25	-1.38	-1.47	-1.44	-1.22	-1.08	-0.78	-0.38	0.19	1.33	1.39	1.60	2.13	2.55	24	2.76	-1.47	0.35
4/29/07	3.61	3.27	2.86	3.74	4.17	4.80	2.39	0.14	-0.53	-0.94	-1.13	-1.22	-1.28	-1.13	-1.08	-0.97	-0.69	-0.26	0.34	1.98	1.92	1.29	0.77	0.61	24	4.80	-1.28	0.94
4/30/07	0.59	0.55	1.15	0.50	0.25	0.35	0.22	-0.16	-0.34	-1.02	-1.33	-1.37	-1.08	-1.20	-0.99	-0.80	-0.76	-0.32	0.24	0.47	0.53	0.63	0.84	0.91	24	1.15	-1.37	-0.09
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	3.61	3.27	3.05	4.27	4.17	4.80	2.39	0.16	0.18	-0.04	1.43	1.55	3.61	0.27	-0.02	0.03	-0.03	0.25	0.79	3.87	5.57	4.54	4.04	4.48	5.57	-5.47	0.27
hr min	-0.02	-0.01	0.00	0.00	0.02	0.01	-0.04	-0.53	-0.95	-5.47	-1.55	-1.69	-1.86	-1.79	-1.60	-1.33	-1.01	-0.55	-0.15	-0.07	-0.05	-0.04	-0.03	-0.02	4/14/07	4/9/07	
average	1.18	1.11	1.24	1.29	1.26	1.13	0.54	-0.19	-0.49	-0.98	-0.86	-0.94	-0.84	-1.02	-0.94	-0.77	-0.59	-0.27	0.15	0.90	1.16	1.15	1.18	1.18			

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	588
possible hours	720
data capture	81.7%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-0.41	-0.35	-0.22	-0.03	0.82	1.88	1.69	1.20	8	1.88	-0.41	0.57
4/6/07	0.65	0.22	0.07	0.59	0.92	0.53		-0.35	-0.66	-0.76	-0.81	-0.83	-0.89	-0.91	-0.83	-0.66	-0.64	-0.45	-0.32	0.17	0.69	1.23	1.43	1.23	23	1.43	-0.91	-0.02
4/7/07	1.20	1.77	1.56	1.35	1.30	0.97	0.65	-0.26	-0.63	-0.75	-0.79	-0.87	-0.90	-0.90	-0.93	-0.84	-0.79	-0.57	-0.19	0.89	1.98	2.24	2.59	3.14	24	3.14	-0.93	0.47
4/8/07	3.56	2.83	3.42	2.66	1.83	0.81	0.99	0.58	-0.17	-0.46	-0.56	-0.46	-0.44												13	3.56	-0.56	1.12
4/9/07																			-0.08	0.23	-0.10	-0.18	-0.07	0.05	6	0.23	-0.18	-0.03
4/10/07	0.09	0.01	-0.06	-0.13	-0.18	-0.21	-0.23	-0.23	-0.26	-0.26	-0.28	-0.28	-0.35	-0.35	-0.24	-0.16	-0.26	-0.27	-0.26	-0.28	-0.29	-0.29	-0.27	-0.27	24	0.09	-0.35	-0.22
4/11/07	-0.25	-0.24	-0.22	-0.22	-0.22	-0.23	-0.28	-0.33	-0.38	-0.41	-0.41	-0.45	-0.44	-0.45	-0.46	-0.41	-0.38	-0.34	-0.31	-0.28	-0.27	-0.27	-0.27	-0.25	24	-0.22	-0.46	-0.32
4/12/07	-0.26	-0.26	-0.28	-0.28	-0.19	-0.09	-0.20	-0.36	-0.38	-0.52	-0.44	-0.40	-0.42	-0.47	-0.51	-0.42	-0.43	-0.37	-0.31	0.06	0.56	0.71	0.49	0.54	24	0.71	-0.52	-0.18
4/13/07	0.57	1.15	1.12	1.79	2.20	1.85	1.70	1.09	-0.36	-0.61	-0.60	-0.56	-0.62	-0.49	-0.40	-0.42	-0.51	-0.42	-0.20	0.48	0.99	2.42	1.64	2.50	24	2.50	-0.62	0.60
4/14/07	3.25	3.38	3.73	2.61	2.90	2.70	3.99	2.34	0.02	-0.54	-0.74	-0.70	-0.76	-0.69	-0.74	-0.59	-0.53	-0.44	-0.12	0.93	2.30	4.15	3.85	3.94	24	4.15	-0.76	1.43
4/15/07	3.53	3.39	2.89	3.76	4.18	3.81	3.01	0.45	-0.41	-0.54	-0.64	-0.71	-0.78	-0.76	-0.81	-0.74	-0.42	0.09	1.32	2.21	2.20	1.73	2.58	3.09	24	4.18	-0.81	1.35
4/16/07	3.06	2.22	2.60	2.52	4.12	2.52	0.24	-0.24	-0.56	-0.83	-1.10	-1.08	-1.09	-1.21	-1.09	-0.98	-0.90	-0.60	-0.16	0.72	1.63	1.79	1.74	1.27	24	4.12	-1.21	0.61
4/17/07	1.04	0.92	0.48	0.76	1.75	2.37	2.26	0.58	-0.59	-0.79	-0.80	-0.83	-0.86	-0.88	-0.90	-0.92	-0.71	-0.55	0.00	2.39	3.23	1.82	3.02	3.58	24	3.58	-0.92	0.68
4/18/07	2.35	1.72	2.24	2.83	2.56	2.39	1.80	-0.21	-0.57	-0.75	-0.81	-0.92	-0.97	-0.98	-1.02	-0.98	-0.79	-0.53	-0.16	0.73	0.84	0.78	0.57	0.48	24	2.83	-1.02	0.44
4/19/07	0.48	0.42	0.42	0.44	0.27	0.10	-0.03	-0.30	-0.53	-0.70	-0.73	-0.72	0.08	0.06	-0.16	-0.12	-0.17	-0.19	-0.03	0.44	0.57	0.60	0.85	1.10	24	1.10	-0.73	0.09
4/20/07	1.75	3.24	4.24	4.51	4.27	3.76	3.01	0.63			-1.35	-1.56	-3.56					0.44	0.06	0.07	0.01	0.05	0.22	-0.10	18	4.51	-3.56	1.09
4/21/07	-0.08	-0.08	0.19	3.27	3.55	2.29	3.49	0.73	-0.21	-0.39	-0.67	-0.79	-0.72	-0.69	-0.63	-0.52	-0.45	-0.11	0.05	-0.06	-0.11	-0.17	-0.15	-0.09	24	3.55	-0.79	0.32
4/22/07	-0.07	-0.10	-0.16	-0.14	-0.14	0.01	0.06	-0.27	-0.35	-0.63	-0.88	-0.92	-0.92	-1.06	-0.91	-0.89	-0.75	-0.48	0.19	1.38	3.60	3.01	3.10	2.44	24	3.60	-1.06	0.21
4/23/07	2.32	2.39	1.86	1.18	0.72	1.74	3.24	0.86	-0.43	-0.59	-0.52	-0.53	-0.47	-0.56	-0.57	-0.46	-0.39	-0.33	0.00	0.47	0.32	0.28	0.11	0.37	24	3.24	-0.59	0.46
4/24/07	0.76	1.21	1.05	0.41	0.22	0.22	0.28	-0.15	-0.39	-0.54	-0.57	-0.76	-0.75	-0.76	-0.71	-0.63	-0.57	-0.32	0.03	0.54	0.90	0.86	2.07	3.16	24	3.16	-0.76	0.23
4/25/07	2.33	2.08	2.57	3.09	3.50	4.66	4.27	2.84	0.05	-0.37	-0.52	-0.49	-0.59	-0.58	-0.63	-0.51	-0.61	-0.48	0.46	0.83	1.23	1.49	2.23	2.85	24	4.66	-0.63	1.24
4/26/07	3.08	3.62	3.82	2.84	3.07	4.29	3.70	0.69	-0.40	-0.52	-0.63	-0.78	-0.70	-0.81	-0.89	-0.69	-0.63	-0.54	-0.22	1.40	0.09	0.41	0.94	1.00	24	4.29	-0.89	0.92
4/27/07	0.48	1.27	1.75	1.28	0.82	0.46	0.08	-0.42	-0.61	-0.75	-0.81	-0.91	-0.90	-0.98	-0.83	-0.70	-0.63	-0.60	-0.16	1.39	2.56	3.10	3.69	3.76	24	3.76	-0.98	0.51
4/28/07	4.39	4.40	4.93	5.04	3.88	4.46	4.78	1.91	-0.50	-0.73	-0.85	-0.85	-0.96	-0.97	-0.87	-0.80	-0.73	-0.57	-0.08	2.49	4.63	5.11	5.47	4.31	24	5.47	-0.97	2.00
4/29/07	3.94	3.55	4.93	5.72	6.47	4.99	4.15	0.62	-0.42	-0.81	-0.90	-0.97	-1.01	-0.83	-0.82	-0.82	-0.65	-0.38	-0.01	2.07	3.49	2.65	1.47	1.10	24	6.47	-1.01	1.56
4/30/07	1.19	0.96	1.04	0.82	0.33	0.22	0.14	-0.27	-0.51	-0.85	-0.93	-0.81	-0.73	-0.84	-0.72	-0.65	-0.68	-0.51	-0.11	0.14	0.33	0.43	0.76	0.78	24	1.19	-0.93	-0.02
																									0			
hr max	4.39	4.40	4.93	5.72	6.47	4.99	4.78	2.84	0.05	-0.26	-0.28	-0.28	0.08	0.06	-0.16	-0.12	-0.17	0.44	1.32	2.49	4.63	5.11	5.47	4.31				
hr min	-0.26	-0.26	-0.28	-0.28	-0.22	-0.23	-0.28	-0.42	-0.66	-0.85	-1.35	-1.56	-3.56	-1.21	-1.09	-0.98	-0.90	-0.60	-0.32	-0.28	-0.29	-0.29	-0.27	-0.27				
average	1.64	1.67	1.84	1.95	2.01	1.86	1.79	0.41	-0.40	-0.61	-0.72	-0.76	-0.82	-0.73	-0.71	-0.63	-0.57	-0.37	-0.03	0.78	1.29	1.43	1.59	1.65				

monthly	monthly	monthly
max hr	min hr	ave hr
6.47	-3.56	0.59
4/29/07	4/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	572
possible hours	720
data capture	79.4%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	-0.61	-0.60	-0.56	-0.39	-0.19	-0.23	-0.14	0.22	8	0.22	-0.61	-0.31
4/6/07	0.73	0.26	-0.04	1.16	1.02	0.20		-0.13	-0.58	-0.62	-0.65	-0.69	-0.64	-0.68	-0.67	-0.64	-0.65	-0.60	-0.53	-0.09	0.37	0.29	0.54	0.58	23	1.16	-0.69	-0.09
4/7/07	0.61	0.59	0.04	0.17	0.60	0.55	0.67	-0.04	-0.61	-0.59	-0.61	-0.66	-0.65	-0.66	-0.69	-0.68	-0.66	-0.64	-0.52	-0.28	-0.33	-0.25	-0.30	-0.28	24	0.67	-0.69	-0.22
4/8/07	-0.15	0.24	0.38	0.72	0.31	0.57	1.48	1.92	0.15	-0.68	-0.68	-0.85	-0.95												13	1.92	-0.95	0.19
4/9/07																			-0.38	0.03	0.17	-0.07	0.04	0.17	6	0.17	-0.38	-0.01
4/10/07	-0.07	-0.24	-0.34	-0.41	-0.38	-0.36	-0.42	-0.44	-0.45	-0.47	-0.45	-0.43	-0.45	-0.44	-0.42	-0.41	-0.51	-0.52	-0.50	-0.47	-0.45	-0.43	-0.47	-0.44	24	-0.07	-0.52	-0.42
4/11/07	-0.45	-0.45	-0.45	-0.47	-0.46	-0.46	-0.48	-0.56	-0.59	-0.69	-0.73	-0.76	-0.79	-0.77	-0.72	-0.68	-0.69	-0.67	-0.67	-0.66	-0.65	-0.62	-0.60	-0.55	24	-0.45	-0.79	-0.61
4/12/07	-0.50	-0.50	-0.51	-0.50	-0.49	-0.40	-0.42	-0.51	-0.65	-0.59	-0.59	-0.60	-0.59	-0.62	-0.66	-0.65	-0.65	-0.59	-0.62	-0.49	-0.42	-0.39	-0.38	-0.32	24	-0.32	-0.66	-0.53
4/13/07	-0.33	-0.25	-0.19	0.18	0.00	0.06	0.84	0.61	0.01	-0.56	-0.57	-0.57	-0.59	-0.57	-0.54	-0.50	-0.59	-0.56	-0.51	-0.37	-0.35	-0.14	-0.18	-0.01	24	0.84	-0.59	-0.24
4/14/07	1.24	0.38	0.25	1.30	1.28	2.10	0.75	0.85	0.47	-0.51	-0.59	-0.62	-0.65	-0.56	-0.62	-0.60	-0.57	-0.56	-0.45	-0.29	-0.32	-0.22	0.90	1.72	24	2.10	-0.65	0.20
4/15/07	2.27	2.01	2.01	1.82	2.03	2.55	1.33	0.57	-0.43	-0.58	-0.51	-0.60	-0.62	-0.53	-0.57	-0.56	-0.46	-0.35	0.02	1.30	1.81	1.73	1.75	1.09	24	2.55	-0.62	0.71
4/16/07	1.02	1.51	1.43	1.73	0.82	1.13	0.60	-0.26	-0.59	-0.63	-0.68	-0.70	-0.71	-0.68	-0.68	-0.70	-0.67	-0.61	-0.48	-0.01	0.63	1.02	1.09	0.73	24	1.73	-0.71	0.18
4/17/07	0.76	0.63	1.07	1.31	1.24	0.98	1.44	1.22	-0.63	-0.78	-0.69	-0.75	-0.71	-0.68	-0.72	-0.74	-0.67	-0.60	-0.42	0.02	0.61	2.04	2.06	1.70	24	2.06	-0.78	0.32
4/18/07	2.05	2.05	2.23	2.00	1.98	1.57	1.68	0.53	-0.44	-0.60	-0.62	-0.64	-0.65	-0.63	-0.67	-0.63	-0.61	-0.56	-0.44	0.32	0.72	1.01	0.44	0.32	24	2.23	-0.67	0.43
4/19/07	0.31	0.28	0.42	0.40	0.14	0.06	0.03	-0.35	-0.50	-0.57	-0.60	-0.62	-0.37	-0.28	-0.41	-0.45	-0.33	-0.21	-0.27	0.08	0.45	0.64	0.85	0.12	24	0.85	-0.62	-0.05
4/20/07	-0.10	-0.05	0.07	0.13	0.11	0.66	1.81	2.95			-0.30	-0.34	-0.25					0.06	0.41	-0.06	-0.01	0.17	1.63	1.61	18	2.95	-0.34	0.47
4/21/07	0.79	2.48	3.73	4.10	1.83	1.48	2.09	0.45	-0.56	-0.55	-0.61	-0.65	-0.61	-0.57	-0.61	-0.54	-0.53	-0.47	-0.37	-0.24	-0.29	-0.42	-0.36	-0.36	24	4.10	-0.65	0.38
4/22/07	-0.37	-0.36	-0.31	-0.38	-0.46	-0.33	-0.02	-0.44	-0.47	-0.59	-0.64	-0.65	-0.66	-0.66	-0.64	-0.60	-0.59	-0.54	-0.35	0.14	0.16	0.58	0.72	0.57	24	0.72	-0.66	-0.29
4/23/07	1.31	0.73	0.79	1.66	0.76	0.45	0.79	1.22	-0.10	-0.60	-0.58	-0.59	-0.57	-0.59	-0.60	-0.56	-0.54	-0.53	-0.42	-0.15	0.01	0.16	-0.39	-0.20	24	1.66	-0.60	0.06
4/24/07	0.65	0.63	1.19	0.28	-0.12	-0.13	0.20	0.01	-0.55	-0.61	-0.61	-0.65	-0.65	-0.61	-0.70	-0.62	-0.60	-0.56	-0.44	-0.34	-0.27	0.25	0.21	0.22	24	1.19	-0.70	-0.16
4/25/07	0.38	0.41	0.04	0.23	0.79	0.53	1.21	0.50	0.88	-0.65	-0.69	-0.67	-0.69	-0.69	-0.64	-0.66	-0.65	-0.60	-0.44	-0.36	-0.37	-0.30	-0.12	-0.25	24	1.21	-0.69	-0.12
4/26/07	0.02	0.06	0.00	-0.03	0.00	0.44	0.72	0.87	-0.46	-0.62	-0.58	-0.66	-0.62	-0.57	-0.56	-0.60	-0.59	-0.58	-0.46	-0.28	-0.19	0.35	0.47	0.25	24	0.87	-0.66	-0.15
4/27/07	0.30	0.46	0.30	0.58	0.28	0.02	0.13	-0.48	-0.62	-0.65	-0.68	-0.68	-0.73	-0.70	-0.64	-0.60	-0.60	-0.61	-0.26	0.01	-0.02	0.69	0.89	1.44	24	1.44	-0.73	-0.09
4/28/07	1.36	1.13	1.20	1.11	1.22	1.72	2.17	2.65	0.05	-0.48	-0.58	-0.61	-0.55	-0.59	-0.55	-0.53	-0.55	-0.51	-0.34	0.08	0.58	2.02	2.20	2.99	24	2.99	-0.61	0.63
4/29/07	2.42	2.75	2.34	2.16	1.78	1.32	1.34	0.73	0.09	-0.53	-0.55	-0.65	-0.64	-0.59	-0.58	-0.57	-0.54	-0.57	-0.37	-0.19	0.57	1.54	1.88	1.96	24	2.75	-0.65	0.63
4/30/07	1.70	1.38	0.85	1.10	0.29	0.13	0.28	-0.31	-0.52	-0.60	-0.58	-0.68	-0.63	-0.59	-0.55	-0.54	-0.57	-0.57	-0.41	-0.22	0.13	0.19	0.55	0.76	24	1.70	-0.68	0.02
																									0			
hr max	2.42	2.75	3.73	4.10	2.03	2.55	2.17	2.95	0.88	-0.47	-0.30	-0.34	-0.25	-0.28	-0.41	-0.41	-0.33	0.06	0.41	1.30	1.81	2.04	2.20	2.99				
hr min	-0.50	-0.50	-0.51	-0.50	-0.49	-0.46	-0.48	-0.56	-0.65	-0.78	-0.73	-0.85	-0.95	-0.77	-0.72	-0.74	-0.69	-0.67	-0.67	-0.66	-0.65	-0.62	-0.60	-0.55				
average	0.66	0.67	0.69	0.85	0.61	0.62	0.79	0.48	-0.31	-0.60	-0.60	-0.64	-0.62	-0.60	-0.61	-0.59	-0.58	-0.52	-0.39	-0.12	0.09	0.38	0.53	0.56				

monthly max hr	monthly min hr	monthly ave hr
4.10	-0.95	0.04
4/21/07	4/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	572
possible hours	720
data capture	79.4%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.1	0.1	0.1	0.1	0.1	0.1	0.1		7	0.1	0.1	0.1
4/6/07	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	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
4/7/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/8/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1
4/9/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					0.1	0.1		0.1	0.1	0.1	0.1		18	0.1	0.1	0.1
4/10/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/11/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/12/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/14/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/15/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/16/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/17/07	0.1				0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/18/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/19/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/20/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/21/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/22/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/23/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/24/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/25/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/26/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/27/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/28/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/29/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
4/30/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0		monthly	monthly	monthly
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		max hr	min hr	ave hr
average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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!		0.1	0.1	0.1
																										4/5/07	4/5/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	564
possible hours	720
data capture	78.3%

Max 3 hr ave.	0.1	4/5/07 17:00
Max 24 hr ave.	0.1	4/5/07 13:00

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.7	0.8	0.8	0.8	0.8	0.9	0.9		7	0.9	0.7	0.8
4/6/07	2.5	1.8	1.7	1.9	1.7	1.5		1.3	0.9	0.8	0.8	0.8	0.7	0.7	0.9	0.6	0.7	0.8	0.8	1.0	1.2	1.3	1.0		22	2.5	0.6	1.2
4/7/07	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.7	0.5	0.6	0.9	0.8	0.9		23	0.9	0.4	0.7
4/8/07	0.7	0.6	0.6	0.7	0.7	0.6	0.9	0.9	0.6	0.8	0.7	0.7	0.9			0.8			0.8	0.8	0.8	1.0	0.8		19	1.0	0.6	0.8
4/9/07	0.8	0.7	0.7	0.7	0.7	0.8	0.8	1.0	1.1	1.2	1.3	0.9					1.4	1.6		1.4	1.4	1.4	1.5		18	1.6	0.7	1.1
4/10/07	1.8			2.1	2.3	2.4	2.7	2.8	3.2	4.0	4.1	3.7	3.8	3.9	3.9	3.9	3.8	3.6	3.0	2.8	2.9	2.9	2.7		21	4.1	1.8	3.2
4/11/07	2.2	2.2	2.4	3.0	3.0	2.8	2.4	1.9	2.1	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.2	2.2	2.3	2.3	2.2		23	3.0	1.9	2.2
4/12/07	1.9	2.2	2.3	2.3	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.5	2.2	2.3	2.2	2.3	2.5	2.2	2.1		23	2.5	1.9	2.3
4/13/07	2.7	2.3	2.2	2.0	2.1	2.3	2.2	2.4	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.2	1.9	1.8	2.1	2.8	2.3	2.4	1.9		23	2.8	1.8	2.3
4/14/07	1.7	1.8	1.7	1.8	1.7	1.8	1.8	2.0	2.2	1.9	1.7	1.5	1.3	1.4	2.0	2.4	3.0	3.3	3.6	3.2	2.2	1.8	1.5		23	3.6	1.3	2.1
4/15/07	1.4	1.3	1.5	1.4	1.5	1.3	1.3	1.4	1.7	1.7	1.8	1.8	2.0	2.3	3.3	3.4	4.0	4.6	5.0	4.3	2.8	2.1	1.8		23	5.0	1.3	2.3
4/16/07	1.8	1.8	2.0	2.1	2.2	2.2	2.0	2.0	2.0	1.8	1.6	1.5	1.8	2.0	2.4	2.0	2.3	2.2	2.0	1.9	1.6	1.8	1.8		23	2.4	1.5	1.9
4/17/07	1.4				2.2	1.5	1.7	1.9	1.2	0.8	0.9	1.2	0.9	0.8	0.9	1.3	1.2	1.3	1.4	1.9	1.9	1.7	1.8		20	2.2	0.8	1.4
4/18/07	1.5	1.5	1.6	1.7	1.7	1.8	2.1	2.2	1.8	1.8	2.0	1.8	1.9	2.1	2.5	2.3	2.3	2.2	2.5	2.3	1.8	1.8	1.8		23	2.5	1.5	2.0
4/19/07	1.8	1.7	1.7	1.8	1.8	2.1	2.3	2.6	2.8	2.8	2.7	2.4	2.4	2.3	2.7	2.7	1.9	1.9	2.2	2.4	2.5	2.4	2.2		23	2.8	1.7	2.3
4/20/07	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.9	2.1	2.1	2.0	2.3	2.5	2.6	2.4	2.6	2.8		2.3	2.7	2.7	2.7		22	2.8	1.7	2.2
4/21/07	2.8	2.8	2.7	2.9	3.3	3.1	3.1	3.0	2.7	2.4	2.3	2.5	2.9	3.9	5.1	4.4	2.7	4.1	4.9	4.5	4.0	3.5	3.0		23	5.1	2.3	3.3
4/22/07	2.6	2.6	2.5	2.4	2.3	2.3	2.5	2.5	2.4	2.2	2.2	1.7	1.9	2.3	2.8	2.9	2.9	3.3	3.4	3.8	3.1	2.4	2.3		23	3.8	1.7	2.6
4/23/07	1.9	2.0	2.3	2.1	2.2	2.4	2.9	3.2	2.4	2.0	1.8	1.9	2.0	2.2	2.1	2.0	2.0	2.2	2.5	2.5	2.2	2.0	2.2		23	3.2	1.8	2.2
4/24/07	1.7			1.7	1.8	1.7	2.0	2.6	1.9	1.6	1.3	1.4	1.4	1.3	1.2	1.4	1.6	2.1	2.0	2.9	2.7	4.0	3.4		21	4.0	1.2	2.0
4/25/07	2.4	1.3	1.4	1.6	1.7	1.5	2.1	3.5	2.0	1.5	1.2	1.1	1.4	2.0	2.5	3.4	4.4	4.4	4.6	4.7	4.0	3.2	2.7		23	4.7	1.1	2.5
4/26/07	2.2	2.0	1.9	1.6	1.5	1.5	1.9	2.2	2.0	1.3	1.5	1.8	2.9	3.1	3.9	4.5	5.8	5.9	5.1	6.3	5.0	4.1	3.3		23	6.3	1.3	3.1
4/27/07	2.2	2.0	2.0	1.8	1.8	1.9	2.4	2.2	1.7	1.3	1.3	1.3	1.6	2.0	2.6	3.3	3.5	3.8	4.2	4.6	4.1	2.9	2.4		23	4.6	1.3	2.5
4/28/07	1.9	1.8	1.7	1.7	1.7	1.9	2.8	2.4	1.8	1.2	1.2	1.9	3.0	3.5	2.6	1.9	1.3	1.8	3.0	4.6	5.3	5.7	5.1		23	5.7	1.2	2.6
4/29/07	3.9	3.5	2.8	2.8	3.1	2.3	3.3	2.2	2.7	1.9	1.8	2.7	3.0	2.9	3.0	3.3	2.3	3.0	3.6	4.8	5.1	4.7	3.8		23	5.1	1.8	3.2
4/30/07	2.7	2.1	2.3	2.2	2.2	1.9	2.1	2.1	1.7	1.7	1.8	2.4	3.2	3.6	3.5	4.1	5.8	6.1	7.2	8.1	8.1	6.4	5.0		23	8.1	1.7	3.8
																									0			
hr max	3.9	3.5	2.8	3.0	3.3	3.1	3.3	3.5	3.2	4.0	4.1	3.7	3.8	3.9	5.1	4.5	5.8	6.1	7.2	8.1	8.1	6.4	5.1	0.0				
hr min	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.7	0.5	0.6	0.8	0.8	0.8	0.0				
average	2.0	1.8	1.8	1.9	1.9	1.9	2.1	2.1	1.9	1.8	1.7	1.8	2.0	2.3	2.5	2.5	2.5	2.7	2.9	3.1	2.9	2.6	2.3	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
8.10	0.40	2.23
4/30/07	4/7/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	564
possible hours	720
data capture	78.3%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0.2	0.2	0.2	0.2	0.1	0.3	0.3		7	0.3	0.1	0.2
4/6/07	0.2	0.1	0.2	0.2	0.3	0.2		0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.1	0.3	0.2	0.2	0.2	0.1	0.2	0.1		22	0.3	0.1	0.2
4/7/07	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.3	0.1	0.1		23	0.3	0.1	0.2
4/8/07	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.1	0.2	0.3	0.3	0.3			0.2			0.3	0.2	0.2	0.1	0.2		19	0.3	0.1	0.2
4/9/07	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.3	0.6	0.2					0.3	0.3		0.1	0.1	0.1	0.2		18	0.6	0.1	0.2
4/10/07	0.1			0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2		21	0.4	0.1	0.2
4/11/07	0.2	0.1	0.2	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	0.3	0.2	0.2	0.3	0.2		23	0.3	0.1	0.2
4/12/07	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	0.3	0.2	0.3	0.1	0.2	0.2	0.2	0.2		23	0.3	0.1	0.2
4/13/07	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.2		23	0.3	0.1	0.2
4/14/07	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.7	1.2	1.8	2.1	2.0	1.6	0.4	0.2	0.2		23	2.1	0.1	0.6
4/15/07	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.7	1.6	1.8	2.3	2.6	2.7	2.2	1.0	0.5	0.2		23	2.7	0.1	0.8
4/16/07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.2	0.2	0.4	0.7	1.1	0.9	1.1	1.0	0.7	0.4	0.3	0.2	0.2		23	1.1	0.2	0.4
4/17/07	0.2				0.9	0.1	0.2	0.5	0.3	0.2	0.3	0.6	0.3	0.2	0.2	0.6	0.5	0.6	0.5	0.4	0.2	0.2	0.2		20	0.9	0.1	0.4
4/18/07	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.5	1.0	0.8	0.9	0.7	0.6	0.7	0.1	0.2	0.3		23	1.0	0.1	0.4
4/19/07	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.3	0.2	0.1	0.3	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2		23	0.5	0.1	0.2
4/20/07	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.4	0.3	0.3	0.4	0.5	0.4	0.2	0.2		0.2	0.2	0.1	0.1		22	0.6	0.1	0.3
4/21/07	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.3	0.3	0.2	0.4	0.7	1.4	2.2	1.8	0.3	0.8	1.7	1.7	1.4	0.9	0.7		23	2.2	0.1	0.7
4/22/07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.7	1.2	1.5	1.6	2.0	1.8	1.7	0.9	0.2	0.2		23	2.0	0.2	0.6
4/23/07	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.4	0.3	0.2	0.4	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.3	0.1	0.2	0.1		23	0.7	0.1	0.4
4/24/07	0.2			0.2	0.1	0.2	0.2	0.6	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2		21	0.6	0.1	0.2
4/25/07	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.7	0.4	0.4	0.3	0.2	0.5	0.8	1.3	2.2	3.0	3.1	2.6	2.1	1.3	0.5	0.2		23	3.1	0.1	0.9
4/26/07	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.5	0.7	0.3	0.4	0.9	1.8	2.0	2.8	3.4	4.5	4.6	4.0	3.9	2.7	1.9	1.2		23	4.6	0.1	1.6
4/27/07	0.3	0.2	0.2	0.2	0.2	0.2	0.6	0.6	0.3	0.2	0.2	0.2	0.7	1.1	1.7	2.3	2.6	3.0	3.1	2.8	2.1	1.3	0.6		23	3.1	0.2	1.1
4/28/07	0.2	0.2	0.2	0.1	0.2	0.2	0.6	0.8	0.5	0.2	0.5	1.2	2.2	2.7	1.8	1.3	0.4	0.5	1.6	2.7	3.1	2.7	2.2		23	3.1	0.1	1.1
4/29/07	1.4	0.7	0.2	0.2	0.2	0.2	0.5	0.5	0.6	0.5	0.9	1.7	2.0	1.9	2.0	1.7	1.2	2.0	2.5	2.5	2.6	2.1	1.5		23	2.6	0.2	1.3
4/30/07	0.5	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.5	1.1	1.8	2.4	2.2	2.8	4.3	4.5	5.4	5.5	4.8	3.8	2.9		23	5.5	0.1	1.9
																									0			

hr max	1.4	0.7	0.3	0.3	0.9	0.2	0.6	0.8	0.7	0.6	0.9	1.7	2.2	2.7	2.8	3.4	4.5	4.6	5.4	5.5	4.8	3.8	2.9	0.0
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0
average	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.4	0.6	0.8	1.0	1.1	1.1	1.2	1.3	1.2	0.9	0.7	0.5	#DIV/0!

monthly max hr	monthly min hr	monthly ave hr
5.5	0.1	0.6
4/30/07	4/5/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	564
possible hours	720
data capture	78.3%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																								
4/2/07																								
4/3/07																								
4/4/07																								
4/5/07																	0.8	0.9	0.7	0.8	0.8	1.0	1.0	
4/6/07	2.7	1.8	1.7	1.9	1.9	1.6		1.1	0.9	0.8	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.9	1.2	1.2	1.3	1.2	
4/7/07	0.8	0.7	0.9	1.0	0.7	0.6	1.0	0.7	0.6	0.7	0.6	0.6	0.5	0.6	0.7	0.7	0.7	0.6	0.7	0.9	1.0	1.1	0.8	
4/8/07	0.7	0.8	0.8	0.7	0.7	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8			0.9			0.8	0.9	1.0	1.2	1.0	
4/9/07	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.2	1.1	0.8	1.0					1.5	1.5		1.7	1.7	1.6	1.8	
4/10/07	2.1			2.2	2.4	2.6	2.8	3.0	3.3	3.7	3.9	3.7	3.7	3.7	3.8	3.7	3.8	3.6	3.1	3.0	3.1	3.2	3.0	
4/11/07	2.3	2.3	2.6	3.1	3.2	3.0	2.4	2.1	2.0	1.9	1.9	2.0	2.0	2.1	2.0	2.1	2.1	2.2	2.3	2.2	2.3	2.5	2.3	
4/12/07	2.2	2.3	2.3	2.3	2.6	2.6	2.6	2.3	2.3	2.5	2.3	2.3	2.3	2.4	2.5	2.4	2.3	2.3	2.3	2.3	2.5	2.3	2.3	
4/13/07	2.8	2.5	2.4	2.1	2.2	2.2	2.3	2.4	2.6	2.7	2.5	2.4	2.4	2.3	2.3	2.2	2.1	2.0	2.3	3.0	2.6	2.6	2.0	
4/14/07	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.9	2.0	1.9	1.7	1.6	1.4	1.4	1.5	1.5	1.5	1.6	1.8	1.9	2.0	1.8	1.6	
4/15/07	1.5	1.4	1.5	1.5	1.5	1.4	1.3	1.5	1.5	1.7	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.4	2.2	2.0	1.9	1.8	
4/16/07	1.8	1.8	2.0	2.2	2.3	2.3	2.0	1.9	1.8	1.7	1.5	1.4	1.5	1.6	1.5	1.5	1.3	1.4	1.3	1.8	1.7	1.8	1.8	
4/17/07	1.5				1.5	1.4	1.6	1.6	1.1	0.8	0.7	0.8	0.8	0.8	0.8	1.0	0.9	0.9	1.1	1.7	1.9	1.8	1.8	
4/18/07	1.6	1.4	1.6	1.8	1.8	1.8	2.0	1.8	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.6	1.6	1.7	1.9	1.8	1.8	1.9	1.9	
4/19/07	1.8	1.8	1.9	1.8	1.9	2.1	2.3	2.6	2.4	2.6	2.5	2.3	2.4	2.3	2.5	2.6	1.8	1.7	2.1	2.5	2.5	2.4	2.3	
4/20/07	1.8	1.7	1.8	1.8	1.7	1.7	1.6	1.7	1.8	1.7	1.7	1.8	2.2	2.4	2.3	2.2	2.7	2.8		2.5	2.7	2.8	2.8	
4/21/07	2.8	2.9	2.8	2.9	3.2	3.1	3.1	2.8	2.4	2.3	2.3	2.4	2.4	2.7	3.0	2.9	2.5	3.5	3.4	2.9	2.7	2.7	2.5	
4/22/07	2.6	2.6	2.5	2.4	2.3	2.3	2.5	2.3	2.3	2.0	2.0	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	2.4	2.5	2.4	2.3	
4/23/07	1.9	2.0	2.2	2.1	2.2	2.3	2.6	2.7	2.1	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.7	2.2	2.3	2.2	2.0	2.2	
4/24/07	1.6			1.6	1.6	1.8	1.9	2.3	1.7	1.4	1.3	1.3	1.2	1.1	1.2	1.3	1.5	1.8	2.0	2.9	2.7	4.0	3.4	
4/25/07	2.4	1.4	1.4	1.6	1.7	1.4	2.0	3.0	1.8	1.4	1.1	1.1	1.2	1.2	1.3	1.4	1.6	1.7	2.1	2.7	2.9	2.8	2.6	
4/26/07	2.0	1.9	2.0	1.6	1.5	1.5	1.7	1.9	1.6	1.3	1.2	1.3	1.2	1.3	1.3	1.4	1.4	1.3	1.3	2.6	2.4	2.5	2.2	
4/27/07	2.0	2.0	1.9	1.7	1.8	1.8	2.1	1.7	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.4	2.0	2.2	1.9	1.9	
4/28/07	1.8	1.8	1.8	1.7	1.6	1.9	2.4	1.8	1.5	1.0	0.9	0.9	0.9	1.0	1.0	0.9	0.9	1.5	1.6	2.3	2.4	3.3	3.2	
4/29/07	2.9	3.0	2.7	2.8	3.1	2.3	3.0	1.9	2.3	1.6	1.2	1.2	1.1	1.2	1.3	1.8	1.3	1.1	1.3	2.4	2.7	2.7	2.5	
4/30/07	2.3	2.0	2.2	2.1	2.1	1.8	2.0	1.9	1.5	1.4	1.6	1.6	1.6	1.5	1.5	1.5	1.6	1.7	1.7	2.5	3.2	2.9	2.3	
hr max	2.9	3.0	2.8	3.1	3.2	3.1	3.1	3.0	3.3	3.7	3.9	3.7	3.7	3.7	3.8	3.7	3.8	3.6	3.4	3.0	3.2	4.0	3.4	0.0
hr min	0.7	0.7	0.8	0.7	0.7	0.6	0.8	0.7	0.6	0.7	0.6	0.6	0.5	0.6	0.7	0.7	0.7	0.6	0.7	0.8	0.8	1.0	0.8	0.0
average	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.8	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.6	1.7	1.8	2.1	2.2	2.2	2.1	#DIV/0!

valid hr count	daily max hr	daily min hr	daily ave hr
0			
0			
0			
0			
7	1.0	0.7	0.9
22	2.7	0.7	1.2
23	1.1	0.5	0.7
19	1.2	0.7	0.8
18	1.8	0.8	1.1
21	3.9	2.1	3.2
23	3.2	1.9	2.3
23	2.6	2.2	2.4
23	3.0	2.0	2.4
23	2.0	1.4	1.7
23	2.4	1.3	1.8
23	2.3	1.3	1.7
20	1.9	0.7	1.2
23	2.0	1.4	1.7
23	2.6	1.7	2.2
22	2.8	1.6	2.1
23	3.5	2.3	2.8
23	2.6	1.6	2.1
23	2.7	1.6	2.0
21	4.0	1.1	1.9
23	3.0	1.1	1.8
23	2.6	1.2	1.7
23	2.2	1.1	1.6
23	3.3	0.9	1.7
23	3.1	1.1	2.1
23	3.2	1.4	1.9
0			

monthly max hr	monthly min hr	monthly ave hr
4.0	0.5	1.8
4/24/07	4/7/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	564
possible hours	720
data capture	78.3%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	40.3	40.7	39.3	37.5	35.7	34.0	34.5		7	40.7	34.0	37.4
4/6/07	32.7	33.1	31.7	29.7	28.9	29.7		30.8	33.3	37.2	39.0	40.3	39.9	39.2	39.2	39.9	40.0	39.4	39.3	37.5	34.9	32.9	32.4		22	40.3	28.9	35.5
4/7/07	31.5	31.4	31.2	30.3	28.7	28.6	28.3	30.2	33.1	35.7	37.9	38.9	39.7	41.1	41.2	41.3	41.3	40.9	38.3	33.9	30.8	29.9	31.0	31.5	24	41.3	28.3	34.4
4/8/07	30.4	30.0	28.3	26.6	26.6	26.1	24.4	28.3	30.5	35.4	40.0	41.7	43.2			44.6	57.9		42.7	37.0	36.7	36.1	35.5	32.3	21	57.9	24.4	35.0
4/9/07	32.7	34.1	34.0	33.2	33.2	31.1	30.4	31.2	32.9	33.1	33.8	34.4	43.2				37.7	37.7		32.6	28.8	28.5	26.3		19	43.2	26.3	33.1
4/10/07	21.9		38.0	21.1	19.0	18.9	22.0	21.7	21.9	22.1	22.4	22.6	22.7	23.0	23.7	23.6	24.9	28.0	30.9	30.9	30.7	29.6	29.9		22	38.0	18.9	25.0
4/11/07	32.6	33.3	33.0	32.8	32.9	33.0	35.6	37.1	37.7	38.7	39.3	40.4	42.0	43.0	44.1	44.6	44.4	44.3	44.8	43.7	43.2	41.9	41.9		23	44.8	32.6	39.3
4/12/07	38.0	38.5	39.8	40.6	38.1	35.3	32.3	42.0	43.0	47.4	49.4	49.3	48.9	49.2	48.3	48.0	48.5	48.5	47.9	38.7	34.8	35.4	40.0		23	49.4	32.3	42.7
4/13/07	46.6	37.9	33.6	31.5	28.8	29.0	28.0	32.8	37.0	41.4	39.5	40.2	39.3	38.5	39.4	38.7	39.5	39.9	38.1	35.0	37.2	34.2	39.3		23	46.6	28.0	36.8
4/14/07	25.7	25.2	24.4	24.5	25.1	25.8	25.5	26.8	32.6	38.9	42.0	43.3	44.2	44.7	45.6	46.0	46.3	46.3	44.3	37.9	31.0	30.8	30.9		23	46.3	24.4	35.1
4/15/07	29.6	30.6	27.3	25.4	24.4	24.6	25.0	27.8	31.4	33.7	38.0	44.0	48.4	50.7	50.6	50.7	50.5	47.6	39.9	37.9	35.9	36.4	34.8		23	50.7	24.4	36.7
4/16/07	29.0	30.0	28.6	27.6	21.5	18.9	19.3	18.6	22.6	28.7	35.6	37.8	39.0	39.4	41.2	43.7	43.6	43.2	42.8	38.0	33.4	29.5	28.6		23	43.7	18.6	32.2
4/17/07	31.4				30.2	31.0	29.3	28.8	36.7	39.4	40.2	41.4	42.6	43.7	43.8	44.4	46.4	46.3	41.9	31.7	29.2	30.3	27.7		20	46.4	27.7	36.8
4/18/07	31.4	33.4	30.2	27.8	27.6	26.1	25.8	29.6	34.4	37.0	41.6	47.5	47.4	47.9	49.5	49.9	48.7	50.3	48.8	41.6	38.5	38.5	40.0		23	50.3	25.8	38.8
4/19/07	39.8	35.5	33.1	33.5	32.2	30.5	28.5	31.7	33.9	41.2	46.9	48.7	43.9	40.8	37.0	39.8	47.6	46.9	41.6	33.4	29.2	27.7	24.9		23	48.7	24.9	36.9
4/20/07	21.9	18.1	17.8	16.7	21.8	23.7	25.3	25.9	30.0	32.4	40.6	47.4	47.6	34.2	30.4	32.3	25.6	30.3		37.6	30.5	26.4	24.6		22	47.6	16.7	29.1
4/21/07	26.2	27.1	26.5	22.3	25.6	21.2	17.9	18.9	28.6	32.0	36.0	39.4	45.4	46.0	45.5	46.5	45.3	37.0	32.2	32.3	26.8	25.8	30.1		23	46.5	17.9	31.9
4/22/07	19.2	18.0	21.3	22.6	30.1	27.8	24.2	24.5	29.1	35.3	36.5	43.6	43.6	46.8	46.9	47.5	47.1	47.8	44.7	36.3	31.8	31.4	29.8		23	47.8	18.0	34.2
4/23/07	29.3	27.0	24.6	27.2	28.1	25.8	20.3	23.9	30.1	35.0	42.6	42.5	42.4	42.4	42.4	42.0	43.8	40.1	35.4	31.2	30.4	32.9	25.8		23	43.8	20.3	33.3
4/24/07	21.5		39.7	21.8	18.7	22.1	21.8	26.0	31.5	35.4	37.9	40.5	43.7	43.9	44.8	46.4	48.0	47.1	42.7	34.1	34.7	31.3	28.5		22	48.0	18.7	34.6
4/25/07	35.9	40.2	38.7	35.0	27.3	28.3	25.8	26.1	31.4	39.8	44.4	46.0	46.2	47.6	48.1	48.5	47.3	45.3	36.1	30.0	28.5	28.0	28.0		23	48.5	25.8	37.1
4/26/07	26.8	28.1	29.6	29.2	29.4	31.2	29.3	29.7	38.7	45.1	46.4	49.4	50.0	51.1	52.5	53.5	53.5	53.9	49.4	40.4	32.3	30.9	29.0		23	53.9	26.8	39.5
4/27/07	24.6	25.1	24.5	25.4	22.8	17.3	18.1	23.0	31.9	34.9	38.7	40.4	43.8	45.1	45.9	45.2	44.6	44.4	39.3	31.8	30.2	30.3	26.0		23	45.9	17.3	32.8
4/28/07	25.5	25.3	20.4	22.2	26.3	22.2	18.2	21.4	28.8	37.0	40.2	41.6	42.2	43.5	46.9	49.6	50.4	48.7	45.2	34.8	31.5	26.7	25.7		23	50.4	18.2	33.7
4/29/07	26.7	25.9	24.4	22.2	20.9	26.9	28.1	32.5	33.2	41.8	44.1	44.5	46.7	47.9	50.6	55.4	54.0	51.7	48.4	35.9	32.3	32.5	34.6		23	55.4	20.9	37.4
4/30/07	39.1	39.0	33.3	31.4	30.1	34.6	40.4	44.1	44.9	44.9	46.4	48.1	50.0	51.8	53.7	52.9	52.4	52.4	48.9	43.6	39.0	39.0	36.3		23	53.7	30.1	43.3
																									0			
hr max	46.6	40.2	39.8	40.6	38.1	35.3	40.4	44.1	44.9	47.4	49.4	49.4	50.0	51.8	53.7	55.4	57.9	53.9	49.4	43.7	43.2	41.9	41.9	32.3				
hr min	19.2	18.0	17.8	16.7	18.7	17.3	17.9	18.6	21.9	22.1	22.4	22.6	22.7	23.0	23.7	23.6	24.9	28.0	30.9	30.0	26.8	25.8	24.6	31.5				
average	30.0	30.3	29.8	27.5	27.1	26.8	26.0	28.5	32.8	36.9	40.0	42.2	43.4	43.5	44.0	44.6	45.0	43.9	41.8	36.0	33.0	32.0	31.4	31.9				

monthly max hr	monthly min hr	monthly ave hr
57.9	16.7	35.5
4/8/07	4/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	570
possible hours	720
data capture	79.2%

Max 8 hr ave. 51.7 4/26/07 12:00

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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 hr count	daily max hr	daily 24 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				
4/1/07																									0		0	0
4/2/07																									0		0	0
4/3/07																									0		0	0
4/4/07																									0		0	0
4/5/07																	158	158	48	0	0	0	0	0	8	158	364	364
4/6/07	0	0	0	0	0	0	32	187	372	548	688	752	775	784	526	462	237	206	63	0	0	0	0	0	24	784	5632	5632
4/7/07	0	0	0	0	0	0	38	196	380	552	692	785	826	813	744	626	467	285	103	4	0	0	0	0	24	826	6511	6511
4/8/07	0	0	0	0	0	0	43	202	387	561	706	776	800	825			488	328	101	0	0	0	0	0	22	825	5217	5217
4/9/07	0	0	0	0	0	0	41	155	216	293	601	682	758			352	226	104	41	0	0	0	0	0	22	758	3469	3469
4/10/07	0	0	0	0	0	0	0	11	68	91	61	66	81	90	77	75	31	19	8	0	0	0	0	0	24	91	677	677
4/11/07	0	0	0	0	0	0	25	90	171	221	245	284	237	230	240	186	112	58	17	0	0	0	0	0	24	284	2116	2116
4/12/07	0	0	0	0	0	0	24	103	227	355	259	172	268	315	473	257	266	242	111	5	0	0	0	0	24	473	3078	3078
4/13/07	0	0	0	0	0	0	69	246	416	577	536	467	537	310	287	312	500	318	116	7	0	0	0	0	24	577	4699	4699
4/14/07	0	0	0	0	0	0	62	235	425	601	738	824	861	845	773	655	498	316	125	8	0	0	0	0	24	861	6966	6966
4/15/07	0	0	0	0	0	0	63	238	431	600	736	816	855	824	766	634	359	185	66	4	0	0	0	0	24	855	6575	6575
4/16/07	0	0	0	0	0	0	50	155	311	549	741	799	769	837	722	635	484	307	122	9	0	0	0	0	24	837	6490	6490
4/17/07	0	0	0	0	0	0	82	261	448	623	763	848	880	863	789	667	512	327	132	10	0	0	0	0	24	880	7205	7205
4/18/07	0	0	0	0	0	0	69	245	437	598	735	808	852	824	763	656	507	313	132	6	0	0	0	0	24	852	6947	6947
4/19/07	0	0	0	0	0	0	69	172	314	421	437	361	46	103	27	27	66	222	131	9	0	0	0	0	24	437	2406	2406
4/20/07	0	0	0	0	0	0	75	242	422	591	736	794	430	128	297	198	11	75	51	7	0	0	0	0	24	794	4057	4057
4/21/07	0	0	0	0	0	9	130	341	442	647	759	713	577	492	242	146	47	65	0	0	0	0	0	0	24	759	4610	4610
4/22/07	0	0	0	0	0	0	33	136	303	504	660	640	661	758	686	633	514	326	131	17	0	0	0	0	24	758	6002	6002
4/23/07	0	0	0	0	0	5	63	238	424	590	495	338	212	302	505	225	155	82	25	0	0	0	0	0	24	590	3657	3657
4/24/07	0	0	0	0	0	0	35	199	317	414	389	595	511	580	540	434	327	178	103	20	0	0	0	0	24	595	4642	4642
4/25/07	0	0	0	0	0	0	58	154	272	415	542	499	623	859	787	502	431	255	74	15	0	0	0	0	24	859	5486	5486
4/26/07	0	0	0	0	0	9	99	160	416	545	633	786	752	761	804	668	520	342	126	8	0	0	0	0	24	804	6626	6626
4/27/07	0	0	0	0	0	5	105	280	463	635	697	828	876	800	573	436	379	343	123	21	0	0	0	0	24	876	6562	6562
4/28/07	0	0	0	0	0	8	107	285	463	628	760	835	870	851	782	667	513	332	151	19	0	0	0	0	24	870	7270	7270
4/29/07	0	0	0	0	0	8	99	158	352	621	740	796	823	750	707	656	520	327	158	21	0	0	0	0	24	823	6735	6735
4/30/07	0	0	0	0	0	4	61	237	281	546	731	795	839	839	664	475	478	331	149	22	0	0	0	0	24	839	6452	6452
																									0		0	0
hr max	0	0	0	0	0	9	130	341	463	647	763	848	880	863	804	668	520	343	158	22	0	0	0	0				
hr min	0	0	0	0	0	0	0	11	68	91	61	66	46	90	27	27	11	19	0	0	0	0	0	0				
average	0	0	0	0	0	2	61	197	350	509	603	642	629	616	555	441	339	232	93	8	0	0	0	0				

monthly max hr	monthly Max24hr	monthly Total
880	7270	130450
4/17/07	4/28/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Haselman Date: 8/2/07

valid hours	604
possible hours	720
data capture	83.9%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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
4/1/07																								
4/2/07																								
4/3/07																								
4/4/07																								
4/5/07																	718	718	718	718	718	718	718	718
4/6/07	718	718	719	719	719	719		720	720	720	720	719	719	719	719	718	718	718	718	718	718	718	717	717
4/7/07	717	717	717	716	716	716	716	716	716	716	716	715	715	715	714	714	713	713	713	713	713	713	712	712
4/8/07	712	712	712	712	711	711	712	711	711	711	711	711	710			708	708		708	708	708	708	708	707
4/9/07	707	707	706	706	706	705	705	706	705	705	705	704	703			702	702	702	702	702	702	702	702	702
4/10/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702
4/11/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702
4/12/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702
4/13/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702
4/14/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702
4/15/07	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	703
4/16/07	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703
4/17/07	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703
4/18/07	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	701
4/19/07	700	700	700	700	700	700	700	700	700	700	700	700	699	699	701	701	701	701	701	701	702	702	703	704
4/20/07	704	705	705	705	705	705	706	705	705	705	705	705	704	704	704	703	702	702	702	701	702	702	701	701
4/21/07	701	701	701	701	700	700	701	701	701	701	700	701	700	700	700	700	699	700	699	699	699	700	700	700
4/22/07	701	701	701	701	701	701	702	703	702	702	702	702	702	702	702	702	702	702	703	703	704	704	704	705
4/23/07	705	706	706	706	707	707	708	708	709	709	709	709	709	709	709	709	709	709	709	709	710	710	711	710
4/24/07	710	710	709	709	710	710	710	710	710	710	710	710	710	709	710	709	709	709	708	709	709	710	710	710
4/25/07	709	709	709	709	709	709	709	709	709	710	709	709	709	708	708	707	707	707	706	706	706	706	706	705
4/26/07	705	705	704	704	704	704	704	704	704	703	703	703	703	702	702	702	701	701	701	701	702	703	703	703
4/27/07	703	703	703	703	704	704	704	705	705	705	705	705	705	705	705	705	705	705	705	706	706	707	707	707
4/28/07	707	707	707	707	708	708	708	708	708	708	708	707	707	707	706	706	705	705	705	704	704	704	704	704
4/29/07	704	704	704	704	704	704	704	705	705	706	706	706	706	706	706	706	706	705	705	705	705	705	705	705
4/30/07	704	703	704	703	704	703	701	701	701	701	702	702	702	702	702	702	702	702	703	704	705	705	706	706
hr max	718	718	719	719	719	719	716	720	720	720	720	719	719	719	719	718	718	718	718	718	718	718	718	718
hr min	700	700	700	700	700	700	700	700	700	700	700	700	699	699	700	700	699	700	699	699	699	700	700	700
average	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705

valid hr count	daily max hr	daily min hr	daily ave hr
0			
0			
0			
0			
8	718	718	718
23	720	717	719
24	717	712	715
21	712	707	710
22	707	702	704
24	702	702	702
24	702	702	702
24	702	702	702
24	702	702	702
24	702	702	702
24	703	702	702
24	703	703	703
24	703	703	703
24	703	701	703
24	704	699	701
24	706	701	704
24	701	699	700
24	705	701	702
24	711	705	708
24	710	708	710
24	710	705	708
24	705	701	703
24	707	703	705
24	708	704	706
24	706	704	705
24	706	701	703
0			

monthly max hr	monthly min hr	monthly ave hr
720	699.0	705.0
4/6/07	4/19/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	602
possible hours	720
data capture	83.6%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
%
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 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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	65.0	67.0	69.8	73.6	77.5	80.0	78.4	78.9	8	80.0	65.0	73.8
4/6/07	77.9	80.7	81.1	82.2	82.3	78.9		74.0	68.2	60.3	60.7	61.1	61.4	62.4	61.4	61.4	63.5	70.0	69.4	76.5	79.7	82.4	80.6	80.0	23	82.4	60.3	72.0
4/7/07	77.7	76.7	75.7	77.1	80.1	80.3	77.5	72.1	68.4	62.8	57.3	57.2	54.8	52.0	50.5	50.0	49.6	50.4	55.9	70.7	77.8	76.8	74.3	73.1	24	80.3	49.6	66.6
4/8/07	74.9	77.2	82.8	85.7	88.0	88.4	87.4	76.8	65.8	49.9	37.9	34.9	34.9			39.9	42.9		48.7	65.1	73.4	76.4	79.2	81.6	21	88.4	34.9	66.3
4/9/07	79.5	76.1	74.3	74.7	75.7	79.1	80.1	75.2	66.3	58.4	52.4	51.8	52.8			44.0	43.0	45.0	48.0	53.0	56.0	62.0	68.0	76.0	22	80.1	43.0	63.2
4/10/07	85.0	89.0	88.0	89.0	92.0	96.0	97.0	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	98.0	98.0	98.0	97.0	97.0	97.0	97.0	98.0	98.0	24	99.0	85.0	96.0
4/11/07	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	97.0	95.0	94.0	91.0	89.0	88.0	88.0	90.0	89.0	90.0	91.0	91.0	91.0	93.0	94.0	96.0	24	98.0	88.0	93.8
4/12/07	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	93.0	85.0	79.0	77.0	72.0	75.0	78.0	75.0	72.0	63.0	61.0	62.0	76.0	80.0	79.0	24	98.0	61.0	83.5
4/13/07	78.0	76.0	79.0	84.0	84.0	89.0	90.0	91.0	89.0	80.0	64.0	62.0	69.0	62.0	62.0	57.0	50.0	54.0	48.0	44.0	43.0	58.0	56.0	49.0	24	91.0	43.0	67.4
4/14/07	50.0	47.0	72.0	87.0	82.0	84.0	85.0	88.0	77.0	77.0	60.0	48.0	37.0	32.0	27.0	25.0	26.0	23.0	22.0	19.0	20.0	30.0	41.0	48.0	24	88.0	19.0	50.3
4/15/07	54.0	59.0	57.0	58.0	65.0	69.0	72.0	76.0	71.0	58.0	50.0	44.0	36.0	24.0	22.0	21.0	21.0	20.0	21.0	23.0	28.0	36.0	47.0	50.0	24	76.0	20.0	45.1
4/16/07	54.0	58.0	58.0	58.0	64.0	67.0	76.0	78.0	82.0	80.0	71.0	57.0	51.0	50.0	47.0	44.0	36.0	32.0	35.0	36.0	40.0	42.0	54.0	65.0	24	82.0	32.0	55.6
4/17/07	68.0	69.0	73.0	75.0	75.0	75.0	79.0	79.0	70.0	65.0	46.0	41.0	32.0	27.0	22.0	21.0	20.0	22.0	21.0	21.0	23.0	31.0	48.0	57.0	24	79.0	20.0	48.3
4/18/07	62.0	65.0	65.0	65.0	66.0	71.0	76.0	78.0	68.0	62.0	56.0	49.0	44.0	41.0	38.0	36.0	31.0	29.0	28.0	24.0	24.0	31.0	43.0	55.0	24	78.0	24.0	50.3
4/19/07	59.0	58.0	59.0	62.0	66.0	65.0	65.0	68.0	67.0	62.0	55.0	49.0	46.0	43.0	93.1	92.4	92.7	89.2	85.2	90.7	92.7	93.0	92.5	86.2	24	93.1	43.0	72.2
4/20/07	89.1	92.9	93.5	94.7	88.8	85.2	81.8	75.5	78.8	75.8	60.7	47.3	51.5	89.8	89.7	83.5	88.6	94.2	92.5	95.6	95.4	96.8	98.0	98.7	24	98.7	47.3	84.9
4/21/07	98.9	99.0	99.1	99.1	99.1	97.9	98.7	98.6	94.8	89.5	82.3	72.4	60.7	60.5	61.0	62.8	65.2	72.6	77.7	85.8	90.5	90.0	90.6	95.0	24	99.1	60.5	85.1
4/22/07	96.4	97.6	97.0	96.1	95.3	95.5	93.9	88.3	80.4	66.8	57.1	33.1	33.7	29.3	28.8	27.4	26.5	25.5	30.3	45.4	57.7	59.1	64.2	65.9	24	97.6	25.5	62.1
4/23/07	68.9	72.9	76.6	75.1	74.6	75.4	81.0	68.8	61.1	52.4	41.3	41.6	43.2	43.6	40.9	43.2	42.6	48.7	58.5	65.4	72.2	78.0	82.3	88.0	24	88.0	40.9	62.3
4/24/07	90.5	90.8	88.9	86.9	90.6	88.0	87.9	79.8	65.9	54.0	47.4	40.9	34.9	33.2	32.2	31.7	32.0	33.9	39.7	52.6	60.4	63.5	69.3	74.0	24	90.8	31.7	61.2
4/25/07	59.7	54.1	60.8	70.8	77.2	76.2	76.1	71.4	59.5	41.9	29.2	27.5	28.1	28.8	30.0	30.2	30.7	32.5	43.5	54.7	64.9	68.1	67.4	68.2	24	77.2	27.5	52.1
4/26/07	69.6	71.1	68.7	68.0	68.1	65.5	64.3	59.6	44.0	29.8	27.9	27.3	27.7	27.4	25.1	24.2	23.8	21.6	25.3	42.6	64.3	73.8	80.2	85.1	24	85.1	21.6	49.4
4/27/07	84.4	84.2	85.7	87.0	89.8	91.2	88.1	80.2	65.7	54.4	45.6	41.9	34.1	29.0	26.1	25.8	23.9	22.8	28.1	37.7	45.5	48.7	56.1	55.8	24	91.2	22.8	55.5
4/28/07	60.5	60.9	69.0	68.4	60.2	65.1	70.0	59.5	44.1	32.1	27.2	24.7	24.2	24.0	20.4	18.7	19.1	19.8	22.7	34.9	44.3	52.7	55.5	56.1	24	70.0	18.7	43.1
4/29/07	61.5	62.8	66.5	71.1	73.7	72.1	60.6	49.4	43.8	30.5	29.0	28.0	26.2	25.6	25.0	24.5	24.0	24.6	28.6	46.9	59.1	62.1	59.4	56.1	24	73.7	24.0	46.3
4/30/07	57.5	56.5	65.4	67.8	67.3	59.1	49.3	38.5	34.1	32.4	32.1	32.7	31.9	30.1	29.2	28.8	29.3	31.8	35.8	47.5	56.4	43.7	44.9	48.5	24	67.8	28.8	43.8
																									0			
hr max	98.9	99.0	99.1	99.1	99.1	98.0	98.7	98.6	98.0	99.0	99.0	99.0	99.0	99.0	99.0	98.0	98.0	98.0	97.0	97.0	97.0	97.0	98.0	98.7				
hr min	50.0	47.0	57.0	58.0	60.2	59.1	49.3	38.5	34.1	29.8	27.2	24.7	24.2	24.0	20.4	18.7	19.1	19.8	21.0	19.0	20.0	30.0	41.0	48.0				
average	74.0	74.8	77.2	79.1	80.0	80.4	80.5	76.8	70.3	62.5	54.7	49.7	47.2	46.7	47.5	46.3	46.5	47.6	49.5	56.0	61.4	65.4	69.3	71.7				

monthly max hr	monthly min hr	monthly ave hr
99.1	18.7	63.2
4/21/07	4/28/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	602
possible hours	720
data capture	83.6%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	0	0	0	0	0	0	0	0	8	0.00		0.00
4/6/07	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
4/7/07	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
4/8/07	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0		0	0	0	0	0	0	23	0.01		0.01
4/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0.02	0	0.18	0	0	0	0	23	0.18		0.20
4/10/07	0	0	0.01	0	0.01	0.01	0.01	0	0.03	0.01	0.01	0	0	0.01	0.02	0.01	0	0	0	0	0	0	0	0.01	24	0.03		0.14
4/11/07	0	0	0	0	0	0	0	0	0	0.01	0	0.04	0.01	0.01	0	0	0	0	0	0	0	0	0	0	24	0.04		0.07
4/12/07	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
4/13/07	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
4/14/07	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
4/15/07	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
4/16/07	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
4/17/07	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
4/18/07	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
4/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.05	0.01	0.08	0.05	0	0	0	0	0	0	0	24	0.08		0.20
4/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02	0	0	0.07	0.42	0.01	0.11	0	0	0	0	24	0.42		0.66
4/21/07	0	0	0	0	0	0	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.02
4/22/07	0.06	0.01	0	0	0	0	0	0	0	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	0	0	24	0.06		0.09
4/23/07	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0.01	24	0.01		0.04
4/24/07	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
4/25/07	0	0	0	0	0	0	0	0	0.01	0.01	0	0.09	0	0	0	0	0	0	0	0	0	0	0	0	24	0.09		0.11
4/26/07	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
4/27/07	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
4/28/07	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
4/29/07	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
4/30/07	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	0.06	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.09	0.03	0.05	0.02	0.08	0.07	0.42	0.01	0.18	0.00	0.00	0.00	0.01	monthly max hr	monthly 24h max		monthly TOTAL
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	0.42	0.66		1.56
total	0.06	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.04	0.04	0.02	0.16	0.05	0.09	0.05	0.10	0.13	0.44	0.01	0.29	0.00	0.00	0.00	0.02	4/20/07	4/20/07		

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	606
possible hours	720
data capture	84.2%

Basin Electric - Gettysburg S.D. Monitoring Program
April-07
Stn Temp
(deg C)

data channel 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	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				
4/1/07																									0			
4/2/07																									0			
4/3/07																									0			
4/4/07																									0			
4/5/07																	22	22	22	22	22	21	21	21	8	22	21	22
4/6/07	21	20	20	20	20	20		20	20	21	21	21	21	22	22	22	22	22	22	21	21	21	20	21	23	22	20	21
4/7/07	20	20	20	20	20	19	19	19	20	20	20	21	21	21	22	22	22	22	22	22	21	21	21	21	24	22	19	21
4/8/07	21	21	20	20	20	20	20	20	21	21	22	22	23			26			23	21	23	24	25	25	20	26	20	22
4/9/07	25	25	25	25	25	25	25	25	25	25	20	20	23			27	27	23	26	26	26	26	26	26	22	27	20	25
4/10/07	23	23	24	23	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	22	23
4/11/07	23	23	23	23	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	23	22	23
4/12/07	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	23	23	23	24	24	23	23
4/13/07	23	23	23	22	22	22	22	23	23	24	24	24	24	25	25	25	25	25	25	25	25	24	24	24	24	25	22	24
4/14/07	24	23	23	23	23	23	23	23	24	24	25	25	25	26	26	27	28	28	29	28	27	26	25	25	24	29	23	25
4/15/07	24	24	24	24	23	23	23	23	24	24	25	25	26	26	27	28	29	29	30	29	28	27	26	26	24	30	23	26
4/16/07	26	25	25	25	25	24	24	24	25	25	25	25	26	26	27	27	27	27	27	26	26	25	25	25	24	27	24	25
4/17/07	24	24	25	22	22	23	23	23	24	24	25	25	26	26	26	26	27	27	27	27	26	25	25	25	24	27	22	25
4/18/07	24	24	24	24	24	23	23	24	24	24	25	25	26	26	27	27	27	27	28	27	27	26	25	25	24	28	23	25
4/19/07	25	25	24	24	24	24	24	24	24	25	25	25	25	25	24	25	25	25	25	25	24	24	24	25	24	25	24	24
4/20/07	24	24	24	24	24	23	24	24	25	24	24	25	27	27	24	24	25	27	28	27	27	26	26	26	24	28	23	25
4/21/07	26	25	25	25	25	25	25	25	25	25	26	26	27	28	29	29	27	28	29	29	28	28	27	27	24	29	25	27
4/22/07	26	26	26	26	25	25	25	25	25	25	26	26	26	27	28	28	28	29	29	29	28	27	26	26	24	29	25	26
4/23/07	25	25	25	24	24	24	24	24	25	25	26	26	27	27	27	27	27	27	27	27	26	26	25	26	24	27	24	26
4/24/07	25	25	26	25	25	25	25	25	25	25	25	25	26	26	26	26	27	27	26	26	26	25	25	25	24	27	25	25
4/25/07	25	25	25	24	24	24	24	24	24	25	25	26	26	27	28	29	30	30	30	29	28	27	26	26	24	30	24	26
4/26/07	26	25	25	25	25	24	25	25	25	25	26	27	28	29	29	30	31	30	31	30	30	29	28	28	24	31	24	27
4/27/07	27	26	26	25	25	25	25	25	25	25	26	26	27	28	29	29	30	30	30	30	30	29	28	27	24	30	25	27
4/28/07	26	26	25	25	25	25	25	25	25	26	26	28	29	30	29	28	27	27	28	30	30	30	29	29	24	30	25	27
4/29/07	28	27	26	26	26	25	25	26	26	26	27	28	29	29	29	29	29	29	29	30	30	29	29	28	24	30	25	28
4/30/07	27	26	26	26	25	25	25	25	25	26	26	27	28	29	29	30	31	32	33	33	33	32	31	30	24	33	25	28
																									0			
hr max	28	27	26	26	26	25	25	26	26	26	27	28	29	30	29	30	31	32	33	33	33	32	31	30				
hr min	20	20	20	20	20	19	19	19	20	20	20	20	21	21	22	22	22	22	22	21	21	21	20	21				
average	24	24	24	24	24	23	24	24	24	24	24	25	25	26	26	26	26	26	27	26	26	26	0	25				

monthly max hr	monthly 24h max	monthly TOTAL
33	19	25
4/30/07	4/7/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	601
possible hours	720
data capture	83.5%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
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
5/1/07	6.1	6.6	5.3	6.7	6.1	6.0	6.3	7.4	8.3	7.9	7.0	6.5	5.1	4.4	3.7	3.0	3.0	3.6	5.2	4.1	4.1	4.6	4.1	4.5
5/2/07	5.3	6.2	5.7	6.6	5.4	5.0	5.6	7.6	9.0	9.8	9.5	9.8	10.2	10.1	9.5	10.3	10.8	11.0	10.3	7.5	6.7	7.6	8.2	8.3
5/3/07	8.3	7.7	7.6	7.7	6.9	6.8	8.1	9.6	9.3	10.7	11.9	12.5	13.0	13.6	14.2	13.7	14.0	13.7	12.8	12.8	12.8	12.5	11.7	11.4
5/4/07	10.1	10.1	9.3	9.8	9.9	8.6	7.5	6.4	5.7	4.9	4.0	4.3	4.4	3.8	3.3	3.5	3.6	4.1	3.4	3.3	3.4	2.7	3.1	2.9
5/5/07	3.1	4.8	5.5	5.2	4.7	4.5	4.6	2.9	5.9	7.3	8.1	6.8	8.8	10.8	15.6	15.2	17.3	17.5	12.0	10.4	8.9	7.6	7.4	6.2
5/6/07	7.5	8.3	10.7	11.0	11.7	13.9	14.1	14.8	12.3	11.4	11.1	12.7	13.2	13.5	14.6	14.2	12.2	11.6	9.5	7.0	5.1	5.1	5.0	5.9
5/7/07	5.4	5.0	3.9	3.3	4.0	4.4	5.5	6.2	5.5	4.9	4.0	4.6	4.8	5.4	4.4	5.6	4.3	3.1	3.3	3.5	3.8	3.2	2.8	2.6
5/8/07	3.6	3.1	4.6	5.4	4.9	4.7	3.9	3.9	3.3	2.3	2.7	2.8	3.6	3.8	4.6	4.3	3.2	3.5	2.6	1.5	1.7	4.8	4.7	5.3
5/9/07	5.5	5.2	5.3	4.4	5.6	5.7	5.4	5.2	5.1	5.4	5.7	6.9	6.9	6.2	5.7	5.7	6.0	5.2	4.9	3.5	3.9	4.3	5.5	5.3
5/10/07	4.8	4.8	5.2	5.1	4.3	4.6	6.7	8.6	10.0	9.5	8.5	8.1	7.3	6.9	6.6	6.7	6.2	6.8	5.7	5.5	5.1	5.1	4.7	5.4
5/11/07	5.0	2.8	3.6	4.6	4.5	4.3	6.8	6.9	6.3	7.3	8.2	8.5	8.7	8.5	8.4	6.8	5.4	5.0	5.4	5.8	7.2	7.5	7.1	7.2
5/12/07	6.8	6.8	6.8	6.2	5.8	6.3	7.3	9.4	8.7	8.8	10.2	9.0	8.6	9.8	9.7	9.7	8.2	8.5	7.7	7.3	7.6	6.6	5.5	3.7
5/13/07	2.5	1.0	2.5	4.5	6.6	6.1	7.2	7.3	7.5	6.8	7.2	7.6	8.6	7.9	7.5	7.1	5.9	4.4	4.2	2.5	2.4	2.2	3.1	2.3
5/14/07	2.3	2.6	4.7	5.2	5.1	7.3	11.4	12.2	13.1	14.4	13.2	14.0	15.1	14.4	12.9	12.5	13.2	11.9	12.8	13.4	9.7	7.5	6.1	6.1
5/15/07	6.5	5.7	5.2	5.0	5.4	4.7	6.6	6.7	8.2	8.1	7.7	7.5	7.7	6.8	6.5	6.9	6.8	6.9	6.8	4.1	3.7	4.4	5.2	5.2
5/16/07	5.3	5.2	4.9	4.5	4.0	2.7	1.9	3.5	3.6	4.0	3.6	4.3	4.1	4.9	4.7	5.6	5.3	3.8	3.1	2.8	4.4	5.0	5.3	5.3
5/17/07	4.0	4.7	5.0	5.2	4.1	3.7	4.0	6.3	9.5	10.4	11.1	11.0	11.1	11.2	11.0	10.5	10.7	9.7	6.9	6.3	7.1	6.8	5.4	7.2
5/18/07	8.0	7.6	7.8	7.8	8.1	7.5	7.1	8.7	8.6	8.9	8.8	9.0	10.3	10.4	10.3	9.4	9.0	8.2	5.8	4.6	5.2	5.4	5.7	5.6
5/19/07	6.6	6.8	8.2	4.9	3.6	2.9	6.1	7.3	8.5	7.8	8.5	7.4	7.6	7.1	7.5	7.1	7.6	7.0	7.4	6.7	5.8	7.3	8.0	7.9
5/20/07	6.6	5.3	5.1	3.4	3.2	4.0	5.7	4.4	5.2	6.5	7.2	6.9	7.2	7.5	7.8	6.0	6.6	7.0	5.2	4.6	5.7	8.8	12.1	13.1
5/21/07	9.6	11.5	10.8	9.4	7.9	6.7	5.5	5.2	7.5	10.2	9.0	9.8	10.7	10.9	11.2	8.8	8.5	9.2	9.1	8.5	8.5	9.6	7.9	4.4
5/22/07	2.7	3.3	3.1	3.0	3.0	3.4	4.9	6.0	6.2	6.9	4.9	7.4	7.1	7.4	7.6	7.3	6.4	6.8	8.8	7.6	5.6	5.9	5.2	4.5
5/23/07	3.9	3.6	4.9	5.0	3.7	5.2	6.3	7.0	6.7	6.7	7.1	8.7	7.8	8.7	11.2	12.6	13.4	12.5	10.2	9.1	8.1	6.7	5.2	5.1
5/24/07	4.8	5.2	5.7	7.0	7.8	6.5	6.9	9.6	9.8	10.2	8.2	8.4	8.2	8.1	7.7	6.7	5.9	5.1	4.0	2.1	1.9	3.4	4.6	4.6
5/25/07	5.2	5.4	5.6	5.2	7.0	8.7	11.1	10.7	9.9	11.9	8.0	9.4	10.9	10.9	11.6	12.1	12.1	10.8	9.2	7.7	11.0	10.2	8.1	7.8
5/26/07	8.4	12.1	12.6	13.2	12.2	13.0	11.6	11.2	11.2	11.7	12.3	12.5	11.3	10.4	9.4	8.9	7.8	7.2	6.7	3.9	2.9	2.9	1.8	0.9
5/27/07	1.9	1.6	2.3	3.5	3.4	3.3	2.9	3.3	3.7	4.4	5.8	5.7	6.5	7.2	7.4	7.4	7.9	7.2	6.8	6.4	5.8	5.4	4.9	5.8
5/28/07	6.7	7.6	7.7	7.8	8.0	8.0	7.0	7.9	9.9	11.8	12.8	13.4	13.1	13.1	11.2	8.3	8.2	7.3	8.0	8.1	7.5	7.4	8.7	8.4
5/29/07	10.5	5.7	3.4	3.5	3.4	2.6	2.5	4.4	5.7	4.4	5.6	6.8	6.5	6.3	8.0	7.5	7.1	7.2	5.9	4.6	3.4	3.9	3.3	3.4
5/30/07	3.7	3.7	3.8	5.5	5.6	6.0	7.2	9.2	9.9	12.1	12.2	11.5	13.1	12.6	12.6	11.8	10.1	9.5	9.6	8.7	8.3	7.5	7.8	7.8
5/31/07	7.2	6.8	6.0	5.8	6.8	6.4	7.4	8.6	9.4	9.5	8.5	7.1	6.8	7.5	7.5	6.6	9.2	9.1	8.1	5.7	6.3	5.4	5.8	6.6
hr max	10.5	12.1	12.6	13.2	12.2	13.9	14.1	14.8	13.1	14.4	13.2	14.0	15.1	14.4	15.6	15.2	17.3	17.5	12.8	13.4	12.8	12.5	12.1	13.1
hr min	1.9	1.0	2.3	3.0	3.0	2.6	1.9	2.9	3.3	2.3	2.7	2.8	3.6	3.8	3.3	3.0	3.0	3.1	2.6	1.5	1.7	2.2	1.8	0.9
average	5.7	5.7	5.9	6.0	5.9	5.9	6.6	7.4	7.9	8.3	8.1	8.4	8.7	8.7	8.8	8.4	8.3	7.9	7.1	6.1	5.9	6.0	5.9	5.8

valid hr count	daily max hr	daily min hr	daily ave hr
24	8.3	3.0	5.4
24	11.0	5.0	8.2
24	14.2	6.8	11.0
24	10.1	2.7	5.5
24	17.5	2.9	8.4
24	14.8	5.0	10.7
24	6.2	2.6	4.3
24	5.4	1.5	3.7
24	6.9	3.5	5.4
24	10.0	4.3	6.3
24	8.7	2.8	6.3
24	10.2	3.7	7.7
24	8.6	1.0	5.2
24	15.1	2.3	10.0
24	8.2	3.7	6.2
24	5.6	1.9	4.2
24	11.2	3.7	7.6
24	10.4	4.6	7.8
24	8.5	2.9	6.9
24	13.1	3.2	6.5
24	11.5	4.4	8.8
24	8.8	2.7	5.6
24	13.4	3.6	7.5
24	10.2	1.9	6.4
24	12.1	5.2	9.2
24	13.2	0.9	9.0
24	7.9	1.6	5.0
24	13.4	6.7	9.1
24	10.5	2.5	5.2
24	13.1	3.7	8.7
24	9.5	5.4	7.3

monthly max hr	monthly min hr	monthly ave hr
17.5	0.9	7.1
5/5/07	5/26/07	

Validated by: Roger I. Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	9.9	10.0	8.5	10.8	10.0	10.2	9.3	8.5	9.3	8.9	7.9	7.2	5.7	5.0	4.1	3.3	3.3	4.1	5.9	6.8	7.5	8.9	8.9	9.0	24	10.8	3.3	7.6
5/2/07	10.1	10.9	10.1	10.2	10.0	9.4	8.3	8.6	9.9	10.7	10.4	10.7	11.1	10.9	10.4	11.4	12.0	12.7	12.4	10.5	10.3	11.6	12.7	12.7	24	12.7	8.3	10.8
5/3/07	12.9	12.1	12.1	12.2	10.8	11.2	11.2	11.1	9.6	11.8	13.2	14.0	14.5	15.6	16.0	15.6	16.0	15.8	15.0	15.0	15.1	14.7	13.8	13.5	24	16.0	9.6	13.5
5/4/07	12.3	12.1	11.0	11.9	12.0	10.7	8.9	8.1	6.5	5.4	4.2	4.9	5.0	4.1	3.5	3.4	4.0	5.2	4.4	4.6	5.3	3.8	3.5	3.8	24	12.3	3.4	6.6
5/5/07	4.4	7.0	6.3	7.2	6.0	6.0	5.8	3.8	7.7	9.0	9.6	8.0	10.5	13.5	19.6	18.6	21.4	23.2	16.1	13.8	11.5	10.0	10.0	9.7	24	23.2	3.8	10.8
5/6/07	12.1	12.5	13.7	13.5	14.3	16.7	16.8	17.5	13.8	11.6	11.4	13.6	15.1	15.6	16.9	16.3	13.9	13.6	11.4	9.7	8.4	8.4	8.1	9.6	24	17.5	8.1	13.1
5/7/07	8.5	8.0	6.9	5.4	5.6	5.9	6.8	7.6	6.5	5.6	4.4	5.2	5.3	6.2	4.9	6.4	5.1	3.8	4.0	5.4	7.5	4.8	3.2	1.8	24	8.5	1.8	5.6
5/8/07	3.6	5.0	6.9	6.2	6.8	7.0	6.3	6.2	4.0	2.7	3.1	3.2	4.1	4.3	5.1	4.8	3.6	3.9	2.9	1.5	1.4	5.9	8.7	9.9	24	9.9	1.4	4.9
5/9/07	9.4	9.9	8.9	6.9	7.4	8.6	8.7	6.7	5.3	5.8	6.1	6.4	6.7	6.4	6.3	6.3	6.3	5.2	6.4	5.2	6.5	7.5	9.8	9.4	24	9.9	5.2	7.2
5/10/07	8.9	8.1	7.8	8.0	8.3	8.6	9.2	10.3	11.6	11.0	9.8	9.2	8.2	7.9	7.6	7.6	7.4	8.3	8.3	9.4	10.0	7.9	7.6	8.4	24	11.6	7.4	8.7
5/11/07	8.4	5.6	6.0	7.7	8.2	7.6	9.0	8.3	7.3	8.3	9.1	9.3	9.5	9.4	9.1	7.3	5.9	5.6	6.5	8.9	10.4	9.2	8.7	8.8	24	10.4	5.6	8.1
5/12/07	8.1	8.5	8.8	8.1	7.7	8.2	9.0	10.9	10.1	10.1	11.6	10.1	9.7	11.2	11.0	10.8	9.2	9.9	9.9	10.3	11.1	9.5	8.1	6.0	24	11.6	6.0	9.5
5/13/07	4.2	5.1	7.1	9.4	10.7	11.6	11.9	9.4	8.1	7.5	7.8	7.9	9.5	8.7	8.4	8.0	6.4	5.7	5.4	4.0	4.3	3.9	4.5	3.4	24	11.9	3.4	7.2
5/14/07	3.2	3.7	5.9	7.4	8.1	10.7	13.7	13.9	15.1	16.6	15.1	15.6	16.9	16.0	14.6	14.2	15.3	13.6	15.0	15.9	11.8	10.0	8.3	8.6	24	16.9	3.2	12.1
5/15/07	9.1	8.6	8.1	6.7	7.1	6.1	7.9	7.4	9.0	8.7	8.2	8.2	8.5	7.5	7.2	7.7	7.7	7.6	7.9	6.0	6.0	6.8	7.4	7.4	24	9.1	6.0	7.6
5/16/07	7.5	8.4	8.5	8.2	6.4	4.3	3.2	4.2	4.0	4.6	4.1	4.9	4.7	5.6	5.4	6.3	5.9	4.5	4.0	4.0	7.5	9.5	10.3	10.7	24	10.7	3.2	6.1
5/17/07	10.9	7.3	7.4	10.1	8.8	6.1	5.7	6.8	10.4	11.1	11.5	11.7	11.4	11.7	11.0	10.8	11.2	10.2	7.5	8.5	11.9	10.4	7.2	10.2	24	11.9	5.7	9.6
5/18/07	11.9	11.7	11.8	12.4	12.9	12.2	10.6	10.3	9.4	9.7	9.6	9.7	11.2	11.6	11.5	10.3	10.2	9.8	7.9	6.9	9.5	9.2	10.8	8.9	24	12.9	6.9	10.4
5/19/07	9.7	9.5	12.0	7.1	5.1	4.1	8.1	8.9	10.3	9.3	9.9	8.6	8.9	8.8	8.8	8.4	8.3	7.8	8.5	7.6	7.2	9.5	9.6	10.0	24	12.0	4.1	8.6
5/20/07	8.5	6.6	6.2	4.2	3.7	4.9	6.8	5.1	5.9	7.3	8.3	7.7	8.0	8.3	8.7	6.9	7.7	8.6	7.4	8.0	9.8	12.3	15.4	18.1	24	18.1	3.7	8.1
5/21/07	10.5	13.4	14.4	12.8	11.0	9.6	8.1	5.6	7.5	11.1	8.8	9.3	11.4	11.7	11.9	8.6	8.9	9.9	9.9	9.1	9.3	11.7	9.9	6.6	24	14.4	5.6	10.0
5/22/07	3.5	5.5	5.7	4.5	3.7	3.7	6.3	7.9	7.5	7.6	5.4	8.2	7.9	8.4	8.7	8.5	7.6	7.9	10.2	8.9	6.7	7.0	6.4	5.8	24	10.2	3.5	6.8
5/23/07	5.3	5.0	7.2	7.7	6.3	8.6	8.5	8.0	7.3	7.4	8.1	9.8	9.1	9.7	12.9	14.8	15.8	15.1	12.5	11.7	11.2	9.6	8.0	8.0	24	15.8	5.0	9.5
5/24/07	7.6	8.2	8.6	9.3	9.4	8.3	8.1	10.9	10.8	11.3	9.2	9.3	9.0	8.9	8.4	7.5	6.6	5.7	4.5	2.5	1.9	3.0	5.1	6.5	24	11.3	1.9	7.5
5/25/07	9.2	11.6	11.1	10.1	11.4	11.2	15.2	15.0	13.2	15.1	10.7	11.0	10.8	11.0	11.2	11.8	12.4	12.3	12.2	11.2	15.5	12.6	10.6	10.6	24	15.5	9.2	12.0
5/26/07	11.4	15.5	15.9	16.0	14.8	15.9	13.7	13.2	13.1	13.5	13.9	14.1	12.6	11.5	10.2	9.7	8.5	7.9	7.6	5.4	4.4	4.2	2.4	1.6	24	16.0	1.6	10.7
5/27/07	2.8	2.6	2.1	3.2	4.4	5.4	5.8	6.0	4.4	5.3	6.7	6.6	7.5	8.3	8.6	8.7	9.1	8.5	8.8	8.9	8.7	8.7	8.7	9.4	24	9.4	2.1	6.6
5/28/07	10.0	11.2	11.5	11.4	11.9	11.8	8.9	8.2	9.6	12.3	13.7	15.3	15.1	15.4	12.8	8.7	8.2	7.7	9.5	11.2	10.9	10.8	11.2	10.6	24	15.4	7.7	11.2
5/29/07	12.9	7.4	5.2	5.6	6.1	4.0	2.8	4.7	6.1	4.8	6.0	7.3	7.0	6.9	8.7	8.2	7.9	8.0	7.0	6.5	6.0	7.4	7.2	6.4	24	12.9	2.8	6.7
5/30/07	6.5	7.1	7.1	8.2	8.0	7.9	8.9	11.1	11.7	14.3	14.5	13.8	15.2	14.4	14.5	13.6	11.6	11.0	11.4	10.6	10.4	9.4	9.9	10.2	24	15.2	6.5	10.9
5/31/07	9.6	9.1	8.1	8.3	9.4	8.8	9.1	10.4	10.9	11.0	9.7	7.6	7.3	7.7	8.2	7.3	10.7	11.7	10.9	7.4	8.4	8.4	8.8	9.7	24	11.7	7.3	9.1
hr max	12.9	15.5	15.9	16.0	14.8	16.7	16.8	17.5	15.1	16.6	15.1	15.6	16.9	16.0	19.6	18.6	21.4	23.2	16.1	15.9	15.5	14.7	15.4	18.1				
hr min	2.8	2.6	2.1	3.2	3.7	3.7	2.8	3.8	4.0	2.7	3.1	3.2	4.1	4.1	3.5	3.3	3.3	3.8	2.9	1.5	1.4	3.0	2.4	1.6				
average	8.5	8.6	8.7	8.7	8.6	8.6	8.8	8.9	8.9	9.3	9.1	9.3	9.6	9.7	9.9	9.4	9.3	9.2	8.8	8.2	8.6	8.6	8.5	8.6				

monthly	monthly	monthly
max hr	min hr	ave hr
23.2	1.4	8.9
5/5/07	5/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

data
channel
mps

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
mps
100WS

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
5/1/07	13.6	13.1	11.5	12.7	11.9	12.2	11.1	9.4	9.7	9.2	8.3	7.4	6.0	5.1	4.2	3.3	3.3	4.4	6.1	7.0	7.8	9.0	9.2	9.4	24	13.60	3.30	8.54
5/2/07	10.2	11.9	12.0	12.8	12.1	11.5	11.7	9.5	9.9	10.8	10.4	10.8	11.1	10.4	10.1	11.3	12.2	13.1	13.3	13.1	14.2	16.1	17.8	18.2	24	18.2	9.5	12.3
5/3/07	18.5	17.6	16.6	12.8	11.7	12.6	11.8	9.8	8.5	11.7	13.2	13.6	14.1	15.8	16.4	16.2	16.6	16.6	15.8	16.1	16.1	15.6	14.7	14.5	24	18.5	8.5	14.5
5/4/07	12.4	12.6	11.7	12.1	11.1	10.1	10.6	9.4	7.1	5.6	4.4	5.1	5.3	4.4	3.5	3.7	4.2	5.4	4.7	5.0	5.3	3.1	3.2	4.4	24	12.6	3.1	6.9
5/5/07	4.7	8.9	7.8	7.1	7.3	6.3	6.6	4.5	8.8	9.5	10.1	8.5	11.1	15.0	21.9	20.6	23.6	26.3	18.1	15.6	13.3	11.5	9.8	9.7	24	26.3	4.5	11.9
5/6/07	14.5	16.5	16.5	15.5	16.2	18.2	18.3	18.2	13.4	13.6	10.5	15.3	15.8	16.2	17.8	17.0	14.3	14.0	11.9	11.3	10.3	10.4	9.9	11.2	24	18.3	9.9	14.5
5/7/07	10.9	10.1	8.5	7.5	7.0	6.9	7.9	8.5	6.9	5.9	4.6	5.5	5.6	6.5	5.3	6.7	5.4	4.0	4.3	5.9	8.6	5.4	3.7	1.5	24	10.9	1.5	6.4
5/8/07	3.3	6.0	5.8	4.7	4.9	6.4	6.0	6.4	4.2	2.7	3.4	3.3	4.2	4.4	5.2	5.1	3.7	3.9	3.0	1.5	1.0	6.0	12.1	12.8	24	12.8	1.0	5.0
5/9/07	12.4	12.1	9.7	8.7	7.3	7.6	10.0	9.1	5.7	5.8	6.4	6.9	7.2	7.0	6.7	6.6	6.7	5.4	7.5	8.0	10.2	11.3	11.0	11.0	24	12.4	5.4	8.3
5/10/07	10.5	10.8	11.1	8.8	8.7	10.8	11.8	11.4	11.7	11.4	10.2	9.6	8.4	8.1	7.9	8.0	7.5	8.4	8.5	11.3	13.5	13.8	11.1	10.5	24	13.8	7.5	10.2
5/11/07	11.1	8.6	8.4	8.4	9.5	11.9	11.7	8.7	7.4	8.8	9.3	9.5	9.6	9.4	9.2	7.3	6.0	5.8	6.9	10.6	12.7	12.4	12.1	12.4	24	12.7	5.8	9.5
5/12/07	12.0	12.2	12.5	11.9	11.9	12.5	11.3	11.2	10.2	10.2	11.7	10.4	9.9	11.6	11.3	11.0	9.5	10.1	11.1	11.9	13.8	12.4	10.9	8.6	24	13.8	8.6	11.3
5/13/07	6.3	7.5	10.2	11.2	12.1	13.5	13.9	11.6	8.5	7.6	8.1	8.4	9.7	8.8	8.5	8.2	6.6	6.1	5.7	4.4	5.1	5.4	5.0	4.0	24	13.9	4.0	8.2
5/14/07	4.4	2.8	6.4	8.6	10.7	12.0	15.2	14.8	16.1	17.5	15.7	16.1	17.6	16.4	15.2	14.8	16.1	14.4	16.2	17.5	13.5	12.0	10.2	10.7	24	17.6	2.8	13.1
5/15/07	11.3	11.2	10.4	8.5	8.3	7.4	8.9	7.5	9.1	9.0	8.5	8.5	8.8	7.8	7.4	8.1	8.0	8.0	8.4	7.4	6.9	7.4	8.1	8.4	24	11.3	6.9	8.5
5/16/07	9.0	9.2	9.7	9.0	6.9	5.3	4.6	4.5	4.0	4.5	4.2	5.0	5.0	5.8	5.6	6.6	6.2	4.7	4.2	4.6	7.5	9.4	10.3	10.9	24	10.9	4.0	6.5
5/17/07	11.4	9.3	10.6	12.9	13.0	12.8	12.6	10.7	11.9	12.7	13.6	13.5	13.1	13.3	13.0	12.7	13.7	13.3	9.2	8.3	10.3	9.0	12.1	14.6	24	14.6	8.3	12.0
5/18/07	15.2	15.0	14.3	15.1	16.0	16.0	14.8	11.9	9.5	9.6	9.6	9.8	11.4	11.8	11.8	10.7	10.7	11.1	11.3	13.9	14.4	14.4	14.2	11.5	24	16.0	9.5	12.7
5/19/07	10.8	12.5	14.6	9.1	6.7	5.5	9.1	9.2	10.2	8.7	9.6	8.3	8.2	8.5	8.4	8.4	9.6	9.0	10.2	9.6	10.0	10.3	10.3	10.2	24	14.6	5.5	9.5
5/20/07	8.7	7.1	6.8	4.6	3.9	5.4	7.1	5.2	6.0	7.3	8.4	7.9	8.0	8.4	8.9	7.1	7.9	9.5	9.4	10.3	13.0	13.9	16.7	20.2	24	20.2	3.9	8.8
5/21/07	14.4	16.7	19.3	15.5	13.5	11.7	10.7	7.3	8.6	12.7	10.1	10.3	13.3	13.7	14.2	10.6	11.3	12.1	14.3	12.5	13.2	13.6	11.9	8.1	24	19.3	7.3	12.5
5/22/07	4.3	5.6	8.2	6.9	4.4	3.4	7.1	9.6	8.6	7.7	5.5	8.3	8.0	8.6	8.9	9.0	8.5	8.6	11.1	9.6	7.5	8.0	7.6	7.1	24	11.1	3.4	7.6
5/23/07	6.6	6.2	8.9	10.0	8.8	10.9	10.6	8.8	7.4	7.5	8.2	10.0	9.7	10.0	13.4	15.2	16.5	16.0	13.6	13.5	13.4	11.8	10.7	10.2	24	16.5	6.2	10.7
5/24/07	9.6	10.9	11.0	11.3	10.6	9.7	9.0	11.4	11.1	11.6	9.5	9.6	9.2	9.3	8.6	7.8	6.7	5.9	4.6	2.7	1.6	2.6	4.5	6.0	24	11.6	1.6	8.1
5/25/07	8.5	11.1	11.7	13.7	12.8	15.1	13.0	15.9	16.3	15.6	11.7	12.7	13.1	12.9	12.0	13.7	14.7	12.5	12.7	13.2	17.4	12.5	12.2	12.2	24	17.4	8.5	13.2
5/26/07	13.1	17.1	17.4	17.2	16.1	17.2	15.1	14.1	13.9	14.0	14.4	14.6	13.0	11.8	10.5	10.0	8.7	8.2	8.1	6.0	5.0	4.2	2.7	1.5	24	17.4	1.5	11.4
5/27/07	2.5	2.3	1.8	2.5	3.6	4.6	5.3	5.8	5.2	5.9	6.9	6.6	7.6	8.5	8.8	8.9	9.4	8.8	9.7	10.7	11.2	12.0	11.8	12.6	24	12.6	1.8	7.2
5/28/07	12.9	13.8	11.2	10.1	9.8	9.5	8.7	9.4	12.1	15.7	16.7	17.1	16.6	16.1	13.6	11.8	10.6	8.1	8.8	10.6	10.3	10.4	10.5	14.3	24	17.1	8.1	12.0
5/29/07	14.4	8.9	6.5	6.5	6.5	5.2	3.4	5.0	6.3	4.9	6.1	7.3	7.3	7.1	8.9	8.4	8.1	8.2	7.9	7.4	7.4	8.5	8.0	7.1	24	14.4	3.4	7.3
5/30/07	7.1	7.7	8.9	10.3	10.1	9.6	10.3	12.6	13.2	15.8	15.9	15.7	16.3	15.1	15.2	14.2	12.4	11.9	12.4	11.9	11.6	10.6	11.2	11.6	24	16.3	7.1	12.2
5/31/07	11.1	10.6	9.4	10.2	11.3	10.4	10.2	11.1	11.2	11.3	10.6	9.0	7.9	7.6	9.0	7.4	11.1	12.9	12.0	8.6	8.8	8.8	10.9	12.0	24	12.9	7.4	10.1
hr max	18.5	17.6	19.3	17.2	16.2	18.2	18.3	18.2	16.3	17.5	16.7	17.1	17.6	16.4	21.9	20.6	23.6	26.3	18.1	17.5	17.4	16.1	17.8	20.2				
hr min	2.5	2.3	1.8	2.5	3.6	3.4	3.4	4.5	4.0	2.7	3.4	3.3	4.2	4.4	3.5	3.3	3.3	3.9	3.0	1.5	1.0	2.6	2.7	1.5				
average	10.2	10.5	10.6	10.2	9.8	10.1	10.3	9.8	9.4	9.8	9.5	9.8	10.1	10.2	10.4	10.0	10.0	9.9	9.7	9.7	10.2	10.1	10.1	10.2				

monthly max hr	monthly min hr	monthly ave hr
26.3	1.0	10.0
5/5/07	5/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	342	348	350	346	345	350	354	3	1	356	0	5	14	26	31	20	20	44	85	94	94	95	97	98	24
5/2/07	119	123	122	123	127	126	115	118	118	122	124	130	130	136	138	137	131	127	126	122	122	126	128	126	24
5/3/07	127	127	127	134	130	128	134	143	144	136	133	136	137	135	129	126	124	122	126	119	118	124	133	133	24
5/4/07	139	138	139	140	141	144	160	174	172	189	171	178	182	176	147	158	142	131	110	121	183	216	308	340	24
5/5/07	15	48	48	33	44	36	48	37	55	69	90	94	103	98	95	107	96	75	75	69	84	109	117	114	24
5/6/07	112	105	116	121	121	123	128	137	147	155	149	162	173	181	184	191	198	214	216	212	217	246	257	264	24
5/7/07	274	295	293	288	298	318	329	338	350	341	350	358	354	338	352	351	358	359	331	293	289	340	306	285	24
5/8/07	253	224	247	248	228	253	258	266	274	233	207	226	219	245	244	256	255	286	304	335	94	149	184	186	24
5/9/07	187	195	197	209	185	188	193	207	198	188	172	156	157	172	175	177	173	156	151	157	156	158	164	173	24
5/10/07	177	179	190	257	286	315	350	0	3	5	7	12	13	13	13	10	21	23	31	39	34	46	51	69	24
5/11/07	71	73	44	347	2	58	81	69	53	53	93	121	126	125	124	135	119	94	84	72	60	52	52	50	24
5/12/07	49	51	53	51	46	46	56	72	66	68	85	78	81	87	95	100	94	79	77	67	71	70	69	55	24
5/13/07	38	102	177	183	179	174	175	179	187	192	179	169	189	201	195	212	259	273	320	330	349	47	274	31	24
5/14/07	65	200	216	251	325	298	291	300	305	302	302	306	309	308	305	305	308	315	317	322	322	336	332	312	24
5/15/07	315	317	321	307	306	320	325	328	323	319	311	309	300	302	285	325	324	319	317	319	286	278	272	266	24
5/16/07	266	268	282	302	320	335	349	37	39	29	26	23	2	355	356	339	354	8	39	57	92	109	122	132	24
5/17/07	149	160	162	164	159	152	158	159	165	164	163	163	162	164	161	160	162	160	155	149	144	144	154	162	24
5/18/07	168	173	171	168	173	172	180	180	182	184	180	181	178	179	187	191	182	174	164	159	162	161	164	202	24
5/19/07	357	44	66	32	31	21	359	21	24	31	25	31	39	35	37	40	48	47	50	52	50	58	57	60	24
5/20/07	77	79	84	56	13	39	62	65	82	91	97	92	98	103	111	96	92	97	89	89	101	128	162	190	24
5/21/07	155	159	167	176	181	181	187	163	158	165	158	157	163	165	161	156	156	156	158	156	156	215	284	298	24
5/22/07	57	74	50	25	44	300	310	313	289	272	242	204	208	208	244	303	306	307	293	292	285	290	295	275	24
5/23/07	266	241	242	252	249	244	262	269	276	248	224	225	219	244	247	244	245	253	261	262	271	272	248	240	24
5/24/07	240	246	243	270	296	293	298	308	308	308	304	299	295	291	298	293	301	292	299	333	100	102	119	125	24
5/25/07	128	133	122	123	133	140	138	125	133	135	125	147	158	157	155	155	156	149	140	122	127	144	182	208	24
5/26/07	221	226	231	248	259	278	289	288	292	297	300	307	310	310	303	308	311	323	327	317	297	303	302	92	24
5/27/07	71	79	132	139	144	148	145	144	138	134	128	124	121	123	121	114	108	102	100	99	101	102	114	128	24
5/28/07	134	137	143	146	144	141	147	153	157	161	164	167	172	178	176	158	157	151	147	141	140	142	146	166	24
5/29/07	287	338	10	35	93	158	296	293	272	268	301	301	307	304	299	295	317	322	324	330	328	318	325	312	24
5/30/07	309	315	309	313	318	310	302	302	303	294	296	303	300	304	305	299	295	285	276	270	268	254	238	228	24
5/31/07	217	212	211	200	198	198	201	200	196	210	173	157	153	152	163	154	131	130	129	146	141	135	120	112	24

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	348	353	358	1	1	1	2	6	4	359	3	9	20	27	31	26	26	52	88	89	83	84	86	100	24
5/2/07	121	128	125	126	131	129	122	121	121	127	129	135	134	140	142	141	135	131	130	127	128	132	134	133	24
5/3/07	134	134	133	140	139	138	141	148	150	140	138	140	141	139	133	131	128	126	130	123	122	129	137	139	24
5/4/07	143	143	144	144	146	148	164	179	178	194	176	183	186	181	154	162	148	137	116	120	183	214	310	339	24
5/5/07	24	51	52	37	48	42	52	57	62	72	92	98	106	103	99	110	98	77	77	71	88	114	127	127	24
5/6/07	117	111	121	126	126	128	132	142	151	159	153	167	178	186	189	194	202	216	222	217	229	259	267	272	24
5/7/07	282	301	305	301	306	322	333	342	352	345	354	1	357	343	356	354	360	1	337	314	309	351	355	318	24
5/8/07	260	248	258	255	252	268	280	262	283	239	208	234	223	247	247	256	260	288	307	330	70	163	190	193	24
5/9/07	200	211	224	244	207	198	208	215	204	194	177	161	162	177	181	182	177	160	158	162	160	165	175	181	24
5/10/07	184	189	194	257	298	332	357	4	6	8	9	15	17	17	16	14	25	26	35	46	46	53	60	74	24
5/11/07	76	80	60	10	9	58	85	74	58	57	96	125	131	129	129	138	125	98	86	73	63	57	58	56	24
5/12/07	55	57	59	57	53	52	61	75	69	72	88	82	83	91	98	104	97	82	80	72	75	77	77	78	24
5/13/07	87	149	178	198	199	193	189	186	194	198	185	173	193	206	199	215	261	276	325	331	353	18	331	316	24
5/14/07	53	77	221	274	337	306	295	303	308	305	305	309	312	310	308	309	311	318	320	324	326	338	334	318	24
5/15/07	320	322	328	314	311	325	330	331	326	322	314	312	302	305	289	326	326	321	321	325	310	300	298	298	24
5/16/07	296	292	302	320	349	24	24	42	44	35	30	21	360	355	357	342	357	12	42	62	85	106	119	132	24
5/17/07	147	158	162	170	169	158	163	164	170	168	167	168	167	168	165	165	166	165	160	152	148	150	160	168	24
5/18/07	174	178	176	175	179	178	184	185	187	189	185	185	183	185	193	196	188	181	171	164	168	168	172	199	24
5/19/07	2	50	69	43	57	45	5	25	29	34	29	34	41	40	40	43	51	51	54	56	55	62	61	64	24
5/20/07	81	82	88	62	18	44	65	69	84	94	100	95	99	106	115	101	96	103	93	95	111	136	169	193	24
5/21/07	161	162	170	180	185	188	189	168	162	169	163	162	168	170	166	161	161	161	163	161	161	219	287	303	24
5/22/07	34	67	76	54	77	271	311	318	295	275	244	207	212	212	248	306	309	311	296	296	289	294	298	283	24
5/23/07	276	253	250	261	262	256	268	273	278	251	228	228	222	246	250	247	247	256	264	267	276	277	262	252	24
5/24/07	254	255	252	275	300	297	301	311	311	312	306	302	298	294	300	296	302	296	302	333	74	91	114	124	24
5/25/07	129	137	130	130	140	147	145	129	136	140	130	153	162	162	159	160	160	154	145	130	132	150	188	214	24
5/26/07	227	231	235	251	263	281	292	291	296	300	303	310	311	312	305	310	314	326	330	326	321	332	355	37	24
5/27/07	45	57	97	128	143	146	138	140	141	137	132	127	125	127	125	118	113	105	105	104	106	111	125	137	24
5/28/07	140	142	147	150	149	148	152	158	162	165	168	171	177	183	181	164	162	156	151	146	145	146	151	171	24
5/29/07	291	339	8	31	79	123	326	296	275	271	303	305	309	306	302	299	319	325	327	335	342	337	343	337	24
5/30/07	331	325	325	320	324	316	307	305	306	297	299	306	303	306	308	302	298	288	279	274	273	259	243	233	24
5/31/07	222	218	217	208	205	204	207	205	201	212	178	162	157	156	168	157	135	134	135	151	147	140	126	118	24

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	356	1	6	12	10	15	15	13	8	2	6	14	27	32	34	34	34	59	94	95	89	90	92	107	24
5/2/07	123	130	130	130	133	132	129	126	126	131	134	139	139	145	146	145	140	135	135	134	135	138	140	141	24
5/3/07	142	145	146	151	151	150	152	154	154	145	142	145	145	143	138	136	133	131	134	128	128	134	141	143	24
5/4/07	148	147	149	150	152	153	172	185	185	198	180	188	191	186	159	165	152	142	122	126	182	201	331	342	24
5/5/07	37	59	59	47	56	50	59	82	74	80	100	106	113	113	107	115	105	83	82	78	96	122	139	140	24
5/6/07	128	126	127	132	131	132	137	146	156	164	158	171	182	188	191	197	207	221	227	224	243	273	280	284	24
5/7/07	294	311	316	315	315	329	338	348	357	349	359	4	1	349	1	359	3	3	344	322	319	356	3	347	24
5/8/07	270	264	270	264	260	270	281	289	281	245	214	235	228	248	250	260	267	292	309	325	63	164	193	205	24
5/9/07	214	227	237	255	231	213	224	223	212	200	182	166	167	182	186	187	181	165	165	170	169	176	181	182	24
5/10/07	188	193	195	251	304	349	6	10	11	13	14	20	22	24	22	20	31	31	41	52	54	62	69	82	24
5/11/07	83	87	75	32	27	66	92	83	68	64	103	129	136	134	133	141	129	105	93	80	71	64	66	64	24
5/12/07	64	67	68	66	64	63	70	84	76	79	95	88	90	98	105	111	105	88	86	80	84	87	89	101	24
5/13/07	133	179	195	216	211	208	205	197	199	202	190	178	198	210	204	221	264	280	327	332	354	11	337	349	24
5/14/07	66	90	231	293	348	315	300	308	312	309	309	314	316	315	312	313	316	322	324	328	330	342	338	326	24
5/15/07	329	332	339	326	323	332	336	336	330	326	319	316	307	310	294	329	328	325	325	330	317	310	313	313	24
5/16/07	306	301	316	337	14	49	49	51	50	42	33	25	4	359	358	347	1	16	47	68	92	111	124	136	24
5/17/07	148	159	167	179	178	169	173	170	175	173	172	173	172	173	169	170	171	170	165	159	157	161	169	176	24
5/18/07	180	181	182	182	190	191	194	191	193	191	189	187	185	189	197	201	191	183	176	173	177	177	180	200	24
5/19/07	10	57	75	57	72	74	15	32	36	40	36	40	45	45	45	49	57	57	60	63	62	69	69	71	24
5/20/07	89	91	96	72	28	51	73	77	91	102	107	102	105	112	120	109	104	111	103	115	128	147	176	194	24
5/21/07	168	164	173	181	185	192	185	173	167	174	168	167	173	175	171	166	167	166	169	166	167	224	292	308	24
5/22/07	21	58	84	75	111	239	316	323	304	280	249	212	217	217	252	310	313	315	301	302	296	299	304	292	24
5/23/07	289	267	263	273	275	270	277	279	281	255	232	233	226	249	254	251	252	260	269	273	281	283	275	266	24
5/24/07	269	268	264	282	304	303	307	316	316	316	311	305	303	298	304	301	306	299	307	331	75	96	119	130	24
5/25/07	133	139	137	138	150	158	157	134	140	147	141	160	167	166	163	164	164	158	150	138	140	155	192	221	24
5/26/07	234	236	240	257	269	286	296	296	300	304	307	314	316	316	309	315	318	330	333	331	329	335	354	31	24
5/27/07	41	58	109	126	136	146	134	137	144	140	137	131	130	131	129	123	119	112	113	112	115	123	140	147	24
5/28/07	146	147	154	160	159	160	161	163	167	170	172	176	181	185	184	170	167	161	155	152	152	154	158	176	24
5/29/07	296	342	9	29	72	106	38	301	278	277	308	310	313	311	306	304	323	330	332	343	352	348	353	354	24
5/30/07	347	336	337	333	334	324	314	312	311	302	303	310	308	310	313	306	302	292	284	279	279	266	250	240	24
5/31/07	229	226	226	219	216	214	215	211	207	217	182	167	161	160	173	162	139	138	141	156	153	150	138	128	24

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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 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				
5/1/07	5.3	5.3	5.2	4.9	4.9	5.2	5.5	6.0	7.6	9.8	12.6	12.0	17.4	22.9	24.8	28.2	28.2	17.1	7.6	4.5	3.6	4.1	4.9	4.8	24	28.2	3.6	10.5
5/2/07	4.0	4.7	5.2	4.8	4.4	4.9	5.2	6.7	7.0	7.5	8.0	8.9	9.8	8.5	8.2	7.6	7.8	6.0	5.3	4.9	4.7	5.1	5.0	4.8	24	9.8	4.0	6.2
5/3/07	5.3	5.0	5.0	4.6	4.6	4.8	5.3	5.0	6.6	7.3	7.5	7.8	7.7	7.2	6.7	7.3	6.4	6.6	5.7	5.5	5.5	5.3	5.3	5.0	24	7.8	4.6	6.0
5/4/07	5.2	5.0	6.5	6.1	4.9	5.2	7.6	7.2	8.1	11.0	15.7	17.0	17.9	24.9	25.3	11.7	8.5	5.2	5.9	8.2	6.3	10.7	14.3	12.0	24	25.3	4.9	10.4
5/5/07	9.2	6.9	8.2	7.3	7.3	7.1	12.3	12.3	8.5	7.9	7.0	8.3	7.2	7.8	6.9	8.3	8.0	8.0	14.7	7.3	6.8	8.4	10.7	5.3	24	14.7	5.3	8.4
5/6/07	6.2	5.0	5.2	5.0	5.2	5.2	5.5	5.2	5.6	5.3	5.9	7.0	8.3	8.1	8.7	7.7	6.7	6.8	5.9	4.8	4.9	5.8	5.6	5.3	24	8.7	4.8	6.0
5/7/07	5.7	5.7	6.7	5.9	6.1	6.1	6.3	6.5	8.3	8.5	13.0	13.4	14.4	15.0	14.5	11.3	10.8	19.6	11.9	8.3	3.7	20.0	6.5	10.3	24	20.0	3.7	9.9
5/8/07	4.9	4.7	1.9	1.3	2.2	3.9	5.9	5.7	10.7	21.0	32.6	34.2	29.0	25.2	25.3	22.9	27.6	17.2	12.1	8.3	18.6	4.3	4.0	4.4	24	34.2	1.3	13.7
5/9/07	3.4	1.8	2.1	3.3	4.4	3.1	4.0	5.8	8.0	11.2	12.7	8.5	7.5	16.6	13.4	13.7	11.2	8.4	5.7	3.4	3.9	3.0	1.9	3.8	24	16.6	1.8	6.7
5/10/07	3.9	3.6	3.4	9.9	6.5	6.1	6.3	6.0	6.4	8.7	9.0	10.5	10.7	11.4	11.3	10.7	10.0	8.3	6.5	5.7	5.6	6.0	7.4	5.9	24	11.4	3.4	7.5
5/11/07	5.8	8.3	10.3	9.2	9.9	9.3	7.0	8.8	8.1	10.3	9.6	9.5	9.1	9.5	8.9	9.5	12.5	14.9	7.0	7.1	7.2	7.4	7.5	7.1	24	14.9	5.8	8.9
5/12/07	7.2	7.2	6.7	7.1	6.6	6.7	7.6	7.1	8.7	9.3	9.3	10.7	12.0	9.6	8.1	8.0	8.0	8.8	7.3	5.9	6.6	6.5	7.1	13.4	24	13.4	5.9	8.1
5/13/07	10.2	19.3	10.3	7.7	5.4	5.2	6.8	7.3	8.0	9.6	10.8	10.2	11.2	12.4	10.9	11.1	11.8	8.1	7.0	10.6	15.6	11.3	30.4	25.2	24	30.4	5.2	11.5
5/14/07	21.8	46.7	41.7	8.3	7.8	8.5	5.9	6.2	5.9	6.0	7.5	6.9	7.3	7.8	7.1	7.2	6.4	7.0	6.3	5.6	5.7	5.7	7.6	4.8	24	46.7	4.8	10.5
5/15/07	5.5	5.6	7.4	6.0	5.9	5.6	6.3	8.2	9.2	8.3	10.9	13.8	12.7	9.1	12.3	16.3	14.7	10.2	7.2	6.1	2.6	3.1	2.5	3.9	24	16.3	2.5	8.1
5/16/07	3.9	3.2	4.1	4.7	3.9	5.9	9.9	8.9	13.7	16.0	23.6	19.5	22.8	17.6	22.5	17.8	11.7	13.8	10.3	8.9	3.6	4.6	4.7	4.6	24	23.6	3.2	10.8
5/17/07	4.6	4.2	4.3	3.2	3.0	4.6	5.7	6.3	6.7	7.6	7.6	7.9	7.5	8.6	7.3	8.2	6.9	6.4	5.1	4.9	4.8	4.6	4.4	4.7	24	8.6	3.0	5.8
5/18/07	5.9	6.5	5.8	4.4	5.9	5.8	7.7	7.3	8.0	8.7	10.0	9.5	8.5	9.7	9.6	9.2	9.2	7.6	7.4	3.9	3.8	3.9	3.5	12.9	24	12.9	3.5	7.3
5/19/07	19.4	7.7	7.8	14.1	31.4	15.6	7.3	7.6	7.9	8.1	9.0	9.9	9.7	8.9	9.5	9.6	10.2	9.2	9.2	7.8	7.1	7.5	7.3	7.6	24	31.4	7.1	10.4
5/20/07	8.9	7.0	8.1	32.1	27.6	16.6	7.5	9.2	9.2	8.6	9.7	12.0	10.2	8.8	10.1	12.3	8.2	6.5	6.3	5.4	5.9	7.7	12.3	7.3	24	32.1	5.4	10.7
5/21/07	7.6	6.5	5.4	7.3	7.4	7.9	7.8	7.7	6.5	7.3	6.9	7.7	8.2	8.5	6.6	5.8	6.4	7.3	5.3	5.3	5.4	17.7	7.0	6.8	24	17.7	5.3	7.3
5/22/07	20.5	7.1	8.3	8.7	36.1	48.1	17.8	10.1	10.5	7.7	11.0	9.2	9.6	10.8	17.3	6.2	11.0	8.3	6.4	5.4	10.4	6.9	8.9	7.3	24	48.1	5.4	12.7
5/23/07	7.3	6.1	6.1	5.9	7.0	5.1	6.2	7.4	8.0	10.1	11.3	9.7	15.8	8.3	8.1	7.7	7.0	6.3	6.5	6.7	6.1	5.5	6.1	7.8	24	15.8	5.1	7.6
5/24/07	6.0	6.0	5.9	6.6	6.3	6.0	6.2	6.8	7.7	7.3	11.1	10.1	10.7	9.7	11.2	12.2	12.9	12.7	10.4	18.4	7.2	7.3	4.6	3.6	24	18.4	3.6	8.6
5/25/07	4.5	4.9	5.3	6.1	5.7	7.7	6.9	6.6	6.4	5.4	6.5	7.7	6.5	6.3	6.2	6.4	6.1	5.4	6.7	6.8	6.6	6.1	7.9	6.7	24	7.9	4.5	6.3
5/26/07	8.1	6.6	6.0	6.5	6.8	6.0	6.6	6.0	7.0	7.1	6.6	6.9	9.2	7.7	9.6	10.1	10.6	9.5	7.0	4.6	3.2	4.4	14.6	20.3	24	20.3	3.2	8.0
5/27/07	12.5	12.8	3.8	9.0	3.8	3.5	7.2	6.9	6.2	7.3	6.8	6.7	7.4	7.2	7.5	8.0	7.7	8.2	7.3	6.1	6.2	6.2	5.5	5.6	24	12.8	3.5	7.1
5/28/07	5.9	5.7	5.6	5.3	5.1	5.3	5.6	6.1	5.8	6.0	6.9	7.0	8.7	9.0	9.3	6.0	6.0	5.8	5.9	5.5	5.6	5.5	5.3	7.0	24	9.3	5.1	6.2
5/29/07	19.1	7.2	14.4	8.8	12.0	14.8	39.8	6.4	7.1	9.6	10.0	8.4	10.8	11.8	9.4	10.8	6.7	7.1	6.3	5.5	5.5	4.8	5.4	5.0	24	39.8	4.8	10.3
5/30/07	4.7	4.4	4.4	4.9	5.5	5.8	5.5	4.8	5.3	5.3	5.9	5.6	5.5	6.1	6.3	6.0	6.6	6.0	5.3	6.4	6.1	6.7	5.7	6.0	24	6.7	4.4	5.6
5/31/07	6.2	6.0	6.1	5.7	5.9	5.8	6.1	6.6	8.2	9.3	9.4	6.9	6.5	8.0	8.8	9.3	7.2	6.5	7.2	6.4	6.1	6.2	6.0	6.3	24	9.4	5.7	6.9
hr max	21.8	46.7	41.7	32.1	36.1	48.1	39.8	12.3	13.7	21.0	32.6	34.2	29.0	25.2	25.3	28.2	28.2	19.6	14.7	18.4	18.6	20.0	30.4	25.2				
hr min	3.4	1.8	1.9	1.3	2.2	3.1	4.0	4.8	5.3	5.3	5.9	5.6	5.5	6.1	6.2	5.8	6.0	5.2	5.1	3.4	2.6	3.0	1.9	3.6				
average	8.0	7.6	7.3	7.2	8.4	8.1	8.1	7.1	7.8	8.8	10.5	10.4	11.0	11.1	11.3	10.6	10.1	9.0	7.4	6.6	6.3	6.8	7.4	7.6				

monthly max hr	monthly min hr	monthly ave hr
48.1	1.3	8.5
5/22/07	5/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	3.5	4.3	6.6	6.0	5.5	3.5	4.8	5.4	5.6	8.0	11.1	11.0	15.2	17.5	19.6	23.0	23.0	15.3	6.3	2.0	1.5	1.5	1.9	2.7	24	23.0	1.5	8.5
5/2/07	1.7	2.1	2.9	2.9	1.6	1.9	3.8	5.5	5.4	6.4	6.9	7.3	8.8	7.2	6.8	6.3	6.6	4.7	4.2	3.1	3.3	3.7	3.3	3.3	24	8.8	1.6	4.6
5/3/07	3.7	3.1	3.0	2.4	2.8	2.5	3.9	3.7	5.3	5.6	6.0	6.2	6.1	5.5	5.6	5.9	5.1	5.1	4.2	4.5	4.3	4.0	4.0	3.8	24	6.2	2.4	4.4
5/4/07	3.8	3.8	5.1	4.7	3.5	3.5	6.0	6.0	7.1	9.6	13.4	13.2	15.6	20.8	19.0	8.8	8.0	3.0	5.3	10.2	3.5	5.6	15.5	10.6	24	20.8	3.0	8.6
5/5/07	7.3	4.2	6.1	4.9	4.7	5.4	10.0	7.0	5.7	5.9	5.4	6.5	6.1	6.2	5.4	7.6	6.2	5.7	12.8	5.1	4.8	6.4	8.4	3.9	24	12.8	3.9	6.3
5/6/07	4.7	3.6	4.4	4.3	4.5	4.2	4.6	3.8	4.2	4.2	4.8	5.7	7.4	6.7	6.8	5.8	5.1	5.0	4.4	2.8	3.4	3.9	2.9	2.3	24	7.4	2.3	4.6
5/7/07	3.4	3.5	4.0	4.4	4.4	4.3	4.3	4.8	7.0	7.3	11.3	11.1	12.8	11.8	11.2	10.3	9.3	16.9	10.0	6.2	1.3	13.4	5.3	12.6	24	16.9	1.3	8.0
5/8/07	5.2	3.4	0.6	0.9	2.9	1.6	1.7	3.3	8.7	16.7	26.5	27.6	19.4	23.1	21.0	19.9	25.4	15.3	10.9	8.5	11.7	5.5	2.4	1.1	24	27.6	0.6	11.0
5/9/07	1.0	1.6	3.2	2.6	5.0	2.0	2.1	4.8	5.9	8.0	10.6	7.0	6.4	14.4	10.7	11.6	10.3	7.3	4.3	1.5	0.9	1.0	2.0	2.0	24	14.4	0.9	5.3
5/10/07	1.7	1.6	2.0	12.9	4.1	3.1	4.7	4.6	4.3	5.9	7.2	8.9	8.8	8.8	9.2	8.7	7.8	6.3	4.0	3.0	2.4	3.5	5.0	4.1	24	12.9	1.6	5.5
5/11/07	3.7	5.3	9.5	7.2	6.5	5.7	4.9	5.8	6.4	7.6	7.8	8.0	7.3	7.4	6.3	7.8	11.4	11.9	5.1	4.5	4.0	4.6	4.9	4.8	24	11.9	3.7	6.6
5/12/07	4.8	4.8	4.3	4.3	4.3	4.2	5.2	4.7	6.6	6.8	7.8	8.2	9.6	7.7	6.4	7.1	6.0	6.6	5.2	4.0	4.3	4.8	5.7	7.5	24	9.6	4.0	5.9
5/13/07	5.9	4.6	3.9	2.5	1.4	1.9	3.2	5.9	6.0	7.6	8.7	9.0	9.1	9.8	9.0	9.3	11.5	7.6	4.7	4.8	4.4	6.5	10.7	23.6	24	23.6	1.4	7.2
5/14/07	10.3	24.5	37.1	6.2	5.0	9.3	4.5	5.2	4.7	5.0	6.0	5.5	5.5	6.0	5.5	5.7	5.1	6.2	4.8	4.1	4.3	4.1	5.6	3.5	24	37.1	3.5	7.7
5/15/07	3.7	3.6	6.5	5.0	4.4	4.2	4.8	5.9	7.0	7.0	9.3	11.4	11.2	7.8	10.2	14.5	13.8	9.1	5.8	3.6	1.5	2.3	1.7	1.4	24	14.5	1.4	6.5
5/16/07	1.6	0.8	2.5	2.5	4.4	6.6	6.7	7.3	8.9	12.7	20.5	16.0	20.0	14.2	16.9	15.6	11.1	11.3	8.7	3.5	3.1	5.4	1.3	1.9	24	20.5	0.8	8.5
5/17/07	1.2	1.1	2.2	1.2	1.7	1.8	2.7	4.7	4.5	6.0	5.3	6.5	6.3	7.4	6.1	6.7	5.3	4.9	3.7	2.7	1.7	1.7	2.5	2.7	24	7.4	1.1	3.8
5/18/07	4.5	4.6	4.4	2.9	3.5	3.8	5.4	5.3	6.3	6.2	7.6	7.1	6.8	8.5	7.3	7.0	8.0	6.5	5.6	1.6	1.7	1.4	2.5	12.6	24	12.6	1.4	5.5
5/19/07	18.7	5.7	4.8	11.9	36.6	11.6	8.3	5.3	5.2	5.8	6.3	7.8	6.8	7.2	7.4	8.2	7.1	6.4	5.7	4.6	3.8	4.4	3.7	4.2	24	36.6	3.7	8.2
5/20/07	6.4	4.7	5.3	29.2	24.5	13.8	4.7	7.3	6.4	6.9	7.1	10.3	7.9	7.3	8.3	10.0	6.3	4.9	4.0	2.8	3.1	5.8	10.6	5.3	24	29.2	2.8	8.5
5/21/07	5.6	4.7	3.7	5.3	5.1	4.9	5.4	6.7	5.4	6.0	5.4	6.0	6.8	7.7	5.9	4.3	5.0	6.0	4.0	3.8	4.0	16.6	5.9	4.9	24	16.6	3.7	5.8
5/22/07	13.6	7.8	5.3	8.4	48.9	39.7	14.3	7.3	10.0	6.9	9.4	6.9	7.3	8.9	16.4	4.5	10.2	7.5	5.2	3.9	8.6	5.2	7.5	6.1	24	48.9	3.9	11.2
5/23/07	6.1	4.5	4.5	3.9	5.4	2.9	4.7	6.0	6.1	8.6	8.4	8.2	14.8	8.4	7.0	6.4	5.5	5.4	5.4	5.5	4.3	3.2	4.5	7.2	24	14.8	2.9	6.1
5/24/07	4.3	4.0	4.4	5.3	5.1	4.6	5.0	5.5	6.2	6.0	10.1	8.2	9.0	8.6	9.3	10.3	12.8	10.5	8.8	13.0	5.0	2.5	3.5	2.0	24	13.0	2.0	6.8
5/25/07	2.1	1.5	1.7	3.1	3.3	6.0	5.0	4.3	4.6	3.8	5.1	6.1	4.7	4.7	4.6	4.7	4.7	3.8	4.9	4.9	4.7	4.4	6.4	4.9	24	6.4	1.5	4.3
5/26/07	6.1	5.1	4.5	5.2	5.6	4.6	5.1	5.1	5.7	5.4	5.7	5.7	7.6	6.5	7.8	8.8	9.2	8.2	5.3	2.9	2.4	3.6	3.7	6.0	24	9.2	2.4	5.7
5/27/07	3.8	3.8	5.7	9.7	2.5	2.0	2.8	2.9	5.8	5.3	4.3	5.0	4.4	4.9	5.4	6.7	6.3	6.3	5.7	4.1	4.0	3.8	3.1	3.4	24	9.7	2.0	4.7
5/28/07	3.6	3.6	3.0	2.4	2.3	2.6	3.7	4.3	3.9	4.4	5.5	5.3	7.2	7.0	7.9	4.5	4.2	4.0	4.2	3.4	3.2	2.9	3.2	5.3	24	7.9	2.3	4.2
5/29/07	19.0	6.4	11.8	5.3	5.6	14.1	47.7	5.4	5.8	7.6	7.8	7.2	9.0	10.0	7.5	9.0	5.2	5.4	5.2	3.7	2.4	1.3	1.8	1.9	24	47.7	1.3	8.6
5/30/07	2.4	1.2	1.4	3.1	3.8	4.2	4.1	3.6	4.1	4.0	4.4	4.5	4.4	5.0	4.7	4.7	4.9	4.7	4.5	4.8	4.9	5.6	4.1	4.3	24	5.6	1.2	4.1
5/31/07	4.3	4.1	4.3	3.5	3.7	3.5	4.3	5.0	5.7	7.6	7.9	5.0	4.6	6.3	7.4	7.2	5.5	4.8	5.4	4.3	4.2	3.4	3.4	4.2	24	7.9	3.4	5.0
hr max	19.0	24.5	37.1	29.2	48.9	39.7	47.7	7.3	10.0	16.7	26.5	27.6	20.0	23.1	21.0	23.0	25.4	16.9	12.8	13.0	11.7	16.6	15.5	23.6				
hr min	1.0	0.8	0.6	0.9	1.4	1.6	1.7	2.9	3.9	3.8	4.3	4.5	4.4	4.7	4.6	4.3	4.2	3.0	3.7	1.5	0.9	1.0	1.3	1.1				
average	5.4	4.4	5.4	5.6	7.2	5.9	6.4	5.2	6.0	6.9	8.5	8.5	8.9	9.1	9.1	8.7	8.6	7.3	5.8	4.4	3.8	4.6	4.7	5.3				

monthly max hr	monthly min hr	monthly ave hr
48.9	0.6	6.5
5/22/07	5/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
Deg
100sT

data channel Deg

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
5/1/07	1.8	3.9	2.8	1.0	1.1	1.2	1.1	4.2	4.9	6.6	10.3	10.4	15.8	17.7	16.6	18.4	18.4	14.6	5.9	2.0	1.1	1.1	1.2	2.5	24	18.4	1.0	6.9
5/2/07	1.7	1.1	1.3	1.0	0.6	0.8	1.5	4.7	4.4	5.2	5.8	6.3	7.9	6.9	6.3	5.7	5.5	4.1	3.2	1.6	2.0	1.8	1.2	1.4	24	7.9	0.6	3.4
5/3/07	1.5	1.1	1.3	1.8	1.6	1.6	2.2	3.5	4.9	4.7	5.3	5.8	5.8	5.1	4.9	5.2	4.3	4.3	3.4	3.4	3.4	3.3	3.4	3.2	24	5.8	1.1	3.5
5/4/07	3.2	3.2	4.3	3.8	2.8	2.7	5.1	4.6	6.7	9.3	11.7	12.4	14.3	19.4	16.9	9.6	6.9	2.6	4.6	8.3	3.3	7.0	43.9	9.3	24	43.9	2.6	9.0
5/5/07	6.5	2.9	5.6	4.2	4.1	4.7	9.3	8.0	4.9	5.7	5.0	6.2	5.2	5.2	4.6	6.5	5.3	4.8	10.2	4.1	4.1	5.3	7.0	3.7	24	10.2	2.9	5.5
5/6/07	4.0	2.4	3.1	3.2	3.6	3.6	3.9	3.5	3.8	3.7	4.3	5.1	6.3	6.3	6.8	6.1	4.6	4.6	3.6	2.0	3.6	2.8	1.4	1.1	24	6.8	1.1	3.9
5/7/07	1.8	2.5	2.4	3.1	3.6	3.8	3.3	3.9	5.7	6.5	9.9	10.0	11.8	10.3	10.7	8.9	8.9	15.7	9.1	5.8	1.3	11.6	3.4	17.0	24	17.0	1.3	7.1
5/8/07	6.4	1.9	0.8	1.0	1.1	3.0	3.3	1.1	6.9	16.6	22.8	29.5	20.0	21.9	19.1	18.1	27.4	13.0	11.0	6.8	8.2	7.6	2.0	1.9	24	29.5	0.8	10.5
5/9/07	1.0	1.5	2.4	2.7	3.1	3.6	1.6	3.1	5.8	7.0	9.4	6.0	6.7	11.7	9.8	10.5	10.0	7.0	4.5	1.6	0.8	1.6	1.9	2.2	24	11.7	0.8	4.8
5/10/07	1.8	1.5	1.8	13.9	5.8	4.7	3.1	4.2	3.7	5.1	6.6	8.0	7.9	8.3	8.3	8.3	6.7	5.5	3.2	2.3	1.4	1.6	4.5	3.9	24	13.9	1.4	5.1
5/11/07	2.9	4.4	8.2	6.4	6.0	4.0	3.5	5.8	6.0	6.7	6.7	6.1	6.0	6.1	5.1	7.3	9.7	10.5	4.8	4.0	3.0	3.7	4.0	4.1	24	10.5	2.9	5.6
5/12/07	4.4	3.9	3.5	3.5	3.7	3.4	4.5	5.0	6.1	6.3	7.3	7.7	8.2	6.6	5.8	5.9	5.4	5.4	4.2	3.2	3.0	4.0	4.5	6.8	24	8.2	3.0	5.1
5/13/07	4.5	4.8	3.5	2.4	1.4	1.1	1.1	3.8	5.9	7.8	8.4	8.3	8.2	8.6	8.4	8.8	10.3	8.0	3.2	4.8	2.7	5.2	8.3	14.2	24	14.2	1.1	6.0
5/14/07	9.8	29.9	38.0	6.0	3.9	9.6	4.0	4.6	4.2	4.2	5.0	4.8	4.9	5.3	4.5	5.1	4.5	5.1	3.9	3.2	3.4	2.9	4.0	2.3	24	38.0	2.3	7.2
5/15/07	2.4	1.8	4.6	3.9	3.6	3.1	4.1	5.2	6.3	6.3	8.9	11.1	10.2	7.1	9.4	13.7	13.7	8.4	5.0	2.7	1.8	2.2	1.6	1.6	24	13.7	1.6	5.8
5/16/07	1.4	1.2	2.6	3.3	6.0	4.5	4.5	6.3	7.2	11.3	18.9	14.7	20.8	16.0	17.2	14.3	11.2	12.2	8.2	3.0	3.5	3.8	1.0	1.9	24	20.8	1.0	8.1
5/17/07	1.0	0.8	2.2	1.9	1.8	1.2	2.0	3.8	4.6	5.9	5.1	7.0	6.4	7.2	5.9	6.5	5.5	4.7	2.7	1.9	1.0	1.7	2.6	3.6	24	7.2	0.8	3.6
5/18/07	3.2	2.9	3.2	2.7	2.4	1.9	2.1	3.9	5.8	5.8	6.7	6.2	6.1	7.5	7.3	6.6	7.8	4.7	3.8	1.6	2.7	2.6	2.7	12.2	24	12.2	1.6	4.7
5/19/07	17.8	4.6	3.6	9.8	13.7	11.4	15.3	4.6	4.2	4.8	5.4	6.8	5.9	6.4	5.9	7.2	5.7	5.4	4.7	3.8	2.8	3.5	2.8	3.2	24	17.8	2.8	6.6
5/20/07	5.6	4.6	4.8	28.0	24.6	13.3	4.1	6.2	5.3	5.6	5.5	8.9	6.3	5.8	6.6	9.2	6.1	3.7	2.7	2.5	1.9	4.7	9.4	5.3	24	28.0	1.9	7.5
5/21/07	4.7	3.9	2.7	3.6	4.2	5.2	4.7	6.0	5.3	5.3	5.2	5.4	6.4	6.9	5.7	3.9	4.4	5.6	3.8	2.9	3.4	15.3	4.8	5.6	24	15.3	2.7	5.2
5/22/07	10.2	9.3	4.2	6.7	35.3	51.2	9.6	4.6	8.2	6.3	9.4	6.2	6.3	7.9	15.3	3.7	9.0	6.5	4.9	3.8	7.3	4.6	6.1	5.4	24	51.2	3.7	10.1
5/23/07	5.2	4.6	4.2	2.4	2.9	1.7	3.3	5.5	5.8	7.6	7.5	6.8	13.8	8.3	6.4	5.9	5.0	4.5	4.4	4.4	3.5	2.4	2.6	6.6	24	13.8	1.7	5.2
5/24/07	3.7	2.3	3.8	4.0	4.4	4.3	4.7	5.0	5.5	5.6	9.1	7.3	8.1	7.3	8.7	8.8	11.6	9.6	8.9	8.0	8.3	2.9	3.1	1.8	24	11.6	1.8	6.1
5/25/07	1.6	1.6	1.6	1.2	1.3	5.6	5.0	3.3	2.8	3.5	5.3	5.4	4.4	4.4	3.9	3.9	3.7	3.2	3.6	3.9	3.6	3.5	5.4	4.3	24	5.6	1.2	3.6
5/26/07	5.1	4.1	3.9	4.5	4.8	3.8	4.2	4.5	5.1	5.1	5.1	5.1	6.8	6.0	6.7	8.1	8.3	7.7	4.4	2.7	1.1	1.9	3.8	6.5	24	8.3	1.1	5.0
5/27/07	5.6	6.4	5.6	10.1	4.6	3.0	3.3	2.9	4.8	4.6	3.3	3.8	3.6	3.7	4.5	5.4	5.2	5.0	4.5	2.8	2.5	2.3	2.1	1.5	24	10.1	1.5	4.2
5/28/07	2.0	1.9	1.6	1.2	1.1	1.9	2.5	3.5	3.8	3.9	5.0	5.2	6.4	6.0	6.5	4.3	3.7	3.4	3.7	2.8	2.8	2.3	2.5	4.5	24	6.5	1.1	3.4
5/29/07	19.3	5.3	9.6	4.0	5.0	9.2	34.5	4.8	5.5	7.0	6.6	6.8	7.9	8.9	7.0	7.8	4.5	4.9	4.2	3.2	2.2	1.2	1.3	1.3	24	34.5	1.2	7.2
5/30/07	1.2	0.9	1.1	3.1	2.7	3.4	3.6	3.2	3.6	3.8	4.5	3.7	4.2	4.8	4.3	4.2	4.9	4.1	3.8	4.0	4.2	5.1	3.7	3.7	24	5.1	0.9	3.6
5/31/07	3.4	3.4	3.3	2.3	2.7	2.7	4.0	4.7	5.8	6.8	7.6	4.5	4.0	6.0	6.8	6.3	4.8	4.0	4.3	3.5	3.6	2.2	2.4	2.4	24	7.6	2.2	4.2
hr max	19.3	29.9	38.0	28.0	35.3	51.2	34.5	8.0	8.2	16.6	22.8	29.5	20.8	21.9	19.1	18.4	27.4	15.7	11.0	8.3	8.3	15.3	43.9	17.0				
hr min	1.0	0.8	0.8	1.0	0.6	0.8	1.1	1.1	2.8	3.5	3.3	3.7	3.6	3.7	3.9	3.7	3.7	2.6	2.7	1.6	0.8	1.1	1.0	1.1				
average	4.7	4.0	4.6	4.7	5.3	5.7	5.1	4.5	5.3	6.3	7.7	7.8	8.3	8.4	8.3	7.9	7.8	6.5	4.9	3.6	3.1	3.9	4.8	4.7				

monthly max hr	monthly min hr	monthly ave hr
51.2	0.6	5.7
5/22/07	5/2/07	

Validated by: Roger L. Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.18	0.21	0.16	0.19	0.18	0.19	0.21	0.21	0.23	0.20	0.23	0.16	0.21	0.22	0.18	0.03	0.03	0.12	0.23	0.13	0.11	0.16	0.12	0.16	24	0.23	0.03	0.17
5/2/07	0.25	0.30	0.26	0.35	0.25	0.24	0.27	0.42	0.55	0.56	0.58	0.56	0.58	0.52	0.52	0.60	0.61	0.70	0.62	0.41	0.37	0.39	0.42	0.43	24	0.70	0.24	0.45
5/3/07	0.46	0.40	0.42	0.41	0.36	0.34	0.45	0.51	0.52	0.59	0.68	0.73	0.70	0.78	0.81	0.84	0.84	0.84	0.81	0.77	0.76	0.74	0.68	0.53	24	0.84	0.34	0.62
5/4/07	0.57	0.61	0.57	0.59	0.52	0.52	0.37	0.23	0.24	0.24	0.23	0.28	0.23	0.27	0.27	0.29	0.31	0.36	0.34	0.31	0.16	0.24	0.38	0.41	24	0.61	0.16	0.36
5/5/07	0.50	0.63	0.58	0.66	0.70	0.65	0.60	0.59	0.64	0.49	0.64	0.63	0.44	0.30	0.22	0.27	0.31	0.24	0.21	0.23	0.24	0.20	0.30	0.33	24	0.70	0.20	0.44
5/6/07	0.39	0.32	0.30	0.27	0.38	0.24	0.24	0.34	0.31	0.27	0.32	0.16	0.03	0.07	0.18	0.17	0.19	0.17	0.12	0.18	0.14	0.10	0.06	0.17	24	0.39	0.03	0.21
5/7/07	0.11	0.12	0.11	0.18	0.19	0.18	0.18	0.22	0.19	0.19	0.13	0.08	0.10	0.13	0.17	0.15	0.13	0.06	0.07	0.05	0.07	0.13	0.11	0.18	24	0.22	0.05	0.13
5/8/07	0.23	0.36	0.29	0.32	0.35	0.36	0.34	0.39	0.29	0.32	0.30	0.31	0.32	0.30	0.23	0.13	0.24	0.25	0.24	0.19	0.28	0.27	0.25	0.30	24	0.39	0.13	0.29
5/9/07	0.29	0.32	0.27	0.32	0.32	0.37	0.40	0.30	0.31	0.31	0.23	0.12	0.08	0.09	0.08	0.16	0.23	0.22	0.24	0.20	0.11	0.10	0.05	0.18	24	0.40	0.05	0.22
5/10/07	0.13	0.17	0.24	0.17	0.07	0.12	0.20	0.26	0.28	0.31	0.27	0.25	0.23	0.21	0.28	0.21	0.19	0.20	0.22	0.18	0.15	0.15	0.13	0.18	24	0.31	0.07	0.20
5/11/07	0.17	0.08	0.10	0.12	0.13	0.12	0.27	0.28	0.21	0.29	0.37	0.49	0.50	0.45	0.49	0.41	0.25	0.22	0.22	0.20	0.24	0.22	0.23	0.23	24	0.50	0.08	0.26
5/12/07	0.23	0.22	0.20	0.20	0.22	0.22	0.26	0.32	0.35	0.36	0.45	0.42	0.34	0.43	0.54	0.47	0.39	0.36	0.31	0.25	0.29	0.23	0.21	0.13	24	0.54	0.13	0.31
5/13/07	0.04	0.03	0.11	0.18	0.23	0.23	0.29	0.27	0.32	0.28	0.32	0.26	0.39	0.33	0.35	0.29	0.22	0.14	0.14	0.12	0.06	0.03	0.08	0.10	24	0.39	0.03	0.20
5/14/07	0.08	0.07	0.19	0.16	0.16	0.24	0.38	0.41	0.50	0.63	0.58	0.66	0.70	0.65	0.60	0.59	0.64	0.49	0.64	0.63	0.44	0.30	0.22	0.27	24	0.70	0.07	0.43
5/15/07	0.31	0.24	0.21	0.23	0.24	0.20	0.30	0.33	0.39	0.32	0.30	0.27	0.38	0.24	0.24	0.34	0.31	0.27	0.32	0.16	0.03	0.07	0.18	0.17	24	0.39	0.03	0.25
5/16/07	0.19	0.17	0.12	0.18	0.14	0.10	0.06	0.17	0.11	0.12	0.11	0.18	0.19	0.18	0.18	0.22	0.19	0.19	0.13	0.08	0.10	0.13	0.17	0.15	24	0.22	0.06	0.15
5/17/07	0.13	0.06	0.07	0.05	0.07	0.13	0.11	0.18	0.23	0.36	0.29	0.32	0.35	0.36	0.34	0.39	0.29	0.32	0.30	0.31	0.32	0.30	0.23	0.13	24	0.39	0.05	0.24
5/18/07	0.24	0.25	0.24	0.19	0.28	0.27	0.25	0.30	0.29	0.32	0.27	0.32	0.32	0.37	0.40	0.30	0.31	0.31	0.23	0.12	0.08	0.09	0.08	0.16	24	0.40	0.08	0.25
5/19/07	0.23	0.22	0.24	0.20	0.11	0.10	0.22	0.25	0.30	0.29	0.30	0.29	0.25	0.36	0.29	0.32	0.23	0.21	0.24	0.20	0.16	0.30	0.24	0.28	24	0.36	0.10	0.24
5/20/07	0.26	0.23	0.19	0.15	0.11	0.17	0.22	0.18	0.22	0.27	0.28	0.29	0.27	0.34	0.37	0.32	0.23	0.28	0.19	0.14	0.21	0.42	0.56	0.54	24	0.56	0.11	0.27
5/21/07	0.34	0.44	0.27	0.35	0.29	0.22	0.24	0.18	0.30	0.32	0.33	0.46	0.41	0.35	0.32	0.39	0.41	0.42	0.35	0.36	0.39	0.35	0.32	0.15	24	0.46	0.15	0.33
5/22/07	0.10	0.10	0.10	0.08	0.15	0.12	0.20	0.18	0.28	0.30	0.23	0.27	0.23	0.36	0.38	0.33	0.32	0.32	0.40	0.35	0.28	0.30	0.25	0.19	24	0.40	0.08	0.24
5/23/07	0.16	0.14	0.19	0.23	0.15	0.23	0.28	0.35	0.25	0.25	0.30	0.35	0.31	0.33	0.50	0.56	0.66	0.56	0.46	0.40	0.36	0.28	0.23	0.20	24	0.66	0.14	0.32
5/24/07	0.19	0.21	0.25	0.33	0.30	0.31	0.27	0.39	0.38	0.36	0.40	0.33	0.28	0.32	0.22	0.24	0.25	0.26	0.17	0.07	0.06	0.10	0.13	0.15	24	0.40	0.06	0.25
5/25/07	0.20	0.20	0.23	0.22	0.29	0.40	0.53	0.55	0.56	0.58	0.38	0.34	0.43	0.52	0.52	0.59	0.56	0.64	0.53	0.37	0.59	0.55	0.31	0.31	24	0.64	0.20	0.43
5/26/07	0.35	0.45	0.51	0.58	0.56	0.62	0.51	0.55	0.51	0.57	0.61	0.60	0.55	0.47	0.35	0.32	0.33	0.33	0.31	0.15	0.08	0.09	0.06	0.03	24	0.62	0.03	0.40
5/27/07	0.02	0.02	0.03	0.07	0.04	0.10	0.12	0.15	0.18	0.20	0.24	0.21	0.26	0.33	0.35	0.36	0.31	0.28	0.29	0.22	0.20	0.20	0.19	0.21	24	0.36	0.02	0.19
5/28/07	0.31	0.33	0.31	0.35	0.37	0.34	0.31	0.39	0.35	0.35	0.37	0.35	0.47	0.41	0.34	0.23	0.25	0.33	0.38	0.35	0.32	0.33	0.39	0.25	24	0.47	0.23	0.34
5/29/07	0.44	0.22	0.10	0.11	0.10	0.07	0.06	0.15	0.27	0.16	0.21	0.21	0.24	0.27	0.30	0.29	0.24	0.27	0.23	0.17	0.11	0.13	0.10	0.09	24	0.44	0.06	0.19
5/30/07	0.11	0.12	0.18	0.36	0.34	0.33	0.43	0.47	0.46	0.56	0.55	0.53	0.60	0.59	0.56	0.52	0.46	0.40	0.43	0.40	0.36	0.30	0.35	0.34	24	0.60	0.11	0.41
5/31/07	0.28	0.26	0.24	0.16	0.24	0.22	0.27	0.33	0.33	0.38	0.27	0.22	0.27	0.29	0.24	0.24	0.41	0.38	0.33	0.23	0.26	0.23	0.21	0.32	24	0.41	0.16	0.28
hr max	0.57	0.63	0.58	0.66	0.70	0.65	0.60	0.59	0.64	0.63	0.68	0.73	0.70	0.78	0.81	0.84	0.84	0.84	0.81	0.77	0.76	0.74	0.68	0.54				
hr min	0.02	0.02	0.03	0.05	0.04	0.07	0.06	0.15	0.11	0.12	0.11	0.08	0.03	0.07	0.08	0.03	0.03	0.06	0.07	0.05	0.03	0.03	0.05	0.03				
average	0.24	0.24	0.23	0.26	0.25	0.26	0.29	0.32	0.33	0.35	0.35	0.34	0.34	0.35	0.35	0.34	0.33	0.33	0.31	0.26	0.24	0.24	0.23	0.23				

monthly max hr	monthly min hr	monthly ave hr
0.84	0.02	0.29
5/3/07	5/27/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.54	0.53	0.45	0.68	0.59	0.60	0.51	0.36	0.41	0.30	0.61	0.31	0.42	0.30	0.20	-0.03	-0.03	0.20	0.26	0.14	0.12	0.13	0.12	0.12	24	0.68	-0.03	0.33
5/2/07	0.21	0.42	0.35	0.38	0.37	0.34	0.32	0.42	0.40	0.40	0.39	0.33	0.42	0.36	0.37	0.42	0.53	0.44	0.52	0.35	0.39	0.41	0.45	0.44	24	0.53	0.21	0.39
5/3/07	0.50	0.49	0.55	0.51	0.40	0.48	0.47	0.43	0.53	0.41	0.46	0.47	0.36	0.43	0.46	0.71	0.56	0.66	0.58	0.69	0.60	0.61	0.59	0.44	24	0.71	0.36	0.52
5/4/07	0.47	0.46	0.46	0.50	0.44	0.48	0.28	0.19	0.15	0.32	0.19	0.31	0.14	0.24	0.17	0.10	0.12	0.16	0.19	0.19	0.31	0.39	0.53	0.56	24	0.56	0.10	0.31
5/5/07	0.65	0.78	0.73	0.81	0.85	0.80	0.75	0.74	0.79	0.64	0.79	0.78	0.59	0.45	0.37	0.42	0.46	0.39	0.36	0.38	0.39	0.35	0.45	0.48	24	0.85	0.35	0.59
5/6/07	0.54	0.47	0.45	0.42	0.53	0.39	0.39	0.49	0.46	0.42	0.47	0.31	0.18	0.22	0.33	0.32	0.34	0.32	0.27	0.33	0.29	0.25	0.21	0.32	24	0.54	0.18	0.36
5/7/07	0.26	0.27	0.26	0.33	0.34	0.33	0.33	0.37	0.34	0.34	0.28	0.23	0.25	0.28	0.32	0.30	0.28	0.21	0.22	0.20	0.22	0.28	0.26	0.33	24	0.37	0.20	0.28
5/8/07	0.38	0.51	0.44	0.47	0.50	0.51	0.49	0.54	0.44	0.47	0.45	0.46	0.47	0.45	0.38	0.28	0.39	0.40	0.39	0.34	0.43	0.42	0.40	0.45	24	0.54	0.28	0.44
5/9/07	0.44	0.47	0.42	0.47	0.47	0.52	0.55	0.45	0.46	0.46	0.38	0.27	0.23	0.24	0.23	0.31	0.38	0.37	0.39	0.35	0.26	0.25	0.05	0.51	24	0.55	0.05	0.37
5/10/07	0.27	0.28	0.34	0.58	0.61	0.59	0.44	0.56	0.43	0.50	0.51	0.30	0.21	0.24	0.38	0.24	0.26	0.33	0.29	0.25	0.23	0.15	0.19	0.19	24	0.61	0.15	0.35
5/11/07	0.20	0.15	0.17	0.35	0.40	0.11	0.14	0.20	0.26	0.24	0.31	0.37	0.38	0.20	0.31	0.31	0.12	0.19	0.12	0.25	0.24	0.26	0.25	0.19	24	0.40	0.11	0.24
5/12/07	0.23	0.25	0.18	0.20	0.20	0.20	0.25	0.18	0.30	0.28	0.30	0.32	0.23	0.27	0.43	0.33	0.30	0.36	0.27	0.20	0.22	0.18	0.16	0.21	24	0.43	0.16	0.25
5/13/07	0.11	0.23	0.29	0.62	0.69	0.68	0.58	0.37	0.50	0.34	0.34	0.17	0.39	0.61	0.61	0.47	0.61	0.43	0.38	0.37	0.22	0.17	0.22	0.27	24	0.69	0.11	0.40
5/14/07	0.11	0.12	0.42	0.60	0.56	0.84	0.95	1.00	1.09	1.33	1.05	1.19	1.16	0.99	1.00	1.20	1.15	1.03	1.04	1.20	0.85	0.70	0.59	0.68	24	1.33	0.11	0.87
5/15/07	0.69	0.65	0.60	0.54	0.56	0.50	0.58	0.57	0.72	0.56	0.50	0.53	0.82	0.41	0.40	0.80	0.67	0.58	0.51	0.48	0.51	0.58	0.61	0.60	24	0.82	0.40	0.58
5/16/07	0.64	0.69	0.67	0.70	0.39	0.17	0.15	0.14	0.11	0.12	0.28	0.19	0.37	0.25	0.24	0.41	0.32	0.44	0.20	0.13	0.12	0.26	0.17	0.13	24	0.70	0.11	0.30
5/17/07	0.02	0.13	0.09	-0.15	-0.06	0.18	0.18	0.14	0.00	0.28	0.15	0.22	0.29	0.23	0.21	0.33	0.25	0.32	0.41	0.40	0.43	0.41	0.40	0.12	24	0.43	-0.15	0.21
5/18/07	0.10	0.27	0.18	0.10	0.44	0.32	0.47	0.32	0.47	0.39	0.29	0.31	0.32	0.39	0.50	0.39	0.30	0.39	0.33	0.38	0.04	0.10	0.00	0.25	24	0.50	0.00	0.29
5/19/07	0.40	0.25	0.24	0.35	0.19	0.20	0.45	0.29	0.38	0.26	0.25	0.39	0.18	0.41	0.29	0.42	0.17	0.19	0.22	0.27	0.24	0.28	0.22	0.31	24	0.45	0.17	0.29
5/20/07	0.27	0.21	0.24	0.19	0.22	0.25	0.23	0.25	0.23	0.25	0.28	0.26	0.05	0.17	0.34	0.38	0.18	0.26	0.18	0.18	0.28	0.41	0.96	1.12	24	1.12	0.05	0.31
5/21/07	0.41	0.40	0.09	0.37	0.51	0.52	0.46	0.19	0.29	0.19	0.25	0.39	0.33	0.39	0.35	0.49	0.42	0.38	0.43	0.49	0.44	0.51	0.77	0.54	24	0.77	0.09	0.40
5/22/07	0.14	0.11	0.11	0.07	0.21	0.28	0.45	0.48	0.57	0.63	0.49	0.46	0.39	0.69	0.64	0.60	0.58	0.57	0.82	0.71	0.55	0.55	0.53	0.49	24	0.82	0.07	0.46
5/23/07	0.45	0.45	0.63	0.64	0.56	0.79	0.77	0.65	0.45	0.49	0.67	0.76	0.64	0.71	1.00	1.12	1.37	1.26	0.99	1.03	0.98	0.83	0.68	0.70	24	1.37	0.45	0.78
5/24/07	0.69	0.74	0.77	0.83	0.65	0.69	0.56	0.74	0.65	0.79	0.72	0.67	0.64	0.62	0.45	0.56	0.63	0.54	0.37	0.22	0.13	0.13	0.20	0.13	24	0.83	0.13	0.55
5/25/07	0.13	0.10	0.21	0.32	0.34	0.41	0.64	0.55	0.47	0.51	0.34	0.38	0.33	0.45	0.54	0.51	0.52	0.58	0.45	0.34	0.58	0.54	0.50	0.76	24	0.76	0.10	0.44
5/26/07	0.98	1.27	1.34	1.36	1.25	1.47	1.20	1.13	1.04	1.09	1.09	1.01	0.90	0.85	0.63	0.46	0.73	0.62	0.50	0.44	0.36	0.31	0.14	0.12	24	1.47	0.12	0.85
5/27/07	0.13	0.13	0.13	0.13	0.09	0.06	0.09	0.12	0.12	0.28	0.15	0.17	0.13	0.18	0.20	0.38	0.31	0.25	0.19	0.18	0.19	0.18	0.27	0.28	24	0.38	0.06	0.18
5/28/07	0.29	0.36	0.36	0.41	0.37	0.39	0.34	0.35	0.33	0.33	0.39	0.17	0.48	0.41	0.46	0.30	0.32	0.28	0.36	0.35	0.35	0.37	0.37	0.34	24	0.48	0.17	0.35
5/29/07	0.92	0.46	0.24	0.17	0.12	0.07	0.25	0.32	0.57	0.40	0.55	0.48	0.48	0.71	0.53	0.74	0.45	0.53	0.54	0.47	0.44	0.58	0.50	0.49	24	0.92	0.07	0.46
5/30/07	0.45	0.58	0.57	0.67	0.57	0.62	0.70	0.80	0.90	1.15	1.12	1.07	1.15	1.35	1.10	1.10	1.00	0.86	0.99	0.90	0.92	0.79	0.82	0.87	24	1.35	0.45	0.88
5/31/07	0.71	0.68	0.62	0.62	0.63	0.60	0.63	0.72	0.62	0.68	0.29	0.23	0.23	0.26	0.22	0.14	0.25	0.29	0.36	0.28	0.28	0.28	0.25	0.27	24	0.72	0.14	0.42
hr max	0.98	1.27	1.34	1.36	1.25	1.47	1.20	1.13	1.09	1.33	1.12	1.19	1.16	1.35	1.10	1.20	1.37	1.26	1.04	1.20	0.98	0.83	0.96	1.12				
hr min	0.02	0.10	0.09	-0.15	-0.06	0.06	0.09	0.12	0.00	0.12	0.15	0.17	0.05	0.17	0.17	-0.03	-0.03	0.16	0.12	0.13	0.04	0.10	0.00	0.12				
average	0.40	0.42	0.41	0.46	0.45	0.46	0.47	0.45	0.47	0.48	0.46	0.44	0.42	0.44	0.44	0.47	0.45	0.45	0.42	0.40	0.37	0.38	0.38	0.41				

monthly max hr	monthly min hr	monthly ave hr
1.47	-0.15	0.43
5/26/07	5/17/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
mps
100VWS

data
channel
mps

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
5/1/07	0.58	0.58	0.44	0.61	0.51	0.55	0.45	0.14	0.11	0.01	0.46	0.14	0.24	0.11	-0.05	-0.42	-0.42	-0.08	0.02	0.07	0.17	0.25	0.23	0.05	24	0.61	-0.42	0.20
5/2/07	-0.24	-0.24	-0.24	0.25	0.49	0.45	0.35	0.30	0.22	0.31	0.14	-0.03	0.14	0.05	-0.09	-0.01	0.20	0.45	0.54	0.54	0.60	0.77	0.83	0.60	24	0.83	-0.24	0.27
5/3/07	0.43	-0.13	-0.32	-0.31	-0.40	-0.46	-0.13	0.09	0.28	0.00	0.02	0.07	-0.09	-0.11	0.33	0.67	0.59	0.62	0.64	0.82	0.70	0.70	0.22	-0.09	24	0.82	-0.46	0.17
5/4/07	-0.31	-0.29	0.19	0.15	-0.23	-0.03	0.19	0.43	0.02	-0.13	-0.22	-0.07	-0.34	-0.15	-0.33	-0.33	-0.32	-0.21	-0.09	-0.14	-0.18	-0.10	0.04	0.08	24	0.43	-0.34	-0.10
5/5/07	0.17	0.30	0.25	0.33	0.36	0.31	0.26	0.26	0.31	0.16	0.30	0.30	0.10	-0.04	-0.11	-0.07	-0.03	-0.09	-0.13	-0.11	-0.10	-0.14	-0.03	0.00	24	0.36	-0.14	0.11
5/6/07	0.06	-0.01	-0.03	-0.07	0.05	-0.10	-0.10	0.01	-0.02	-0.06	-0.01	-0.17	-0.31	-0.27	-0.16	-0.17	-0.14	-0.17	-0.21	-0.16	-0.20	-0.24	-0.28	-0.17	24	0.06	-0.31	-0.12
5/7/07	-0.22	-0.21	-0.23	-0.16	-0.14	-0.16	-0.15	-0.12	-0.14	-0.15	-0.21	-0.25	-0.23	-0.20	-0.16	-0.18	-0.21	-0.28	-0.27	-0.28	-0.26	-0.21	-0.22	-0.15	24	-0.12	-0.28	-0.20
5/8/07	-0.11	0.02	-0.04	-0.02	0.02	0.03	0.01	0.06	-0.04	-0.02	-0.03	-0.03	-0.01	-0.03	-0.11	-0.20	-0.10	-0.08	-0.09	-0.15	-0.06	-0.06	-0.09	-0.03	24	0.06	-0.20	-0.05
5/9/07	-0.04	-0.02	-0.06	-0.01	-0.01	0.04	0.06	-0.03	-0.02	-0.03	-0.11	-0.22	-0.26	-0.24	-0.25	-0.18	-0.11	-0.11	-0.09	-0.14	-0.22	-0.23	-0.16	-0.16	24	0.06	-0.26	-0.11
5/10/07	-0.29	-0.33	-0.34	-0.72	-0.96	-0.62	-0.57	-0.44	-0.56	-0.47	-0.31	-0.58	-0.77	-0.77	-0.64	-0.71	-0.67	-0.63	-0.48	-0.25	-0.06	-0.27	-0.40	-0.35	24	-0.06	-0.96	-0.51
5/11/07	-0.24	-0.47	-0.45	-0.41	-0.34	-0.31	-0.26	-0.35	-0.43	-0.47	-0.22	-0.30	-0.16	-0.58	-0.46	-0.51	-0.69	-0.57	-0.57	-0.16	-0.13	-0.15	-0.17	-0.25	24	-0.13	-0.69	-0.36
5/12/07	-0.16	-0.10	-0.07	-0.10	-0.14	-0.10	-0.12	-0.06	-0.32	-0.20	-0.05	-0.12	-0.16	-0.12	0.09	-0.02	-0.14	0.03	0.00	-0.01	0.15	-0.04	-0.12	0.04	24	0.15	-0.32	-0.08
5/13/07	-0.28	-0.16	0.25	0.15	0.12	0.31	0.31	0.11	0.02	-0.33	-0.34	-0.49	-0.18	-0.05	0.02	-0.36	-0.27	-0.47	-0.43	-0.43	-0.38	-0.44	-0.54	-0.51	24	0.31	-0.54	-0.18
5/14/07	-0.46	-0.49	-0.28	-0.16	0.14	0.16	0.16	0.21	0.54	0.76	0.55	0.81	0.59	0.39	0.43	0.85	0.82	0.87	0.84	0.99	0.74	0.76	0.65	0.70	24	0.99	-0.49	0.44
5/15/07	0.71	0.76	0.71	0.53	0.46	0.52	0.42	0.13	0.36	0.13	0.05	0.16	0.47	0.14	0.06	0.68	0.56	0.43	0.26	0.44	0.40	0.41	0.45	0.47	24	0.76	0.05	0.40
5/16/07	0.49	0.44	0.23	0.50	0.34	0.01	0.11	0.03	-0.02	0.07	0.25	0.12	0.40	0.05	0.10	0.29	0.33	0.42	0.13	0.09	0.11	0.00	-0.02	-0.17	24	0.50	-0.17	0.18
5/17/07	-0.31	0.62	-0.41	-0.14	-0.59	-1.82	-1.79	-1.41	-1.10	-0.88	-1.22	-0.76	-0.72	-0.75	-0.91	-0.66	-1.18	-1.25	-0.22	0.41	0.44	0.41	-1.29	-1.16	24	0.62	-1.82	-0.70
5/18/07	0.44	0.76	0.63	0.73	0.73	0.77	0.70	0.32	0.15	0.01	-0.06	-0.13	-0.05	0.17	0.01	-0.15	0.06	0.30	-0.79	-2.45	-0.92	-0.67	0.62	0.24	24	0.77	-2.45	0.06
5/19/07	0.13	0.10	0.47	0.44	0.41	0.31	0.51	0.42	0.41	0.08	0.18	0.51	0.18	0.55	0.32	0.58	0.30	0.36	0.40	0.54	0.47	0.56	0.46	0.56	24	0.58	0.08	0.39
5/20/07	0.44	0.36	-0.58	-0.02	0.05	0.20	0.28	0.28	0.21	0.30	0.43	0.33	0.03	0.18	0.45	0.37	0.27	0.46	0.50	0.61	0.59	-0.02	0.60	1.34	24	1.34	-0.58	0.32
5/21/07	-0.46	-0.05	-1.84	0.94	1.00	0.86	0.82	-0.29	-0.05	-0.56	-0.11	0.00	-0.43	-0.07	-0.49	0.15	-0.19	-0.25	-0.83	0.13	-0.25	-0.14	0.40	0.31	24	1.00	-1.84	-0.06
5/22/07	-0.01	0.02	0.25	0.09	0.19	-0.12	0.05	0.21	0.18	0.26	0.25	0.24	0.06	0.50	0.32	0.15	0.30	0.21	0.38	0.31	0.24	0.23	0.28	0.19	24	0.50	-0.12	0.20
5/23/07	0.17	0.18	0.41	0.46	0.37	0.59	0.52	0.34	0.12	0.17	0.44	0.54	0.40	0.31	0.43	0.54	0.79	0.67	0.53	0.61	0.68	0.51	0.42	0.46	24	0.79	0.12	0.44
5/24/07	0.42	0.60	0.56	0.55	0.25	0.33	0.26	0.42	0.23	0.28	0.05	-0.07	-0.21	-0.25	-0.33	-0.19	0.01	-0.09	-0.30	-0.29	-0.36	-0.28	-0.34	-0.30	24	0.60	-0.36	0.04
5/25/07	0.13	0.20	0.38	0.51	-0.46	-0.74	0.40	0.76	0.54	0.11	-0.02	-0.45	-0.43	-0.12	0.56	0.21	0.21	1.12	-0.04	0.58	0.87	0.72	0.89	0.72	24	1.12	-0.74	0.28
5/26/07	0.81	1.05	1.13	0.95	0.78	1.10	0.89	0.72	0.69	0.81	0.70	0.56	0.55	0.56	0.29	0.13	0.61	0.57	0.32	0.27	0.20	0.06	0.14	0.00	24	1.13	0.00	0.58
5/27/07	0.04	-0.01	0.01	-0.01	0.07	-0.06	0.23	0.25	-0.02	0.15	0.22	0.21	0.19	0.19	0.23	0.48	0.50	0.44	0.38	0.40	0.46	0.65	0.36	-0.18	24	0.65	-0.18	0.22
5/28/07	-0.11	-0.17	0.21	1.08	1.11	1.04	0.88	0.48	-0.29	-1.15	-1.04	-0.66	0.36	0.80	0.79	-0.81	-0.39	0.51	0.30	-0.07	-0.08	0.24	0.85	-0.20	24	1.11	-1.15	0.15
5/29/07	0.70	0.34	0.20	0.27	0.20	0.06	0.21	0.13	0.28	0.13	0.33	0.14	0.16	0.54	0.18	0.51	0.18	0.36	0.51	0.39	0.42	0.52	0.46	0.37	24	0.70	0.06	0.32
5/30/07	0.00	0.23	0.51	0.64	0.53	0.51	0.47	0.63	0.64	0.63	0.58	0.61	0.58	0.82	0.55	0.41	0.42	0.27	0.52	0.55	0.61	0.46	0.48	0.65	24	0.82	0.00	0.51
5/31/07	0.56	0.54	0.49	0.57	0.62	0.58	0.47	0.63	0.47	0.38	0.10	-0.14	0.26	0.18	0.02	0.04	0.28	0.45	0.49	0.34	0.07	-0.24	0.37	0.69	24	0.69	-0.24	0.34
hr max	0.81	1.05	1.13	1.08	1.11	1.10	0.89	0.76	0.69	0.81	0.70	0.81	0.59	0.82	0.79	0.85	0.82	1.12	0.84	0.99	0.87	0.77	0.89	1.34				
hr min	-0.46	-0.49	-1.84	-0.72	-0.96	-1.82	-1.79	-1.41	-1.10	-1.15	-1.22	-0.76	-0.77	-0.77	-0.91	-0.81	-1.18	-1.25	-0.83	-2.45	-0.92	-0.67	-1.29	-1.16				
average	0.10	0.14	0.08	0.25	0.18	0.14	0.19	0.15	0.09	0.01	0.04	0.01	0.01	0.06	0.04	0.04	0.05	0.14	0.07	0.11	0.15	0.13	0.16	0.12				

monthly max hr	monthly min hr	monthly ave hr
1.34	-2.45	0.10
5/20/07	5/18/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.34	0.38	0.27	0.31	0.27	0.29	0.34	0.47	0.55	0.58	0.58	0.61	0.63	0.58	0.53	0.52	0.52	0.38	0.30	0.16	0.12	0.14	0.16	0.17	24	0.63	0.12	0.38
5/2/07	0.19	0.27	0.27	0.31	0.24	0.24	0.30	0.44	0.52	0.55	0.61	0.62	0.67	0.62	0.62	0.62	0.61	0.61	0.53	0.37	0.31	0.40	0.43	0.42	24	0.67	0.19	0.45
5/3/07	0.47	0.41	0.38	0.36	0.31	0.33	0.49	0.54	0.59	0.64	0.69	0.72	0.72	0.75	0.70	0.70	0.69	0.68	0.63	0.62	0.63	0.62	0.57	0.55	24	0.75	0.31	0.57
5/4/07	0.52	0.53	0.52	0.55	0.49	0.52	0.41	0.33	0.30	0.43	0.40	0.45	0.48	0.48	0.47	0.38	0.28	0.23	0.16	0.17	0.28	0.39	0.65	0.67	24	0.67	0.16	0.42
5/5/07	0.71	0.73	0.70	0.73	0.81	0.76	0.70	0.67	0.68	0.62	0.67	0.69	0.52	0.43	0.34	0.33	0.33	0.29	0.28	0.27	0.30	0.25	0.41	0.42	24	0.81	0.25	0.53
5/6/07	0.53	0.55	0.58	0.60	0.61	0.48	0.53	0.49	0.51	0.42	0.40	0.23	0.10	0.10	0.14	0.15	0.16	0.14	0.13	0.15	0.12	0.11	0.15	0.33	24	0.61	0.10	0.32
5/7/07	0.42	0.47	0.52	0.56	0.58	0.57	0.49	0.52	0.45	0.35	0.22	0.13	0.13	0.18	0.21	0.17	0.18	0.19	0.18	0.14	0.11	0.19	0.29	0.46	24	0.58	0.11	0.32
5/8/07	0.54	0.62	0.65	0.65	0.67	0.68	0.66	0.65	0.61	0.58	0.46	0.36	0.34	0.31	0.28	0.32	0.38	0.35	0.30	0.26	0.30	0.31	0.39	0.49	24	0.68	0.26	0.47
5/9/07	0.49	0.53	0.52	0.56	0.58	0.59	0.62	0.56	0.54	0.43	0.34	0.19	0.17	0.19	0.15	0.24	0.45	0.52	0.58	0.41	0.36	0.15	0.11	0.12	24	0.62	0.11	0.39
5/10/07	0.13	0.12	0.10	0.16	0.16	0.23	0.42	0.55	0.58	0.62	0.60	0.59	0.62	0.59	0.53	0.53	0.48	0.45	0.37	0.34	0.26	0.29	0.32	0.30	24	0.62	0.10	0.39
5/11/07	0.24	0.15	0.16	0.18	0.22	0.25	0.45	0.47	0.45	0.58	0.56	0.57	0.58	0.58	0.54	0.53	0.41	0.35	0.30	0.33	0.51	0.55	0.52	0.52	24	0.58	0.15	0.42
5/12/07	0.51	0.50	0.48	0.45	0.41	0.47	0.55	0.58	0.58	0.59	0.65	0.58	0.61	0.61	0.61	0.56	0.52	0.50	0.48	0.43	0.50	0.40	0.37	0.22	24	0.65	0.22	0.51
5/13/07	0.09	0.06	0.11	0.14	0.18	0.18	0.32	0.40	0.47	0.49	0.49	0.50	0.57	0.56	0.56	0.50	0.43	0.29	0.26	0.12	0.08	0.06	0.12	0.12	24	0.57	0.06	0.30
5/14/07	0.12	0.15	0.37	0.22	0.28	0.39	0.65	0.67	0.71	0.73	0.70	0.73	0.81	0.76	0.70	0.67	0.68	0.62	0.67	0.69	0.52	0.43	0.34	0.33	24	0.81	0.12	0.54
5/15/07	0.33	0.29	0.28	0.27	0.30	0.25	0.41	0.42	0.53	0.55	0.58	0.60	0.61	0.48	0.53	0.49	0.51	0.42	0.40	0.23	0.10	0.10	0.14	0.15	24	0.61	0.10	0.37
5/16/07	0.16	0.14	0.13	0.15	0.12	0.11	0.15	0.33	0.42	0.47	0.52	0.56	0.58	0.57	0.49	0.52	0.45	0.35	0.22	0.13	0.13	0.18	0.21	0.17	24	0.58	0.11	0.30
5/17/07	0.18	0.19	0.18	0.14	0.11	0.19	0.29	0.46	0.54	0.62	0.65	0.65	0.67	0.68	0.66	0.65	0.61	0.58	0.46	0.36	0.34	0.31	0.28	0.32	24	0.68	0.11	0.42
5/18/07	0.38	0.35	0.30	0.26	0.30	0.31	0.39	0.49	0.49	0.53	0.52	0.56	0.58	0.59	0.62	0.56	0.54	0.43	0.34	0.19	0.17	0.19	0.15	0.24	24	0.62	0.15	0.40
5/19/07	0.45	0.52	0.58	0.41	0.36	0.15	0.41	0.49	0.57	0.58	0.62	0.60	0.62	0.62	0.64	0.62	0.56	0.55	0.54	0.48	0.39	0.50	0.53	0.54	24	0.64	0.15	0.51
5/20/07	0.43	0.34	0.33	0.27	0.21	0.30	0.39	0.32	0.35	0.41	0.43	0.55	0.54	0.48	0.53	0.48	0.41	0.40	0.33	0.20	0.28	0.48	0.67	0.64	24	0.67	0.20	0.41
5/21/07	0.55	0.67	0.51	0.47	0.39	0.33	0.32	0.37	0.50	0.55	0.56	0.61	0.62	0.61	0.61	0.56	0.59	0.62	0.60	0.58	0.56	0.53	0.46	0.26	24	0.67	0.26	0.52
5/22/07	0.14	0.13	0.17	0.18	0.27	0.25	0.27	0.29	0.34	0.40	0.41	0.46	0.43	0.47	0.44	0.37	0.33	0.32	0.44	0.39	0.31	0.30	0.28	0.28	24	0.47	0.13	0.32
5/23/07	0.24	0.20	0.28	0.28	0.23	0.26	0.40	0.46	0.41	0.45	0.51	0.55	0.54	0.53	0.63	0.68	0.71	0.70	0.61	0.54	0.44	0.33	0.27	0.28	24	0.71	0.20	0.44
5/24/07	0.22	0.29	0.32	0.42	0.41	0.39	0.41	0.49	0.49	0.57	0.52	0.56	0.53	0.52	0.51	0.49	0.46	0.38	0.26	0.13	0.07	0.12	0.11	0.12	24	0.57	0.07	0.37
5/25/07	0.18	0.24	0.26	0.29	0.41	0.56	0.60	0.60	0.58	0.62	0.47	0.55	0.69	0.71	0.76	0.79	0.75	0.66	0.56	0.40	0.60	0.61	0.44	0.46	24	0.79	0.18	0.53
5/26/07	0.57	0.70	0.76	0.70	0.69	0.72	0.67	0.65	0.66	0.64	0.62	0.64	0.62	0.57	0.55	0.52	0.50	0.43	0.40	0.19	0.09	0.09	0.08	0.04	24	0.76	0.04	0.50
5/27/07	0.03	0.03	0.07	0.11	0.07	0.11	0.16	0.20	0.25	0.30	0.35	0.34	0.38	0.45	0.44	0.46	0.50	0.44	0.44	0.38	0.33	0.29	0.23	0.33	24	0.50	0.03	0.28
5/28/07	0.41	0.46	0.45	0.48	0.43	0.43	0.47	0.57	0.61	0.68	0.72	0.68	0.71	0.71	0.62	0.54	0.53	0.50	0.51	0.49	0.41	0.43	0.52	0.48	24	0.72	0.41	0.54
5/29/07	0.56	0.37	0.19	0.16	0.15	0.17	0.23	0.27	0.34	0.31	0.38	0.44	0.50	0.45	0.51	0.47	0.38	0.39	0.34	0.22	0.15	0.17	0.15	0.15	24	0.56	0.15	0.31
5/30/07	0.16	0.16	0.17	0.27	0.28	0.30	0.36	0.46	0.51	0.59	0.66	0.59	0.68	0.64	0.65	0.61	0.54	0.50	0.50	0.48	0.47	0.45	0.45	0.45	24	0.68	0.16	0.46
5/31/07	0.42	0.40	0.37	0.32	0.39	0.36	0.45	0.52	0.56	0.63	0.55	0.48	0.49	0.53	0.49	0.47	0.59	0.56	0.51	0.39	0.42	0.32	0.35	0.44	24	0.63	0.32	0.46
hr max	0.71	0.73	0.76	0.73	0.81	0.76	0.70	0.67	0.71	0.73	0.72	0.73	0.81	0.76	0.76	0.79	0.75	0.70	0.67	0.69	0.63	0.62	0.67	0.67				
hr min	0.03	0.03	0.07	0.11	0.07	0.11	0.15	0.20	0.25	0.30	0.22	0.13	0.10	0.10	0.14	0.15	0.16	0.14	0.13	0.12	0.07	0.06	0.08	0.04				
average	0.35	0.35	0.35	0.35	0.35	0.36	0.43	0.48	0.51	0.53	0.53	0.53	0.54	0.53	0.52	0.50	0.49	0.45	0.41	0.33	0.31	0.31	0.33	0.34				

monthly max hr	monthly min hr	monthly ave hr
0.81	0.03	0.42
5/5/07	5/27/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.42	0.48	0.36	0.18	0.19	0.20	0.30	0.66	0.83	0.91	1.07	1.13	1.08	1.09	1.00	0.95	0.95	0.75	0.49	0.10	0.03	0.00	0.13	0.04	24	1.13	0.00	0.56
5/2/07	0.19	0.29	0.31	0.36	0.23	0.23	0.38	0.75	0.86	0.96	1.10	1.10	1.18	1.14	1.06	1.05	1.02	0.87	0.73	0.45	0.45	0.55	0.55	0.52	24	1.18	0.19	0.68
5/3/07	0.59	0.46	0.42	0.38	0.39	0.33	0.55	0.76	0.95	1.03	1.19	1.18	1.11	1.16	1.15	1.06	1.06	1.01	0.89	0.94	0.97	0.90	0.83	0.75	24	1.19	0.33	0.84
5/4/07	0.71	0.74	0.74	0.75	0.67	0.61	0.54	0.36	0.43	0.75	0.72	0.85	0.92	0.84	0.85	0.64	0.40	0.24	0.17	0.21	0.34	0.46	0.87	0.97	24	0.97	0.17	0.62
5/5/07	1.03	1.08	1.00	1.18	1.18	1.13	0.98	1.02	0.97	0.90	0.93	0.97	0.70	0.55	0.40	0.35	0.39	0.32	0.29	0.26	0.33	0.32	0.59	0.71	24	1.18	0.26	0.73
5/6/07	0.87	0.96	1.06	1.13	1.13	0.73	0.97	0.94	0.88	0.86	0.59	0.24	0.09	0.09	0.08	0.09	0.08	0.07	0.08	0.14	0.17	0.15	0.20	0.54	24	1.13	0.07	0.51
5/7/07	0.68	0.83	0.91	0.93	1.11	1.01	0.99	1.06	0.96	0.69	0.35	0.14	0.07	0.20	0.13	0.04	0.20	0.06	0.10	0.17	0.18	0.16	0.27	0.58	24	1.11	0.04	0.49
5/8/07	0.67	0.89	0.91	1.05	1.05	1.08	0.99	0.95	0.89	0.76	0.55	0.38	0.30	0.27	0.35	0.42	0.41	0.34	0.34	0.21	0.30	0.27	0.42	0.55	24	1.08	0.21	0.60
5/9/07	0.83	0.87	0.88	0.90	0.95	1.05	1.01	1.00	0.79	0.61	0.38	0.23	0.26	0.27	0.18	0.46	0.63	0.75	0.69	0.65	0.62	0.24	0.16	0.15	24	1.05	0.15	0.61
5/10/07	0.18	0.19	0.18	0.24	0.15	0.16	0.50	0.74	0.79	0.98	1.02	0.94	0.94	0.96	0.98	0.84	0.77	0.62	0.42	0.34	0.28	0.37	0.48	0.44	24	1.02	0.15	0.56
5/11/07	0.36	0.35	0.27	0.21	0.26	0.30	0.59	0.68	0.62	0.86	0.90	0.99	1.02	0.97	0.95	0.92	0.77	0.62	0.49	0.40	0.56	0.61	0.64	0.63	24	1.02	0.21	0.62
5/12/07	0.63	0.63	0.56	0.52	0.49	0.50	0.68	0.83	0.84	0.93	1.08	1.08	1.05	0.99	1.05	1.05	0.84	0.85	0.64	0.54	0.62	0.56	0.59	0.35	24	1.08	0.35	0.75
5/13/07	0.12	0.17	0.22	0.17	0.08	0.16	0.31	0.50	0.82	0.89	0.91	0.84	0.98	1.08	0.98	0.83	0.70	0.38	0.33	0.16	0.12	0.10	0.18	0.20	24	1.08	0.08	0.47
5/14/07	0.13	0.30	0.73	0.30	0.34	0.46	0.87	0.97	1.03	1.08	1.00	1.18	1.18	1.13	0.98	1.02	0.97	0.90	0.93	0.97	0.70	0.55	0.40	0.35	24	1.18	0.13	0.77
5/15/07	0.39	0.32	0.29	0.26	0.33	0.32	0.59	0.71	0.87	0.96	1.06	1.13	1.13	0.73	0.97	0.94	0.88	0.86	0.59	0.24	0.09	0.09	0.08	0.09	24	1.13	0.08	0.58
5/16/07	0.08	0.07	0.08	0.14	0.17	0.15	0.20	0.54	0.68	0.83	0.91	0.93	1.11	1.01	0.99	1.06	0.96	0.69	0.35	0.14	0.07	0.20	0.13	0.04	24	1.11	0.04	0.48
5/17/07	0.20	0.06	0.10	0.17	0.18	0.16	0.27	0.58	0.67	0.89	0.91	1.05	1.05	1.08	0.99	0.95	0.89	0.76	0.55	0.38	0.30	0.27	0.35	0.42	24	1.08	0.06	0.55
5/18/07	0.41	0.34	0.34	0.21	0.30	0.27	0.42	0.55	0.83	0.87	0.88	0.90	0.95	1.05	1.01	1.00	0.79	0.61	0.38	0.23	0.26	0.27	0.18	0.46	24	1.05	0.18	0.56
5/19/07	0.63	0.75	0.69	0.65	0.62	0.24	0.53	0.63	0.76	0.84	1.00	0.98	0.95	0.91	1.00	1.01	0.76	0.75	0.60	0.49	0.40	0.53	0.50	0.58	24	1.01	0.24	0.70
5/20/07	0.54	0.43	0.44	0.34	0.26	0.35	0.45	0.45	0.48	0.64	0.66	0.88	0.94	0.76	0.99	0.82	0.66	0.55	0.38	0.21	0.27	0.62	1.00	0.73	24	1.00	0.21	0.58
5/21/07	0.81	0.89	0.51	0.52	0.45	0.42	0.36	0.55	0.82	0.74	0.84	0.95	0.98	0.87	0.86	0.78	0.85	0.86	0.79	0.75	0.77	0.89	0.58	0.29	24	0.98	0.29	0.71
5/22/07	0.22	0.09	0.24	0.33	0.46	0.46	0.43	0.37	0.44	0.63	0.71	0.71	0.70	0.89	0.72	0.47	0.46	0.39	0.63	0.49	0.40	0.43	0.37	0.36	24	0.89	0.09	0.48
5/23/07	0.30	0.22	0.27	0.32	0.32	0.21	0.45	0.67	0.69	0.78	0.86	0.95	0.96	0.94	0.95	0.95	0.95	0.90	0.79	0.73	0.55	0.36	0.35	0.33	24	0.96	0.21	0.62
5/24/07	0.25	0.28	0.41	0.60	0.59	0.55	0.63	0.78	0.80	0.97	0.95	1.04	1.06	1.00	0.96	0.93	0.82	0.70	0.52	0.20	0.06	0.05	0.18	0.05	24	1.06	0.05	0.60
5/25/07	0.03	0.10	0.18	0.35	0.47	0.72	0.64	0.66	0.70	0.69	0.52	0.70	1.06	1.03	1.15	1.13	1.03	0.95	0.75	0.52	0.72	0.76	0.58	0.59	24	1.15	0.03	0.67
5/26/07	0.66	0.84	0.90	0.93	1.00	0.92	0.91	0.89	0.98	0.96	1.00	0.99	1.01	1.05	1.03	0.95	0.88	0.78	0.58	0.24	0.11	0.13	0.05	0.05	24	1.05	0.05	0.74
5/27/07	0.00	0.00	0.02	0.09	0.14	0.17	0.15	0.16	0.32	0.43	0.43	0.47	0.50	0.62	0.65	0.77	0.83	0.71	0.57	0.47	0.42	0.36	0.23	0.37	24	0.83	0.00	0.37
5/28/07	0.49	0.56	0.50	0.45	0.41	0.44	0.57	0.79	0.85	0.95	0.93	0.88	0.99	0.92	0.93	0.74	0.74	0.69	0.71	0.55	0.47	0.44	0.63	0.61	24	0.99	0.41	0.68
5/29/07	0.85	0.57	0.29	0.17	0.20	0.29	0.39	0.37	0.58	0.49	0.63	0.85	0.92	0.87	0.88	0.75	0.57	0.63	0.46	0.22	0.12	0.09	0.13	0.10	24	0.92	0.09	0.48
5/30/07	0.15	0.11	0.09	0.29	0.34	0.40	0.48	0.58	0.72	0.87	0.95	0.88	1.03	1.02	0.97	0.87	0.75	0.75	0.67	0.65	0.61	0.58	0.56	0.52	24	1.03	0.09	0.62
5/31/07	0.49	0.47	0.45	0.33	0.44	0.41	0.55	0.76	0.88	0.96	0.80	0.62	0.72	0.91	0.71	0.69	0.89	0.74	0.62	0.46	0.53	0.35	0.36	0.48	24	0.96	0.33	0.61
hr max	1.03	1.08	1.06	1.18	1.18	1.13	1.01	1.06	1.03	1.08	1.19	1.18	1.18	1.16	1.15	1.13	1.06	1.01	0.93	0.97	0.97	0.90	1.00	0.97				
hr min	0.00	0.00	0.02	0.09	0.08	0.15	0.15	0.16	0.32	0.43	0.35	0.14	0.07	0.09	0.08	0.04	0.08	0.06	0.08	0.10	0.03	0.00	0.05	0.04				
average	0.45	0.46	0.46	0.47	0.48	0.47	0.57	0.69	0.77	0.83	0.83	0.84	0.87	0.85	0.84	0.79	0.74	0.65	0.53	0.40	0.38	0.38	0.41	0.41				

monthly max hr	monthly min hr	monthly ave hr
1.19	0.00	0.61
5/3/07	5/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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 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				
5/1/07	0.31	0.36	0.36	0.10	0.09	0.13	0.16	0.63	0.95	1.06	1.28	1.42	1.36	1.36	1.21	1.08	1.08	0.89	0.53	0.19	0.09	0.09	0.11	0.25	24	1.42	0.09	0.63
5/2/07	0.00	0.00	0.00	0.41	0.07	0.08	0.32	0.78	0.94	1.12	1.18	1.07	1.25	1.21	1.10	1.05	1.03	0.84	0.65	0.30	0.35	0.34	0.30	0.40	24	1.25	0.00	0.62
5/3/07	0.42	0.25	0.28	0.36	0.29	0.27	0.48	0.61	0.89	1.10	1.16	1.16	1.11	1.13	1.19	1.06	1.11	1.04	0.88	0.89	0.93	0.82	0.83	0.65	24	1.19	0.25	0.79
5/4/07	0.58	0.55	0.71	0.65	0.49	0.49	0.90	0.43	0.57	0.93	0.86	1.11	1.09	1.03	0.99	0.74	0.41	0.25	0.22	0.48	0.27	0.52	0.94	1.10	24	1.11	0.22	0.68
5/5/07	1.20	1.29	1.22	1.49	1.39	1.27	1.09	1.21	1.11	0.99	0.97	1.00	0.72	0.45	0.38	0.28	0.28	0.13	0.16	0.20	0.32	0.29	0.68	0.90	24	1.49	0.13	0.79
5/6/07	1.05	1.05	1.29	1.40	1.32	0.86	1.23	1.13	1.08	1.06	0.64	0.19	0.09	0.13	0.08	0.10	0.08	0.11	0.32	0.20	0.14	0.11	0.23	0.49	24	1.40	0.08	0.60
5/7/07	0.76	1.03	1.15	1.14	1.31	1.24	1.25	1.34	1.25	0.90	0.45	0.19	0.21	0.12	0.01	0.21	0.26	0.31	1.07	0.64	0.97	0.41	0.76	0.76	24	1.34	0.01	0.74
5/8/07	1.14	1.39	1.26	1.52	1.47	1.52	1.36	1.32	1.31	1.17	0.75	0.24	0.26	0.28	1.00	1.06	0.81	0.32	0.49	0.19	0.12	0.09	0.18	0.39	24	1.52	0.09	0.82
5/9/07	0.91	1.00	1.07	1.11	1.15	1.28	1.23	1.11	0.93	0.61	1.21	0.26	0.71	0.80	0.38	0.75	0.71	0.76	0.70	0.84	0.87	0.36	0.09	0.05	24	1.28	0.05	0.79
5/10/07	0.08	0.07	0.09	0.45	0.27	0.28	0.45	0.77	0.93	1.14	1.23	1.19	1.12	1.21	1.13	1.02	0.88	0.64	0.36	0.26	0.11	0.32	0.60	0.50	24	1.23	0.07	0.63
5/11/07	0.41	0.47	0.34	0.23	0.21	0.29	0.52	0.62	0.67	0.99	1.02	1.20	1.06	1.01	1.02	0.95	0.87	0.76	0.47	0.27	0.49	0.64	0.67	0.68	24	1.20	0.21	0.66
5/12/07	0.66	0.63	0.52	0.50	0.53	0.51	0.70	0.84	1.06	1.13	1.23	1.25	1.28	1.21	1.25	1.27	0.99	0.99	0.64	0.52	0.53	0.60	0.65	0.42	24	1.28	0.42	0.83
5/13/07	0.24	0.53	0.19	0.11	0.12	0.10	0.10	0.38	0.92	1.10	1.13	1.01	1.15	1.36	1.22	1.01	0.75	0.42	0.24	0.18	0.16	0.15	0.10	0.14	24	1.36	0.10	0.53
5/14/07	0.25	0.38	0.89	0.38	0.27	0.52	0.94	1.10	1.20	1.29	1.22	1.49	1.39	1.27	1.09	1.21	1.11	0.99	0.97	1.00	0.72	0.45	0.38	0.28	24	1.49	0.25	0.87
5/15/07	0.28	0.13	0.16	0.20	0.32	0.29	0.68	0.90	1.05	1.05	1.29	1.40	1.32	0.86	1.23	1.13	1.08	1.06	0.64	0.19	0.09	0.13	0.08	0.10	24	1.40	0.08	0.65
5/16/07	0.08	0.11	0.32	0.20	0.14	0.11	0.23	0.49	0.76	1.03	1.15	1.14	1.31	1.24	1.25	1.34	1.25	0.90	0.45	0.19	0.21	0.12	0.01	0.21	24	1.34	0.01	0.59
5/17/07	0.26	0.31	1.07	0.64	0.97	0.41	0.76	0.76	1.14	1.39	1.26	1.52	1.47	1.52	1.36	1.32	1.31	1.17	0.75	0.24	0.26	0.28	1.00	1.06	24	1.52	0.24	0.93
5/18/07	0.81	0.32	0.49	0.19	0.12	0.09	0.18	0.39	0.91	1.00	1.07	1.11	1.15	1.28	1.23	1.11	0.93	0.61	1.21	0.26	0.71	0.80	0.38	0.75	24	1.28	0.09	0.71
5/19/07	0.71	0.76	0.70	0.84	0.87	0.36	0.53	0.65	0.77	0.94	1.22	1.18	1.00	1.05	1.09	1.13	0.95	0.88	0.71	0.56	0.36	0.55	0.51	0.59	24	1.22	0.36	0.79
5/20/07	0.59	0.47	0.54	0.47	0.28	0.36	0.48	0.50	0.55	0.71	0.77	1.03	1.09	0.84	1.20	0.91	0.74	0.54	0.29	0.15	0.53	1.00	1.86	0.77	24	1.86	0.15	0.69
5/21/07	1.30	1.69	1.22	0.84	0.46	0.46	0.50	0.68	0.96	1.22	1.08	1.09	1.42	1.44	1.42	1.07	1.20	1.36	1.15	1.03	1.16	1.41	0.63	0.32	24	1.69	0.32	1.05
5/22/07	0.25	0.18	0.28	0.43	0.71	0.66	0.51	0.38	0.44	0.71	0.85	0.92	0.84	1.11	0.89	0.53	0.47	0.39	0.66	0.52	0.43	0.44	0.36	0.37	24	1.11	0.18	0.56
5/23/07	0.30	0.24	0.21	0.23	0.31	0.13	0.44	0.74	0.82	0.89	1.10	1.27	1.14	1.17	1.15	1.15	1.19	1.04	0.83	0.78	0.61	0.40	0.34	0.42	24	1.27	0.13	0.70
5/24/07	0.32	0.20	0.39	0.60	0.65	0.61	0.68	0.91	0.96	1.29	1.21	1.26	1.30	1.21	1.15	1.23	1.06	0.92	0.61	0.23	0.07	0.11	0.09	0.23	24	1.30	0.07	0.72
5/25/07	0.10	0.22	0.09	0.24	0.25	1.22	0.77	0.61	0.60	0.65	0.55	1.10	1.29	1.34	1.04	1.29	1.55	0.70	1.11	0.61	0.69	0.73	0.66	0.59	24	1.55	0.09	0.75
5/26/07	0.75	0.89	1.01	1.04	1.05	1.00	0.95	1.08	1.12	1.24	1.25	1.24	1.24	1.39	1.31	1.13	1.13	0.99	0.65	0.26	0.16	0.12	0.10	0.05	24	1.39	0.05	0.88
5/27/07	0.08	0.02	0.07	0.10	0.12	0.14	0.15	0.14	0.26	0.35	0.38	0.47	0.54	0.72	0.73	0.85	0.96	0.73	0.56	0.45	0.39	0.27	0.34	0.27	24	0.96	0.02	0.38
5/28/07	0.34	0.35	0.54	0.15	0.13	0.22	0.36	0.83	1.15	1.32	1.60	1.68	1.85	1.19	1.25	1.02	0.97	0.55	0.59	0.42	0.39	0.60	0.44	1.43	24	1.85	0.13	0.81
5/29/07	1.05	0.64	0.39	0.22	0.26	0.45	0.60	0.33	0.67	0.59	0.74	1.03	1.06	1.08	1.03	0.94	0.68	0.74	0.40	0.22	0.10	0.07	0.09	0.13	24	1.08	0.07	0.56
5/30/07	0.00	0.25	0.08	0.19	0.33	0.44	0.50	0.60	0.77	0.92	1.05	0.95	1.12	1.27	1.21	1.06	0.89	0.79	0.74	0.73	0.69	0.65	0.57	0.58	24	1.27	0.00	0.68
5/31/07	0.46	0.48	0.47	0.27	0.35	0.34	0.56	0.80	0.97	1.15	1.14	0.95	0.69	0.91	0.91	0.78	0.84	0.68	0.59	0.51	0.50	0.24	0.35	0.31	24	1.15	0.24	0.64
hr max	1.30	1.69	1.29	1.52	1.47	1.52	1.36	1.34	1.31	1.39	1.60	1.68	1.85	1.52	1.42	1.34	1.55	1.36	1.21	1.03	1.16	1.41	1.86	1.43				
hr min	0.00	0.00	0.00	0.10	0.07	0.08	0.10	0.14	0.26	0.35	0.38	0.19	0.09	0.12	0.01	0.10	0.08	0.11	0.16	0.15	0.07	0.07	0.01	0.05				
average	0.51	0.52	0.56	0.54	0.53	0.52	0.63	0.74	0.89	1.00	1.03	1.04	1.05	1.04	1.02	0.96	0.89	0.73	0.63	0.44	0.43	0.42	0.46	0.49				

monthly max hr	monthly min hr	monthly ave hr
1.86	0.00	0.71
5/20/07	5/2/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	9.8	8.9	7.0	6.4	5.5	5.0	6.2	8.4	10.8	12.3	13.7	14.7	15.7	16.6	17.0	17.3	17.3	17.1	15.8	12.5	9.8	9.0	9.8	9.8	24	17.3	5.0	11.5
5/2/07	9.4	9.2	8.8	9.5	8.1	8.2	9.1	11.7	13.7	15.0	16.4	17.8	19.2	20.2	21.0	21.3	20.9	20.0	18.5	15.7	13.7	13.7	13.0	12.3	24	21.3	8.1	14.4
5/3/07	11.5	10.5	9.5	8.8	8.0	7.5	8.9	11.2	14.7	17.4	19.0	20.3	21.4	21.6	21.6	21.0	19.5	18.3	17.0	15.7	13.7	13.4	13.1	12.8	24	21.6	7.5	14.9
5/4/07	12.7	12.5	12.4	12.3	12.3	12.3	12.6	13.1	14.1	16.2	17.4	18.7	19.5	19.8	20.2	20.4	19.6	18.9	18.2	16.1	14.5	13.9	13.2	13.2	24	20.4	12.3	15.6
5/5/07	12.9	12.5	12.7	12.6	12.6	12.5	12.5	12.9	14.3	15.2	15.5	15.7	15.9	15.5	15.3	15.7	14.9	14.0	14.2	14.4	14.6	14.5	14.4	14.1	24	15.9	12.5	14.1
5/6/07	13.8	14.0	16.1	16.8	16.7	16.7	16.0	15.8	16.1	16.1	18.5	21.0	21.4	21.5	21.2	20.8	20.2	19.6	18.2	16.2	13.8	12.9	11.9	10.8	24	21.5	10.8	16.9
5/7/07	10.0	9.8	9.3	9.8	10.5	10.6	10.6	10.9	11.1	11.9	13.5	15.3	17.0	18.8	18.8	18.9	18.9	18.9	18.1	15.6	14.3	13.1	11.7	11.1	24	18.9	9.3	13.7
5/8/07	10.1	9.1	8.6	9.0	8.4	8.1	11.9	14.4	17.5	19.9	20.8	21.2	22.1	22.6	23.1	23.0	23.0	22.7	21.7	20.4	15.8	12.9	12.8	12.2	24	23.1	8.1	16.3
5/9/07	11.1	9.8	9.1	8.7	8.8	8.8	11.5	15.2	18.2	20.8	23.1	24.2	24.8	25.4	25.9	25.9	25.8	25.0	23.3	19.3	17.1	15.8	14.1	14.3	24	25.9	8.7	17.8
5/10/07	13.5	12.9	12.5	12.1	12.6	12.3	13.4	15.1	16.2	17.9	18.9	20.5	21.4	22.1	22.7	22.5	22.0	20.8	18.8	15.8	12.7	12.3	11.5	10.9	24	22.7	10.9	16.3
5/11/07	9.7	8.5	7.1	6.7	6.2	5.9	8.4	10.4	12.4	14.1	16.0	18.5	20.1	21.2	22.0	22.6	22.6	22.0	21.0	17.9	14.3	12.0	10.4	9.7	24	22.6	5.9	14.2
5/12/07	9.0	8.5	8.3	8.1	7.7	7.5	8.7	10.9	12.9	14.6	17.2	19.4	20.9	21.7	22.4	23.0	23.0	22.6	21.4	19.0	18.0	16.9	15.7	13.6	24	23.0	7.5	15.5
5/13/07	11.8	12.1	13.3	13.4	14.7	14.4	17.6	20.4	23.0	24.8	26.6	28.3	29.6	30.7	31.6	32.1	31.7	29.6	27.0	23.3	21.5	19.5	19.6	18.7	24	32.1	11.8	22.3
5/14/07	17.3	16.0	18.6	17.1	16.3	14.8	14.4	14.3	14.9	16.1	17.1	18.6	19.8	19.0	17.6	16.9	15.0	14.1	13.1	12.3	11.0	8.9	7.6	7.0	24	19.8	7.0	14.9
5/15/07	6.8	6.1	6.4	7.4	7.2	7.0	7.3	9.0	10.9	12.7	14.0	15.4	15.9	14.8	16.6	16.8	16.8	16.7	15.9	13.8	10.4	9.1	9.1	8.3	24	16.8	6.1	11.4
5/16/07	8.0	7.2	6.3	6.5	5.0	4.1	6.6	7.8	9.5	11.6	12.9	14.2	15.2	15.8	16.0	16.5	16.1	15.5	14.0	11.5	7.6	6.9	6.9	5.3	24	16.5	4.1	10.3
5/17/07	4.3	4.3	4.2	2.9	1.8	3.6	5.8	9.6	12.8	14.8	16.3	18.1	19.4	20.7	21.5	22.0	22.3	22.2	21.1	18.8	16.8	15.5	15.4	16.0	24	22.3	1.8	13.8
5/18/07	15.9	15.1	14.4	13.1	12.9	12.6	14.2	16.9	19.2	21.2	22.9	24.8	26.9	28.8	30.3	30.9	30.5	29.6	27.0	22.2	20.4	19.0	17.5	18.0	24	30.9	12.6	21.0
5/19/07	17.5	16.7	15.9	16.2	16.3	15.0	15.2	15.1	11.9	13.1	15.0	15.9	15.9	15.3	15.7	15.9	15.4	14.4	12.8	10.9	8.8	8.6	8.6	8.6	24	17.5	8.6	13.9
5/20/07	8.8	8.9	9.2	9.6	9.8	9.9	10.0	10.2	10.7	11.5	12.3	16.5	18.3	18.3	20.3	21.8	22.3	22.3	21.4	20.0	19.8	21.0	21.9	19.2	24	22.3	8.8	15.6
5/21/07	18.7	20.9	19.7	17.7	15.7	14.4	15.7	17.3	19.5	21.8	23.2	24.7	25.7	26.7	26.5	26.0	26.1	25.9	24.5	23.1	22.8	21.2	17.1	16.0	24	26.7	14.4	21.3
5/22/07	14.5	14.0	14.1	14.7	15.5	15.6	14.7	14.8	15.8	16.9	18.8	19.6	20.1	21.5	20.5	17.4	16.5	14.4	13.6	12.7	12.3	12.1	11.8	11.8	24	21.5	11.8	15.6
5/23/07	11.7	11.5	11.2	10.2	8.7	8.0	9.2	10.7	11.7	13.2	15.0	15.7	15.8	16.4	17.0	16.5	15.5	14.2	13.0	11.5	10.1	8.9	8.1	7.8	24	17.0	7.8	12.2
5/24/07	7.2	7.1	7.2	7.2	5.4	4.5	4.6	5.1	6.4	7.3	8.0	9.7	10.9	12.2	12.8	13.4	13.9	13.9	13.4	11.7	8.2	6.7	5.7	5.6	24	13.9	4.5	8.7
5/25/07	6.0	6.0	6.4	6.3	6.8	7.8	8.4	9.1	9.9	10.6	11.2	15.0	18.5	19.3	19.9	20.2	18.8	17.5	16.9	14.7	13.5	12.7	12.6	10.8	24	20.2	6.0	12.5
5/26/07	8.7	7.7	7.0	6.4	5.5	4.8	4.1	3.9	4.5	5.2	6.6	7.6	9.1	11.4	13.0	13.8	13.9	13.1	12.0	10.3	8.3	7.0	5.5	6.0	24	13.9	3.9	8.1
5/27/07	4.6	4.8	4.0	3.9	3.9	5.1	7.1	8.5	9.5	10.1	10.8	11.4	11.7	12.8	13.4	13.9	15.0	15.7	15.4	14.8	13.8	13.2	12.8	13.2	24	15.7	3.9	10.4
5/28/07	13.5	13.2	13.0	13.0	13.2	13.8	15.5	18.1	20.0	21.8	23.0	24.5	26.0	26.7	26.8	25.4	26.0	25.2	23.9	21.9	20.3	19.2	19.2	19.4	24	26.8	13.0	20.1
5/29/07	17.3	15.9	15.0	14.0	13.5	14.0	15.3	15.5	17.1	17.4	18.4	19.7	19.9	20.3	21.1	20.8	19.5	19.5	18.4	16.9	15.4	14.8	14.3	14.3	24	21.1	13.5	17.0
5/30/07	13.8	13.9	14.0	14.3	13.8	13.3	12.7	12.2	12.2	12.3	12.0	11.5	12.5	13.1	13.1	13.2	12.1	11.7	11.3	11.0	10.8	10.7	10.5	10.2	24	14.3	10.2	12.3
5/31/07	10.2	10.1	10.0	9.7	9.7	9.8	10.4	11.3	12.8	13.9	15.2	14.6	15.5	17.1	17.6	17.0	17.3	16.0	14.7	13.9	13.4	12.5	12.3	11.8	24	17.6	9.7	13.2
hr max	18.7	20.9	19.7	17.7	16.7	16.7	17.6	20.4	23.0	24.8	26.6	28.3	29.6	30.7	31.6	32.1	31.7	29.6	27.0	23.3	22.8	21.2	21.9	19.4	monthly	monthly	monthly	
hr min	4.3	4.3	4.0	2.9	1.8	3.6	4.1	3.9	4.5	5.2	6.6	7.6	9.1	11.4	12.8	13.2	12.1	11.7	11.3	10.3	7.6	6.7	5.5	5.3	max hr	min hr	ave hr	
average	11.3	10.9	10.7	10.5	10.1	9.9	10.9	12.3	13.7	15.1	16.4	17.8	18.9	19.6	20.1	20.1	19.8	19.1	17.9	15.9	14.1	13.2	12.5	12.0	32.1	1.8	14.7	
																									5/13/07	5/17/07		

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	10.5	9.5	7.8	6.9	6.1	5.4	6.1	7.8	9.9	10.9	12.1	13.1	14.3	15.3	15.9	16.4	16.4	16.7	15.9	13.7	11.7	10.7	10.7	10.6	24	16.7	5.4	11.4
5/2/07	10.3	9.6	9.2	9.7	8.5	8.4	9.1	11.2	12.8	13.7	14.8	16.2	17.5	18.7	19.6	20.1	20.1	19.6	18.5	16.2	14.4	14.2	13.5	12.7	24	20.1	8.4	14.1
5/3/07	11.9	11.0	9.9	9.2	8.4	7.8	8.8	10.8	13.8	16.2	17.6	18.8	19.8	20.3	20.6	20.2	19.0	17.8	16.9	15.6	13.6	13.3	13.0	12.8	24	20.6	7.8	14.5
5/4/07	12.7	12.5	12.4	12.3	12.3	12.3	12.6	13.0	13.8	15.2	16.4	17.6	18.4	18.9	19.5	19.8	19.5	18.9	18.5	16.9	14.7	13.8	13.2	13.3	24	19.8	12.3	15.4
5/5/07	13.1	12.6	12.7	12.5	12.5	12.4	12.5	12.9	14.2	15.1	15.4	15.5	15.8	15.5	15.4	15.8	15.1	14.2	14.3	14.5	14.6	14.6	14.6	14.9	24	15.8	12.4	14.2
5/6/07	14.5	14.4	16.3	16.9	16.7	16.8	16.1	15.8	16.2	16.1	17.9	20.4	20.6	20.6	20.4	20.1	19.7	19.3	18.2	16.5	14.3	13.3	12.1	11.0	24	20.6	11.0	16.8
5/7/07	10.3	10.1	9.6	9.9	10.6	10.6	10.6	10.8	10.9	11.6	12.8	14.4	15.9	17.4	17.9	18.3	18.5	18.9	18.6	16.6	15.2	15.0	15.2	15.4	24	18.9	9.6	14.0
5/8/07	15.5	13.6	13.1	13.6	12.2	11.5	12.6	14.5	17.1	19.3	20.2	20.6	21.1	21.7	22.2	22.3	22.5	22.5	22.1	21.6	19.9	16.9	15.3	13.6	24	22.5	11.5	17.7
5/9/07	12.4	11.3	11.2	12.5	10.9	10.2	11.8	14.8	17.4	19.8	22.1	23.1	23.6	24.3	24.9	25.2	25.3	24.9	23.6	20.6	18.2	17.1	16.2	16.5	24	25.3	10.2	18.2
5/10/07	16.3	16.3	16.3	14.3	14.1	12.9	13.4	14.8	15.4	16.8	17.8	19.1	20.1	20.9	21.5	21.6	21.5	20.7	19.2	16.5	13.7	13.2	12.3	11.8	24	21.6	11.8	16.7
5/11/07	10.7	9.8	8.9	7.6	6.8	6.4	8.3	10.0	11.9	13.1	15.0	17.2	18.7	19.9	20.9	21.8	22.0	21.9	21.3	18.6	14.7	12.3	10.6	9.9	24	22.0	6.4	14.1
5/12/07	9.1	8.7	8.5	8.4	7.9	7.6	8.6	10.5	12.3	13.7	16.0	18.2	19.6	20.7	21.5	22.2	22.6	22.6	21.8	19.5	18.4	17.4	16.3	14.6	24	22.6	7.6	15.3
5/13/07	13.2	13.4	14.8	15.6	16.1	15.6	17.9	20.2	22.4	23.9	25.7	27.3	28.6	29.8	30.9	31.7	31.5	30.1	27.7	25.4	24.0	22.2	21.5	20.3	24	31.7	13.2	22.9
5/14/07	19.5	19.3	20.4	18.5	17.2	15.2	14.3	13.8	14.4	15.3	16.1	17.3	18.3	17.5	16.6	16.1	14.6	13.9	13.1	12.3	11.1	9.2	8.0	7.3	24	20.4	7.3	15.0
5/15/07	7.0	6.4	6.6	7.4	7.2	7.1	7.1	8.3	9.8	11.4	12.5	13.9	14.9	14.5	15.7	16.1	16.3	16.4	16.0	14.6	12.4	11.1	11.1	9.4	24	16.4	6.4	11.4
5/16/07	9.3	8.6	7.8	7.6	6.7	6.0	6.6	7.2	8.6	10.5	11.9	13.0	14.0	14.6	15.0	15.4	15.3	15.2	14.5	13.3	10.3	8.8	8.2	6.8	24	15.4	6.0	10.6
5/17/07	5.7	5.2	5.2	4.1	3.9	4.5	5.8	9.2	12.1	13.8	15.1	16.9	18.1	19.5	20.4	21.3	21.8	22.1	21.3	19.4	17.4	16.1	16.1	16.6	24	22.1	3.9	13.8
5/18/07	16.5	15.7	15.1	13.8	13.5	13.0	14.2	16.5	18.4	20.2	21.8	23.6	25.8	27.9	29.6	30.5	30.6	30.2	27.9	23.5	21.5	20.2	18.7	18.9	24	30.6	13.0	21.2
5/19/07	18.5	17.2	16.3	16.5	16.7	15.9	15.3	14.9	11.4	12.0	13.5	14.6	14.5	14.2	14.4	14.9	14.6	13.9	12.7	11.0	9.0	8.7	8.6	8.5	24	18.5	8.5	13.7
5/20/07	8.7	8.7	9.1	9.5	9.7	9.8	9.8	9.9	10.3	11.0	12.0	15.2	17.0	17.6	19.5	21.2	22.2	22.6	21.8	20.7	20.4	21.4	22.4	19.5	24	22.6	8.7	15.4
5/21/07	19.1	21.2	20.0	18.0	16.0	14.7	15.5	17.0	18.9	21.1	22.3	23.7	24.8	26.1	26.2	25.9	26.1	25.9	24.8	23.4	23.1	21.4	17.1	16.3	24	26.2	14.7	21.2
5/22/07	15.6	14.8	14.5	15.1	15.7	15.7	14.7	14.9	15.5	16.3	17.9	18.8	19.3	20.7	20.1	17.4	16.5	14.4	13.4	12.6	12.3	12.0	11.8	11.8	24	20.7	11.8	15.5
5/23/07	11.7	11.5	11.2	10.3	9.1	8.2	9.1	10.3	10.9	12.3	14.0	14.8	15.0	15.4	16.2	15.8	14.9	14.0	13.1	11.9	10.5	9.3	8.4	8.1	24	16.2	8.1	11.9
5/24/07	7.4	7.2	7.3	7.4	5.5	4.5	4.5	4.9	5.5	6.2	6.7	8.0	9.3	10.6	11.4	12.3	13.0	13.3	13.3	12.8	12.0	10.9	9.5	8.2	24	13.3	4.5	8.8
5/25/07	7.4	6.8	7.2	7.0	7.2	8.0	8.5	9.2	9.8	10.6	11.2	14.9	17.9	18.6	19.3	19.7	18.8	17.8	17.3	15.6	14.1	13.0	12.7	10.9	24	19.7	6.8	12.6
5/26/07	8.9	7.8	7.0	6.3	5.4	4.7	4.0	3.6	4.2	4.7	5.9	6.9	8.0	9.9	11.7	12.6	12.9	12.6	12.1	11.2	10.3	9.8	9.1	9.1	24	12.9	3.6	8.3
5/27/07	7.7	7.5	7.8	7.4	6.7	6.7	7.3	8.4	9.3	9.9	10.6	11.2	11.5	12.4	13.0	13.6	14.7	15.6	15.6	15.1	14.3	13.7	13.4	13.5	24	15.6	6.7	11.1
5/28/07	13.8	13.5	13.2	13.2	13.4	13.9	15.5	17.8	19.6	21.3	22.5	23.9	25.4	25.9	26.3	25.4	26.0	25.4	24.2	22.3	20.7	19.5	19.5	19.7	24	26.3	13.2	20.1
5/29/07	17.4	16.1	15.6	14.7	14.1	14.4	15.4	15.2	16.7	17.0	17.7	18.6	19.0	19.7	20.2	20.2	19.4	19.3	18.7	17.4	16.2	15.4	14.9	14.8	24	20.2	14.1	17.0
5/30/07	14.3	14.3	14.4	14.6	14.2	13.5	12.8	12.2	12.2	12.2	12.0	11.6	12.2	12.7	12.8	12.8	11.9	11.5	11.2	10.9	10.8	10.7	10.5	10.2	24	14.6	10.2	12.4
5/31/07	10.2	10.2	10.1	9.8	9.8	9.8	10.2	10.9	12.1	13.2	14.5	14.5	15.2	16.5	17.1	16.3	16.8	16.1	15.0	14.2	13.7	12.7	12.5	11.9	24	17.1	9.8	13.1
hr max	19.5	21.2	20.4	18.5	17.2	16.8	17.9	20.2	22.4	23.9	25.7	27.3	28.6	29.8	30.9	31.7	31.5	30.2	27.9	25.4	24.0	22.2	22.4	20.3				
hr min	5.7	5.2	5.2	4.1	3.9	4.5	4.0	3.6	4.2	4.7	5.9	6.9	8.0	9.9	11.4	12.3	11.9	11.5	11.2	10.9	9.0	8.7	8.0	6.8				
average	12.2	11.8	11.6	11.3	10.8	10.4	10.9	12.0	13.2	14.3	15.5	16.9	17.9	18.7	19.2	19.5	19.4	19.0	18.1	16.6	15.1	14.1	13.5	12.9				

monthly max hr	monthly min hr	monthly ave hr
31.7	3.6	14.8
5/13/07	5/26/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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 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				
5/1/07	11.3	9.9	8.5	8.2	7.5	6.7	6.5	7.3	9.1	10.0	11.2	12.2	13.4	14.4	15.2	15.8	15.8	16.2	15.6	14.7	14.3	13.9	13.1	13.0	24	16.2	6.5	11.8
5/2/07	12.5	11.1	10.4	10.3	9.9	9.7	9.3	10.7	12.1	12.8	13.8	15.2	16.5	17.7	18.5	19.0	19.2	18.8	18.1	16.4	15.0	14.9	14.3	13.6	24	19.2	9.3	14.2
5/3/07	12.7	11.8	10.8	10.2	9.3	8.8	8.7	10.4	13.0	15.2	16.6	17.6	18.7	19.1	19.6	19.3	18.2	17.1	16.4	15.3	13.2	13.0	12.7	12.5	24	19.6	8.7	14.2
5/4/07	12.4	12.2	12.1	12.0	12.0	12.1	12.5	12.8	13.4	14.6	15.7	16.9	17.6	18.2	18.8	19.2	19.1	18.8	18.6	17.2	14.9	13.7	13.1	13.0	24	19.2	12.0	15.0
5/5/07	13.1	12.7	12.5	12.4	12.4	12.3	12.3	12.7	13.9	14.6	14.9	15.1	15.4	15.2	15.3	15.6	15.0	14.5	14.2	14.3	14.4	14.5	16.1	20.2	24	20.2	12.3	14.3
5/6/07	16.1	15.1	16.3	16.8	16.6	16.6	15.9	15.6	16.0	15.8	17.4	19.7	19.9	19.8	19.6	19.3	19.1	18.8	17.8	16.7	15.3	14.1	12.7	11.5	24	19.9	11.5	16.8
5/7/07	10.6	10.5	10.4	10.1	10.5	10.4	10.4	10.5	10.6	11.2	12.2	13.7	15.1	16.5	17.3	17.7	18.1	18.6	18.6	17.9	17.3	16.4	17.1	16.7	24	18.6	10.1	14.1
5/8/07	16.1	15.1	16.6	16.7	15.6	16.2	16.3	15.9	17.2	18.8	19.6	20.0	20.5	21.0	21.5	21.6	21.9	22.0	21.8	21.5	20.9	19.7	17.2	16.5	24	22.0	15.1	18.8
5/9/07	15.7	15.3	16.2	18.0	15.2	15.0	15.5	14.9	16.8	19.1	21.4	22.2	22.8	23.5	24.2	24.5	24.7	24.4	23.8	22.9	21.5	21.6	20.8	20.7	24	24.7	14.9	20.0
5/10/07	20.1	19.3	18.8	17.7	18.2	14.3	13.4	14.4	14.8	15.9	17.0	18.2	19.2	20.0	20.8	20.9	20.9	20.3	19.2	17.3	15.8	14.5	13.4	12.6	24	20.9	12.6	17.4
5/11/07	11.8	10.9	9.9	9.1	8.2	7.3	8.2	9.6	11.3	12.3	14.3	16.3	17.8	19.0	20.0	21.0	21.4	21.5	21.1	19.2	14.9	12.3	10.6	9.9	24	21.5	7.3	14.1
5/12/07	9.1	8.7	8.6	8.5	8.1	7.7	8.4	10.1	11.7	13.0	15.2	17.4	18.9	19.9	20.7	21.4	21.9	22.2	21.7	19.6	18.7	17.7	16.6	15.4	24	22.2	7.7	15.1
5/13/07	15.3	18.1	18.9	19.8	20.9	20.2	20.1	20.2	21.7	23.1	24.9	26.5	27.7	28.9	30.0	30.9	30.7	29.9	27.5	26.4	25.1	24.1	24.5	22.5	24	30.9	15.3	24.1
5/14/07	23.5	23.6	21.7	20.1	17.8	15.9	13.9	13.3	13.8	14.5	15.1	16.2	17.1	16.3	15.7	15.3	14.0	13.4	12.7	12.0	10.9	9.2	8.0	7.3	24	23.6	7.3	15.1
5/15/07	7.1	6.7	7.0	7.2	7.0	6.9	6.7	7.7	9.1	10.5	11.6	13.0	14.0	13.9	14.8	15.5	15.7	15.8	15.5	14.7	14.3	14.0	13.2	12.6	24	15.8	6.7	11.4
5/16/07	12.5	13.0	11.3	9.9	8.2	8.3	7.5	6.8	8.1	9.9	11.2	12.2	13.1	13.9	14.4	14.8	14.8	14.8	14.4	13.9	13.0	12.2	11.9	11.3	24	14.8	6.8	11.7
5/17/07	10.1	9.1	8.9	7.9	8.1	7.5	6.6	8.8	11.4	12.9	14.2	15.9	17.1	18.5	19.5	20.4	21.1	21.6	21.1	19.9	18.7	18.0	17.7	17.5	24	21.6	6.6	14.7
5/18/07	17.1	16.4	16.1	15.5	15.0	14.3	14.5	16.0	17.8	19.4	21.0	22.8	24.9	27.0	28.7	29.7	30.0	29.8	28.5	25.9	24.0	22.7	21.3	20.4	24	30.0	14.3	21.6
5/19/07	19.2	17.3	16.4	16.6	16.7	16.3	15.2	14.4	10.8	11.2	12.6	13.7	13.7	13.4	13.6	14.1	13.9	13.4	12.4	10.9	9.1	8.5	8.2	8.2	24	19.2	8.2	13.3
5/20/07	8.3	8.5	8.9	9.4	9.5	9.6	9.6	9.7	10.1	10.5	11.5	13.9	15.9	16.9	18.7	20.6	21.8	22.4	21.8	21.5	21.5	21.9	23.1	20.5	24	23.1	8.3	15.3
5/21/07	19.4	21.5	20.3	18.1	16.2	15.0	15.8	16.6	18.2	20.2	21.4	22.8	23.9	25.3	25.7	25.4	25.7	25.6	24.8	23.6	23.1	21.2	16.7	16.4	24	25.7	15.0	21.0
5/22/07	16.2	16.1	15.1	15.3	15.8	15.8	14.6	14.9	15.2	15.8	17.4	18.2	18.7	20.0	19.6	17.0	16.2	14.0	13.0	12.3	11.9	11.7	11.5	11.5	24	20.0	11.5	15.3
5/23/07	11.5	11.4	11.2	10.5	9.4	8.9	9.0	9.8	10.4	11.8	13.3	14.1	14.3	14.8	15.6	15.2	14.3	13.7	12.9	11.9	10.7	9.7	8.8	8.5	24	15.6	8.5	11.7
5/24/07	8.0	7.5	7.5	7.4	5.3	4.3	4.2	4.5	4.9	5.6	6.0	7.2	8.6	9.9	10.7	11.7	12.3	12.8	12.9	12.7	12.3	12.2	11.9	11.6	24	12.9	4.2	8.8
5/25/07	11.2	10.4	10.1	8.5	7.9	8.4	9.2	9.7	9.6	10.5	11.2	14.8	17.4	17.8	18.7	19.1	18.5	17.9	17.6	16.4	14.7	13.1	12.6	10.9	24	19.1	7.9	13.2
5/26/07	8.9	7.7	6.8	6.1	5.1	4.4	3.6	3.2	3.7	4.2	5.3	6.3	7.3	9.1	11.0	11.9	12.2	12.0	11.7	11.3	11.0	10.9	10.5	10.3	24	12.2	3.2	8.1
5/27/07	10.1	9.8	9.5	9.5	9.6	9.5	9.4	9.3	9.1	9.5	10.2	10.8	11.2	11.9	12.5	13.2	14.2	15.2	15.5	15.2	14.6	14.2	14.3	14.0	24	15.5	9.1	11.8
5/28/07	13.9	13.6	13.4	13.6	13.9	14.3	15.4	17.4	19.1	20.6	21.8	23.2	24.6	25.1	25.6	25.1	25.7	25.2	24.1	22.5	21.0	19.8	19.8	19.8	24	25.7	13.4	19.9
5/29/07	17.2	16.1	15.9	15.4	15.2	15.0	15.4	14.8	16.1	16.5	17.1	18.0	18.4	19.0	19.4	19.4	18.8	18.8	18.3	17.4	16.9	16.7	16.6	16.1	24	19.4	14.8	17.0
5/30/07	15.6	15.6	15.5	14.8	14.3	13.4	12.5	11.9	11.8	11.9	11.6	11.4	11.7	12.2	12.3	12.3	11.4	11.1	10.8	10.7	10.6	10.5	10.3	10.1	24	15.6	10.1	12.3
5/31/07	10.1	10.0	9.9	9.8	9.8	9.6	9.8	10.5	11.4	12.4	13.9	14.3	14.9	15.9	16.6	15.7	16.1	15.9	15.1	14.3	13.8	12.8	12.7	12.0	24	16.6	9.6	12.8
hr max	23.5	23.6	21.7	20.1	20.9	20.2	20.1	20.2	21.7	23.1	24.9	26.5	27.7	28.9	30.0	30.9	30.7	29.9	28.5	26.4	25.1	24.1	24.5	22.5				
hr min	7.1	6.7	6.8	6.1	5.1	4.3	3.6	3.2	3.7	4.2	5.3	6.3	7.3	9.1	10.7	11.7	11.4	11.1	10.8	10.7	9.1	8.5	8.0	7.3				
average	13.4	13.1	12.8	12.4	11.9	11.4	11.3	11.8	12.7	13.7	14.9	16.1	17.1	17.9	18.5	18.8	18.8	18.6	18.0	17.0	15.9	15.2	14.6	14.1				

monthly max hr	monthly min hr	monthly ave hr
30.9	3.2	15.0
5/13/07	5/26/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	11.8	10.1	8.7	8.6	7.7	7.2	6.7	6.8	8.5	9.4	10.5	11.6	12.8	13.8	14.6	15.2	15.2	15.7	15.1	14.4	14.0	13.7	13.4	13.0	24	15.7	6.7	11.6
5/2/07	12.7	12.0	11.8	11.5	11.2	11.0	10.7	10.3	11.5	12.2	13.3	14.5	15.9	17.1	17.9	18.4	18.6	18.3	17.7	16.5	15.7	15.8	15.9	15.4	24	18.6	10.3	14.4
5/3/07	14.4	14.0	13.0	11.9	10.6	10.0	9.4	10.2	12.5	14.6	15.9	16.9	18.0	18.5	19.1	18.7	17.6	16.6	15.9	14.8	12.7	12.5	12.2	12.2	24	19.1	9.4	14.3
5/4/07	12.1	11.9	11.8	11.7	11.7	11.8	12.4	12.5	12.9	14.1	15.2	16.3	17.1	17.6	18.3	18.7	18.7	18.4	18.2	16.9	14.9	13.7	13.1	12.7	24	18.7	11.7	14.7
5/5/07	12.8	12.5	12.3	12.1	12.1	12.0	12.1	12.6	13.5	14.1	14.5	14.6	14.8	14.9	15.1	15.2	14.9	14.6	14.0	14.0	14.2	14.2	17.4	20.5	24	20.5	12.0	14.1
5/6/07	18.1	16.9	16.2	16.5	16.2	16.2	15.5	15.2	15.6	15.4	16.8	19.1	19.2	19.2	18.9	18.7	18.5	18.2	17.4	16.6	15.4	14.3	12.8	11.7	24	19.2	11.7	16.6
5/7/07	10.8	10.7	10.5	10.1	10.1	10.0	9.9	10.0	10.1	10.6	11.7	13.1	14.5	16.0	16.7	17.2	17.6	18.1	18.2	17.7	17.5	16.4	16.9	16.8	24	18.2	9.9	13.8
5/8/07	16.0	16.0	16.6	16.8	16.7	16.5	16.6	16.7	17.2	18.3	19.0	19.4	19.9	20.5	20.9	21.0	21.3	21.5	21.3	21.1	20.7	19.7	18.5	19.3	24	21.5	16.0	18.8
5/9/07	18.0	18.2	17.7	19.7	17.8	16.2	16.6	15.8	16.5	18.6	20.8	21.6	22.2	23.0	23.6	23.9	24.1	23.9	23.6	22.9	21.9	22.2	22.1	21.9	24	24.1	15.8	20.5
5/10/07	22.1	21.8	20.7	18.5	18.7	15.2	13.5	13.9	14.2	15.3	16.4	17.6	18.6	19.4	20.2	20.3	20.3	19.8	18.9	17.4	16.4	15.3	13.6	12.7	24	22.1	12.7	17.5
5/11/07	12.2	11.3	10.4	9.5	8.8	8.2	8.2	9.2	10.8	11.7	13.7	15.7	17.2	18.4	19.4	20.4	20.9	21.0	20.7	19.3	14.6	11.9	10.3	9.6	24	21.0	8.2	13.9
5/12/07	8.8	8.5	8.5	8.4	8.1	7.8	8.1	9.5	11.2	12.4	14.4	16.7	18.1	19.2	20.1	20.8	21.3	21.5	21.3	19.4	18.7	17.8	16.6	16.1	24	21.5	7.8	14.7
5/13/07	18.4	21.1	22.3	22.2	21.6	21.7	21.3	20.6	21.2	22.5	24.3	25.8	27.0	28.3	29.4	30.4	30.1	29.5	27.1	26.3	25.6	24.9	25.0	24.4	24	30.4	18.4	24.6
5/14/07	24.8	25.3	22.5	20.6	18.2	15.9	13.4	12.7	13.2	13.9	14.4	15.5	16.3	15.6	15.0	14.6	13.4	12.8	12.2	11.6	10.5	8.8	7.7	7.1	24	25.3	7.1	14.8
5/15/07	7.0	7.0	7.5	7.2	6.8	6.5	6.3	7.2	8.5	9.9	10.9	12.3	13.3	13.3	14.2	14.9	15.1	15.2	15.0	14.5	14.2	13.9	13.6	13.4	24	15.2	6.3	11.2
5/16/07	13.5	13.1	11.9	10.1	8.6	8.9	7.8	6.3	7.6	9.4	10.6	11.6	12.6	13.3	13.8	14.2	14.3	14.3	13.9	13.6	12.8	12.0	11.6	11.4	24	14.3	6.3	11.6
5/17/07	11.0	10.7	10.4	9.5	9.5	9.1	8.0	8.7	10.8	12.2	13.5	15.1	16.4	17.8	18.8	19.8	20.5	21.1	20.9	20.1	19.4	18.5	18.1	17.7	24	21.1	8.0	14.9
5/18/07	17.4	17.0	16.7	16.3	16.9	16.8	16.4	15.8	17.2	18.9	20.4	22.1	24.2	26.4	28.1	29.0	29.4	29.4	28.6	26.7	25.0	23.7	22.3	21.0	24	29.4	15.8	21.9
5/19/07	19.4	17.1	16.4	16.5	16.5	16.7	15.1	13.9	10.3	10.7	12.0	13.1	13.0	12.7	12.9	13.4	13.3	12.8	11.9	10.4	8.7	8.0	7.8	7.7	24	19.4	7.7	12.9
5/20/07	7.9	8.2	8.6	9.1	9.2	9.3	9.3	9.4	9.7	10.2	10.9	13.1	15.6	16.4	18.2	20.0	21.3	21.9	21.6	22.7	22.7	22.5	23.7	22.0	24	23.7	7.9	15.1
5/21/07	19.6	21.9	20.9	18.1	16.3	15.1	16.2	16.1	17.6	19.6	20.8	22.1	23.3	24.6	25.1	24.9	25.3	25.2	24.5	23.5	23.0	20.9	16.5	16.4	24	25.3	15.1	20.7
5/22/07	16.1	16.3	15.4	15.4	15.7	15.7	14.7	14.9	14.9	15.2	16.8	17.7	18.2	19.5	19.1	16.5	15.7	13.6	12.5	11.8	11.5	11.3	11.2	11.2	24	19.5	11.2	15.0
5/23/07	11.2	11.1	11.1	10.5	9.6	9.4	8.9	9.3	9.8	11.2	12.7	13.5	13.8	14.4	15.3	15.0	14.4	13.5	12.5	11.6	10.6	9.6	9.0	8.7	24	15.3	8.7	11.5
5/24/07	8.0	7.7	7.6	7.0	4.8	3.9	3.7	3.9	4.3	5.0	5.4	6.6	8.0	9.2	10.1	11.1	11.7	12.2	12.4	12.3	12.0	11.9	11.7	11.5	24	12.4	3.7	8.4
5/25/07	11.2	10.8	11.0	10.8	9.3	9.9	11.9	12.8	10.2	10.6	11.4	14.6	16.7	17.3	18.1	18.5	18.1	17.7	17.5	16.3	15.0	13.0	12.3	10.6	24	18.5	9.3	13.6
5/26/07	8.6	7.3	6.4	5.9	4.6	3.9	3.1	2.6	3.1	3.6	4.8	5.7	6.7	8.5	10.4	11.3	11.6	11.5	11.2	10.9	10.7	10.6	10.2	10.1	24	11.6	2.6	7.6
5/27/07	10.0	9.9	9.4	9.5	9.6	9.5	9.6	9.6	9.1	9.1	9.7	10.4	10.7	11.4	12.0	12.7	13.6	14.7	15.0	14.9	14.6	14.7	15.1	14.6	24	15.1	9.1	11.6
5/28/07	14.2	13.8	13.8	14.3	14.7	15.0	15.5	17.0	18.5	20.0	21.1	22.6	23.9	24.4	24.9	24.7	25.3	24.8	23.8	22.3	20.9	20.0	19.9	19.7	24	25.3	13.8	19.8
5/29/07	16.9	15.8	15.6	15.3	15.2	15.2	15.4	14.3	15.6	15.9	16.5	17.3	17.7	18.4	18.8	18.8	18.3	18.2	17.9	17.2	16.8	16.8	16.5	16.1	24	18.8	14.3	16.7
5/30/07	16.0	15.9	16.1	15.1	14.2	13.1	12.2	11.5	11.4	11.5	11.2	11.0	11.2	11.6	11.8	11.8	11.0	10.6	10.3	10.3	10.2	10.1	9.8	9.7	24	16.1	9.7	12.0
5/31/07	9.8	9.7	9.6	9.6	9.6	9.3	9.4	9.9	10.9	11.8	13.3	13.9	14.4	15.4	16.0	15.2	15.6	15.5	14.8	14.4	13.5	12.8	12.8	11.9	24	16.0	9.3	12.5
hr max	24.8	25.3	22.5	22.2	21.6	21.7	21.3	20.6	21.2	22.5	24.3	25.8	27.0	28.3	29.4	30.4	30.1	29.5	28.6	26.7	25.6	24.9	25.0	24.4				
hr min	7.0	7.0	6.4	5.9	4.6	3.9	3.1	2.6	3.1	3.6	4.8	5.7	6.7	8.5	10.1	11.1	11.0	10.6	10.3	10.3	8.7	8.0	7.7	7.1				
average	13.9	13.7	13.3	12.8	12.3	11.8	11.5	11.6	12.2	13.2	14.3	15.5	16.5	17.3	18.0	18.2	18.3	18.1	17.6	16.9	15.9	15.2	14.8	14.4				

monthly max hr	monthly min hr	monthly ave hr
30.4	2.6	14.9
5/13/07	5/26/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.72	0.56	0.80	0.50	0.60	0.47	-0.05	-0.63	-0.97	-1.38	-1.56	-1.64	-1.41	-1.31	-1.16	-0.86	-0.86	-0.48	0.08	1.18	1.91	1.66	0.90	0.81	24	1.91	-1.64	-0.09
5/2/07	0.89	0.40	0.39	0.22	0.33	0.16	0.02	-0.50	-0.89	-1.26	-1.53	-1.62	-1.68	-1.55	-1.43	-1.17	-0.82	-0.44	0.03	0.50	0.65	0.53	0.47	0.48	24	0.89	-1.68	-0.33
5/3/07	0.44	0.47	0.41	0.41	0.41	0.33	-0.12	-0.38	-0.92	-1.21	-1.39	-1.51	-1.58	-1.29	-0.98	-0.78	-0.59	-0.45	-0.15	-0.04	-0.10	-0.11	-0.13	-0.05	24	0.47	-1.58	-0.39
5/4/07	-0.05	-0.05	-0.04	-0.04	-0.04	-0.01	-0.01	-0.01	-0.30	-0.95	-1.05	-1.05	-1.11	-0.96	-0.77	-0.59	-0.14	-0.01	0.29	0.81	0.22	-0.01	-0.04	0.03	24	0.81	-1.11	-0.25
5/5/07	0.17	0.09	-0.06	-0.06	-0.06	-0.07	-0.06	-0.08	-0.14	-0.11	-0.14	-0.20	-0.11	-0.02	0.13	0.04	0.14	0.19	0.10	0.05	0.02	0.08	0.20	0.80	24	0.80	-0.20	0.04
5/6/07	0.70	0.39	0.15	0.12	0.08	0.09	0.07	0.00	0.04	-0.06	-0.54	-0.59	-0.79	-0.87	-0.75	-0.70	-0.55	-0.27	-0.02	0.31	0.55	0.40	0.24	0.20	24	0.70	-0.87	-0.08
5/7/07	0.26	0.30	0.38	0.05	0.06	0.06	0.00	-0.09	-0.18	-0.35	-0.68	-0.90	-1.15	-1.41	-0.83	-0.62	-0.30	-0.05	0.50	1.01	0.93	1.97	3.58	4.30	24	4.30	-1.41	0.29
5/8/07	5.39	4.49	4.56	4.66	3.80	3.38	0.65	0.07	-0.35	-0.58	-0.61	-0.58	-0.94	-0.93	-0.93	-0.74	-0.54	-0.18	0.37	1.20	4.13	4.03	2.48	1.37	24	5.39	-0.94	1.43
5/9/07	1.34	1.53	2.18	3.84	2.05	1.35	0.21	-0.39	-0.78	-0.99	-1.01	-1.07	-1.21	-1.09	-0.94	-0.74	-0.45	-0.12	0.33	1.21	1.17	1.38	2.06	2.20	24	3.84	-1.21	0.50
5/10/07	2.86	3.38	3.74	2.22	1.47	0.60	0.05	-0.30	-0.71	-1.05	-1.04	-1.33	-1.29	-1.20	-1.14	-0.87	-0.52	-0.10	0.34	0.75	0.99	0.92	0.86	0.89	24	3.74	-1.33	0.40
5/11/07	0.92	1.28	1.82	0.87	0.64	0.54	-0.04	-0.39	-0.53	-0.99	-0.99	-1.33	-1.38	-1.26	-1.12	-0.88	-0.53	-0.15	0.28	0.69	0.39	0.26	0.21	0.17	24	1.82	-1.38	-0.06
5/12/07	0.13	0.17	0.22	0.24	0.25	0.17	-0.10	-0.39	-0.58	-0.86	-1.13	-1.13	-1.23	-1.00	-0.88	-0.83	-0.49	-0.07	0.39	0.45	0.44	0.48	0.56	1.00	24	1.00	-1.23	-0.17
5/13/07	1.39	1.32	1.51	2.24	1.43	1.23	0.31	-0.20	-0.60	-0.93	-0.95	-1.00	-1.00	-0.91	-0.71	-0.41	-0.18	0.52	0.71	2.13	2.48	2.74	1.96	1.60	24	2.74	-1.00	0.61
5/14/07	2.13	3.26	1.81	1.38	0.82	0.41	-0.10	-0.46	-0.53	-0.81	-1.09	-1.33	-1.54	-1.47	-0.98	-0.71	-0.37	-0.21	-0.04	0.07	0.17	0.29	0.34	0.28	24	3.26	-1.54	0.05
5/15/07	0.27	0.32	0.24	0.03	0.02	0.11	-0.18	-0.64	-1.04	-1.30	-1.51	-1.58	-1.05	-0.32	-0.97	-0.69	-0.47	-0.33	0.10	0.82	2.01	2.06	2.01	1.09	24	2.06	-1.58	-0.04
5/16/07	1.24	1.35	1.50	1.10	1.66	1.89	-0.05	-0.56	-0.87	-1.11	-1.08	-1.23	-1.24	-1.16	-1.02	-1.02	-0.78	-0.34	0.44	1.77	2.68	1.90	1.38	1.47	24	2.68	-1.24	0.33
5/17/07	1.40	0.91	0.98	1.26	2.05	0.90	-0.02	-0.41	-0.70	-0.97	-1.14	-1.20	-1.29	-1.21	-1.02	-0.76	-0.45	-0.14	0.19	0.54	0.60	0.61	0.71	0.57	24	2.05	-1.29	0.06
5/18/07	0.55	0.58	0.67	0.67	0.58	0.46	0.02	-0.36	-0.74	-0.98	-1.12	-1.16	-1.09	-0.86	-0.65	-0.38	0.08	0.56	0.87	1.23	1.11	1.14	1.13	0.89	24	1.23	-1.16	0.13
5/19/07	0.95	0.46	0.34	0.36	0.43	0.85	0.06	-0.25	-0.51	-1.08	-1.49	-1.33	-1.37	-1.06	-1.26	-1.06	-0.77	-0.50	-0.05	0.11	0.24	0.09	-0.07	-0.09	24	0.95	-1.49	-0.29
5/20/07	-0.11	-0.12	-0.10	-0.09	-0.09	-0.10	-0.16	-0.24	-0.37	-0.53	-0.36	-1.31	-1.29	-0.71	-0.85	-0.62	-0.09	0.25	0.36	0.65	0.61	0.36	0.51	0.30	24	0.65	-1.31	-0.17
5/21/07	0.31	0.35	0.32	0.31	0.36	0.33	-0.19	-0.30	-0.68	-0.79	-0.96	-1.02	-0.87	-0.65	-0.23	-0.10	0.01	0.09	0.30	0.34	0.29	0.16	-0.04	0.22	24	0.36	-1.02	-0.10
5/22/07	1.13	0.80	0.44	0.39	0.18	0.03	0.06	0.11	-0.31	-0.63	-0.84	-0.78	-0.78	-0.86	-0.37	-0.04	0.02	-0.02	-0.16	-0.09	-0.05	-0.03	0.00	-0.02	24	1.13	-0.86	-0.08
5/23/07	0.02	0.00	0.07	0.14	0.36	0.23	-0.09	-0.36	-0.79	-0.90	-1.02	-0.94	-0.86	-0.96	-0.76	-0.73	-0.59	-0.19	0.05	0.31	0.43	0.44	0.31	0.28	24	0.44	-1.02	-0.23
5/24/07	0.25	0.13	0.12	0.17	0.11	0.09	-0.08	-0.28	-0.90	-1.09	-1.32	-1.69	-1.58	-1.59	-1.42	-1.10	-0.96	-0.55	-0.04	1.09	3.79	4.13	3.77	2.58	24	4.13	-1.69	0.15
5/25/07	1.37	0.80	0.79	0.68	0.36	0.17	0.14	0.05	-0.09	-0.03	-0.02	-0.11	-0.62	-0.74	-0.64	-0.48	-0.05	0.30	0.44	0.84	0.60	0.25	0.11	0.16	24	1.37	-0.74	0.18
5/26/07	0.18	0.10	0.03	-0.10	-0.15	-0.10	-0.13	-0.24	-0.38	-0.47	-0.65	-0.71	-1.08	-1.45	-1.32	-1.19	-0.94	-0.51	0.10	0.89	2.05	2.81	3.64	3.15	24	3.64	-1.45	0.15
5/27/07	3.04	2.71	3.80	3.49	2.79	1.56	0.14	-0.09	-0.22	-0.22	-0.20	-0.20	-0.14	-0.42	-0.37	-0.26	-0.34	-0.07	0.18	0.30	0.49	0.50	0.63	0.27	24	3.80	-0.42	0.72
5/28/07	0.23	0.24	0.22	0.20	0.20	0.17	-0.03	-0.26	-0.43	-0.52	-0.54	-0.54	-0.63	-0.71	-0.54	0.01	0.00	0.15	0.30	0.41	0.36	0.28	0.33	0.25	24	0.41	-0.71	-0.04
5/29/07	0.09	0.27	0.62	0.64	0.65	0.46	0.11	-0.33	-0.40	-0.41	-0.73	-1.02	-0.87	-0.67	-0.89	-0.58	-0.13	-0.17	0.22	0.52	0.81	0.55	0.60	0.50	24	0.81	-1.02	-0.01
5/30/07	0.40	0.42	0.35	0.23	0.33	0.17	0.04	-0.02	-0.06	-0.07	0.01	0.08	-0.33	-0.38	-0.32	-0.33	-0.24	-0.22	-0.17	-0.06	0.01	-0.01	0.00	0.03	24	0.42	-0.38	-0.01
5/31/07	0.02	0.02	0.05	0.10	0.11	0.00	-0.21	-0.34	-0.66	-0.76	-0.69	-0.09	-0.29	-0.61	-0.50	-0.70	-0.57	0.11	0.32	0.29	0.27	0.20	0.22	0.18	24	0.32	-0.76	-0.15
hr max	5.39	4.49	4.56	4.66	3.80	3.38	0.65	0.11	0.04	-0.03	0.01	0.08	-0.11	-0.02	0.13	0.04	0.14	0.56	0.87	2.13	4.13	4.13	3.77	4.30				
hr min	-0.11	-0.12	-0.10	-0.10	-0.15	-0.10	-0.21	-0.64	-1.04	-1.38	-1.56	-1.69	-1.68	-1.59	-1.43	-1.19	-0.96	-0.55	-0.17	-0.09	-0.10	-0.11	-0.13	-0.09				
average	0.92	0.87	0.91	0.85	0.70	0.51	0.01	-0.27	-0.54	-0.75	-0.88	-0.97	-1.03	-0.96	-0.83	-0.64	-0.40	-0.11	0.21	0.65	0.98	0.97	0.93	0.84				

monthly	monthly	monthly
max hr	min hr	ave hr
5.39	-1.69	0.08
5/8/07	5/24/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
degC
50-10

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
5/1/07	0.76	0.44	0.64	1.26	1.37	1.29	0.36	-0.55	-0.78	-0.88	-0.96	-0.92	-0.86	-0.86	-0.72	-0.63	-0.63	-0.46	-0.25	1.02	2.60	3.20	2.41	2.42	24	3.20	-0.96	0.39
5/2/07	2.24	1.51	1.27	0.54	1.41	1.30	0.25	-0.50	-0.72	-0.91	-0.98	-1.03	-1.00	-1.03	-1.06	-1.04	-0.88	-0.73	-0.39	0.24	0.69	0.67	0.78	0.83	24	2.24	-1.06	0.06
5/3/07	0.75	0.82	0.85	0.97	0.89	0.98	-0.08	-0.42	-0.74	-0.95	-1.02	-1.20	-1.14	-1.12	-0.95	-0.91	-0.79	-0.69	-0.46	-0.35	-0.37	-0.37	-0.35	-0.23	24	0.98	-1.20	-0.29
5/4/07	-0.24	-0.26	-0.23	-0.25	-0.24	-0.22	-0.14	-0.21	-0.43	-0.63	-0.64	-0.75	-0.76	-0.74	-0.69	-0.55	-0.34	-0.14	0.05	0.27	0.26	-0.14	-0.09	-0.22	24	0.27	-0.76	-0.31
5/5/07	0.04	0.06	-0.15	-0.14	-0.14	-0.15	-0.14	-0.11	-0.31	-0.47	-0.45	-0.42	-0.39	-0.23	-0.07	-0.21	-0.05	0.24	-0.07	-0.12	-0.13	-0.11	1.50	5.36	24	5.36	-0.47	0.14
5/6/07	1.58	0.71	0.01	-0.12	-0.16	-0.18	-0.20	-0.25	-0.21	-0.26	-0.55	-0.65	-0.75	-0.82	-0.81	-0.75	-0.63	-0.49	-0.31	0.23	0.97	0.84	0.57	0.55	24	1.58	-0.82	-0.07
5/7/07	0.35	0.37	0.74	0.17	-0.13	-0.19	-0.25	-0.31	-0.36	-0.43	-0.58	-0.69	-0.75	-0.85	-0.64	-0.55	-0.42	-0.30	-0.03	1.32	2.12	1.33	1.84	1.30	24	2.12	-0.85	0.13
5/8/07	0.59	1.44	3.45	3.05	3.40	4.70	3.72	1.34	0.04	-0.54	-0.58	-0.58	-0.62	-0.72	-0.73	-0.67	-0.56	-0.47	-0.33	-0.05	0.99	2.78	1.97	2.92	24	4.70	-0.73	1.02
5/9/07	3.25	3.94	4.99	5.47	4.31	4.81	3.76	0.07	-0.57	-0.68	-0.73	-0.89	-0.81	-0.80	-0.76	-0.65	-0.65	-0.50	0.20	2.34	3.26	4.47	4.60	4.18	24	5.47	-0.89	1.78
5/10/07	3.82	2.95	2.50	3.38	4.15	1.39	0.02	-0.41	-0.68	-0.87	-0.81	-0.90	-0.88	-0.85	-0.78	-0.72	-0.58	-0.39	0.04	0.79	2.09	1.23	1.06	0.80	24	4.15	-0.90	0.68
5/11/07	1.13	1.06	1.00	1.58	1.32	0.86	-0.14	-0.45	-0.54	-0.77	-0.72	-0.88	-0.92	-0.94	-0.87	-0.76	-0.61	-0.37	-0.14	0.59	0.19	0.00	-0.02	-0.03	24	1.58	-0.94	-0.02
5/12/07	-0.06	-0.01	0.08	0.12	0.13	0.08	-0.25	-0.46	-0.59	-0.71	-0.86	-0.83	-0.76	-0.81	-0.85	-0.79	-0.65	-0.41	-0.02	0.16	0.28	0.30	0.30	0.78	24	0.78	-0.86	-0.24
5/13/07	2.05	4.67	4.03	4.16	4.72	4.64	2.19	-0.07	-0.64	-0.81	-0.80	-0.84	-0.90	-0.87	-0.91	-0.78	-0.75	-0.15	-0.24	0.98	1.16	1.89	2.96	2.20	24	4.72	-0.91	1.16
5/14/07	4.00	4.33	1.29	1.61	0.67	0.67	-0.36	-0.57	-0.61	-0.79	-0.96	-1.08	-1.22	-1.17	-0.96	-0.87	-0.63	-0.50	-0.38	-0.28	-0.21	-0.04	0.02	0.03	24	4.33	-1.22	0.08
5/15/07	0.06	0.26	0.35	-0.16	-0.21	-0.19	-0.35	-0.58	-0.75	-0.80	-0.86	-0.87	-0.88	-0.61	-0.85	-0.63	-0.62	-0.57	-0.46	0.12	1.90	2.88	2.06	3.27	24	3.27	-0.88	0.06
5/16/07	3.20	4.39	3.56	2.33	1.56	2.28	0.86	-0.44	-0.54	-0.60	-0.66	-0.75	-0.82	-0.73	-0.62	-0.64	-0.55	-0.40	-0.06	0.62	2.74	3.37	3.65	4.54	24	4.54	-0.82	1.10
5/17/07	4.35	3.84	3.73	3.75	4.27	2.98	0.77	-0.42	-0.72	-0.86	-0.97	-1.02	-1.03	-0.98	-0.98	-0.85	-0.73	-0.53	-0.13	0.56	1.29	1.89	1.63	0.89	24	4.35	-1.03	0.86
5/18/07	0.61	0.76	1.04	1.71	1.53	1.28	0.27	-0.52	-0.67	-0.79	-0.77	-0.83	-0.85	-0.92	-0.93	-0.80	-0.62	-0.36	0.63	2.45	2.51	2.54	2.68	1.49	24	2.68	-0.93	0.48
5/19/07	0.76	0.17	0.18	0.13	0.01	0.47	-0.04	-0.45	-0.59	-0.78	-0.94	-0.85	-0.84	-0.84	-0.87	-0.79	-0.70	-0.55	-0.31	-0.17	0.02	-0.18	-0.31	-0.34	24	0.76	-0.94	-0.33
5/20/07	-0.31	-0.22	-0.17	-0.16	-0.17	-0.17	-0.21	-0.24	-0.29	-0.45	-0.48	-1.33	-1.13	-0.67	-0.75	-0.58	-0.38	-0.21	0.01	0.89	1.06	0.54	0.75	0.96	24	1.06	-1.33	-0.15
5/21/07	0.30	0.29	0.35	0.11	0.21	0.27	0.24	-0.42	-0.66	-0.82	-0.84	-0.88	-0.88	-0.80	-0.57	-0.47	-0.38	-0.32	-0.04	0.12	0.06	-0.11	-0.31	0.10	24	0.35	-0.88	-0.23
5/22/07	0.58	1.36	0.53	0.27	0.14	0.18	-0.07	-0.05	-0.32	-0.53	-0.50	-0.60	-0.59	-0.64	-0.50	-0.36	-0.33	-0.33	-0.42	-0.37	-0.33	-0.32	-0.29	-0.24	24	1.36	-0.64	-0.16
5/23/07	-0.18	-0.11	-0.01	0.16	0.35	0.73	-0.14	-0.47	-0.52	-0.59	-0.72	-0.69	-0.63	-0.60	-0.61	-0.61	-0.58	-0.32	-0.21	0.04	0.22	0.38	0.44	0.45	24	0.73	-0.72	-0.18
5/24/07	0.55	0.30	0.23	-0.04	-0.24	-0.22	-0.32	-0.41	-0.59	-0.66	-0.70	-0.75	-0.67	-0.75	-0.68	-0.62	-0.62	-0.55	-0.40	-0.07	0.33	1.31	2.41	3.48	24	3.48	-0.75	0.01
5/25/07	3.81	3.60	2.95	1.52	0.75	0.39	0.67	0.57	-0.16	-0.07	-0.06	-0.14	-0.55	-0.73	-0.64	-0.57	-0.25	0.07	0.24	0.81	0.61	0.14	-0.10	0.00	24	3.81	-0.73	0.54
5/26/07	0.01	-0.11	-0.19	-0.27	-0.28	-0.30	-0.36	-0.41	-0.49	-0.50	-0.57	-0.56	-0.68	-0.82	-0.73	-0.76	-0.69	-0.53	-0.36	0.15	0.66	1.05	1.34	1.15	24	1.34	-0.82	-0.18
5/27/07	2.39	2.36	1.73	2.07	2.93	2.81	2.11	0.92	-0.26	-0.36	-0.37	-0.37	-0.36	-0.50	-0.50	-0.45	-0.50	-0.35	-0.16	0.03	0.31	0.50	0.90	0.49	24	2.93	-0.50	0.64
5/28/07	0.19	0.18	0.24	0.41	0.47	0.40	-0.09	-0.39	-0.53	-0.64	-0.68	-0.70	-0.77	-0.88	-0.73	-0.30	-0.33	-0.19	-0.08	0.20	0.32	0.35	0.29	0.11	24	0.47	-0.88	-0.13
5/29/07	-0.19	-0.07	0.26	0.76	1.02	0.60	-0.04	-0.42	-0.54	-0.51	-0.61	-0.69	-0.70	-0.67	-0.80	-0.78	-0.54	-0.53	-0.35	0.07	0.70	1.32	1.70	1.28	24	1.70	-0.80	0.01
5/30/07	1.38	1.28	1.13	0.24	0.10	-0.11	-0.25	-0.29	-0.33	-0.34	-0.32	-0.26	-0.47	-0.51	-0.46	-0.49	-0.46	-0.42	-0.37	-0.29	-0.22	-0.22	-0.19	-0.17	24	1.38	-0.51	-0.09
5/31/07	-0.15	-0.15	-0.15	-0.02	-0.03	-0.15	-0.37	-0.47	-0.64	-0.74	-0.61	-0.26	-0.34	-0.60	-0.53	-0.60	-0.63	-0.19	0.05	0.15	0.06	0.11	0.13	0.02	24	0.15	-0.74	-0.25
hr max	4.35	4.67	4.99	5.47	4.72	4.81	3.76	1.34	0.04	-0.07	-0.06	-0.14	-0.34	-0.23	-0.07	-0.21	-0.05	0.24	0.63	2.45	3.26	4.47	4.60	5.36				
hr min	-0.31	-0.26	-0.23	-0.27	-0.28	-0.30	-0.37	-0.58	-0.78	-0.95	-1.02	-1.33	-1.22	-1.17	-1.06	-1.04	-0.88	-0.73	-0.46	-0.37	-0.37	-0.37	-0.35	-0.34				
average	1.21	1.30	1.17	1.12	1.10	1.01	0.37	-0.24	-0.51	-0.64	-0.69	-0.75	-0.77	-0.78	-0.73	-0.65	-0.55	-0.38	-0.15	0.40	0.84	1.02	1.11	1.24				

monthly max hr	monthly min hr	monthly ave hr
5.47	-1.33	0.21
5/9/07	5/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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	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
5/1/07	0.47	0.13	0.23	0.40	0.23	0.52	0.25	-0.43	-0.58	-0.59	-0.64	-0.60	-0.64	-0.59	-0.59	-0.59	-0.59	-0.53	-0.50	-0.31	-0.26	-0.16	0.29	0.04	24	0.52	-0.64	-0.21
5/2/07	0.16	0.89	1.32	1.26	1.31	1.27	1.32	-0.37	-0.55	-0.59	-0.58	-0.65	-0.69	-0.59	-0.62	-0.63	-0.61	-0.55	-0.45	0.06	0.61	0.92	1.58	1.80	24	1.80	-0.69	0.23
5/3/07	1.68	2.18	2.25	1.66	1.24	1.27	0.66	-0.21	-0.54	-0.59	-0.64	-0.68	-0.66	-0.62	-0.56	-0.56	-0.58	-0.57	-0.50	-0.50	-0.50	-0.50	-0.41	-0.34	24	2.25	-0.68	0.08
5/4/07	-0.35	-0.37	-0.36	-0.31	-0.31	-0.31	-0.09	-0.32	-0.47	-0.55	-0.54	-0.56	-0.54	-0.50	-0.49	-0.53	-0.47	-0.41	-0.42	-0.27	-0.01	-0.02	0.00	-0.38	24	0.00	-0.56	-0.36
5/5/07	-0.28	-0.23	-0.26	-0.26	-0.27	-0.28	-0.26	-0.13	-0.34	-0.50	-0.44	-0.51	-0.52	-0.37	-0.25	-0.34	-0.10	0.11	-0.21	-0.29	-0.23	-0.30	1.33	0.28	24	1.33	-0.52	-0.19
5/6/07	2.00	1.79	-0.09	-0.32	-0.36	-0.40	-0.41	-0.42	-0.40	-0.43	-0.54	-0.66	-0.68	-0.61	-0.66	-0.65	-0.59	-0.54	-0.49	-0.15	0.11	0.22	0.16	0.20	24	2.00	-0.68	-0.16
5/7/07	0.18	0.19	0.12	0.07	-0.33	-0.41	-0.46	-0.49	-0.51	-0.52	-0.53	-0.57	-0.59	-0.57	-0.56	-0.53	-0.50	-0.48	-0.45	-0.25	0.21	0.02	-0.19	0.06	24	0.21	-0.59	-0.30
5/8/07	-0.04	0.94	0.05	0.10	1.13	0.32	0.33	0.89	0.07	-0.54	-0.57	-0.58	-0.61	-0.54	-0.55	-0.56	-0.56	-0.56	-0.47	-0.40	-0.14	-0.02	1.23	2.80	24	2.80	-0.61	0.07
5/9/07	2.31	2.97	1.45	1.70	2.55	1.26	1.04	0.91	-0.34	-0.47	-0.61	-0.66	-0.63	-0.51	-0.57	-0.60	-0.54	-0.41	-0.24	0.02	0.45	0.56	1.31	1.24	24	2.97	-0.66	0.51
5/10/07	1.91	2.56	1.95	0.84	0.46	0.89	0.05	-0.44	-0.54	-0.62	-0.58	-0.59	-0.62	-0.59	-0.57	-0.56	-0.53	-0.51	-0.36	0.12	0.64	0.85	0.24	0.09	24	2.56	-0.62	0.17
5/11/07	0.42	0.41	0.47	0.32	0.61	0.87	0.02	-0.41	-0.50	-0.60	-0.60	-0.63	-0.61	-0.54	-0.57	-0.55	-0.51	-0.52	-0.46	0.06	-0.33	-0.42	-0.37	-0.30	24	0.87	-0.63	-0.20
5/12/07	-0.23	-0.24	-0.12	-0.14	-0.01	0.03	-0.27	-0.56	-0.56	-0.59	-0.78	-0.73	-0.74	-0.72	-0.63	-0.58	-0.60	-0.64	-0.45	-0.23	-0.02	0.06	0.00	0.75	24	0.75	-0.78	-0.33
5/13/07	3.16	3.06	3.44	2.48	0.76	1.49	1.16	0.44	-0.54	-0.55	-0.60	-0.65	-0.69	-0.56	-0.61	-0.56	-0.59	-0.38	-0.35	-0.16	0.51	0.82	0.55	1.81	24	3.44	-0.69	0.56
5/14/07	1.33	1.66	0.79	0.44	0.33	0.05	-0.51	-0.59	-0.58	-0.64	-0.65	-0.68	-0.76	-0.69	-0.66	-0.65	-0.59	-0.56	-0.52	-0.48	-0.43	-0.32	-0.27	-0.16	24	1.66	-0.76	-0.21
5/15/07	-0.10	0.31	0.57	-0.02	-0.23	-0.38	-0.45	-0.55	-0.61	-0.63	-0.69	-0.66	-0.74	-0.57	-0.66	-0.63	-0.59	-0.57	-0.52	-0.26	-0.16	-0.12	0.45	0.78	24	0.78	-0.74	-0.29
5/16/07	1.05	0.14	0.58	0.23	0.39	0.60	0.33	-0.49	-0.54	-0.56	-0.61	-0.60	-0.59	-0.57	-0.56	-0.59	-0.54	-0.53	-0.46	-0.30	-0.23	-0.21	-0.25	0.03	24	1.05	-0.61	-0.18
5/17/07	0.87	1.65	1.46	1.57	1.37	1.68	1.39	-0.08	-0.59	-0.70	-0.71	-0.76	-0.74	-0.64	-0.66	-0.67	-0.62	-0.51	-0.24	0.11	0.75	0.54	0.39	0.22	24	1.68	-0.76	0.21
5/18/07	0.28	0.53	0.64	0.83	1.90	2.51	1.86	-0.20	-0.57	-0.59	-0.64	-0.67	-0.71	-0.62	-0.64	-0.63	-0.59	-0.46	0.04	0.74	0.92	0.95	0.92	0.60	24	2.51	-0.71	0.27
5/19/07	0.14	-0.20	-0.05	-0.16	-0.16	0.40	-0.17	-0.52	-0.52	-0.56	-0.55	-0.61	-0.68	-0.62	-0.63	-0.63	-0.56	-0.56	-0.48	-0.46	-0.38	-0.49	-0.49	-0.47	24	0.40	-0.68	-0.39
5/20/07	-0.44	-0.30	-0.29	-0.28	-0.30	-0.30	-0.30	-0.31	-0.32	-0.33	-0.59	-0.80	-0.35	-0.52	-0.52	-0.57	-0.55	-0.46	-0.18	1.13	1.18	0.62	0.55	1.59	24	1.59	-0.80	-0.11
5/21/07	0.29	0.42	0.55	0.01	0.06	0.05	0.42	-0.45	-0.55	-0.65	-0.66	-0.71	-0.68	-0.62	-0.56	-0.50	-0.46	-0.42	-0.25	-0.10	-0.15	-0.37	-0.28	0.07	24	0.55	-0.71	-0.23
5/22/07	-0.11	0.14	0.32	0.06	-0.07	-0.12	0.09	-0.02	-0.27	-0.57	-0.59	-0.56	-0.53	-0.54	-0.54	-0.48	-0.47	-0.43	-0.49	-0.46	-0.44	-0.43	-0.38	-0.35	24	0.32	-0.59	-0.30
5/23/07	-0.30	-0.29	-0.10	0.08	0.16	0.50	-0.06	-0.56	-0.59	-0.55	-0.54	-0.60	-0.57	-0.47	-0.30	-0.19	0.07	-0.18	-0.37	-0.33	-0.11	-0.09	0.22	0.13	24	0.50	-0.60	-0.21
5/24/07	0.05	0.24	0.09	-0.32	-0.45	-0.42	-0.48	-0.53	-0.57	-0.60	-0.61	-0.63	-0.63	-0.64	-0.59	-0.60	-0.59	-0.57	-0.52	-0.43	-0.35	-0.25	-0.22	-0.13	24	0.24	-0.64	-0.41
5/25/07	0.01	0.32	0.90	2.27	1.41	1.53	2.69	3.07	0.58	0.16	0.29	-0.17	-0.62	-0.52	-0.60	-0.62	-0.47	-0.23	-0.11	-0.09	0.33	-0.16	-0.33	-0.30	24	3.07	-0.62	0.39
5/26/07	-0.28	-0.38	-0.45	-0.14	-0.48	-0.46	-0.54	-0.58	-0.60	-0.59	-0.58	-0.59	-0.61	-0.60	-0.62	-0.59	-0.60	-0.55	-0.52	-0.37	-0.28	-0.30	-0.24	-0.20	24	-0.14	-0.62	-0.46
5/27/07	-0.01	0.02	-0.10	-0.01	-0.04	0.03	0.20	0.30	0.06	-0.39	-0.48	-0.48	-0.48	-0.51	-0.51	-0.51	-0.52	-0.52	-0.45	-0.29	-0.02	0.56	0.82	0.69	24	0.82	-0.52	-0.11
5/28/07	0.27	0.19	0.39	0.75	0.76	0.68	0.09	-0.41	-0.55	-0.65	-0.68	-0.67	-0.73	-0.62	-0.64	-0.47	-0.46	-0.35	-0.35	-0.16	-0.02	0.20	0.06	-0.07	24	0.76	-0.73	-0.14
5/29/07	-0.31	-0.32	-0.24	-0.18	0.02	0.20	0.05	-0.48	-0.55	-0.56	-0.56	-0.61	-0.64	-0.62	-0.62	-0.63	-0.53	-0.54	-0.45	-0.29	-0.12	0.06	-0.10	-0.02	24	0.20	-0.64	-0.34
5/30/07	0.33	0.32	0.54	0.32	-0.07	-0.26	-0.35	-0.37	-0.41	-0.42	-0.42	-0.37	-0.51	-0.55	-0.54	-0.54	-0.48	-0.49	-0.48	-0.39	-0.37	-0.41	-0.48	-0.37	24	0.54	-0.55	-0.28
5/31/07	-0.34	-0.35	-0.37	-0.15	-0.21	-0.30	-0.45	-0.54	-0.59	-0.61	-0.62	-0.44	-0.44	-0.54	-0.55	-0.48	-0.52	-0.41	-0.33	0.07	-0.23	-0.06	0.12	-0.06	24	0.12	-0.62	-0.35
hr max	3.16	3.06	3.44	2.48	2.55	2.51	2.69	3.07	0.58	0.16	0.29	-0.17	-0.35	-0.37	-0.25	-0.19	0.07	0.11	0.04	1.13	1.18	0.95	1.58	2.80				
hr min	-0.44	-0.38	-0.45	-0.32	-0.48	-0.46	-0.54	-0.59	-0.61	-0.70	-0.78	-0.80	-0.76	-0.72	-0.66	-0.67	-0.62	-0.64	-0.52	-0.50	-0.50	-0.50	-0.49	-0.47				
average	0.46	0.59	0.51	0.42	0.37	0.40	0.23	-0.16	-0.44	-0.53	-0.57	-0.60	-0.62	-0.57	-0.57	-0.56	-0.51	-0.46	-0.39	-0.15	0.03	0.06	0.20	0.32				

monthly max hr	monthly min hr	monthly ave hr
3.44	-0.80	-0.11
5/13/07	5/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/2/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/3/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/4/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/5/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/6/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/7/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/8/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/9/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/10/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/11/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/12/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/14/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/15/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/16/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/17/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/18/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/19/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/20/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/21/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/22/07	0.1			0.1	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	1.4	0.1	0.2
5/23/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/24/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/25/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/26/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/27/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/28/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/29/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/30/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
5/31/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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!				

monthly	monthly	monthly
max hr	min hr	ave hr
1.4	0.1	0.1
5/22/07	5/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	703
possible hours	744
data capture	94.5%

Max 3 hr ave.	0.8	5/22/07 3:00
Max 24 hr ave.	0.2	5/22/07 2:00

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	3.5			1.8	1.8	1.7	1.9	1.8	1.3	1.2	1.3	1.3	1.5	1.6	2.0	1.1	1.1	2.0	2.5	3.4	3.5	2.5	2.3		21	3.50	1.10	1.96
5/2/07	2.3	2.0	2.0	1.8	2.1	2.3	2.5	2.1	1.9	1.6	1.5	1.5	1.7	2.4	2.5	2.7	2.9	3.1	3.4	3.9	3.5	2.4	2.2		23	3.90	1.50	2.36
5/3/07	2.2	2.3	2.5	2.6	2.7	3.1	3.2	3.2	3.0	2.7	2.3	2.5	3.1	3.2	3.5	3.8	4.1	4.4	4.9	5.5	5.6	4.9	4.5		23	5.60	2.20	3.47
5/4/07	3.0	2.8	2.8	2.8	2.8	2.9	3.0	2.7	2.4	2.2	2.4	3.2	4.0	4.2	4.7	5.2	5.8	6.6	6.2	6.7	5.9	5.3	4.3		23	6.70	2.20	4.00
5/5/07	3.6	3.6	3.3	3.7	3.3	3.3	3.3	3.5	3.3	2.3	2.3	2.2	2.2	2.3	2.1	2.1	2.1	1.7	2.4	2.8	2.7	2.2	2.1		23	3.70	1.70	2.72
5/6/07	2.0	1.8	1.8	1.7	1.8	1.7	1.7	1.7	1.9	1.9	1.7	1.8	2.7	3.8	4.4	4.8	5.1	5.2	5.1	5.0	4.9	4.3	3.3		23	5.20	1.70	3.05
5/7/07	2.2	2.3	2.4	2.6	2.4	2.2	3.1	2.8	2.0	2.1	1.9	1.8	2.1	1.9	1.9	2.9	3.5	4.2	4.6	7.1	5.9	4.9	4.3		23	7.10	1.80	3.09
5/8/07	2.6			2.9	2.1	2.7	2.3	2.3	2.1	1.6	2.3	3.4	3.8	4.8	6.4	7.7	6.8	6.6	8.2	7.7	9.1	8.4	6.7		21	9.10	1.60	4.78
5/9/07	4.7	3.7	3.1	3.1	2.8	2.9	2.3	1.9	2.1	2.3	2.6	2.9	4.1	4.1	5.2	4.6	4.8	4.8	4.7	6.1	7.3	6.5	6.0		23	7.30	1.90	4.02
5/10/07	4.8	4.2	3.7	3.7	3.2	3.7	3.7	2.9	2.5	2.5	2.7	3.0	3.3	3.9	4.3	4.7	4.7	4.6	4.7	5.6	5.5	4.1	3.4		23	5.60	2.50	3.89
5/11/07	2.7	3.0	3.0	3.4	3.4	3.2	2.5	2.5	2.4	2.2	2.0	1.8	2.1	2.7	3.3	3.5	3.5	4.1	4.5	5.6	6.0	4.9	4.2		23	6.00	1.80	3.33
5/12/07	2.9	2.7	2.8	2.8	2.7	2.7	2.9	3.2	3.2	3.2	2.9	2.7	2.7	3.5	4.4	4.2	4.3	4.6	5.0	6.9	6.8	6.7	6.4		23	6.90	2.70	3.92
5/13/07	6.2	6.0	4.9	4.0	3.3	2.9	2.8	3.2	3.3	4.2	4.7	5.1	5.2	4.6	4.5	3.9	3.2	4.7	6.5	8.7	11.5	12.1	12.0		23	12.10	2.80	5.55
5/14/07	12.4	12.0	7.8	7.2	6.5	6.0	4.3	4.3	3.7	2.5	2.1	2.2	2.6	3.1	3.3	4.0	3.8	3.1	2.7	2.0	2.0	2.5	2.3		23	12.40	2.00	4.45
5/15/07	2.2			2.4	2.6	2.2	1.9	1.6	1.4	2.4	2.7	1.2	1.4	1.8	1.9	2.3	2.2	1.2	1.2	2.2	3.7	2.8	2.0		21	3.70	1.20	2.06
5/16/07	2.0	2.0	2.2	2.4	2.9	3.5	3.4	2.6	2.4	1.7	1.4	1.6	2.1	2.5	3.0	2.8	1.2	1.3	1.6	2.6	2.8	2.5	1.8		23	3.50	1.20	2.27
5/17/07	1.8	1.7	1.5	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.3	1.6	1.8	1.7	1.4	1.4	1.6	1.7	1.8	2.0	2.8	3.1	3.2		23	3.16	1.30	1.81
5/18/07	3.3	3.1	2.7	2.7	2.5	2.7	3.1	2.8	2.9	3.2	3.4	3.4	2.3	2.2	2.0	1.6	1.4	1.5	1.8	2.2	2.6	3.5	4.4		23	4.43	1.40	2.67
5/19/07	5.0	4.0	4.0	3.6	3.8	4.2	4.3	3.0	3.0	2.2	2.2	2.3	2.5	2.6	2.3	2.2	2.2	2.2	2.5	2.7	2.7	2.5	2.2		23	5.00	2.20	2.97
5/20/07	2.2	2.2	2.1	2.1	2.3	2.3	2.3	2.4	3.1	2.9	2.6	2.5	2.3	2.6	2.6	2.3	2.2	2.7	2.7	3.0	4.8	3.8	3.3		23	4.80	2.10	2.67
5/21/07	2.6	2.4	3.1	4.1	4.5	4.3	4.0	4.1	4.1	3.6	3.8	2.7	2.5	2.3	2.2	2.1	2.1	2.1	2.0	2.5	2.9	2.5	2.7		23	4.50	2.00	3.01
5/22/07	5.1			4.7	3.9	4.0	3.4	2.4	3.1	3.1	2.7	3.7	4.6	5.5	4.1	2.7	4.1	4.4	3.8	3.3	3.2	2.9	2.5		21	5.50	2.40	3.68
5/23/07	2.5	2.7	2.8	2.7	2.2	2.4	2.3	1.8	1.8	1.7	1.8	2.0	2.4	2.6	2.6	2.6	2.3	1.9	1.4	1.2	1.2	1.3	1.3		23	2.80	1.20	2.06
5/24/07	1.7	1.4	1.3	1.3	1.2	1.2	1.3	1.2	1.2	1.1	1.1	1.2	1.2	1.3	1.3	1.5	1.4	1.7	1.7	2.4	2.8	2.4	2.4		23	2.80	1.10	1.54
5/25/07	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.2	2.3	2.6	2.1	2.0	2.1	1.9	1.7	1.9	2.3	2.7	2.6	2.1	1.8	1.9		23	2.70	1.70	2.05
5/26/07	2.5	2.1	1.6	1.3	1.2	1.2	1.6	2.1	2.6	2.2	2.0	1.9	1.3	1.6	1.4	1.3	1.3	1.8	1.5	1.6	3.2	3.6	2.8		23	3.60	1.20	1.90
5/27/07	2.4	1.9	1.8	1.7	1.7	1.8	1.7	1.7	1.7	2.0	2.3	1.8	1.6	1.7	1.7	1.7	1.8	1.9	2.3	2.2	2.3	2.6	3.0		23	2.96	1.60	1.97
5/28/07	2.4	2.5	2.4	2.4	2.3	2.4	2.5	2.8	2.5	2.4	1.9	2.1	1.9	1.7	1.7	1.8	1.8	1.8	1.8	2.1	2.2	3.1	3.2		23	3.20	1.70	2.25
5/29/07	4.6			4.9	4.8	4.7	4.2	3.8	2.8	3.2	3.5	4.6	5.2	6.1	6.5	6.8	6.5	7.0	7.3	7.5	6.6	6.8	6.4		21	7.50	2.80	5.42
5/30/07	6.1	5.0	4.8	4.2	3.9	3.6	3.2	3.1	3.3	2.1	2.1	1.7	1.8	2.0	3.0	2.9	3.1	2.6	2.3	1.9	1.7	1.7	1.8		23	6.10	1.70	2.95
5/31/07	1.7	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.4	1.7	1.8	2.3	2.6	2.2	2.2	2.3	2.0	1.9	1.8	1.9		23	2.60	1.40	1.87
hr max	12.4	12.0	7.8	7.2	6.5	6.0	4.3	4.3	4.1	4.2	4.7	5.1	5.2	6.1	6.5	7.7	6.8	7.0	8.2	8.7	11.5	12.1	12.0	0.0				
hr min	1.7	1.4	1.3	1.3	1.2	1.2	1.3	1.2	1.2	1.1	1.1	1.2	1.2	1.3	1.3	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	0.0				
average	3.4	3.1	2.8	2.9	2.8	2.8	2.7	2.5	2.5	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.1	3.2	3.4	3.9	4.2	3.9	3.6	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
12.40	1.10	3.02
5/14/07	5/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	703
possible hours	744
data capture	94.5%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
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
5/1/07	1.4			0.3	0.2	0.1	0.3	0.5	0.3	0.3	0.6	0.6	0.7	1.0	1.3	0.6	0.6	1.4	1.8	1.5	1.2	0.5	0.1	
5/2/07	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.5	0.5	0.5	0.7	1.3	1.4	1.6	1.7	1.8	1.6	2.0	1.6	0.6	0.3	
5/3/07	0.2	0.2	0.2	0.3	0.1	0.3	0.6	0.7	0.7	0.7	0.6	0.8	1.4	1.5	1.7	2.0	2.0	2.1	2.2	2.1	1.4	0.8	0.6	
5/4/07	0.3	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6	0.7	0.9	1.5	2.2	2.4	3.0	3.3	3.7	4.1	3.3	3.4	2.9	2.3	1.9	
5/5/07	1.5	0.8	0.3	0.4	0.4	0.4	0.4	0.6	0.7	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	
5/6/07	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.5	1.2	2.0	2.8	3.1	3.5	3.6	3.6	3.1	2.5	1.8	1.1	
5/7/07	0.5	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.7	1.7	2.2	2.8	3.1	3.0	2.4	1.8	1.3	
5/8/07	0.7			0.5	0.3	0.3	0.5	0.7	0.7	0.6	1.4	2.4	2.9	3.8	5.2	6.5	5.6	5.3	6.7	5.7	4.4	3.9	3.2	
5/9/07	1.8	1.0	0.5	0.3	0.3	0.3	0.6	0.7	0.7	1.0	1.5	2.0	3.1	3.0	4.1	3.6	3.6	3.5	3.2	3.6	4.1	3.6	3.1	
5/10/07	2.3	1.6	1.1	0.6	0.4	0.5	0.9	1.1	1.0	1.0	1.4	1.6	2.0	2.7	3.1	3.5	3.6	3.4	3.3	3.7	3.1	2.0	1.2	
5/11/07	0.4	0.2	0.2	0.3	0.2	0.4	0.6	0.8	0.7	0.7	0.6	0.7	0.9	1.5	2.2	2.4	2.4	2.9	3.2	3.7	3.4	2.4	1.5	
5/12/07	0.4	0.2	0.3	0.2	0.3	0.4	0.7	1.0	0.9	1.0	0.8	0.8	0.9	1.6	2.3	2.4	2.4	2.6	2.8	3.7	3.6	3.0	2.7	
5/13/07	2.2	1.5	1.1	0.8	0.6	0.7	0.9	1.2	1.6	2.4	3.1	3.5	3.6	3.0	2.9	2.6	1.7	2.0	2.8	4.7	6.1	6.3	6.1	
5/14/07	5.8	5.0	4.2	3.7	3.2	2.7	2.2	2.1	1.3	0.9	0.8	0.9	1.4	2.0	2.2	2.7	2.4	1.8	1.4	0.8	0.4	0.3	0.3	
5/15/07	0.3			0.4	0.3	0.4	0.5	0.5	0.6	0.9	0.9	0.4	0.7	1.0	1.1	1.5	1.4	0.5	0.4	0.7	0.6	0.3	0.2	
5/16/07	0.4	0.2	0.2	0.3	0.3	0.5	0.7	0.9	0.9	0.7	0.6	0.8	1.3	1.7	2.3	2.1	0.6	0.7	0.9	0.9	0.7	0.3	0.3	
5/17/07	0.3	0.2	0.3	0.4	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.6	0.6	1.0	1.0	0.9	
5/18/07	1.1	0.7	0.6	0.2	0.2	0.3	0.6	0.7	0.7	1.0	1.5	1.6	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.2	1.7	
5/19/07	2.5	2.1	1.7	1.4	1.2	1.2	1.2	1.0	1.2	1.0	1.0	1.1	1.3	1.5	1.1	1.2	1.1	1.1	1.2	1.0	0.5	0.3	0.4	
5/20/07	0.4	0.3	0.3	0.4	0.6	0.6	0.6	0.7	1.0	1.0	0.8	0.7	0.7	0.8	0.9	0.6	0.6	0.7	0.5	0.6	1.0	1.2	1.2	
5/21/07	1.0	1.1	1.3	1.7	1.7	1.7	1.4	1.6	1.8	1.5	1.7	0.7	0.7	0.6	0.7	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.8	
5/22/07	2.0			2.0	1.5	1.4	1.3	0.8	0.9	0.9	1.0	2.0	2.8	3.5	2.2	0.7	1.3	1.5	1.3	0.8	0.5	0.6	0.5	
5/23/07	0.7	0.7	0.7	0.6	0.6	0.6	0.8	0.7	0.7	0.6	0.6	0.7	1.2	1.3	1.5	1.6	1.4	1.1	0.7	0.5	0.4	0.4	0.4	
5/24/07	0.6	0.5	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.5	0.5	0.4	
5/25/07	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	1.0	0.9	0.7	0.8	1.2	1.2	1.1	0.7	0.4	0.4	
5/26/07	0.7	0.6	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.7	0.6	0.4	0.7	0.7	0.7	
5/27/07	0.6	0.5	0.4	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.6	0.6	0.6	0.7	
5/28/07	0.7	0.7	0.7	0.7	0.6	0.7	0.9	1.2	1.0	1.0	0.7	0.8	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.6	1.1	1.5	
5/29/07	2.4			2.8	2.1	1.6	1.5	1.3	1.1	1.4	1.8	2.4	3.2	3.8	4.4	4.8	4.4	4.8	4.8	4.6	2.3	1.9	1.6	
5/30/07	1.7	1.2	1.1	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.5	0.6	0.6	0.8	0.8	0.9	0.6	0.7	0.5	0.4	0.4	0.3	
5/31/07	0.7	0.7	0.6	0.7	0.6	0.7	0.9	0.9	0.8	1.0	0.8	0.6	0.9	0.8	1.2	1.6	1.3	1.1	1.1	0.9	0.7	0.6	0.6	
hr max	5.8	5.0	4.2	3.7	3.2	2.7	2.2	2.1	1.8	2.4	3.1	3.5	3.6	3.8	5.2	6.5	5.6	5.3	6.7	5.7	6.1	6.3	6.1	0.0
hr min	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0
average	1.1	0.8	0.7	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.9	1.0	1.3	1.5	1.7	1.8	1.7	1.8	1.8	1.8	1.6	1.3	1.2	#DIV/0!

valid hr count	daily max hr	daily min hr	daily ave hr
21	1.8	0.1	0.7
23	2.0	0.2	0.8
23	2.2	0.1	1.0
23	4.1	0.2	1.7
23	1.5	0.2	0.5
23	3.6	0.1	1.4
23	3.1	0.1	1.1
21	6.7	0.3	2.9
23	4.1	0.3	2.1
23	3.7	0.4	2.0
23	3.7	0.2	1.4
23	3.7	0.2	1.5
23	6.3	0.6	2.7
23	5.8	0.3	2.1
21	1.5	0.2	0.6
23	2.3	0.2	0.8
23	1.0	0.2	0.6
23	1.7	0.2	0.7
23	2.5	0.3	1.2
23	1.2	0.3	0.7
23	1.8	0.5	1.0
21	3.5	0.5	1.4
23	1.6	0.4	0.8
23	0.8	0.3	0.6
23	1.2	0.4	0.7
23	0.8	0.4	0.6
23	0.8	0.3	0.6
23	1.5	0.6	0.8
21	4.8	1.1	2.8
23	1.7	0.3	0.7
23	1.6	0.6	0.9

monthly max hr	monthly min hr	monthly ave hr
6.7	0.1	1.2
5/8/07	5/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	703
possible hours	744
data capture	94.5%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	2.3			1.8	1.8	1.6	1.7	1.6	1.0	0.9	0.9	0.9	0.9	0.7	0.9	0.7	0.7	0.8	1.0	2.2	2.5	2.3	2.2		21	2.5	0.7	1.4
5/2/07	2.3	1.9	1.9	1.8	1.9	2.2	2.3	1.9	1.6	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.4	1.5	1.8	2.1	2.1	2.1	2.1		23	2.3	1.2	1.7
5/3/07	2.2	2.2	2.4	2.5	2.6	2.9	3.0	2.9	2.5	2.2	1.9	1.8	1.9	1.9	1.8	1.9	2.2	2.5	2.9	3.6	4.3	4.2	4.3		23	4.3	1.8	2.6
5/4/07	3.0	2.7	2.7	2.6	2.7	2.7	2.8	2.4	2.0	1.7	1.6	1.8	1.9	2.1	2.0	1.9	2.3	2.7	2.9	3.5	3.1	3.1	2.6		23	3.5	1.6	2.5
5/5/07	2.2	3.1	3.2	3.4	3.2	3.1	3.1	3.0	2.7	2.1	2.0	2.0	1.9	2.1	2.0	1.8	1.9	1.6	2.2	2.7	2.6	2.1	2.0		23	3.4	1.6	2.4
5/6/07	1.8	1.8	1.8	1.7	1.6	1.5	1.7	1.7	1.9	1.8	1.6	1.5	1.7	1.8	1.8	1.7	1.8	1.7	1.7	2.0	2.5	2.9	2.4		23	2.9	1.5	1.8
5/7/07	1.9	2.1	2.2	2.4	2.3	2.1	2.9	2.5	1.8	1.8	1.8	1.5	1.4	1.3	1.4	1.5	1.5	1.5	1.8	4.2	3.7	3.4	3.4		23	4.2	1.3	2.2
5/8/07	2.1			2.5	2.0	2.6	1.9	1.9	1.7	1.1	1.1	1.2	1.3	1.2	1.2	1.2	1.3	1.3	1.6	2.3	4.9	4.7	3.7		21	4.9	1.1	2.0
5/9/07	3.0	2.8	2.8	3.0	2.5	2.7	2.0	1.5	1.6	1.5	1.2	1.2	1.1	1.2	1.2	1.2	1.4	1.4	1.7	2.7	3.4	3.1	3.0		23	3.4	1.1	2.1
5/10/07	2.8	2.7	2.8	3.2	2.9	3.3	2.9	2.1	1.7	1.7	1.6	1.5	1.4	1.3	1.3	1.1	1.2	1.3	1.6	2.0	2.5	2.3	2.4		23	3.3	1.1	2.1
5/11/07	2.5	2.9	2.9	3.2	3.2	2.9	2.1	1.7	1.9	1.6	1.4	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.5	2.0	2.7	2.6	2.9		23	3.2	1.2	2.0
5/12/07	2.6	2.5	2.7	2.7	2.4	2.4	2.4	2.5	2.5	2.4	2.2	2.1	2.1	2.1	2.2	2.2	2.1	1.9	2.4	3.5	3.4	3.8	3.9		23	3.9	1.9	2.6
5/13/07	4.1	4.7	3.9	3.4	2.8	2.4	2.1	2.2	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.5	1.7	2.9	3.9	4.0	5.4	5.7	6.0		23	6.0	1.5	3.0
5/14/07	6.6	6.8	3.7	3.6	3.4	3.6	2.4	2.3	2.4	1.8	1.5	1.4	1.3	1.3	1.3	1.5	1.6	1.5	1.5	1.4	1.8	2.3	2.2		23	6.8	1.3	2.5
5/15/07	1.9			2.1	2.4	2.0	1.6	1.2	1.2	1.8	2.0	0.9	1.0	1.0	1.0	1.2	0.9	0.9	1.0	1.7	3.3	2.6	1.8		21	3.3	0.9	1.6
5/16/07	1.7	1.8	2.0	2.4	2.7	3.3	2.8	2.1	1.5	1.3	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.9	2.0	2.3	2.3	1.6		23	3.3	0.8	1.7
5/17/07	1.6	1.5	1.3	1.4	1.4	1.4	1.3	1.2	1.2	1.1	1.0	1.1	1.1	1.2	1.0	1.1	1.3	1.3	1.4	1.6	1.9	2.3	2.4		23	2.4	1.0	1.4
5/18/07	2.5	2.4	2.2	2.3	2.4	2.5	2.8	2.3	2.2	2.2	2.2	1.9	1.8	1.9	1.7	1.2	1.2	1.3	1.5	1.9	2.4	2.5	2.8		23	2.8	1.2	2.1
5/19/07	2.8	2.1	2.4	2.5	2.7	3.0	3.2	2.1	1.9	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.5	1.8	2.2	2.2	2.1		23	3.2	1.2	1.9
5/20/07	1.9	2.0	1.8	1.8	2.0	1.8	1.9	1.9	2.3	2.1	2.1	1.8	1.8	2.0	1.9	1.9	1.8	2.1	2.3	2.6	4.0	2.8	2.2		23	4.0	1.8	2.1
5/21/07	1.8	1.5	1.9	2.6	3.0	3.0	2.8	2.6	2.4	2.3	2.3	2.3	2.1	1.9	1.7	1.7	1.6	1.7	1.7	2.2	2.5	2.2	2.0		23	3.0	1.5	2.2
5/22/07	3.3			2.7	2.5	2.8	2.4	1.9	2.4	2.4	1.7	1.8	2.1	1.9	1.8	2.3	3.1	3.2	2.6	2.7	2.8	2.5	2.2		21	3.3	1.7	2.4
5/23/07	1.9	2.1	2.2	2.3	1.9	1.9	1.7	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.2	1.1	0.9	0.9	0.8	1.0	1.1	1.2		23	2.3	0.8	1.4
5/24/07	1.3	1.1	1.2	1.0	1.0	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.8	1.0	0.9	1.1	1.0	1.1	1.1	1.7	2.4	2.2	2.2		23	2.4	0.7	1.2
5/25/07	1.6	1.8	1.7	1.6	1.5	1.5	1.5	1.6	1.8	1.8	2.0	1.5	1.2	1.3	1.2	1.2	1.2	1.3	1.6	1.7	1.7	1.6	1.7		23	2.0	1.2	1.5
5/26/07	1.9	1.7	1.4	0.9	0.9	0.8	1.4	1.6	2.0	1.8	1.4	1.4	1.0	1.2	1.1	0.9	1.0	1.3	0.9	1.4	2.7	3.2	2.4		23	3.2	0.8	1.5
5/27/07	1.9	1.8	1.6	1.5	1.5	1.4	1.3	1.4	1.3	1.5	1.7	1.4	1.2	1.1	1.1	1.1	1.2	1.4	1.5	1.7	1.9	2.3	2.5		23	2.5	1.1	1.5
5/28/07	1.8	1.8	2.0	2.0	2.0	2.0	1.9	1.7	1.6	1.5	1.3	1.5	1.3	1.4	1.3	1.3	1.2	1.4	1.5	1.7	1.9	2.1	2.0		23	2.1	1.2	1.7
5/29/07	2.3			2.2	3.0	3.2	2.9	2.6	1.8	1.8	2.0	2.4	2.3	2.5	2.1	2.2	2.3	2.2	2.5	3.0	4.6	4.9	4.6		21	4.9	1.8	2.7
5/30/07	4.5	3.8	3.9	3.6	3.6	3.2	2.8	2.8	2.7	1.8	1.8	1.3	1.4	1.7	2.3	2.2	2.4	2.1	1.9	1.5	1.4	1.5	1.5		23	4.5	1.3	2.4
5/31/07	1.1	1.1	1.2	1.2	1.2	1.2	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	1.1	1.1	1.2	1.3	1.3	1.3	1.5	1.5		23	1.5	0.9	1.1
hr max	6.6	6.8	3.9	3.6	3.6	3.6	3.2	3.0	2.7	2.4	2.3	2.4	2.3	2.5	2.3	2.3	3.1	3.2	3.9	4.2	5.4	5.7	6.0	0.0				
hr min	1.1	1.1	1.2	0.9	0.9	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.8	0.9	0.8	1.0	1.1	1.2	0.0				
average	2.4	2.4	2.3	2.3	2.3	2.3	2.2	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.4	1.4	1.5	1.6	1.8	2.2	2.7	2.7	2.6	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
6.8	0.7	2.0
5/14/07	5/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	703
possible hours	744
data capture	94.5%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	33.2		45.8	29.1	27.8	27.1	29.0	34.1	38.7	40.3	39.9	41.6	43.0	44.7	46.4	46.9	46.9	46.1	43.6	35.1	31.5	30.7	31.6		22	46.9	27.1	37.9
5/2/07	33.3	33.1	32.0	35.0	32.0	31.5	33.4	38.8	42.0	42.2	42.9	44.5	45.4	46.4	48.3	48.8	49.1	49.5	47.5	42.5	42.0	44.0	43.3		23	49.5	31.5	41.2
5/3/07	37.8	35.6	33.0	31.9	29.6	27.8	28.0	31.1	35.7	43.3	49.2	51.0	51.0	49.2	47.8	46.4	44.3	41.4	37.8	31.1	23.1	23.0	21.7		23	51.0	21.7	37.0
5/4/07	20.5	20.4	20.0	18.3	16.4	14.1	13.7	22.6	33.0	38.5	40.8	42.8	44.6	45.1	46.2	46.9	44.3	40.2	38.7	34.3	27.8	25.9	33.6		23	46.9	13.7	31.7
5/5/07	26.1	17.3	13.3	10.0	13.9	13.7	13.3	11.5	15.7	22.1	25.7	28.1	29.4	24.7	28.2	32.8	35.5	40.3	31.9	26.2	26.5	32.4	32.9		23	40.3	10.0	24.0
5/6/07	34.3	32.3	27.2	24.5	26.1	27.7	28.9	28.9	28.6	27.9	28.8	44.4	51.0	46.8	45.4	44.5	42.1	40.3	37.6	34.1	27.7	23.7	20.3		23	51.0	20.3	33.6
5/7/07	17.6	16.6	16.5	14.3	17.6	21.4	23.2	27.0	27.8	30.2	33.9	39.5	43.0	44.0	44.8	45.5	46.0	46.6	44.3	31.9	31.7	34.5	33.9		23	46.6	14.3	31.8
5/8/07	41.3		44.0	26.4	27.0	25.0	30.8	32.4	38.8	47.7	50.0	51.5	52.9	53.6	54.2	47.3	47.4	51.5	49.4	47.5	36.1	26.1	28.3		22	54.2	25.0	41.3
5/9/07	21.7	18.4	17.2	17.4	20.4	20.0	24.6	32.7	35.6	40.6	48.3	52.0	52.9	52.5	52.1	52.0	52.2	49.4	43.1	31.6	28.4	28.2	25.4		23	52.9	17.2	35.5
5/10/07	29.3	30.4	30.2	26.4	26.1	21.9	20.7	26.1	29.4	30.2	32.5	36.0	38.5	39.9	41.9	44.6	46.3	46.7	42.6	36.0	30.3	32.0	31.0		23	46.7	20.7	33.4
5/11/07	29.5	26.8	24.1	18.0	16.4	16.1	20.3	20.9	22.7	24.4	28.7	34.2	37.8	41.6	43.2	45.9	47.4	46.4	42.9	35.6	32.4	30.1	25.3		23	47.4	16.1	30.9
5/12/07	19.3	19.3	18.1	17.5	17.2	17.2	17.6	20.3	23.3	25.7	31.8	39.0	44.8	48.9	49.5	50.8	50.9	51.3	48.7	43.3	41.6	37.7	35.0		23	51.3	17.2	33.4
5/13/07	22.4	21.0	20.6	18.9	23.6	23.3	29.0	33.4	39.4	41.1	44.3	45.3	47.7	50.5	51.5	54.0	50.7	44.9	36.8	31.9	31.5	28.5	27.7		23	54.0	18.9	35.6
5/14/07	21.4	16.8	32.4	24.4	27.6	29.1	33.0	30.5	33.5	38.1	39.7	42.3	43.6	41.5	39.6	38.5	35.8	32.3	33.2	35.2	32.7	28.7	26.0		23	43.6	16.8	32.9
5/15/07	26.4		42.5	25.1	20.2	21.0	26.9	33.0	34.9	37.6	39.1	42.4	42.6	43.1	45.0	46.0	47.5	48.6	47.3	40.7	29.7	29.5	33.7		22	48.6	20.2	36.5
5/16/07	31.3	30.9	29.1	28.9	25.1	22.9	23.2	22.5	21.9	27.7	32.8	36.1	38.5	40.4	41.8	42.6	42.1	42.4	39.3	33.4	28.1	28.6	30.7		23	42.6	21.9	32.2
5/17/07	26.2	26.0	26.6	23.9	21.6	24.8	24.7	27.0	32.5	36.2	37.9	40.5	41.2	42.3	43.8	43.9	45.2	45.5	42.2	38.3	36.9	35.1	36.7		23	45.5	21.6	34.7
5/18/07	37.8	36.8	36.7	34.5	33.9	32.2	31.0	34.8	35.8	37.0	39.6	43.7	48.3	53.8	58.4	57.9	54.8	52.6	44.1	36.2	34.8	34.5	31.6		23	58.4	31.0	40.9
5/19/07	33.5	41.4	40.2	37.2	31.6	24.8	23.9	25.9	10.7	16.1	20.1	22.8	20.7	19.9	21.3	22.5	22.7	22.3	20.1	17.6	15.0	17.4	19.2		23	41.4	10.7	23.8
5/20/07	19.7	17.8	17.0	14.5	12.9	12.1	10.5	9.4	8.9	11.9	13.9	19.8	25.5	27.2	31.5	35.0	38.0	37.6	33.9	29.2	26.7	35.8	44.3		23	44.3	8.9	23.2
5/21/07	47.2	51.4	48.5	43.5	39.6	35.6	34.2	37.6	38.0	39.8	39.3	39.8	41.0	41.8	43.3	41.3	41.5	42.9	42.4	42.6	44.0	45.1	40.1		23	51.4	34.2	41.8
5/22/07	22.8		38.6	22.9	28.5	28.5	38.7	43.6	31.9	32.4	43.7	41.9	40.7	41.3	38.5	27.9	19.1	9.2	9.7	11.1	10.6	13.0	17.1		22	43.7	9.2	27.8
5/23/07	18.1	16.3	15.0	12.7	12.9	12.6	15.3	17.9	18.1	20.5	23.4	26.2	27.9	30.8	29.9	30.6	29.5	27.1	26.4	27.9	26.3	24.8	22.6		23	30.8	12.6	22.3
5/24/07	20.4	22.5	23.4	24.2	25.6	27.0	25.8	27.5	27.5	27.8	27.6	28.9	29.6	31.0	32.5	33.8	34.8	36.3	36.5	32.5	26.9	25.6	23.0		23	36.5	20.4	28.3
5/25/07	25.7	24.3	24.8	25.2	25.0	25.4	26.7	27.4	25.4	23.8	20.9	27.5	33.7	37.2	40.7	41.3	42.6	44.7	45.0	42.9	41.6	39.0	33.0		23	45.0	20.9	32.3
5/26/07	21.8	23.6	27.4	27.1	26.2	25.8	26.3	26.9	25.9	28.8	30.8	33.5	38.4	41.0	41.2	42.5	42.5	41.7	43.9	38.7	30.2	30.7	33.2		23	43.9	21.8	32.5
5/27/07	33.3	34.2	34.6	31.0	27.9	29.4	32.2	32.3	33.5	33.7	36.8	37.9	38.3	37.9	36.7	35.5	37.2	38.6	39.8	39.3	38.5	36.1	31.7		23	39.8	27.9	35.1
5/28/07	27.2	26.7	24.9	22.3	20.3	18.7	18.4	21.1	24.1	26.9	28.6	31.7	33.5	35.3	35.9	34.3	35.9	33.3	30.8	30.2	27.8	26.1	28.9		23	35.9	18.4	28.0
5/29/07	29.0		51.7	31.6	25.6	25.1	31.8	28.0	35.0	34.2	35.6	37.8	37.8	42.3	44.5	42.2	40.5	42.2	39.1	34.5	26.1	25.3	24.0		22	51.7	24.0	34.7
5/30/07	20.1	21.0	19.8	18.8	19.1	18.6	19.2	18.1	18.0	22.4	31.2	44.8	39.8	35.7	29.8	24.2	16.7	18.1	19.6	19.3	18.4	17.6	18.2		23	44.8	16.7	23.0
5/31/07	18.5	18.0	19.3	18.2	16.1	14.1	13.2	15.5	20.4	24.3	25.2	25.0	26.4	30.4	35.1	38.5	41.9	38.6	37.0	37.0	38.5	37.0	35.1		23	41.9	13.2	27.1
hr max	47.2	51.4	51.7	43.5	39.6	35.6	38.7	43.6	42.0	47.7	50.0	52.0	52.9	53.8	58.4	57.9	54.8	52.6	49.4	47.5	44.0	45.1	44.3	0.0				
hr min	17.6	16.3	13.3	10.0	12.9	12.1	10.5	9.4	8.9	11.9	13.9	19.8	20.7	19.9	21.3	22.5	16.7	9.2	9.7	11.1	10.6	13.0	17.1	0.0				
average	27.3	26.1	28.9	24.3	23.7	23.0	24.8	27.1	28.6	31.4	34.3	37.8	39.7	40.7	41.6	41.4	41.0	40.3	37.9	33.8	30.4	29.9	29.6	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
58.4	8.9	32.4
5/18/07	5/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	708
possible hours	744
data capture	95.2%

Max 8 hr ave. 51.7 5/18/07 12:00

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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
5/1/07	0	0	0	0	0	11	115	294	471	634	763	842	874	857	783	673	673	347	160	23	0	0	0	0	24	874	7520	7520
5/2/07	0	0	0	0	0	7	94	285	448	625	756	830	865	849	778	669	523	348	156	14	0	0	0	0	24	865	7248	7248
5/3/07	0	0	0	0	0	18	126	252	487	653	783	848	844	696	521	425	309	244	93	6	0	0	0	0	24	848	6305	6305
5/4/07	0	0	0	0	0	6	46	90	301	627	745	823	854	798	726	482	178	135	75	0	0	0	0	0	24	854	5886	5886
5/5/07	0	0	0	0	0	0	0	32	113	131	133	155	124	79	101	130	43	5	6	0	0	0	0	0	24	155	1050	1050
5/6/07	0	0	0	0	0	0	37	76	50	147	616	846	891	873	788	698	534	384	205	51	0	0	0	0	24	891	6197	6197
5/7/07	0	0	0	0	0	0	28	62	80	151	324	498	720	840	523	418	299	216	134	20	0	0	0	0	24	840	4312	4312
5/8/07	0	0	0	0	0	19	122	204	437	654	650	738	877	870	802	697	547	370	178	37	0	0	0	0	24	877	7201	7201
5/9/07	0	0	0	0	0	20	141	321	500	665	794	864	896	873	799	690	546	369	184	37	0	0	0	0	24	896	7698	7698
5/10/07	0	0	0	0	0	20	141	319	502	654	698	860	897	874	803	699	553	376	189	38	0	0	0	0	24	897	7622	7622
5/11/07	0	0	0	0	0	18	101	274	282	592	615	845	877	855	782	678	532	352	178	33	0	0	0	0	24	877	7014	7014
5/12/07	0	0	0	0	0	23	137	313	390	567	739	803	864	761	710	690	521	355	123	38	0	0	0	0	24	864	7032	7032
5/13/07	0	0	0	0	0	23	169	331	503	691	778	891	854	865	804	654	539	237	156	21	0	0	0	0	24	891	7515	7515
5/14/07	0	0	0	0	0	16	126	209	249	447	573	751	905	781	500	339	164	99	43	19	0	0	0	0	24	905	5218	5218
5/15/07	0	0	0	0	0	14	118	323	507	669	791	871	575	310	625	481	409	364	165	33	0	0	0	0	24	871	6256	6256
5/16/07	0	0	0	0	0	25	161	302	513	672	790	864	900	825	709	684	567	388	206	50	0	0	0	0	24	900	7655	7655
5/17/07	0	0	0	0	0	32	156	339	521	687	803	867	894	872	795	687	544	371	189	44	0	0	0	0	24	894	7799	7799
5/18/07	0	0	0	0	0	27	151	323	498	656	774	848	882	861	791	682	542	369	174	18	0	0	0	0	24	882	7596	7596
5/19/07	0	0	0	0	0	22	88	191	180	541	818	771	824	648	792	695	549	378	144	58	0	0	0	0	24	824	6696	6696
5/20/07	0	0	0	0	0	7	35	71	132	202	176	782	740	489	599	568	330	175	93	21	0	0	0	0	24	782	4419	4419
5/21/07	0	0	0	0	0	14	157	265	500	649	744	837	793	737	531	416	396	315	137	13	0	0	0	0	24	837	6502	6502
5/22/07	0	0	0	0	0	0	0	24	244	383	661	556	576	707	305	52	39	15	74	14	0	0	0	0	24	707	3652	3652
5/23/07	0	0	0	0	0	39	185	368	537	687	803	738	593	793	700	699	588	376	222	64	0	0	0	0	24	803	7393	7393
5/24/07	0	0	0	0	0	18	74	165	443	513	570	801	824	844	813	649	595	421	233	67	0	0	0	0	24	844	7031	7031
5/25/07	0	0	0	0	0	19	35	99	141	185	150	439	844	833	820	718	374	85	7	0	0	0	0	0	24	844	4750	4750
5/26/07	0	0	0	0	0	7	31	87	168	223	350	409	617	849	798	743	596	418	237	70	0	0	0	0	24	849	5603	5603
5/27/07	0	0	0	0	0	26	82	110	153	152	192	199	190	316	294	265	361	226	92	27	0	0	0	0	24	361	2686	2686
5/28/07	0	0	0	0	0	38	175	343	501	645	716	787	848	892	763	397	464	303	155	28	0	0	0	0	24	892	7055	7055
5/29/07	0	0	0	0	0	11	65	148	230	216	410	606	522	469	595	410	168	220	104	30	0	0	0	0	24	606	4201	4201
5/30/07	0	0	0	0	0	0	21	34	56	78	80	82	415	313	289	249	177	118	98	35	0	0	0	0	24	415	2043	2043
5/31/07	0	0	0	0	0	55	151	264	460	651	590	195	361	603	567	602	578	121	73	42	0	0	0	0	24	651	5310	5310
hr max	0	0	0	0	0	55	185	368	537	691	818	891	905	892	820	743	673	421	237	70	0	0	0	0	monthly	monthly	monthly	
hr min	0	0	0	0	0	0	0	24	50	78	80	82	124	79	101	52	39	5	6	0	0	0	0	0	max hr	Max24hr	Total	
average	0	0	0	0	0	17	99	210	342	485	593	685	733	717	652	546	427	274	138	31	0	0	0	0	905	7799	184461	
																									5/14/07	5/17/07		

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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 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				
5/1/07	707	707	708	708	708	709	709	710	710	710	710	710	710	709	709	709	709	709	708	709	709	709	709	709	24	710	706.6	708.9
5/2/07	709	709	709	709	709	709	709	709	709	709	708	708	707	707	707	706	706	705	705	705	705	706	706	706	24	709	705.2	707.3
5/3/07	705	705	704	704	704	705	705	705	704	704	703	703	702	702	701	701	701	701	700	700	700	701	701	701	24	705	700.2	702.6
5/4/07	701	700	700	699	699	699	700	700	700	701	701	701	701	701	700	700	700	700	700	700	701	701	701	701	24	701	699.1	700.3
5/5/07	700	699	700	699	699	699	699	699	697	697	698	698	698	697	695	696	696	695	696	695	696	697	698	697	24	700	695.0	697.4
5/6/07	697	697	698	698	697	698	698	698	698	699	699	699	700	700	701	701	701	702	702	703	703	704	705	705	24	705	697.2	700.1
5/7/07	705	705	705	706	706	706	706	707	707	707	708	707	707	707	707	706	706	707	707	707	707	707	707	707	24	708	705.0	706.5
5/8/07	708	708	708	708	708	708	708	708	708	708	708	708	708	707	707	707	706	706	706	706	706	706	706	706	24	708	705.7	707.2
5/9/07	706	706	706	705	705	706	706	706	706	706	706	705	705	705	704	704	704	704	704	704	704	704	704	704	24	706	703.6	704.9
5/10/07	704	704	704	705	705	706	707	707	708	708	709	709	709	709	709	709	709	709	709	709	710	710	711	710	24	711	704.4	708.0
5/11/07	710	710	711	712	712	711	711	711	712	712	711	711	710	710	709	709	709	709	709	709	710	710	710	710	24	712	709.0	710.3
5/12/07	710	710	709	709	709	709	709	709	709	709	708	708	708	708	707	706	706	706	705	705	705	704	704	704	24	710	703.5	707.4
5/13/07	703	703	703	703	703	702	702	702	702	702	702	701	701	700	700	700	700	700	700	700	700	700	700	700	24	703	699.5	701.1
5/14/07	698	698	699	700	700	701	702	703	703	704	705	705	706	706	707	708	708	708	709	709	710	710	711	711	24	711	698.1	705.0
5/15/07	712	712	712	712	712	713	713	713	713	713	713	713	713	712	712	712	712	712	712	711	711	712	712	712	24	713	711.4	712.2
5/16/07	712	712	712	712	712	712	713	713	713	714	714	713	713	713	713	713	713	713	713	713	713	713	713	713	24	714	711.7	712.7
5/17/07	713	713	713	713	713	712	713	712	712	712	711	710	709	709	708	708	707	707	706	706	706	706	705	705	24	713	705.0	709.4
5/18/07	705	705	704	704	704	704	704	704	704	704	704	703	703	703	703	702	702	702	702	702	702	703	703	703	24	705	701.8	703.2
5/19/07	704	704	704	705	704	704	705	706	707	707	707	707	708	708	708	708	707	707	707	707	707	707	707	707	24	708	703.7	706.3
5/20/07	707	707	706	706	706	706	706	706	705	705	704	704	704	703	703	703	702	701	701	700	700	700	699	699	24	707	698.6	703.4
5/21/07	699	698	698	698	698	698	698	698	698	697	697	696	696	696	696	695	695	695	695	695	695	696	697	697	24	699	694.5	696.7
5/22/07	697	696	696	696	695	695	695	695	695	696	696	697	697	697	698	698	698	699	699	700	700	700	700	701	24	701	694.5	697.3
5/23/07	701	701	701	701	702	702	702	703	703	703	703	703	703	703	703	703	704	704	705	705	706	706	707	707	24	707	700.8	703.3
5/24/07	708	708	708	708	708	708	709	710	710	710	710	710	710	710	710	710	710	710	710	711	711	711	711	711	24	711	707.7	709.6
5/25/07	711	711	710	710	710	709	709	708	708	708	708	707	706	705	705	704	704	703	703	704	704	704	704	704	24	711	703.1	706.6
5/26/07	704	703	703	704	705	705	706	707	708	708	708	709	709	709	708	708	708	708	708	708	709	709	709	709	24	709	703.1	707.2
5/27/07	709	709	709	709	709	709	709	709	709	709	708	708	708	708	707	707	706	706	705	705	705	705	704	704	24	709	703.8	707.2
5/28/07	703	703	702	702	701	701	701	700	700	699	699	699	699	699	700	699	699	699	699	699	700	700	700	700	24	703	699.2	700.1
5/29/07	701	702	702	701	701	702	703	703	703	703	703	704	704	704	704	704	705	705	705	705	705	706	706	706	24	706	700.9	703.6
5/30/07	705	705	705	705	704	704	704	704	704	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	24	705	702.5	703.5
5/31/07	702	702	702	702	702	702	701	702	702	701	701	701	701	701	701	700	700	700	700	701	701	701	701	701	24	702	700.1	701.1
hr max	713	713	713	713	713	713	713	713	713	714	714	713	713	713	713	713	713	713	713	713	713	713	713	713				
hr min	697	696	696	696	695	695	695	695	695	696	696	696	696	696	695	695	695	695	695	695	695	696	697	697				
average	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	704	704	704	704	704	705	705	705	705				

monthly max hr	monthly min hr	monthly ave hr
714	694.5	704.8
5/16/07	5/21/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
%
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
5/1/07	52.1	56.3	65.9	70.0	74.6	77.3	72.9	62.6	52.8	46.5	42.3	38.4	34.1	30.5	28.2	27.5	27.5	27.8	33.3	47.2	54.4	57.7	54.4	53.8	24	77.3	27.5	49.5
5/2/07	53.7	56.6	59.2	55.1	61.5	62.2	58.0	48.6	42.4	38.6	35.5	31.3	29.3	28.5	26.9	28.4	28.9	30.3	33.6	42.6	48.3	47.3	47.6	48.4	24	62.2	26.9	43.5
5/3/07	50.0	53.4	58.4	62.9	67.7	71.2	66.8	62.1	59.0	53.3	47.0	46.3	47.6	51.1	52.5	56.2	64.8	69.5	69.9	75.0	86.2	89.3	93.4	97.2	24	97.2	46.3	64.6
5/4/07	97.9	97.9	97.8	97.9	97.6	97.4	96.3	92.2	86.2	74.3	62.6	54.3	50.0	50.0	47.8	47.1	52.5	54.8	59.7	76.5	90.4	95.1	96.5	96.3	24	97.9	47.1	77.9
5/5/07	96.5	97.7	98.3	98.8	98.9	98.9	99.0	98.9	98.4	95.2	92.1	90.2	89.1	91.8	90.9	88.6	91.6	89.8	94.4	96.0	97.9	96.2	94.2	89.0	24	99.0	88.6	94.7
5/6/07	86.0	90.0	95.1	94.6	94.6	93.4	91.4	89.9	89.2	91.6	83.7	58.2	50.4	47.0	43.9	43.2	45.3	43.5	49.8	58.5	74.1	84.4	86.8	88.3	24	95.1	43.2	73.9
5/7/07	90.9	92.7	93.0	94.3	92.1	91.0	89.6	87.1	85.5	79.6	70.9	61.1	53.1	44.6	42.3	40.3	40.1	39.5	41.7	59.3	65.1	65.4	69.0	66.4	24	94.3	39.5	68.9
5/8/07	71.3	72.9	79.5	78.0	79.8	81.2	68.0	62.9	48.6	32.7	31.8	30.0	28.2	27.7	26.5	26.3	28.5	31.6	35.2	41.0	61.2	74.9	75.4	79.3	24	81.2	26.3	53.0
5/9/07	83.2	86.8	87.8	88.6	86.7	86.2	77.3	62.3	53.6	46.2	35.8	30.9	29.4	28.5	29.6	31.5	32.1	35.1	43.3	61.2	73.6	75.0	79.1	73.0	24	88.6	28.5	59.0
5/10/07	72.6	72.6	73.3	76.9	77.0	79.6	76.2	59.9	53.3	51.3	49.8	45.8	42.6	40.8	37.7	34.0	33.5	34.0	41.1	50.1	61.2	61.3	65.1	68.0	24	79.6	33.5	56.6
5/11/07	74.5	79.3	83.9	86.4	86.7	87.2	78.8	72.1	65.8	61.2	55.0	46.7	44.0	41.1	41.3	40.9	41.5	44.3	48.5	57.3	65.0	73.0	79.8	83.9	24	87.2	40.9	64.1
5/12/07	88.5	89.4	89.3	88.9	90.7	91.4	84.8	73.8	66.3	62.0	54.7	50.1	47.7	48.3	50.1	51.3	52.8	54.6	58.8	62.2	67.6	73.7	76.7	81.2	24	91.4	47.7	69.0
5/13/07	86.6	86.7	86.9	86.0	77.8	76.7	64.2	57.4	50.5	47.0	42.6	40.4	37.4	33.1	32.1	27.3	29.1	34.1	51.4	64.2	71.2	78.7	79.7	81.7	24	86.9	27.3	59.3
5/14/07	86.6	89.1	76.5	84.0	85.6	86.9	84.7	82.9	79.8	73.6	68.5	61.3	53.6	54.7	57.5	58.2	61.9	66.4	67.3	66.7	72.7	82.8	89.9	90.2	24	90.2	53.6	74.2
5/15/07	91.5	93.5	92.5	91.3	93.5	93.0	90.0	79.0	69.1	57.3	53.6	44.3	40.3	44.7	36.4	32.8	30.5	29.6	30.3	38.4	52.6	60.6	63.6	69.2	24	93.5	29.6	61.6
5/16/07	69.9	73.2	76.8	78.0	84.0	86.1	77.4	71.9	66.7	54.1	46.1	41.5	37.6	35.1	32.9	30.8	31.1	31.4	38.0	47.2	61.3	61.3	59.5	65.6	24	86.1	30.8	56.6
5/17/07	72.8	73.6	72.5	78.2	84.3	78.1	71.1	60.9	48.8	42.5	38.8	38.3	38.8	37.5	37.6	38.2	38.9	42.0	48.9	57.9	65.7	72.0	74.9	72.4	24	84.3	37.5	57.7
5/18/07	69.5	69.0	68.7	72.4	72.2	74.0	70.2	63.3	58.7	54.5	51.1	46.0	39.5	35.3	30.3	26.7	27.0	28.0	37.9	54.4	61.3	64.2	71.1	68.6	24	74.0	26.7	54.7
5/19/07	66.9	66.1	70.0	69.9	72.1	80.7	80.6	81.9	90.2	82.8	76.0	72.5	70.4	70.3	67.3	66.1	65.7	68.1	73.5	79.7	88.2	90.7	92.4	93.9	24	93.9	65.7	76.5
5/20/07	94.8	97.1	98.2	98.5	98.6	98.8	98.8	98.9	98.8	96.8	89.3	77.8	71.6	73.1	68.2	67.3	67.5	69.8	76.8	82.7	80.2	71.5	51.6	59.2	24	98.9	51.6	82.7
5/21/07	60.9	46.5	53.4	64.7	79.0	86.6	82.6	77.2	72.3	67.8	66.5	63.7	60.3	55.6	55.3	58.7	56.7	55.2	57.7	63.7	64.0	63.9	79.4	87.9	24	87.9	46.5	65.8
5/22/07	92.4	94.1	94.6	93.1	93.1	96.3	96.8	95.3	94.6	90.7	79.7	77.8	75.3	68.5	71.2	84.7	88.0	95.1	94.6	94.6	95.4	95.4	95.7	95.3	24	96.8	68.5	89.7
5/23/07	94.4	94.6	94.7	91.8	88.9	89.1	82.7	76.7	73.9	67.5	64.7	63.7	64.1	58.7	51.8	50.5	50.5	51.5	54.8	60.2	69.1	73.5	78.7	80.7	24	94.7	50.5	72.0
5/24/07	85.9	86.1	85.3	83.7	85.3	84.7	84.5	79.8	74.9	71.3	70.6	66.0	62.0	58.3	55.4	52.0	48.7	47.2	46.9	56.1	75.1	77.5	81.4	82.4	24	86.1	46.9	70.9
5/25/07	81.7	83.5	82.0	82.5	82.4	81.8	86.0	85.4	86.2	85.7	87.5	78.9	62.0	54.7	48.0	47.7	49.5	49.8	54.2	69.7	79.6	89.0	90.6	86.7	24	90.6	47.7	74.4
5/26/07	87.5	87.2	87.4	89.4	91.3	94.8	95.8	94.3	91.2	88.3	83.1	77.4	71.8	63.6	56.0	48.1	48.0	50.7	45.4	54.6	68.7	71.2	73.1	71.9	24	95.8	45.4	74.6
5/27/07	75.2	73.0	74.1	80.7	85.7	85.0	81.3	77.0	71.3	69.6	63.0	61.3	61.6	63.2	65.4	66.1	64.5	64.3	65.5	67.6	70.2	74.2	81.6	88.2	24	88.2	61.3	72.1
5/28/07	91.4	93.9	95.1	96.2	97.0	96.5	93.5	86.8	79.8	73.4	69.6	64.9	60.8	58.0	58.0	63.0	60.0	63.4	67.9	73.9	80.0	83.9	82.5	81.7	24	97.0	58.0	78.0
5/29/07	83.4	81.0	83.8	90.2	93.6	92.3	85.4	87.5	81.2	80.7	77.4	70.6	68.8	66.7	63.1	62.8	66.8	65.4	69.1	77.6	84.8	85.1	86.4	86.2	24	93.6	62.8	78.7
5/30/07	87.8	87.6	88.4	89.5	89.7	92.6	94.2	95.8	96.1	95.0	92.8	91.0	90.7	87.5	85.0	84.4	91.6	93.0	92.8	92.9	93.4	93.2	93.3	94.4	24	96.1	84.4	91.4
5/31/07	95.0	95.2	94.2	94.5	94.6	94.1	90.8	86.9	79.7	69.5	67.8	69.2	69.0	63.0	60.1	64.5	63.1	72.2	82.8	82.7	84.7	90.9	91.9	92.6	24	95.2	60.1	81.2
hr max	97.9	97.9	98.3	98.8	98.9	98.9	99.0	98.9	98.8	96.8	92.8	91.0	90.7	91.8	90.9	88.6	91.6	95.1	94.6	96.0	97.9	96.2	96.5	97.2				
hr min	50.0	46.5	53.4	55.1	61.5	62.2	58.0	48.6	42.4	32.7	31.8	30.0	28.2	27.7	26.5	26.3	27.0	27.8	30.3	38.4	48.3	47.3	47.6	48.4				
average	80.4	81.2	82.5	84.1	85.7	86.6	82.9	77.8	73.1	67.8	62.9	57.7	54.2	52.0	50.0	49.8	50.9	52.6	56.9	64.9	73.0	76.5	78.6	79.8				

monthly max hr	monthly min hr	monthly ave hr
99.0	26.3	69.2
5/5/07	5/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
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				
5/1/07	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
5/2/07	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
5/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.33	24	0.33		0.38
5/4/07	0.1	0.04	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.1	0.29	0.08	0	24	0.29		0.72
5/5/07	0	0.01	0	0	0	0	0.1	0.04	0	0	0	0	0	0.02	0.01	0.01	0.04	0.02	0.02	0	0	0.01	0.01	0	24	0.10		0.29
5/6/07	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
5/7/07	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
5/8/07	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
5/9/07	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
5/10/07	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
5/11/07	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
5/12/07	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
5/13/07	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
5/14/07	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
5/15/07	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
5/16/07	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
5/17/07	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
5/18/07	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
5/19/07	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
5/20/07	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
5/21/07	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
5/22/07	0	0	0	0	0.63	0.07	0.96	0.29	0.07	0	0	0	0	0	0	0	0.02	0.22	0.01	0.01	0.02	0.02	0.01	0	24	0.96		2.33
5/23/07	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
5/24/07	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
5/25/07	0	0	0	0	0	0	0	0.01	0.01	0.02	0	0.01	0	0	0	0	0	0	0	0.04	0.02	0.01	0	0	24	0.04		0.12
5/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	24	0.01		0.01
5/27/07	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
5/28/07	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
5/29/07	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
5/30/07	0	0	0	0	0	0.06	0.12	0.13	0.06	0.06	0.1	0.09	0.06	0	0	0	0.01	0	0	0	0	0	0	0	24	0.13		0.69
5/31/07	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0.01	0	0	24	0.01		0.03
hr max	0.10	0.04	0.10	0.01	0.63	0.07	0.96	0.29	0.07	0.06	0.10	0.09	0.06	0.02	0.01	0.01	0.04	0.22	0.02	0.04	0.10	0.29	0.08	0.33				
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	0.11	0.05	0.10	0.01	0.63	0.13	1.18	0.47	0.14	0.08	0.10	0.10	0.06	0.02	0.01	0.01	0.07	0.24	0.05	0.06	0.14	0.34	0.15	0.33				

monthly max hr	monthly 24h max	monthly TOTAL
0.96	2.33	4.58
5/22/07	5/22/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

data
channel
0

Basin Electric - Gettysburg S.D. Monitoring Program
May-07
Stn Temp
(deg C)

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
5/1/07	29	28	27	26	25	25	25	25	25	25	26	26	27	27	28	27	27	28	28	28	28	27	26	26	24	29	25	27
5/2/07	26	25	25	25	25	25	25	25	25	26	26	26	27	27	28	28	28	28	28	29	28	27	26	26	24	29	25	26
5/3/07	26	26	25	25	25	25	25	25	25	25	26	26	27	28	28	29	29	29	29	29	29	28	27	27	24	29	25	27
5/4/07	26	26	26	25	25	25	25	25	26	26	26	27	28	29	30	30	30	30	30	30	30	29	29	28	24	30	25	28
5/5/07	28	27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	25	25	25	25	26	24	28	25	26
5/6/07	26	26	25	25	25	25	25	25	25	25	25	26	27	28	29	30	30	30	30	30	30	29	28	27	24	30	25	27
5/7/07	26	26	25	25	25	25	25	25	25	25	26	26	26	27	28	28	29	29	30	30	29	29	28	27	24	30	25	27
5/8/07	27	26	27	26	25	25	25	25	26	26	27	28	29	31	32	33	32	33	33	32	32	31	30	30	24	33	25	29
5/9/07	29	27	26	26	25	25	25	25	26	26	27	28	29	30	30	30	30	30	30	30	30	30	30	30	24	30	25	28
5/10/07	29	28	27	26	26	26	26	26	26	26	27	28	28	29	30	30	30	30	30	30	30	29	28	28	24	30	26	28
5/11/07	27	26	25	25	25	25	25	25	25	25	26	26	26	28	28	29	29	29	30	30	30	30	29	28	24	30	25	27
5/12/07	27	26	25	25	25	25	25	25	25	25	26	26	27	28	29	29	29	29	30	30	30	30	30	30	24	30	25	27
5/13/07	29	28	27	27	26	26	26	26	27	28	29	30	30	30	30	29	28	27	29	31	32	33	32	33	24	33	26	29
5/14/07	32	32	31	30	30	29	29	28	27	27	27	27	28	28	29	29	29	28	28	27	26	26	26	26	24	32	26	28
5/15/07	25	25	26	25	25	25	25	25	25	25	26	26	26	27	27	27	28	26	26	26	26	26	26	26	24	28	25	26
5/16/07	25	25	25	25	24	24	24	25	25	25	26	26	27	28	29	28	24	26	27	27	27	26	25	25	24	29	24	26
5/17/07	25	25	24	24	24	24	24	24	24	25	25	25	26	26	23	22	23	22	22	25	26	27	27	27	24	27	22	25
5/18/07	27	27	26	26	26	26	26	26	26	26	27	27	24	22	22	23	23	23	23	22	24	27	28	28	24	28	22	25
5/19/07	29	28	28	28	28	27	27	26	26	26	27	27	27	27	27	27	27	27	27	27	26	26	25	26	24	29	25	27
5/20/07	25	25	25	25	25	25	25	25	25	25	25	25	25	26	25	24	22	24	23	23	26	27	26	24	24	27	22	25
5/21/07	26	26	27	27	28	27	27	27	27	27	27	24	22	22	22	22	22	21	21	22	24	23	25	27	24	28	21	25
5/22/07	27	28	29	28	28	27	27	27	26	26	27	28	29	30	27	23	26	27	27	26	26	26	25	26	24	30	23	27
5/23/07	26	26	25	25	25	25	25	25	25	25	26	26	27	27	27	27	27	27	27	26	26	25	25	25	24	27	25	26
5/24/07	25	25	25	24	24	24	24	24	24	24	24	25	25	25	25	26	26	26	26	26	26	26	25	25	24	26	24	25
5/25/07	25	24	24	24	24	24	24	24	24	24	24	24	25	26	25	24	24	26	27	27	26	26	26	26	24	27	24	25
5/26/07	26	25	25	24	24	24	23	23	23	23	23	24	24	25	25	25	25	26	25	25	25	25	25	25	24	26	23	24
5/27/07	25	25	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	26	26	26	26	26	25	24	26	24	25
5/28/07	25	26	26	25	25	25	25	26	24	25	22	24	22	22	22	22	22	21	21	23	23	26	26	28	24	28	21	24
5/29/07	28	29	29	29	28	28	27	27	27	27	28	28	29	30	31	31	31	32	32	31	29	29	28	28	24	32	27	29
5/30/07	28	27	27	27	26	26	26	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	28	25	26
5/31/07	25	25	25	25	25	25	25	25	25	26	26	25	26	26	27	27	27	26	27	27	26	26	26	26	24	27	25	26
hr max	32	32	31	30	30	29	29	28	27	28	29	30	30	31	32	33	32	33	33	32	32	33	32	33	monthly	monthly	monthly	
hr min	25	24	24	24	24	24	23	23	23	23	22	24	22	22	22	22	22	21	21	22	23	23	25	24	max hr	24h max	TOTAL	
average	27	26	26	26	26	25	25	25	25	26	26	26	26	27	27	27	27	27	27	27	27	27	0	27	33	21	26	
																									5/8/07	5/28/07		

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
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
6/1/07	6.1	5.3	4.1	3.8	2.2	2.5	3.0	3.2	3.6	3.7	4.2	4.6	2.7	2.8	3.9	3.1	3.1	4.3	3.0	3.6	4.3	4.2	4.0	4.1
6/2/07	4.5	3.7	4.2	4.3	5.0	5.0	5.4	6.9	7.9	7.7	7.0	7.0	4.7	6.1	7.9	5.6	3.6	4.1	3.2	4.0	3.5	3.6	3.7	4.5
6/3/07	5.1	5.0	5.5	4.9	4.4	4.2	5.1	5.6	6.9	8.1	8.1	8.4	8.1	8.3	8.1	7.5	7.0	6.7	5.2	3.9	4.5	2.0	2.5	2.6
6/4/07	4.3	4.4	4.7	5.8	5.2	4.0	4.6	4.9	2.5	4.6	5.1	5.2	4.2	3.8	5.7	6.7	7.1	6.5	5.3	3.3	2.0	1.3	1.6	2.4
6/5/07	2.0	2.0	2.6	2.1	3.2	3.5	3.1	4.0	3.9	3.4	3.7	4.1	4.3	5.2	5.9	6.4	6.8	6.6	6.6	5.9	6.3	8.7	9.0	8.9
6/6/07																								
6/7/07																								
6/8/07																								
6/9/07																								
6/10/07																								
6/11/07																								
6/12/07																								
6/13/07																								
6/14/07																								
6/15/07																								
6/16/07													3.4	4.6	5.8	4.6	3.5	4.2	5.8	5.3	6.5	7.3	7.9	7.4
6/17/07	5.9	6.5	9.2	9.4	5.6	6.2	5.7	9.4	9.5	10.5	11.7	11.9	11.8	8.7	9.7	10.4	8.1	5.1	4.7	5.9	10.2	9.3	5.3	8.6
6/18/07	4.5	5.9	5.6	3.1	3.1	5.0	7.0	9.0	11.1	12.4	12.0	12.8	14.2	15.0	15.4	16.4	15.1	12.0	8.5	6.5	4.3	3.9	4.5	4.8
6/19/07	4.5	3.8	4.5	4.7	4.4	3.8	3.6	3.3	4.1	4.4	5.3	5.6	4.9	5.4	5.6	5.1	4.9	4.9	3.9	3.5	3.9	4.6	4.7	4.7
6/20/07	5.3	5.4	5.0	5.1	5.1	4.9	5.4	6.3	4.0	1.7	1.8	1.4	1.6	2.8	2.6	3.0	2.8	4.1	4.5	4.3	3.7	3.9	4.1	4.3
6/21/07	5.0	5.8	5.2	4.4	4.4	9.2	9.3	9.0	6.3	5.4	6.0	4.4	2.3	5.7	5.7	5.2	4.0	2.7	3.5	3.0	3.2	3.2	2.8	2.8
6/22/07	2.2	2.4	1.9	2.6	3.1	3.4	3.7	3.2	2.9	2.4	1.9	1.3	0.9	1.7	1.4	2.0	1.7	1.7	2.1	2.3	3.3	3.8	3.6	3.7
6/23/07	3.3	3.2	4.0	4.5	4.3	4.7	5.2	6.0	7.3	6.7	5.9	6.8	6.6	6.6	6.6	6.5	6.9	7.1	6.4	6.0	6.8	6.9	7.0	6.3
6/24/07	5.5	5.2	5.6	5.2	4.9	5.4	5.7	7.7	7.9	7.1	6.8	7.2	10.0	9.8	9.0	8.6	8.7	8.0	7.3	6.6	7.5	6.7	7.1	7.3
6/25/07	6.4	6.8	8.8	8.4	8.9	8.7	8.6	9.2	7.5	8.6	10.6	12.4	12.9	10.3	9.3	9.3	9.4	8.3	7.1	6.5	5.8	5.8	5.1	5.5
6/26/07	6.5	7.2	10.0	11.8	11.9	10.1	10.3	8.9	8.1	9.4	8.7	7.3	8.1	7.7	7.8	6.2	6.5	6.2	5.2	3.8	2.9	3.6	4.7	4.2
6/27/07	4.6	3.6	3.5	4.0	3.4	2.2	1.0	1.4	0.7	1.3	2.1	3.3	4.6	4.8	4.9	4.0	4.5	4.9	4.4	4.0	4.2	4.5	4.9	3.7
6/28/07	5.2	4.8	4.1	3.5	3.2	2.8	4.3	4.9	5.2	4.8	5.1	5.2	4.9	4.8	4.7	5.2	5.2	5.5	5.3	4.3	4.3	5.0	5.0	5.4
6/29/07	5.4	4.6	5.3	5.2	5.1	6.4	6.3	6.9	6.9	6.9	6.6	5.8	6.5	6.8	7.5	7.6	7.2	7.1	6.4	5.3	4.6	4.7	5.8	5.5
6/30/07	5.9	5.5	5.3	4.6	4.0	4.1	4.5	6.1	5.5	6.7	7.0	8.1	8.4	9.6	9.6	8.8	7.8	7.5	7.2	6.0	6.9	6.6	7.2	6.3
hr max	6.5	7.2	10.0	11.8	11.9	10.1	10.3	9.4	11.1	12.4	12.0	12.8	14.2	15.0	15.4	16.4	15.1	12.0	8.5	6.6	10.2	9.3	9.0	8.9
hr min	2.0	2.0	1.9	2.1	2.2	2.2	1.0	1.4	0.7	1.3	1.8	1.3	0.9	1.7	1.4	2.0	1.7	1.7	2.1	2.3	2.0	1.3	1.6	2.4
average	4.9	4.8	5.2	5.1	4.8	5.1	5.4	6.1	5.9	6.1	6.3	6.5	6.3	6.5	6.9	6.6	6.2	5.9	5.3	4.7	4.9	5.0	5.0	5.2

valid hr count	daily max hr	daily min hr	daily ave hr
24	6.1	2.2	3.7
24	7.9	3.2	5.1
24	8.4	2.0	5.7
24	7.1	1.3	4.4
24	9.0	2.0	4.9
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
12	7.9	3.4	5.5
24	11.9	4.7	8.3
24	16.4	3.1	8.8
24	5.6	3.3	4.5
24	6.3	1.4	3.9
24	9.3	2.3	4.9
24	3.8	0.9	2.5
24	7.3	3.2	5.9
24	10.0	4.9	7.1
24	12.9	5.1	8.3
24	11.9	2.9	7.4
24	4.9	0.7	3.5
24	5.5	2.8	4.7
24	7.6	4.6	6.1
24	9.6	4.0	6.6
0			

monthly max hr	monthly min hr	monthly ave hr
16.4	0.7	5.6
6/18/07	6/27/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	9.0	8.1	6.7	7.2	4.4	3.6	3.6	3.5	4.0	4.2	4.8	5.3	3.1	3.1	5.0	3.5	3.5	6.2	4.9	5.1	5.8	5.9	6.7	6.1	24	9.0	3.1	5.1
6/2/07	6.0	5.3	5.5	5.9	6.6	6.8	6.9	8.1	9.4	9.4	8.3	8.5	5.8	8.1	9.9	7.2	4.7	5.4	4.4	6.1	5.9	6.6	6.8	8.1	24	9.9	4.4	6.9
6/3/07	8.6	8.3	8.8	8.4	7.8	7.1	7.1	6.5	8.0	9.5	9.6	9.6	9.4	9.8	9.4	9.0	8.0	7.8	6.7	6.5	8.1	2.2	3.9	2.6	24	9.8	2.2	7.6
6/4/07	5.9	7.3	7.8	9.9	8.8	7.3	6.7	6.6	3.1	5.2	6.0	6.3	4.8	4.2	6.6	8.1	8.4	8.1	7.2	5.6	3.8	1.7	1.5	1.7	24	9.9	1.5	5.9
6/5/07	2.8	2.6	5.0	4.9	5.9	6.5	4.7	4.6	4.4	3.5	3.9	4.5	4.8	5.5	6.3	6.5	6.9	6.8	7.7	9.0	10.7	13.5	13.6	13.0	24	13.6	2.6	6.6
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													3.9	5.8	6.7	5.3	4.0	5.3	7.8	7.6	9.7	10.6	11.5	11.1	12	11.5	3.9	7.4
6/17/07	7.9	9.9	12.9	13.9	8.9	9.4	8.3	12.4	11.8	13.2	15.0	15.1	15.2	11.7	12.2	13.2	10.5	7.2	7.5	9.1	13.0	12.7	7.3	11.0	24	15.2	7.2	11.2
6/18/07	6.2	8.5	7.9	4.5	5.0	8.2	9.9	11.3	13.5	15.1	14.4	15.3	16.9	18.0	18.5	19.7	18.3	14.5	10.8	9.0	7.8	6.9	7.2	8.7	24	19.7	4.5	11.5
6/19/07	8.2	6.9	8.0	7.8	8.6	7.2	7.3	4.5	4.5	4.9	6.0	6.2	5.6	6.0	6.3	5.7	5.4	5.5	4.5	5.4	6.8	8.2	8.3	9.8	24	9.8	4.5	6.6
6/20/07	10.8	10.8	9.8	9.6	9.2	8.7	7.9	7.2	4.3	2.1	2.2	1.7	1.9	3.2	3.2	3.6	3.4	5.2	5.7	6.1	6.9	7.3	7.4	7.7	24	10.8	1.7	6.1
6/21/07	8.2	9.1	8.0	7.1	7.1	13.1	13.0	14.1	10.8	7.8	7.2	5.3	2.6	6.3	6.3	6.2	4.7	3.6	4.7	4.9	6.0	7.2	5.7	5.4	24	14.1	2.6	7.3
6/22/07	4.5	4.3	3.5	3.5	3.7	3.9	4.4	3.7	3.3	2.8	2.1	1.6	1.1	2.0	1.7	2.4	1.9	2.0	2.4	2.7	4.0	5.1	6.0	7.7	24	7.7	1.1	3.3
6/23/07	5.2	7.5	8.1	9.2	8.3	8.5	8.2	7.4	8.7	7.7	6.3	7.4	7.1	7.4	7.8	7.7	8.3	8.7	9.1	9.9	11.1	11.2	10.8	8.3	24	11.2	5.2	8.3
6/24/07	7.1	7.2	8.9	9.0	7.1	8.5	7.6	9.8	9.5	7.7	7.1	7.9	12.5	11.4	10.9	10.6	10.7	10.3	10.7	11.1	12.1	10.6	11.0	11.5	24	12.5	7.1	9.6
6/25/07	9.2	9.0	12.2	10.9	13.0	12.8	12.2	12.0	8.7	10.3	14.0	16.2	16.8	12.6	10.6	10.4	11.0	11.0	10.0	10.3	8.5	7.8	6.9	8.8	24	16.8	6.9	11.1
6/26/07	10.6	9.3	12.8	15.1	15.1	13.1	13.2	10.9	9.6	11.2	10.1	8.6	9.3	8.7	8.9	7.2	7.5	7.3	6.5	5.9	5.4	7.2	7.4	6.5	24	15.1	5.4	9.5
6/27/07	7.9	7.5	6.2	5.0	4.2	3.5	3.1	1.7	0.9	1.4	2.5	3.8	5.2	5.5	5.6	4.6	5.3	5.6	5.4	6.5	8.0	8.4	8.1	7.3	24	8.4	0.9	5.1
6/28/07	7.8	7.3	6.6	6.0	5.6	5.2	5.3	5.6	5.9	5.3	5.8	6.0	5.6	5.6	5.5	6.1	6.0	6.7	6.9	6.6	8.5	9.5	9.1	9.8	24	9.8	5.2	6.6
6/29/07	9.8	8.5	9.7	9.8	9.5	10.9	9.4	8.9	8.4	8.2	7.9	6.6	7.7	8.0	9.1	9.2	8.3	9.0	9.2	9.1	9.8	10.0	10.6	10.3	24	10.9	6.6	9.1
6/30/07	10.9	10.5	9.5	8.2	7.0	7.3	6.0	7.3	5.9	7.9	7.7	9.5	10.0	12.1	12.3	11.1	10.0	10.0	10.3	9.9	11.6	11.4	11.6	10.2	24	12.3	5.9	9.5
																									0			
hr max	10.9	10.8	12.9	15.1	15.1	13.1	13.2	14.1	13.5	15.1	15.0	16.2	16.9	18.0	18.5	19.7	18.3	14.5	10.8	11.1	13.0	13.5	13.6	13.0				
hr min	2.8	2.6	3.5	3.5	3.7	3.5	3.1	1.7	0.9	1.4	2.1	1.6	1.1	2.0	1.7	2.4	1.9	2.0	2.4	2.7	3.8	1.7	1.5	1.7				
average	7.7	7.8	8.3	8.2	7.7	8.0	7.6	7.7	7.1	7.2	7.4	7.7	7.5	7.8	8.1	7.9	7.3	7.3	7.1	7.3	8.2	8.2	8.1	8.3				

monthly max hr	monthly min hr	monthly ave hr
19.7	0.9	7.7
6/18/07	6/27/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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				
6/1/07	11.3	10.0	8.9	8.6	6.2	4.4	3.9	3.6	4.1	4.5	5.0	5.5	3.2	3.2	5.7	3.8	3.8	8.1	6.1	6.1	6.9	7.5	8.8	7.7	24	11.30	3.20	6.12
6/2/07	6.8	6.1	6.2	7.1	7.9	8.3	8.3	9.3	10.7	10.9	9.5	9.2	6.5	9.6	10.6	8.1	5.7	6.3	5.8	7.5	8.0	7.5	6.9	8.0	24	10.9	5.7	8.0
6/3/07	8.8	9.7	10.6	11.2	10.4	10.2	9.4	7.4	8.3	9.9	10.1	10.0	9.9	10.4	10.0	9.5	8.6	8.5	7.7	7.9	9.2	3.9	5.5	3.2	24	11.2	3.2	8.8
6/4/07	5.8	7.3	7.1	10.8	11.2	10.8	9.1	7.6	3.4	5.8	5.9	6.2	4.8	4.4	7.1	8.6	8.8	8.6	8.2	6.6	5.0	3.1	2.1	1.8	24	11.2	1.8	6.7
6/5/07	2.9	2.6	4.7	6.9	8.1	8.6	6.6	4.9	4.3	3.5	4.3	4.8	5.1	5.5	6.7	7.0	7.9	7.9	7.6	9.5	13.8	16.1	13.7	14.1	24	16.1	2.6	7.4
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													3.7	6.0	7.1	5.5	3.9	5.6	8.3	9.0	12.5	13.4	14.6	13.2	12	14.6	3.7	8.6
6/17/07	9.9	12.2	17.9	17.1	12.3	11.6	10.4	14.7	13.6	14.1	15.8	16.7	16.0	13.4	13.0	14.6	12.5	10.0	10.4	9.5	14.5	15.3	9.1	12.6	24	17.9	9.1	13.2
6/18/07	7.8	10.7	10.2	5.9	7.0	10.8	12.5	13.0	14.4	15.9	15.1	16.2	17.8	18.7	18.7	18.0	18.0	14.9	11.8	9.8	2.1	0.1	0.1	0.1	24	18.7	0.1	11.2
6/19/07	0.1	0.1	0.1	0.1	0.1	0.1	0.5	4.5	4.5	4.8	6.0	6.3	5.8	6.2	6.3	6.0	5.6	5.6	4.9	6.4	7.8	8.7	9.6	11.3	24	11.3	0.1	4.6
6/20/07	13.2	12.8	11.6	9.5	1.0	3.8	6.7	6.2	4.2	2.1	2.3	1.7	1.9	3.2	3.4	3.8	3.5	5.4	5.9	7.4	9.8	11.5	11.5	11.3	24	13.2	1.0	6.4
6/21/07	11.6	12.3	8.3	3.9	4.3	0.2	0.2	6.6	14.2	10.8	7.3	5.5	2.6	6.7	7.0	6.7	5.1	3.6	4.9	5.6	8.3	9.5	8.2	7.0	24	14.2	0.2	6.7
6/22/07	6.2	5.7	4.2	4.3	3.1	3.6	3.9	3.6	3.0	2.8	2.2	1.6	1.1	2.1	1.8	2.5	1.8	2.1	2.4	2.8	4.0	5.0	5.7	7.0	24	7.0	1.1	3.4
6/23/07	4.4	8.5	9.1	9.4	9.8	10.5	10.2	7.3	8.3	7.6	6.7	7.4	7.0	7.1	7.9	7.6	7.7	7.9	8.9	11.7	12.5	10.1	9.4	8.3	24	12.5	4.4	8.6
6/24/07	8.4	11.4	12.4	10.7	10.1	10.6	9.7	10.2	9.8	8.1	7.4	7.6	11.7	10.5	10.0	9.8	9.9	9.7	11.0	13.8	15.1	12.1	10.9	10.7	24	15.1	7.4	10.5
6/25/07	9.4	9.7	10.7	12.6	16.1	15.2	13.8	12.4	10.3	12.5	15.1	17.7	18.9	15.2	12.3	11.2	11.3	10.5	9.6	10.1	10.1	10.7	10.7	12.4	24	18.9	9.4	12.4
6/26/07	13.4	9.0	12.5	14.4	13.3	12.3	10.3	3.7	7.8	10.6	9.8	8.4	9.3	9.0	9.3	7.6	7.9	7.6	7.1	7.4	7.5	8.8	8.0	8.4	24	14.4	3.7	9.3
6/27/07	9.7	8.6	7.2	5.1	4.2	4.6	3.8	2.3	0.8	1.4	2.6	4.0	5.6	5.8	5.9	4.9	5.6	5.9	5.8	7.3	8.7	8.6	0.9	0.1	24	9.7	0.1	5.0
6/28/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7	4.7	5.0	5.6	6.0	5.6	5.7	5.8	6.3	6.3	6.9	7.1	7.4	9.8	11.0	11.0	11.5	24	11.5	0.1	4.9
6/29/07	11.4	7.5	6.3	4.1	0.2	5.4	5.6	6.4	6.5	7.6	7.5	6.3	7.4	7.5	8.6	8.7	8.0	9.0	9.4	10.9	12.4	12.6	12.6	11.7	24	12.6	0.2	8.1
6/30/07	10.3	9.1	8.4	8.4	6.9	7.2	7.5	8.7	6.0	8.4	7.6	8.7	9.5	12.3	11.5	10.9	10.1	10.3	11.6	12.3	14.9	14.2	14.0	10.6	24	14.9	6.0	10.0
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	13.4	12.8	17.9	17.1	16.1	15.2	13.8	14.7	14.4	15.9	15.8	17.7	18.9	18.7	18.7	18.0	18.0	14.9	11.8	13.8	15.1	16.1	14.6	14.1	18.9	0.1	8.0
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7	0.8	1.4	2.2	1.6	1.1	2.1	1.8	2.5	1.8	2.1	2.4	2.8	2.1	0.1	0.1	0.1	6/25/07	6/18/07	
average	8.0	8.1	8.2	7.9	7.0	7.3	7.0	7.1	7.3	7.7	7.7	7.9	7.7	8.1	8.4	8.1	7.6	7.7	7.7	8.5	9.6	9.5	8.7	8.6			

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	117	110	86	98	57	58	66	84	89	99	87	108	120	131	25	139	139	45	8	3	3	359	2	5	24
6/2/07	13	2	348	326	320	326	331	316	318	310	315	339	359	350	4	354	341	340	329	327	319	280	266	256	24
6/3/07	259	272	288	284	282	299	310	327	347	350	350	352	354	357	350	346	336	329	321	301	307	106	52	217	24
6/4/07	252	283	284	295	296	312	328	348	2	44	23	22	16	9	1	1	6	13	12	8	339	288	273	266	24
6/5/07	336	318	30	62	78	78	78	109	127	147	160	160	166	155	164	155	156	155	149	134	134	136	139	138	24
6/6/07																									0
6/7/07																									0
6/8/07																									0
6/9/07																									0
6/10/07																									0
6/11/07																									0
6/12/07																									0
6/13/07																									0
6/14/07																									0
6/15/07																									0
6/16/07													35	94	83	111	146	129	118	97	104	112	121	143	12
6/17/07	168	190	175	182	179	188	182	178	176	181	182	179	183	186	188	186	176	170	167	203	329	310	354	321	24
6/18/07	331	305	284	248	261	266	272	282	282	279	275	273	272	278	286	295	297	295	292	303	306	291	284	274	24
6/19/07	271	280	273	254	251	253	278	285	279	264	238	240	252	287	277	275	268	262	225	198	178	176	177	176	24
6/20/07	186	191	188	189	192	194	197	202	233	249	216	130	106	83	91	101	112	97	99	87	77	86	82	82	24
6/21/07	91	105	90	57	67	29	43	62	77	103	165	182	305	57	62	74	71	27	30	59	54	70	82	57	24
6/22/07	52	39	46	50	39	26	34	60	66	64	61	68	13	74	40	85	105	101	102	103	112	121	131	146	24
6/23/07	156	165	177	179	177	181	182	188	188	183	170	167	165	162	166	166	160	160	153	146	152	158	158	162	24
6/24/07	165	168	172	176	169	177	174	177	176	172	168	165	156	161	159	160	160	161	148	142	144	147	151	153	24
6/25/07	161	164	159	170	173	176	176	186	171	173	180	180	179	173	170	166	164	160	156	156	164	167	167	172	24
6/26/07	187	295	332	334	346	343	337	338	338	343	343	336	333	326	323	306	306	302	319	321	315	315	305	305	24
6/27/07	312	314	318	310	327	352	14	109	283	326	295	309	336	335	338	346	9	14	22	25	29	33	35	48	24
6/28/07	55	66	70	77	79	73	99	107	104	103	101	107	126	124	133	121	121	120	121	120	110	111	123	127	24
6/29/07	135	135	143	152	149	142	145	149	150	143	144	160	157	158	153	155	159	153	148	141	146	145	143	141	24
6/30/07	145	148	156	162	162	157	164	173	167	173	165	158	157	147	152	151	148	143	140	142	144	144	143	156	24
																									0

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	123	116	97	112	93	81	76	89	94	100	93	111	126	132	57	141	141	51	14	5	9	5	10	13	24
6/2/07	19	9	353	333	327	333	337	321	322	314	319	342	1	354	6	358	349	348	335	337	335	309	282	262	24
6/3/07	269	287	300	302	303	313	317	332	350	353	354	356	357	1	354	349	339	332	326	313	327	43	10	302	24
6/4/07	277	304	303	302	306	318	331	355	16	49	26	26	19	10	4	4	10	17	17	17	15	15	339	306	24
6/5/07	313	4	37	81	79	85	87	116	132	154	165	166	170	160	168	161	161	160	154	144	140	142	144	144	24
6/6/07																									0
6/7/07																									0
6/8/07																									0
6/9/07																									0
6/10/07																									0
6/11/07																									0
6/12/07																									0
6/13/07																									0
6/14/07																									0
6/15/07																									0
6/16/07													33	93	84	112	148	131	120	99	106	114	124	145	12
6/17/07	170	194	177	184	182	189	185	179	178	183	184	181	185	187	190	188	177	174	171	198	328	311	359	322	24
6/18/07	331	308	291	262	276	275	276	284	282	279	275	273	272	278	287	295	297	295	292	306	314	312	299	298	24
6/19/07	297	297	293	280	273	286	293	289	280	264	238	240	254	288	277	274	269	264	227	207	188	184	176	181	24
6/20/07	196	194	195	195	194	197	201	204	234	246	214	132	113	82	88	103	112	98	99	88	83	89	87	85	24
6/21/07	95	107	92	64	75	33	47	64	81	108	166	185	299	60	64	76	75	33	35	65	61	78	89	77	24
6/22/07	76	68	67	55	43	26	36	60	65	62	57	80	31	74	52	89	107	105	101	102	109	113	133	148	24
6/23/07	162	177	185	184	176	178	183	189	190	185	171	168	167	163	167	167	162	161	155	150	154	158	159	164	24
6/24/07	167	171	175	178	172	178	176	178	177	173	169	166	157	162	160	161	162	162	152	146	146	150	154	155	24
6/25/07	162	164	160	171	176	178	178	188	174	175	181	181	180	174	171	168	165	161	157	158	165	168	169	175	24
6/26/07	189	296	332	334	348	345	338	338	339	344	344	336	334	327	323	307	306	304	319	324	333	334	328	330	24
6/27/07	336	343	348	342	3	43	69	100	42	310	306	310	335	336	338	345	11	14	24	32	39	42	44	55	24
6/28/07	61	70	76	83	86	83	100	111	106	104	103	109	127	129	135	125	122	122	124	124	116	116	125	132	24
6/29/07	138	138	147	153	151	147	148	152	153	147	147	161	158	159	154	156	161	155	151	145	147	147	147	146	24
6/30/07	149	153	159	161	162	159	166	174	168	175	166	159	158	150	154	153	151	147	144	145	147	147	146	157	24
																									0

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	133	128	114	129	120	109	90	99	100	106	100	116	129	131	65	140	140	55	21	11	18	15	25	28	24
6/2/07	28	19	2	351	343	346	347	328	328	322	327	347	3	358	11	2	1	356	347	350	341	320	296	277	24
6/3/07	287	306	320	324	326	331	336	341	354	357	359	1	1	5	359	353	343	336	331	323	336	10	10	333	24
6/4/07	291	324	330	317	322	332	342	6	35	56	32	32	24	14	8	8	15	22	23	22	24	20	355	325	24
6/5/07	324	28	49	87	87	100	99	125	137	160	171	173	177	166	173	166	166	165	158	150	148	149	152	151	24
6/6/07																									0
6/7/07																									0
6/8/07																									0
6/9/07																									0
6/10/07																									0
6/11/07																									0
6/12/07																									0
6/13/07																									0
6/14/07																									0
6/15/07																									0
6/16/07													29	98	90	117	152	133	125	107	111	120	130	151	12
6/17/07	177	197	183	189	192	194	190	185	183	188	188	186	189	190	191	191	183	180	179	202	329	314	360	328	24
6/18/07	335	314	302	280	293	287	283	289	285	283	278	276	275	281	290	297	299	298	295	310	322	319	305	312	24
6/19/07	311	310	305	294	285	298	297	297	284	265	240	244	259	291	279	278	272	267	231	212	192	192	182	194	24
6/20/07	201	206	207	203	200	205	211	210	238	251	219	142	115	85	88	107	117	102	104	94	91	96	94	92	24
6/21/07	104	113	100	76	88	39	53	67	88	115	167	189	294	66	68	81	81	42	40	73	72	88	97	91	24
6/22/07	97	97	92	69	47	26	38	65	66	64	62	104	64	74	56	98	113	112	106	110	116	124	142	153	24
6/23/07	167	188	191	191	183	184	190	192	194	187	176	172	171	167	172	171	166	165	161	156	158	163	165	170	24
6/24/07	174	179	183	186	181	185	183	184	183	177	174	170	161	166	164	165	166	166	158	153	151	156	160	161	24
6/25/07	167	170	166	176	182	183	184	191	181	181	186	186	185	179	176	172	169	165	163	164	171	175	177	186	24
6/26/07	195	301	334	337	349	348	340	341	342	346	346	338	335	330	325	309	309	307	321	328	336	335	333	337	24
6/27/07	343	359	356	4	31	56	54	86	69	319	307	313	335	337	341	347	13	17	27	37	44	47	51	60	24
6/28/07	69	78	84	90	95	95	107	119	111	111	108	113	132	133	137	129	127	126	128	129	124	126	132	141	24
6/29/07	145	147	159	165	166	164	158	159	158	152	152	165	163	164	158	160	165	159	156	151	153	154	156	157	24
6/30/07	161	164	170	172	174	173	175	180	173	179	170	163	161	154	159	157	155	151	148	149	152	153	152	162	24
																									0

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	6.3	6.6	6.8	6.8	17.7	8.9	9.3	11.2	11.0	12.3	14.9	11.0	19.3	29.5	47.2	25.7	25.7	10.6	14.2	6.0	6.8	6.3	6.8	6.3	24	47.2	6.0	13.6
6/2/07	6.9	7.2	6.9	5.9	5.8	5.4	6.4	6.4	6.0	6.3	6.0	7.1	7.7	8.8	7.3	8.3	8.9	7.6	8.6	10.0	8.2	4.2	5.3	5.6	24	10.0	4.2	7.0
6/3/07	6.1	5.2	4.2	3.8	4.3	5.6	5.8	7.3	7.5	6.8	8.6	7.7	9.5	10.6	9.6	8.8	8.8	7.2	5.5	4.4	13.9	23.5	31.9	23.2	24	31.9	3.8	9.6
6/4/07	4.1	4.4	4.4	4.9	4.7	5.7	6.3	9.3	17.4	10.2	12.0	9.7	11.1	11.5	10.6	9.3	8.8	9.1	7.3	4.2	7.6	10.2	4.9	3.5	24	17.4	3.5	8.0
6/5/07	33.7	12.3	9.2	8.3	9.0	12.1	8.9	9.8	11.1	15.2	15.0	12.9	20.9	14.4	13.8	8.8	9.2	7.8	6.7	6.5	6.4	6.3	5.9	6.1	24	33.7	5.9	11.3
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													37.4	10.7	11.6	13.9	12.0	10.3	7.7	6.5	6.7	7.4	7.4	7.1	12	37.4	6.5	11.6
6/17/07	15.3	9.7	6.9	8.2	7.5	12.2	8.5	7.2	8.0	8.5	8.4	8.9	8.9	8.5	9.6	8.8	7.4	6.9	6.6	18.4	10.7	8.6	39.9	7.4	24	39.9	6.6	10.5
6/18/07	8.9	6.8	9.7	9.8	7.4	6.2	6.5	7.1	7.0	7.1	7.7	8.5	7.5	7.8	8.2	7.5	7.1	6.6	6.8	7.1	6.1	5.4	3.9	6.0	24	9.8	3.9	7.2
6/19/07	6.2	4.9	5.3	9.0	4.2	6.1	6.4	7.2	10.5	12.8	14.4	14.3	18.3	14.7	15.7	12.2	13.4	9.7	14.1	6.8	2.8	2.5	2.3	4.5	24	18.3	2.3	9.1
6/20/07	7.2	7.6	7.2	7.4	7.2	7.1	7.7	8.6	12.7	33.0	34.8	41.1	49.4	25.0	34.0	18.3	20.6	11.9	7.8	7.9	6.3	6.0	7.2	7.9	24	49.4	6.0	16.0
6/21/07	7.5	7.5	7.5	14.2	11.7	11.9	8.9	11.0	9.5	10.7	9.3	11.7	22.8	12.2	10.1	12.0	12.7	10.6	9.1	9.0	7.0	7.7	13.1	11.3	24	22.8	7.0	10.8
6/22/07	7.8	9.2	8.8	9.1	9.3	8.0	12.3	13.0	12.3	15.8	17.2	41.2	56.6	50.6	39.8	37.2	21.9	20.6	12.6	3.5	2.5	2.4	3.4	3.8	24	56.6	2.4	17.5
6/23/07	3.5	4.7	3.7	4.8	4.7	6.1	7.6	8.9	9.3	10.7	8.9	8.8	9.7	9.7	9.9	8.8	8.4	7.3	7.5	6.9	6.6	6.6	7.0	7.0	24	10.7	3.5	7.4
6/24/07	7.1	7.0	7.1	7.4	7.0	7.0	7.1	7.6	8.1	8.0	8.0	8.6	8.6	8.1	8.1	8.1	7.9	7.7	7.1	6.9	6.9	7.6	7.4	7.0	24	8.6	6.9	7.6
6/25/07	6.9	6.5	7.1	7.1	6.9	7.7	7.3	9.7	8.3	8.0	8.7	8.3	8.2	7.8	7.7	7.2	7.0	7.3	7.7	6.4	6.5	6.7	6.8	6.6	24	9.7	6.4	7.4
6/26/07	18.7	10.1	7.5	7.5	7.1	5.7	6.7	6.8	7.7	7.9	9.1	10.1	8.4	11.2	11.0	14.0	11.5	8.8	7.7	6.6	4.9	4.0	2.3	3.2	24	18.7	2.3	8.3
6/27/07	3.5	5.8	4.8	2.8	4.5	3.3	15.9	16.5	54.8	52.2	36.4	25.6	19.5	15.2	15.2	15.2	16.0	11.9	8.1	5.7	5.5	6.4	6.1	6.0	24	54.8	2.8	14.9
6/28/07	7.6	8.9	8.5	8.5	6.9	8.6	8.6	10.4	10.9	14.1	12.5	15.7	16.0	20.3	14.2	13.9	12.0	10.3	9.1	6.9	4.9	6.3	7.2	7.1	24	20.3	4.9	10.4
6/29/07	7.0	7.6	7.2	7.3	7.1	7.0	7.4	7.7	8.3	8.5	9.9	11.5	11.8	10.8	9.6	10.7	9.6	8.6	7.6	6.4	5.9	6.5	6.6	6.8	24	11.8	5.9	8.2
6/30/07	6.8	6.9	7.0	7.1	7.2	6.7	7.3	7.8	9.2	10.1	11.5	10.0	10.2	9.6	8.4	8.9	8.9	8.2	7.1	7.1	6.8	7.3	6.8	7.0	24	11.5	6.7	8.1
																									0			
hr max	33.7	12.3	9.7	14.2	17.7	12.2	15.9	16.5	54.8	52.2	36.4	41.2	56.6	50.6	47.2	37.2	25.7	20.6	14.2	18.4	13.9	23.5	39.9	23.2				
hr min	3.5	4.4	3.7	2.8	4.2	3.3	5.8	6.4	6.0	6.3	6.0	7.1	7.5	7.8	7.3	7.2	7.0	6.6	5.5	3.5	2.5	2.4	2.3	3.2				
average	9.0	7.3	6.8	7.4	7.4	7.4	8.2	9.1	12.1	13.6	13.3	14.4	18.1	14.9	15.1	12.9	11.9	9.5	8.4	7.2	6.7	7.1	9.1	7.2				

monthly max hr	monthly min hr	monthly ave hr
56.6	2.3	10.2
6/22/07	6/19/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	3.9	4.2	4.5	3.3	9.1	6.9	8.0	9.9	8.9	11.1	12.2	11.1	16.0	28.4	32.1	20.6	20.6	6.1	7.9	3.9	4.8	4.0	3.3	4.5	24	32.1	3.3	10.2
6/2/07	4.8	4.6	5.5	3.7	3.7	4.0	4.9	5.1	4.8	5.1	4.9	5.3	5.7	8.3	5.2	6.2	7.7	6.7	6.5	7.8	5.0	2.8	2.8	2.6	24	8.3	2.6	5.2
6/3/07	2.9	2.8	2.4	2.5	2.8	3.9	4.6	5.3	5.4	4.8	7.9	6.8	8.1	8.4	8.4	8.0	7.7	5.7	3.9	2.4	11.2	26.7	14.8	17.7	24	26.7	2.4	7.3
6/4/07	5.1	3.4	3.8	2.3	2.4	3.8	4.5	8.3	13.5	8.2	10.3	7.3	8.2	9.5	9.7	7.8	6.9	7.5	5.7	2.5	2.5	7.1	9.7	4.9	24	13.5	2.3	6.5
6/5/07	11.8	7.6	5.0	6.2	5.8	7.9	7.0	7.8	8.5	11.9	12.8	10.5	16.1	11.8	12.1	7.4	6.7	5.6	4.2	3.7	3.6	3.5	3.2	3.6	24	16.1	3.2	7.7
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													54.1	7.2	9.2	12.4	8.4	7.8	5.9	4.0	4.5	4.9	5.3	4.7	12	54.1	4.0	10.7
6/17/07	15.2	8.0	4.6	5.8	4.8	8.7	6.2	5.3	5.7	5.9	6.4	6.5	6.5	6.9	7.8	6.9	5.5	4.6	3.5	18.1	8.9	7.2	22.9	6.9	24	22.9	3.5	7.9
6/18/07	6.8	4.8	7.5	8.3	5.7	4.2	5.2	5.9	5.5	5.9	6.2	7.1	6.7	7.0	7.3	6.1	5.8	5.2	5.1	5.6	3.4	2.6	2.1	2.7	24	8.3	2.1	5.5
6/19/07	2.4	2.5	2.5	5.7	2.9	2.5	1.9	5.9	7.9	10.9	12.8	10.9	16.0	12.9	14.2	11.5	11.7	8.1	10.8	4.7	2.9	4.4	1.9	3.4	24	16.0	1.9	7.1
6/20/07	2.8	2.5	2.6	2.6	2.9	2.5	4.6	6.0	10.4	24.8	31.1	36.8	33.8	23.8	27.6	15.8	18.7	8.8	4.9	4.9	3.8	3.3	4.3	5.0	24	36.8	2.5	11.8
6/21/07	4.5	4.7	5.1	10.8	8.9	11.7	6.7	6.9	6.2	8.2	7.5	9.4	22.9	8.6	7.5	8.5	11.1	7.4	7.3	5.3	3.6	3.7	7.7	5.0	24	22.9	3.6	7.9
6/22/07	3.8	5.9	5.0	6.4	7.1	5.2	7.9	10.0	10.4	12.3	13.8	48.5	62.3	43.3	30.0	28.4	17.7	16.8	9.3	3.3	2.2	2.0	2.5	2.5	24	62.3	2.0	14.9
6/23/07	2.4	2.4	2.8	3.1	2.1	2.5	5.1	6.8	6.3	8.7	6.7	6.0	6.9	7.6	7.4	6.9	5.6	4.6	4.6	3.7	3.9	3.7	3.8	3.8	24	8.7	2.1	4.9
6/24/07	3.8	3.5	3.7	4.0	3.2	4.1	4.6	5.0	5.0	5.3	5.1	6.4	6.1	5.7	5.7	5.3	5.4	4.7	5.0	3.8	3.9	4.9	4.2	4.0	24	6.4	3.2	4.7
6/25/07	3.7	3.4	4.4	4.5	4.4	4.7	4.9	7.1	6.3	5.8	5.9	6.2	6.2	5.3	5.2	4.7	4.5	4.8	4.9	3.6	3.3	3.2	3.5	3.7	24	7.1	3.2	4.8
6/26/07	17.2	9.1	5.7	6.1	5.4	4.1	5.6	5.4	6.1	5.9	7.8	9.1	7.0	9.5	9.5	11.3	9.5	6.8	5.6	4.3	2.9	3.1	1.4	1.9	24	17.2	1.4	6.7
6/27/07	1.8	2.6	3.0	3.8	4.1	4.1	6.8	14.3	53.1	52.5	39.2	18.8	16.8	12.8	13.2	13.5	13.9	10.0	6.1	3.9	2.9	2.9	3.2	2.5	24	53.1	1.8	12.7
6/28/07	4.5	5.7	5.3	5.2	4.2	4.9	7.0	7.0	8.2	11.1	8.9	11.5	15.5	16.9	11.5	12.6	10.5	9.3	6.9	4.5	2.3	3.6	4.0	4.4	24	16.9	2.3	7.7
6/29/07	3.8	4.3	3.9	3.6	3.6	3.6	4.7	5.2	5.3	5.8	7.8	8.9	9.1	8.2	8.1	8.2	7.3	6.2	4.8	3.3	2.6	2.9	3.5	3.7	24	9.1	2.6	5.4
6/30/07	3.4	3.4	3.5	3.8	3.5	3.5	4.6	5.6	6.2	7.3	8.4	7.3	7.2	7.5	6.1	6.3	6.4	5.6	4.4	4.0	3.8	4.0	4.2	4.0	24	8.4	3.4	5.2
																									0			
hr max	17.2	9.1	7.5	10.8	9.1	11.7	8.0	14.3	53.1	52.5	39.2	48.5	62.3	43.3	32.1	28.4	20.6	16.8	10.8	18.1	11.2	26.7	22.9	17.7				
hr min	1.8	2.4	2.4	2.3	2.1	2.5	1.9	5.0	4.8	4.8	4.9	5.3	5.7	5.3	5.2	4.7	4.5	4.6	3.5	2.4	2.2	2.0	1.4	1.9				
average	5.5	4.5	4.3	4.8	4.6	4.9	5.5	7.0	9.7	11.1	11.4	12.3	16.6	12.5	11.9	10.4	9.6	7.1	5.9	4.9	4.1	5.0	5.4	4.6				

monthly max hr	monthly min hr	monthly ave hr
62.3	1.4	7.7
6/22/07	6/26/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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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
6/1/07	2.8	2.6	3.3	2.5	6.5	6.6	8.0	8.7	8.8	9.5	10.2	10.1	14.7	23.3	18.5	13.8	13.8	6.2	5.2	2.5	4.0	3.6	3.3	4.0	24	23.3	2.5	8.0
6/2/07	4.4	3.7	3.9	3.4	3.8	3.3	4.4	4.6	4.1	4.3	4.5	4.7	5.3	8.8	3.6	4.7	6.5	5.8	5.0	7.2	4.3	2.6	3.3	2.3	24	8.8	2.3	4.5
6/3/07	2.3	2.3	2.2	1.9	2.5	2.8	3.7	4.6	5.2	3.7	6.4	6.0	6.5	8.0	6.8	6.3	5.9	4.8	2.9	1.6	9.7	15.3	10.1	11.0	24	15.3	1.6	5.6
6/4/07	5.5	5.0	3.7	2.1	2.2	2.4	3.8	8.6	12.0	8.4	9.4	6.3	7.2	9.6	8.9	5.8	6.5	7.1	4.5	1.9	1.4	2.7	4.7	3.8	24	12.0	1.4	5.6
6/5/07	9.6	6.1	7.5	3.2	7.7	7.0	4.6	6.8	7.6	10.5	11.7	11.3	14.2	10.6	10.9	6.6	6.5	5.3	3.4	3.0	1.9	1.7	1.6	2.1	24	14.2	1.6	6.7
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													16.0	6.8	7.8	9.7	8.5	6.3	5.1	2.9	2.9	3.2	2.8	3.4	12	16.0	2.8	6.3
6/17/07	13.0	7.2	3.4	3.5	4.0	6.9	5.0	4.6	4.9	4.9	4.8	5.1	4.7	5.0	5.5	5.0	4.9	3.7	2.8	18.8	7.7	6.0	18.5	8.0	24	18.8	2.8	6.6
6/18/07	5.9	3.7	5.6	7.0	3.9	1.1	3.4	4.7	4.5	4.9	4.9	6.2	5.6	5.9	6.4	5.0	4.7	4.3	4.1	4.7	2.1	2.3	1.8	1.5	24	7.0	1.1	4.3
6/19/07	1.6	2.2	1.4	4.3	2.3	1.4	1.3	3.0	7.4	9.2	12.2	10.0	15.3	10.9	13.4	10.5	10.5	7.2	9.1	5.0	2.7	4.4	1.8	3.9	24	15.3	1.3	6.3
6/20/07	1.8	1.4	1.3	2.1	2.9	2.4	3.4	5.9	9.8	23.1	30.6	32.1	28.4	18.4	24.8	14.2	16.4	7.5	4.8	3.5	1.7	1.6	2.1	2.4	24	32.1	1.3	10.1
6/21/07	2.9	3.6	4.4	10.3	7.5	12.7	4.9	5.1	4.2	6.4	6.8	9.0	27.1	7.3	6.2	6.5	9.8	7.5	7.7	4.3	3.2	2.1	5.2	2.9	24	27.1	2.1	7.0
6/22/07	4.1	4.6	4.7	5.5	7.2	8.4	6.3	9.9	10.6	12.3	13.9	42.5	57.0	30.3	30.3	20.5	15.6	14.3	8.8	4.3	2.2	1.8	2.2	1.6	24	57.0	1.6	13.3
6/23/07	1.7	2.2	2.0	2.1	1.7	1.7	2.6	5.5	5.3	6.7	5.5	5.5	6.0	7.2	6.3	6.0	4.5	3.6	3.7	2.1	1.9	1.7	2.2	2.4	24	7.2	1.7	3.8
6/24/07	2.4	2.2	2.9	3.0	2.5	3.0	3.5	4.8	5.0	4.8	4.1	5.2	5.1	4.8	4.9	4.1	4.3	3.9	4.1	1.9	2.2	3.6	2.8	2.6	24	5.2	1.9	3.7
6/25/07	2.2	1.9	2.9	3.3	3.5	3.7	4.3	5.1	5.9	4.9	4.8	5.1	5.3	4.5	4.0	3.4	3.3	3.7	4.1	2.3	1.9	1.6	2.6	4.1	24	5.9	1.6	3.7
6/26/07	15.9	8.9	4.9	4.9	5.5	2.8	4.5	4.8	5.3	5.0	6.9	8.1	6.1	8.4	8.0	9.9	8.4	5.9	4.4	3.0	2.1	1.6	0.6	1.3	24	15.9	0.6	5.7
6/27/07	1.5	3.0	3.0	4.6	3.8	2.4	4.1	12.8	56.8	49.8	31.5	15.1	14.2	12.4	12.1	12.6	13.3	8.6	5.5	3.1	2.3	1.5	2.2	1.8	24	56.8	1.5	11.6
6/28/07	3.4	4.3	4.4	3.7	2.9	2.3	6.0	5.9	7.0	9.3	7.3	9.2	13.1	14.1	10.0	10.6	8.7	7.3	5.8	3.2	1.1	0.9	1.0	1.4	24	14.1	0.9	6.0
6/29/07	1.0	1.6	1.5	1.0	1.3	1.6	3.2	4.3	4.5	5.3	7.3	8.1	8.3	7.7	7.8	7.5	6.4	5.4	3.9	1.9	1.2	0.6	1.3	1.7	24	8.3	0.6	3.9
6/30/07	1.8	1.5	1.2	2.1	1.8	1.6	2.9	5.0	6.1	6.3	7.7	6.3	6.4	6.7	5.3	5.5	5.7	4.7	3.1	2.5	1.6	2.0	2.4	2.3	24	7.7	1.2	3.9
																									0			
hr max	15.9	8.9	7.5	10.3	7.7	12.7	8.0	12.8	56.8	49.8	31.5	42.5	57.0	30.3	30.3	20.5	16.4	14.3	9.1	18.8	9.7	15.3	18.5	11.0				
hr min	1.0	1.4	1.2	1.0	1.3	1.1	1.3	3.0	4.1	3.7	4.1	4.7	4.7	4.5	3.6	3.4	3.3	3.6	2.8	1.6	1.1	0.6	0.6	1.3				
average	4.4	3.6	3.4	3.7	3.9	3.9	4.2	6.0	9.2	10.0	10.0	10.8	13.3	10.5	10.1	8.4	8.3	6.2	4.9	4.0	2.9	3.0	3.6	3.2				

monthly max hr	monthly min hr	monthly ave hr
57.0	0.6	6.3
6/22/07	6/26/07	

Validated by: *Roger L Thompson* Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0.26	0.21	0.12	0.14	0.08	0.11	0.12	0.11	0.16	0.13	0.16	0.21	0.12	0.10	0.11	0.16	0.16	0.13	0.11	0.12	0.14	0.13	0.16	0.14	24	0.26	0.08	0.14
6/2/07	0.13	0.14	0.15	0.14	0.18	0.19	0.21	0.31	0.33	0.34	0.25	0.29	0.16	0.22	0.27	0.18	0.15	0.15	0.09	0.15	0.11	0.10	0.14	0.21	24	0.34	0.09	0.19
6/3/07	0.19	0.20	0.20	0.18	0.12	0.13	0.20	0.20	0.26	0.29	0.33	0.25	0.30	0.31	0.31	0.25	0.26	0.25	0.19	0.12	0.13	0.07	0.08	0.08	24	0.33	0.07	0.20
6/4/07	0.13	0.13	0.14	0.22	0.18	0.15	0.18	0.16	0.16	0.16	0.15	0.19	0.16	0.09	0.25	0.25	0.21	0.23	0.19	0.09	0.07	0.03	0.02	0.05	24	0.25	0.02	0.15
6/5/07	0.04	0.09	0.06	0.03	0.07	0.11	0.13	0.22	0.26	0.16	0.08	0.09	0.19	0.20	0.18	0.16	0.22	0.21	0.29	0.23	0.25	0.38	0.35	0.31	24	0.38	0.03	0.18
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													0.36	0.33	0.39	0.33	0.23	0.34	0.38	0.35	0.41	0.46	0.47	0.42	12	0.47	0.23	0.37
6/17/07	0.29	0.24	0.33	0.37	0.22	0.24	0.19	0.28	0.31	0.37	0.42	0.42	0.45	0.35	0.41	0.45	0.30	0.25	0.21	0.36	0.77	0.64	0.40	0.65	24	0.77	0.19	0.37
6/18/07	0.39	0.40	0.38	0.19	0.22	0.32	0.42	0.58	0.70	0.86	0.84	0.89	1.06	1.17	1.27	1.41	1.28	0.94	0.67	0.50	0.37	0.29	0.34	0.33	24	1.41	0.19	0.66
6/19/07	0.32	0.25	0.33	0.28	0.24	0.23	0.29	0.26	0.27	0.33	0.28	0.26	0.28	0.39	0.42	0.31	0.27	0.34	0.21	0.14	0.09	0.06	0.05	0.07	24	0.42	0.05	0.25
6/20/07	0.15	0.13	0.12	0.14	0.11	0.12	0.14	0.15	0.20	0.10	0.23	0.10	0.11	0.15	0.22	0.14	0.17	0.20	0.18	0.23	0.19	0.17	0.18	0.21	24	0.23	0.10	0.16
6/21/07	0.17	0.29	0.34	0.30	0.31	0.68	0.66	0.61	0.43	0.39	0.28	0.16	0.18	0.45	0.34	0.43	0.31	0.25	0.28	0.23	0.25	0.21	0.21	0.22	24	0.68	0.16	0.33
6/22/07	0.18	0.22	0.19	0.24	0.28	0.28	0.35	0.29	0.23	0.23	0.22	0.17	0.21	0.15	0.10	0.19	0.18	0.13	0.18	0.19	0.28	0.31	0.20	0.19	24	0.35	0.10	0.22
6/23/07	0.17	0.17	0.14	0.16	0.14	0.18	0.17	0.21	0.23	0.23	0.22	0.26	0.26	0.32	0.34	0.30	0.36	0.33	0.36	0.38	0.36	0.36	0.38	0.35	24	0.38	0.14	0.27
6/24/07	0.25	0.23	0.18	0.18	0.21	0.17	0.18	0.28	0.23	0.27	0.26	0.37	0.62	0.57	0.53	0.51	0.55	0.52	0.46	0.37	0.45	0.41	0.41	0.42	24	0.62	0.17	0.36
6/25/07	0.33	0.37	0.50	0.35	0.31	0.29	0.29	0.39	0.35	0.33	0.36	0.49	0.53	0.45	0.43	0.48	0.56	0.52	0.43	0.37	0.29	0.29	0.22	0.22	24	0.56	0.22	0.38
6/26/07	0.28	0.41	0.72	0.93	0.98	0.79	0.75	0.73	0.66	0.75	0.71	0.58	0.65	0.57	0.56	0.45	0.43	0.40	0.42	0.33	0.22	0.26	0.35	0.29	24	0.98	0.22	0.55
6/27/07	0.33	0.28	0.29	0.27	0.27	0.24	0.14	0.17	0.14	0.13	0.19	0.29	0.34	0.36	0.40	0.30	0.39	0.38	0.39	0.34	0.33	0.36	0.38	0.29	24	0.40	0.13	0.29
6/28/07	0.38	0.36	0.28	0.26	0.22	0.20	0.26	0.34	0.33	0.29	0.28	0.35	0.34	0.35	0.31	0.36	0.30	0.30	0.37	0.30	0.25	0.28	0.31	0.31	24	0.38	0.20	0.31
6/29/07	0.31	0.27	0.29	0.29	0.28	0.33	0.38	0.40	0.37	0.38	0.37	0.33	0.39	0.38	0.35	0.45	0.36	0.42	0.37	0.31	0.28	0.28	0.31	0.30	24	0.45	0.27	0.34
6/30/07	0.34	0.32	0.29	0.24	0.22	0.28	0.24	0.23	0.26	0.29	0.36	0.41	0.49	0.60	0.62	0.52	0.50	0.48	0.46	0.39	0.41	0.41	0.41	0.35	24	0.62	0.22	0.38
																									0			

hr max	0.39	0.41	0.72	0.93	0.98	0.79	0.75	0.73	0.70	0.86	0.84	0.89	1.06	1.17	1.27	1.41	1.28	0.94	0.67	0.50	0.77	0.64	0.47	0.65
hr min	0.04	0.09	0.06	0.03	0.07	0.11	0.12	0.11	0.14	0.10	0.08	0.09	0.11	0.09	0.10	0.14	0.15	0.13	0.09	0.09	0.07	0.03	0.02	0.05
average	0.24	0.25	0.27	0.26	0.24	0.27	0.28	0.31	0.31	0.32	0.32	0.32	0.36	0.38	0.39	0.38	0.36	0.34	0.31	0.28	0.28	0.28	0.27	0.27

monthly	monthly	monthly
max hr	min hr	ave hr
1.41	0.02	0.30
6/18/07	6/4/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
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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
6/1/07	0.24	0.21	0.14	0.28	0.22	0.17	0.17	0.18	0.24	0.08	0.11	0.25	0.13	0.21	0.08	0.20	0.20	0.18	0.29	0.25	0.29	0.27	0.32	0.25	24	0.32	0.08	0.21
6/2/07	0.28	0.27	0.32	0.38	0.48	0.46	0.48	0.54	0.63	0.66	0.56	0.55	0.31	0.45	0.43	0.35	0.28	0.32	0.29	0.42	0.39	0.56	0.57	0.75	24	0.75	0.27	0.45
6/3/07	0.69	0.72	0.68	0.67	0.56	0.45	0.47	0.41	0.50	0.47	0.51	0.38	0.51	0.46	0.52	0.48	0.46	0.56	0.54	0.56	0.62	0.14	0.22	0.20	24	0.72	0.14	0.49
6/4/07	0.52	0.59	0.62	0.81	0.67	0.55	0.46	0.32	0.26	0.17	0.04	0.30	0.20	0.11	0.42	0.44	0.21	0.26	0.33	0.19	0.14	0.15	0.12	0.16	24	0.81	0.04	0.34
6/5/07	0.21	0.16	0.14	0.05	0.11	0.12	0.16	0.21	0.32	0.20	0.16	0.12	0.29	0.18	0.19	0.11	0.17	0.22	0.27	0.30	0.30	0.34	0.37	0.33	24	0.37	0.05	0.21
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													0.15	0.24	0.22	0.17	0.13	0.33	0.39	0.28	0.36	0.38	0.51	0.48	12	0.51	0.13	0.30
6/17/07	0.32	0.23	0.22	0.15	0.25	0.23	0.03	0.06	0.10	0.02	0.13	0.15	0.06	0.28	0.34	0.32	0.22	0.17	0.25	0.43	0.48	0.54	0.33	0.39	24	0.54	0.02	0.24
6/18/07	0.26	0.32	0.32	0.15	0.16	0.35	0.37	0.50	0.49	0.62	0.61	0.53	0.70	0.76	0.89	0.92	0.80	0.55	0.52	0.36	0.38	0.34	0.36	0.47	24	0.92	0.15	0.49
6/19/07	0.50	0.24	0.50	0.47	0.49	0.39	0.43	0.19	0.09	0.28	0.35	0.24	0.22	0.29	0.32	0.29	0.18	0.12	0.22	0.26	0.12	0.02	0.01	0.06	24	0.50	0.01	0.26
6/20/07	0.51	0.33	0.29	0.29	0.24	0.23	0.35	0.20	0.12	0.08	0.34	-0.15	0.11	0.07	0.31	0.01	0.12	0.18	0.17	0.23	0.18	0.19	0.24	0.25	24	0.51	-0.15	0.20
6/21/07	0.18	0.19	0.21	0.20	0.21	0.51	0.42	0.58	0.38	0.33	0.29	0.05	0.09	0.28	0.11	0.35	0.27	0.19	0.21	0.15	0.29	0.28	0.21	0.20	24	0.58	0.05	0.26
6/22/07	0.08	0.13	0.07	0.15	0.13	0.12	0.19	0.20	0.14	0.05	0.07	0.07	0.28	0.04	-0.10	0.07	0.10	0.10	0.01	0.10	0.23	0.35	0.12	0.02	24	0.35	-0.10	0.11
6/23/07	0.02	0.06	0.05	0.02	0.08	0.03	-0.01	0.15	0.10	0.14	0.05	0.12	0.15	0.22	0.30	0.30	0.31	0.32	0.52	0.43	0.45	0.44	0.51	0.41	24	0.52	-0.01	0.22
6/24/07	0.38	0.37	0.15	0.03	0.33	0.06	0.06	0.00	0.05	0.14	0.16	0.38	0.66	0.52	0.58	0.57	0.60	0.53	0.54	0.48	0.57	0.47	0.55	0.51	24	0.66	0.00	0.36
6/25/07	0.46	0.50	0.64	0.36	0.18	0.07	0.07	0.26	0.19	0.25	-0.01	0.04	0.16	0.29	0.32	0.40	0.40	0.51	0.57	0.50	0.47	0.45	0.38	0.25	24	0.64	-0.01	0.32
6/26/07	0.22	0.30	0.55	0.56	0.70	0.56	0.48	0.52	0.42	0.51	0.56	0.27	0.34	0.37	0.39	0.34	0.27	0.15	0.26	0.34	0.25	0.36	0.37	0.32	24	0.70	0.15	0.39
6/27/07	0.38	0.41	0.29	0.13	0.11	0.01	0.03	0.06	0.07	0.02	0.10	0.08	0.12	0.12	0.20	0.11	0.27	0.14	0.25	0.33	0.30	0.32	0.31	0.25	24	0.41	0.01	0.18
6/28/07	0.22	0.21	0.19	0.19	0.15	0.12	0.09	0.31	0.12	0.09	-0.07	0.20	0.57	0.39	0.29	0.33	0.16	0.16	0.30	0.25	0.32	0.32	0.33	0.38	24	0.57	-0.07	0.23
6/29/07	0.37	0.38	0.40	0.41	0.38	0.43	0.34	0.35	0.26	0.23	0.23	0.41	0.40	0.31	0.18	0.40	0.32	0.47	0.44	0.35	0.45	0.43	0.44	0.40	24	0.47	0.18	0.37
6/30/07	0.48	0.47	0.45	0.36	0.37	0.31	0.21	0.11	0.15	0.12	0.28	0.38	0.32	0.54	0.61	0.39	0.41	0.43	0.40	0.44	0.53	0.53	0.49	0.50	24	0.61	0.11	0.39
																									0			
hr max	0.69	0.72	0.68	0.81	0.70	0.56	0.48	0.58	0.63	0.66	0.61	0.55	0.70	0.76	0.89	0.92	0.80	0.56	0.57	0.56	0.62	0.56	0.57	0.75				
hr min	0.02	0.06	0.05	0.02	0.08	0.01	-0.01	0.00	0.05	0.02	-0.07	-0.15	0.06	0.04	-0.10	0.01	0.10	0.10	0.01	0.10	0.12	0.02	0.01	0.02				
average	0.33	0.32	0.33	0.30	0.31	0.27	0.25	0.27	0.24	0.23	0.24	0.23	0.29	0.31	0.33	0.33	0.29	0.29	0.34	0.33	0.36	0.34	0.34	0.33				

monthly max hr	monthly min hr	monthly ave hr
0.92	-0.15	0.30
6/18/07	6/20/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	*65.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0.50	0.38	0.35	0.32	0.08	-0.03	-0.14	-0.16	-0.03	-0.21	-0.28	-0.03	-0.33	-0.12	-0.27	-0.21	-0.21	-0.07	-0.04	-0.20	-0.12	-0.15	0.03	-0.17
6/2/07	-0.19	-0.19	-0.16	-0.17	-0.09	-0.06	-0.05	-0.13	0.00	0.01	-0.11	-0.03	-0.22	-0.04	-0.03	-0.20	-0.35	-0.30	-0.34	-0.23	-0.23	-0.32	-0.32	-0.31
6/3/07	-0.35	-0.23	-0.19	-0.13	-0.20	-0.29	-0.28	-0.39	-0.32	-0.33	-0.37	-0.45	-0.36	-0.33	-0.39	-0.43	-0.40	-0.27	-0.27	-0.25	-0.13	-0.51	-0.39	-0.60
6/4/07	-0.62	-0.50	-0.41	-0.20	-0.47	-0.32	-0.54	-0.66	-0.86	-0.92	-1.10	-0.77	-0.98	-1.12	-0.75	-0.73	-1.05	-0.85	-0.83	-0.98	-0.94	-1.03	-1.05	-1.08
6/5/07	-0.96	-1.00	-0.90	-0.89	-0.72	-0.60	-0.74	-0.79	-0.88	-1.06	-1.18	-1.15	-1.08	-1.05	-0.01	-0.11	-0.13	-0.29	-0.17	-0.63	-0.82	-0.43	-0.11	-0.09
6/6/07																								
6/7/07																								
6/8/07																								
6/9/07																								
6/10/07																								
6/11/07																								
6/12/07																								
6/13/07																								
6/14/07																								
6/15/07																								
6/16/07														0.18	0.11	0.07	-0.04	0.31	0.31	0.26	0.34	0.40	0.47	0.28
6/17/07	-0.07	0.47	-1.14	0.54	0.16	0.38	-0.21	-0.81	-0.84	-0.37	0.11	-0.68	-0.05	0.56	0.48	0.60	-0.78	-0.96	-0.96	0.40	0.94	1.07	0.58	0.80
6/18/07	0.47	0.65	0.62	0.20	0.38	0.71	0.71	0.77	0.73	0.86	0.85	0.80	0.96	1.03	1.28	1.29	1.12	0.78	0.75	0.65	0.75	0.58	0.43	0.75
6/19/07	0.70	0.43	0.60	0.57	0.55	0.61	0.64	0.38	0.22	0.30	0.33	0.26	0.26	0.38	0.38	0.47	0.21	0.14	0.24	0.33	0.53	0.48	-1.12	0.63
6/20/07	0.89	0.86	0.80	0.73	0.67	0.60	0.65	0.33	0.13	0.12	0.51	-0.22	-0.06	-0.12	0.39	-0.05	0.07	0.13	0.16	0.22	0.12	0.10	0.37	0.46
6/21/07	0.24	0.12	0.23	0.33	0.28	1.04	0.81	0.73	0.67	0.33	-0.02	-0.07	0.10	0.30	0.10	0.35	0.32	0.22	0.21	0.17	0.37	0.35	0.20	0.21
6/22/07	0.09	0.08	0.04	0.16	0.16	0.17	0.16	0.17	0.15	-0.02	0.04	-0.02	0.11	-0.03	-0.22	0.00	-0.04	0.02	-0.05	0.03	0.00	0.00	-0.01	-0.02
6/23/07	0.02	0.12	0.66	0.72	-1.15	-0.80	0.42	0.26	0.22	0.06	-0.38	-0.27	-0.17	-0.05	-0.21	-0.09	0.00	0.09	0.11	-0.03	-0.02	0.03	0.27	0.40
6/24/07	-0.03	-1.54	-1.50	-0.40	-1.38	-0.89	-1.08	-0.74	-0.65	-0.43	-0.23	0.11	0.23	0.27	0.19	0.28	0.27	0.24	0.09	0.08	0.23	0.12	0.03	0.06
6/25/07	0.30	0.43	0.33	-0.81	-1.95	-1.51	-1.23	0.49	-0.57	-0.96	-0.56	-0.70	-0.80	-1.14	-0.71	-0.01	0.23	0.17	0.17	0.15	0.17	-0.21	-0.74	-0.47
6/26/07	0.13	0.47	1.02	1.05	1.23	1.07	1.04	0.88	0.70	0.71	0.85	0.43	0.42	0.55	0.63	0.49	0.33	0.22	0.39	0.54	0.53	0.64	0.56	0.62
6/27/07	0.69	0.64	0.56	0.32	0.16	0.03	0.01	-0.07	0.10	0.10	0.14	0.07	0.17	0.12	0.30	0.18	0.35	0.17	0.32	0.54	0.56	0.67	0.53	0.41
6/28/07	0.31	0.27	0.22	0.24	0.16	0.10	0.09	0.22	0.05	-0.01	-0.23	0.16	0.81	0.40	0.31	0.30	0.09	0.13	0.20	0.15	0.01	0.15	-0.05	0.54
6/29/07	0.29	0.46	0.02	0.30	0.35	0.17	0.03	0.03	0.05	0.11	0.12	0.16	0.12	0.04	0.02	0.19	0.11	0.15	0.10	0.11	0.04	0.00	-0.02	-0.05
6/30/07	0.02	0.20	0.47	-0.16	0.00	0.14	-0.38	-0.80	-0.17	-0.43	-0.04	0.15	0.11	0.24	0.19	0.10	0.14	0.23	0.26	0.26	0.07	0.13	0.19	0.17
hr max	0.89	0.86	1.02	1.05	1.23	1.07	1.04	0.88	0.73	0.86	0.85	0.80	0.96	1.03	1.28	1.29	1.12	0.78	0.75	0.65	0.94	1.07	0.58	0.80
hr min	-0.96	-1.54	-1.50	-0.89	-1.95	-1.51	-1.23	-0.81	-0.88	-1.06	-1.18	-1.15	-1.08	-1.14	-0.75	-0.73	-1.05	-0.96	-0.96	-0.98	-0.94	-1.03	-1.12	-1.08
average	0.13	0.11	0.09	0.14	-0.09	0.03	0.00	-0.02	-0.07	-0.11	-0.08	-0.12	-0.04	0.00	0.09	0.12	0.01	0.01	0.03	0.08	0.12	0.10	-0.01	0.13

valid hr count	daily max hr	daily min hr	daily ave hr
24	0.50	-0.33	-0.05
24	0.01	-0.35	-0.17
24	-0.13	-0.60	-0.33
24	-0.20	-1.12	-0.78
24	-0.01	-1.18	-0.66
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
11	0.47	-0.04	0.24
24	1.07	-1.14	0.01
24	1.29	0.20	0.76
24	0.70	-1.12	0.36
24	0.89	-0.22	0.33
24	1.04	-0.07	0.32
24	0.17	-0.22	0.04
24	0.72	-1.15	0.01
24	0.28	-1.54	-0.28
24	0.49	-1.95	-0.41
24	1.23	0.13	0.65
24	0.69	-0.07	0.29
24	0.81	-0.23	0.19
24	0.46	-0.05	0.12
24	0.47	-0.80	0.05
0			

monthly max hr	monthly min hr	monthly ave hr
1.29	-1.95	0.03
6/18/07	6/25/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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 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				
6/1/07	0.42	0.35	0.26	0.22	0.18	0.17	0.24	0.33	0.31	0.31	0.37	0.39	0.29	0.30	0.41	0.31	0.31	0.33	0.21	0.23	0.27	0.26	0.24	0.27	24	0.42	0.17	0.29
6/2/07	0.31	0.24	0.26	0.24	0.26	0.27	0.30	0.38	0.43	0.40	0.37	0.44	0.36	0.43	0.52	0.39	0.29	0.27	0.22	0.21	0.20	0.11	0.16	0.20	24	0.52	0.11	0.30
6/3/07	0.25	0.22	0.23	0.18	0.17	0.19	0.28	0.36	0.48	0.55	0.54	0.56	0.58	0.56	0.55	0.49	0.43	0.38	0.27	0.16	0.21	0.15	0.14	0.11	24	0.58	0.11	0.34
6/4/07	0.13	0.14	0.16	0.25	0.22	0.20	0.26	0.30	0.26	0.41	0.42	0.36	0.38	0.37	0.45	0.48	0.51	0.48	0.35	0.15	0.09	0.05	0.04	0.10	24	0.51	0.04	0.27
6/5/07	0.12	0.11	0.09	0.08	0.12	0.14	0.25	0.34	0.42	0.42	0.45	0.45	0.46	0.46	0.44	0.45	0.50	0.51	0.51	0.37	0.40	0.58	0.57	0.58	24	0.58	0.08	0.37
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													0.97	0.31	0.43	0.40	0.34	0.31	0.38	0.34	0.42	0.53	0.57	0.55	12	0.97	0.31	0.46
6/17/07	0.42	0.37	0.60	0.55	0.34	0.32	0.34	0.57	0.63	0.62	0.66	0.72	0.67	0.53	0.59	0.61	0.54	0.39	0.28	0.39	0.58	0.49	0.44	0.54	24	0.72	0.28	0.51
6/18/07	0.29	0.35	0.37	0.21	0.17	0.30	0.43	0.59	0.64	0.67	0.67	0.74	0.80	0.80	0.80	0.82	0.76	0.67	0.51	0.38	0.26	0.13	0.13	0.18	24	0.82	0.13	0.49
6/19/07	0.19	0.12	0.16	0.15	0.13	0.14	0.21	0.26	0.33	0.39	0.48	0.50	0.49	0.50	0.53	0.44	0.41	0.39	0.31	0.19	0.09	0.10	0.11	0.18	24	0.53	0.09	0.28
6/20/07	0.22	0.24	0.22	0.21	0.21	0.21	0.31	0.40	0.38	0.40	0.45	0.41	0.43	0.41	0.47	0.33	0.31	0.30	0.27	0.26	0.20	0.20	0.25	0.31	24	0.47	0.20	0.31
6/21/07	0.34	0.38	0.34	0.29	0.26	0.63	0.65	0.63	0.46	0.44	0.46	0.36	0.25	0.45	0.42	0.41	0.35	0.14	0.21	0.19	0.16	0.17	0.12	0.13	24	0.65	0.12	0.34
6/22/07	0.11	0.15	0.12	0.21	0.20	0.20	0.22	0.27	0.25	0.30	0.30	0.32	0.36	0.46	0.47	0.38	0.29	0.22	0.15	0.09	0.10	0.10	0.12	0.12	24	0.47	0.09	0.23
6/23/07	0.11	0.12	0.13	0.16	0.16	0.21	0.33	0.42	0.46	0.47	0.49	0.52	0.53	0.56	0.57	0.52	0.55	0.56	0.50	0.43	0.50	0.53	0.54	0.53	24	0.57	0.11	0.41
6/24/07	0.47	0.41	0.40	0.34	0.39	0.34	0.43	0.52	0.55	0.56	0.54	0.59	0.74	0.72	0.68	0.67	0.67	0.66	0.54	0.45	0.54	0.50	0.55	0.53	24	0.74	0.34	0.53
6/25/07	0.51	0.54	0.67	0.65	0.65	0.59	0.57	0.58	0.56	0.63	0.66	0.75	0.80	0.75	0.68	0.71	0.74	0.64	0.52	0.42	0.42	0.45	0.42	0.34	24	0.80	0.34	0.59
6/26/07	0.42	0.43	0.61	0.76	0.71	0.57	0.65	0.55	0.50	0.56	0.52	0.47	0.51	0.53	0.49	0.50	0.45	0.41	0.33	0.22	0.11	0.11	0.10	0.10	24	0.76	0.10	0.44
6/27/07	0.10	0.13	0.11	0.11	0.11	0.10	0.12	0.21	0.32	0.36	0.40	0.48	0.49	0.48	0.48	0.38	0.40	0.33	0.25	0.20	0.17	0.24	0.26	0.20	24	0.49	0.10	0.27
6/28/07	0.39	0.39	0.30	0.25	0.18	0.20	0.30	0.39	0.45	0.47	0.47	0.51	0.51	0.53	0.49	0.46	0.43	0.39	0.37	0.27	0.19	0.29	0.32	0.39	24	0.53	0.18	0.37
6/29/07	0.39	0.35	0.41	0.39	0.39	0.46	0.49	0.56	0.51	0.55	0.54	0.57	0.57	0.59	0.59	0.58	0.56	0.54	0.48	0.35	0.25	0.29	0.38	0.36	24	0.59	0.25	0.46
6/30/07	0.39	0.37	0.40	0.36	0.31	0.32	0.39	0.48	0.47	0.54	0.57	0.64	0.64	0.71	0.70	0.64	0.58	0.54	0.51	0.43	0.48	0.48	0.49	0.48	24	0.71	0.31	0.50
																									0			
hr max	0.51	0.54	0.67	0.76	0.71	0.63	0.65	0.63	0.64	0.67	0.67	0.75	0.97	0.80	0.80	0.82	0.76	0.67	0.54	0.45	0.58	0.58	0.57	0.58				
hr min	0.10	0.11	0.09	0.08	0.11	0.10	0.12	0.21	0.25	0.30	0.30	0.32	0.25	0.30	0.41	0.31	0.29	0.14	0.15	0.09	0.09	0.05	0.04	0.10				
average	0.29	0.28	0.31	0.30	0.27	0.29	0.36	0.43	0.44	0.48	0.49	0.51	0.54	0.52	0.54	0.50	0.47	0.42	0.36	0.29	0.28	0.29	0.30	0.31				

monthly max hr	monthly min hr	monthly ave hr
0.97	0.04	0.39
6/16/07	6/4/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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				
6/1/07	0.44	0.37	0.30	0.24	0.33	0.23	0.35	0.54	0.50	0.54	0.63	0.74	0.55	0.47	0.70	0.52	0.52	0.42	0.27	0.25	0.28	0.28	0.24	0.34	24	0.74	0.23	0.42
6/2/07	0.38	0.27	0.28	0.28	0.31	0.32	0.42	0.58	0.64	0.55	0.55	0.60	0.48	0.63	0.72	0.49	0.39	0.38	0.27	0.24	0.25	0.09	0.23	0.22	24	0.72	0.09	0.40
6/3/07	0.25	0.17	0.19	0.17	0.25	0.28	0.38	0.51	0.69	0.72	0.77	0.86	0.87	0.89	0.86	0.70	0.67	0.57	0.37	0.13	0.28	0.22	0.23	0.18	24	0.89	0.13	0.47
6/4/07	0.13	0.09	0.12	0.14	0.17	0.30	0.33	0.37	0.36	0.60	0.76	0.55	0.65	0.65	0.71	0.78	0.73	0.60	0.50	0.18	0.08	0.09	0.17	0.12	24	0.78	0.08	0.38
6/5/07	0.23	0.12	0.07	0.16	0.21	0.21	0.31	0.41	0.67	0.70	0.79	0.85	0.91	0.83	0.78	0.78	0.69	0.67	0.64	0.48	0.46	0.63	0.61	0.65	24	0.91	0.07	0.54
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07													1.33	0.46	0.67	0.72	0.56	0.45	0.45	0.40	0.54	0.64	0.66	0.64	12	1.33	0.40	0.63
6/17/07	0.52	0.49	0.64	0.60	0.37	0.38	0.46	0.65	0.73	0.72	0.79	0.83	0.80	0.66	0.85	0.84	0.64	0.47	0.32	0.52	0.88	0.62	0.57	0.72	24	0.88	0.32	0.63
6/18/07	0.46	0.42	0.51	0.35	0.29	0.34	0.63	0.87	1.00	1.02	1.05	1.13	1.25	1.21	1.24	1.39	1.30	1.03	0.74	0.55	0.29	0.11	0.14	0.12	24	1.39	0.11	0.73
6/19/07	0.08	0.18	0.09	0.11	0.09	0.16	0.15	0.31	0.54	0.76	0.97	0.91	0.95	0.89	0.91	0.82	0.73	0.58	0.55	0.23	0.15	0.14	0.30	0.25	24	0.97	0.08	0.45
6/20/07	0.18	0.24	0.23	0.22	0.21	0.21	0.34	0.56	0.68	0.66	0.75	0.79	0.78	0.73	0.82	0.63	0.56	0.51	0.39	0.38	0.27	0.26	0.36	0.45	24	0.82	0.18	0.47
6/21/07	0.45	0.47	0.45	0.34	0.30	0.77	0.85	0.65	0.58	0.65	0.74	0.55	0.41	0.71	0.65	0.68	0.58	0.21	0.24	0.16	0.17	0.22	0.20	0.18	24	0.85	0.16	0.47
6/22/07	0.16	0.19	0.15	0.27	0.37	0.30	0.42	0.41	0.37	0.45	0.44	0.50	0.68	0.85	0.76	0.69	0.55	0.41	0.29	0.15	0.10	0.08	0.21	0.02	24	0.85	0.02	0.37
6/23/07	0.04	0.22	0.09	0.13	0.24	0.26	0.30	0.57	0.61	0.66	0.75	0.77	0.81	0.84	0.77	0.77	0.74	0.69	0.62	0.44	0.53	0.56	0.57	0.61	24	0.84	0.04	0.52
6/24/07	0.52	0.44	0.42	0.31	0.38	0.35	0.46	0.56	0.67	0.71	0.70	0.83	0.98	1.04	0.93	0.89	0.91	0.84	0.72	0.48	0.57	0.63	0.59	0.58	24	1.04	0.31	0.65
6/25/07	0.52	0.57	0.78	0.79	0.68	0.61	0.65	0.74	0.78	0.79	0.75	0.89	0.95	0.92	0.91	0.89	0.97	0.90	0.72	0.49	0.46	0.49	0.45	0.40	24	0.97	0.40	0.71
6/26/07	0.53	0.65	0.98	1.10	0.98	0.71	1.00	0.86	0.89	0.92	0.94	0.85	0.95	0.98	0.95	0.93	0.81	0.63	0.54	0.31	0.17	0.21	0.09	0.10	24	1.10	0.09	0.71
6/27/07	0.10	0.12	0.16	0.16	0.14	0.11	0.16	0.29	0.56	0.70	0.81	0.77	0.93	0.90	0.93	0.75	0.81	0.60	0.39	0.28	0.21	0.28	0.29	0.23	24	0.93	0.10	0.45
6/28/07	0.50	0.51	0.42	0.35	0.28	0.28	0.52	0.65	0.70	0.80	0.74	0.89	0.99	0.87	0.86	0.83	0.75	0.63	0.53	0.36	0.20	0.34	0.39	0.47	24	0.99	0.20	0.58
6/29/07	0.42	0.43	0.42	0.40	0.39	0.42	0.56	0.70	0.74	0.72	0.78	0.92	0.91	0.92	0.92	0.90	0.76	0.70	0.60	0.34	0.24	0.28	0.42	0.41	24	0.92	0.24	0.60
6/30/07	0.39	0.36	0.38	0.36	0.34	0.32	0.45	0.63	0.69	0.70	0.80	1.01	0.91	1.01	1.02	0.94	0.87	0.71	0.61	0.48	0.50	0.53	0.58	0.52	24	1.02	0.32	0.63
																									0			
hr max	0.53	0.65	0.98	1.10	0.98	0.77	1.00	0.87	1.00	1.02	1.05	1.13	1.33	1.21	1.24	1.39	1.30	1.03	0.74	0.55	0.88	0.64	0.66	0.72				
hr min	0.04	0.09	0.07	0.11	0.09	0.11	0.15	0.29	0.36	0.45	0.44	0.50	0.41	0.46	0.65	0.49	0.39	0.21	0.24	0.13	0.08	0.08	0.09	0.02				
average	0.33	0.33	0.35	0.34	0.33	0.35	0.46	0.57	0.65	0.70	0.76	0.80	0.85	0.82	0.85	0.80	0.73	0.60	0.49	0.34	0.33	0.34	0.37	0.36				

monthly max hr	monthly min hr	monthly ave hr
1.39	0.02	0.54
6/18/07	6/22/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	468
possible hours	720
data capture	65.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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 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				
6/1/07	0.31	0.29	0.23	0.19	0.42	0.26	0.38	0.61	0.60	0.63	0.75	0.94	0.63	0.53	0.88	0.52	0.52	0.49	0.28	0.24	0.29	0.26	0.22	0.38	24	0.94	0.19	0.45
6/2/07	0.39	0.27	0.28	0.26	0.29	0.29	0.38	0.64	0.67	0.59	0.64	0.67	0.53	0.73	0.77	0.56	0.46	0.42	0.29	0.30	0.25	0.19	0.20	0.25	24	0.77	0.19	0.43
6/3/07	0.24	0.22	0.24	0.19	0.31	0.31	0.38	0.51	0.83	0.85	0.89	1.03	0.98	1.10	1.05	0.82	0.79	0.61	0.38	0.14	0.32	0.30	0.29	0.18	24	1.10	0.14	0.54
6/4/07	0.14	0.18	0.16	0.13	0.31	0.29	0.31	0.45	0.43	0.71	0.91	0.63	0.78	0.77	0.81	0.89	0.86	0.64	0.49	0.20	0.12	0.12	0.10	0.06	24	0.91	0.06	0.44
6/5/07	0.21	0.13	0.16	0.20	0.27	0.27	0.29	0.45	0.64	0.71	0.89	0.98	1.09	1.25	1.00	0.89	0.89	0.79	0.53	0.38	0.31	0.36	0.36	0.49	24	1.25	0.13	0.56
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														0.57	0.73	0.79	0.54	0.54	0.57	0.39	0.49	0.59	0.58	0.49	11	0.79	0.39	0.57
6/17/07	0.95	0.80	1.28	1.04	0.92	0.73	0.92	1.23	1.16	1.28	1.37	1.62	1.41	1.07	1.17	1.17	1.09	0.65	0.79	0.75	0.89	0.59	0.67	0.72	24	1.62	0.59	1.01
6/18/07	0.50	0.41	0.55	0.44	0.28	0.23	0.57	0.96	1.07	1.06	1.24	1.29	1.42	1.37	1.41	1.48	1.36	1.12	0.83	0.55	0.22	0.11	0.27	0.14	24	1.48	0.11	0.79
6/19/07	0.09	0.19	0.11	0.13	0.14	0.09	0.12	0.24	0.52	0.83	1.18	1.09	1.18	1.06	1.04	1.07	0.78	0.65	0.62	0.19	0.09	0.40	0.50	0.49	24	1.18	0.09	0.53
6/20/07	0.13	0.07	0.08	0.15	0.13	0.17	0.22	0.56	0.70	0.86	0.94	0.87	0.91	0.80	1.02	0.84	0.68	0.68	0.45	0.33	0.20	0.21	0.35	0.36	24	1.02	0.07	0.49
6/21/07	0.47	0.44	0.41	0.35	0.49	0.78	0.80	1.32	1.24	0.67	0.65	0.76	0.52	0.85	0.75	0.86	0.76	0.25	0.22	0.19	0.21	0.24	0.25	0.21	24	1.32	0.19	0.57
6/22/07	0.26	0.22	0.16	0.22	0.36	0.29	0.44	0.43	0.46	0.50	0.50	0.59	0.68	1.12	0.89	0.81	0.53	0.45	0.35	0.17	0.03	0.02	0.13	0.07	24	1.12	0.02	0.40
6/23/07	0.22	0.61	0.12	0.12	0.78	0.66	0.39	0.72	0.80	0.89	0.78	0.74	0.72	0.78	0.83	0.82	0.55	0.48	0.36	0.12	0.16	0.22	0.34	0.38	24	0.89	0.12	0.52
6/24/07	0.64	0.64	0.68	0.86	0.68	0.87	0.66	0.94	0.92	0.85	0.71	0.72	0.65	0.84	0.69	0.64	0.65	0.61	0.41	0.25	0.36	0.35	0.23	0.26	24	0.94	0.23	0.63
6/25/07	0.31	0.33	0.48	1.24	0.87	1.02	1.14	1.09	1.01	1.11	1.31	1.53	1.75	1.25	1.07	0.81	0.73	0.59	0.44	0.29	0.55	0.57	0.76	1.09	24	1.75	0.29	0.89
6/26/07	1.25	0.72	1.03	1.12	1.03	0.55	1.02	0.93	1.03	1.14	1.14	1.05	1.09	1.17	1.19	1.07	1.00	0.72	0.56	0.30	0.17	0.20	0.07	0.09	24	1.25	0.07	0.82
6/27/07	0.08	0.13	0.14	0.17	0.15	0.08	0.07	0.30	0.68	0.83	1.00	0.98	1.18	1.09	1.15	0.91	0.93	0.73	0.42	0.19	0.14	0.19	0.30	0.26	24	1.18	0.07	0.50
6/28/07	0.51	0.55	0.51	0.37	0.29	0.23	0.54	0.73	0.79	0.95	0.90	1.05	1.11	1.07	1.07	1.00	0.90	0.80	0.69	0.41	0.06	0.27	0.40	0.38	24	1.11	0.06	0.65
6/29/07	0.38	0.36	0.18	0.27	0.26	0.28	0.23	0.35	0.45	0.57	0.68	0.85	0.78	0.78	0.82	0.70	0.65	0.48	0.34	0.22	0.15	0.04	0.08	0.12	24	0.85	0.04	0.42
6/30/07	0.20	0.27	0.25	0.96	0.78	0.39	0.68	0.77	0.70	0.94	0.84	0.83	0.77	0.74	0.72	0.64	0.64	0.56	0.46	0.36	0.21	0.28	0.33	0.29	24	0.96	0.20	0.57
																									0			
hr max	1.25	0.80	1.28	1.24	1.03	1.02	1.14	1.32	1.24	1.28	1.37	1.62	1.75	1.37	1.41	1.48	1.36	1.12	0.83	0.75	0.89	0.59	0.76	1.09				
hr min	0.08	0.07	0.08	0.12	0.13	0.08	0.07	0.24	0.43	0.50	0.50	0.59	0.52	0.53	0.69	0.52	0.46	0.25	0.22	0.12	0.03	0.02	0.07	0.06				
average	0.38	0.36	0.37	0.44	0.46	0.41	0.50	0.70	0.77	0.84	0.91	0.96	0.96	0.95	0.95	0.86	0.77	0.61	0.47	0.30	0.26	0.28	0.32	0.34				

monthly max hr	monthly min hr	monthly ave hr
1.75	0.02	0.59
6/25/07	6/22/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	12.0	12.1	11.1	10.3	9.7	10.7	11.2	13.1	14.1	15.4	16.3	17.5	17.2	17.3	14.5	15.7	15.7	13.1	12.7	12.4	12.0	11.7	11.2	11.9	24	17.5	9.7	13.3
6/2/07	12.4	11.9	11.5	10.8	11.1	11.6	12.3	12.8	12.9	13.1	14.0	15.1	16.4	16.8	17.8	16.3	16.2	16.0	15.2	15.3	14.6	13.6	13.6	14.3	24	17.8	10.8	14.0
6/3/07	14.5	14.3	13.9	12.8	12.3	12.6	14.2	16.0	17.2	18.1	19.0	19.9	21.6	22.5	23.3	23.1	23.4	23.0	22.0	20.0	17.7	16.6	15.3	15.6	24	23.4	12.3	17.9
6/4/07	14.8	14.3	14.3	14.6	14.4	14.3	15.1	14.7	15.7	17.4	18.5	16.8	17.1	18.3	18.9	19.3	19.5	18.9	17.8	15.6	14.4	12.2	11.1	10.9	24	19.5	10.9	15.8
6/5/07	10.4	10.3	8.7	8.4	8.0	7.6	9.3	11.9	14.0	16.1	17.7	19.3	20.5	21.1	21.5	21.7	21.5	21.3	20.3	18.3	16.4	16.2	15.5	15.5	24	21.7	7.6	15.5
6/6/07	15.8	15.9	15.6	15.1	14.1	14.5	14.8	15.7	17.9	19.5	20.9	21.9	22.8	24.9	26.0	26.3	26.5	25.9	24.3	21.2	15.8	14.9	14.1	13.3	24	26.5	13.3	19.1
6/7/07	12.4	12.3	11.3	10.6	10.7	11.7	12.5	14.1	14.5	14.2	14.5	15.0	13.0	11.2	10.4	10.1	10.5	12.5	12.7	12.1	10.9	9.4	7.5	6.1	24	15.0	6.1	11.7
6/8/07	5.6	4.8	5.3	5.6	4.5	4.5	8.6	12.4	15.5	17.6	18.3	20.0	21.3	21.6	22.0	21.9	21.2	21.2	19.9	16.1	11.8	10.1	9.6	10.2	24	22.0	4.5	13.7
6/9/07	10.2	9.5	8.4	8.3	8.7	10.4	12.7	15.6	19.2	21.7	23.3	24.2	24.9	24.8	25.9	26.8	26.8	25.7	24.0	21.5	16.1	13.9	13.2	13.7	24	26.8	8.3	17.9
6/10/07	13.4	12.5	12.0	11.6	11.7	13.6	16.4	19.9	23.5	25.7	26.9	27.2	28.1	28.5	29.2	29.4	29.1	28.8	27.6	26.0	24.1	23.1	22.2	20.7	24	29.4	11.6	22.1
6/11/07	19.4	17.5	16.5	16.1	15.6	15.8	18.0	20.9	22.6	23.9	26.8	28.2	27.7	27.9	29.1	30.1	30.1	27.6	26.4	25.7	24.3	22.8	20.8	19.9	24	30.1	15.6	23.1
6/12/07	21.0	20.5	19.8	19.1	18.4	18.8	20.6	22.4	22.7	23.7	24.4	24.7	25.4	23.7	20.3	17.6	17.9	19.8	18.6	17.8	17.5	17.4	17.3	17.3	24	25.4	17.3	20.3
6/13/07	17.3	17.3	17.4	17.4	17.2	17.2	17.3	17.5	17.2	17.6	18.2	18.8	19.7		21.5										14	21.5	17.2	18.0
6/14/07						16.7	16.8								23.2	23.4	23.2	23.6	22.8	21.8	19.4	18.4	17.6	17.5	12	23.6	16.7	20.4
6/15/07	17.8	17.6	16.7	16.1	15.3	16.0	18.1	19.8	20.4	21.3	22.6	23.2	22.7	23.7	24.1	24.7	22.2	19.5	27.5	35.4	18.3	17.9	17.0	15.4	24	35.4	15.3	20.6
6/16/07	14.9	13.7	13.5	13.9	13.6	14.2	15.0	14.8	15.1	15.6	15.6	17.3	18.3	18.8	20.2	21.6	22.6	23.2	22.5	20.7	19.2	19.1	19.5	20.3	24	23.2	13.5	17.6
6/17/07	20.4	19.9	19.9	20.0	19.6	19.8	19.6	21.5	22.9	24.0	25.2	26.2	26.9	26.6	29.0	29.2	28.8	27.6	25.4	24.2	20.2	18.2	17.1	17.1	24	29.2	17.1	22.9
6/18/07	15.9	15.3	15.2	14.6	13.9	13.5	14.1	15.4	16.4	17.4	18.5	19.8	20.8	20.8	20.4	18.8	18.5	18.6	18.4	17.1	14.6	12.3	12.1	11.9	24	20.8	11.9	16.4
6/19/07	11.7	10.1	10.7	9.9	9.0	9.7	12.6	15.6	18.0	20.1	21.2	22.1	22.9	23.4	24.1	24.3	24.5	24.5	23.8	21.2	16.6	15.3	14.9	15.1	24	24.5	9.0	17.6
6/20/07	15.0	15.3	14.7	14.4	14.3	14.9	16.9	19.2	21.3	22.7	24.5	25.2	26.2	26.9	27.4	27.6	27.9	27.1	26.4	24.8	22.2	20.9	20.2	19.6	24	27.9	14.3	21.5
6/21/07	19.9	19.4	18.4	17.1	17.0	17.1	17.3	18.0	19.1	23.4	25.6	26.7	26.4	25.2	25.2	24.7	24.8	23.8	23.6	22.5	20.1	19.1	18.3	17.7	24	26.7	17.0	21.3
6/22/07	17.1	17.5	18.7	19.2	19.1	18.7	18.3	18.7	19.3	19.3	19.6	20.0	21.4	23.6	24.9	26.0	26.3	26.2	25.5	23.8	20.8	19.2	19.0	17.9	24	26.3	17.1	20.8
6/23/07	17.8	17.4	17.3	17.6	17.4	17.7	19.5	21.6	23.3	25.1	26.0	26.9	27.5	28.0	28.3	28.4	28.0	27.4	26.1	24.2	22.5	21.2	20.5	20.3	24	28.4	17.3	22.9
6/24/07	20.0	19.7	19.6	19.0	18.8	18.8	20.1	21.9	23.7	25.3	26.9	28.2	29.1	29.8	29.8	29.8	29.5	28.7	27.4	25.2	24.3	23.9	23.4	22.6	24	29.8	18.8	24.4
6/25/07	22.1	21.5	21.5	21.6	21.2	21.1	22.2	24.0	25.5	27.0	28.9	30.5	31.5	31.6	31.5	31.2	30.9	30.2	29.0	26.8	25.6	25.1	24.6	23.8	24	31.6	21.1	26.2
6/26/07	23.5	22.9	21.8	20.6	17.4	16.3	16.1	16.1	16.7	17.9	18.7	19.5	20.5	21.5	22.0	22.6	22.7	22.4	21.6	19.9	16.6	14.3	13.6	13.3	24	23.5	13.3	19.1
6/27/07	12.1	12.0	11.2	10.2	9.9	11.0	14.4	16.9	18.8	20.2	21.3	22.3	22.8	23.1	23.2	23.1	22.6	21.5	20.3	17.9	14.9	13.3	12.0	10.6	24	23.2	9.9	16.9
6/28/07	10.1	9.4	8.8	8.4	8.0	8.0	10.3	12.3	14.1	15.6	17.1	18.5	19.9	20.9	21.6	21.9	21.9	21.5	20.7	19.1	16.3	15.6	15.5	14.9	24	21.9	8.0	15.4
6/29/07	14.5	14.0	13.9	13.6	12.9	13.0	14.8	17.0	19.2	21.2	23.3	25.0	25.8	26.1	26.3	26.5	26.3	25.6	24.4	22.1	19.3	17.9	17.9	17.0	24	26.5	12.9	19.9
6/30/07	16.4	15.7	15.1	15.0	14.7	14.3	16.2	18.9	21.1	22.8	23.9	24.8	25.7	26.1	26.5	26.6	26.5	25.8	24.4	22.2	20.9	19.8	19.1	18.2	24	26.6	14.3	20.9
																									0			

hr max	23.5	22.9	21.8	21.6	21.2	21.1	22.2	24.0	25.5	27.0	28.9	30.5	31.5	31.6	31.5	31.2	30.9	30.2	29.0	35.4	25.6	25.1	24.6	23.8
hr min	5.6	4.8	5.3	5.6	4.5	4.5	8.6	11.9	12.9	13.1	14.0	15.0	13.0	11.2	10.4	10.1	10.5	12.5	12.7	12.1	10.9	9.4	7.5	6.1
average	15.5	15.0	14.6	14.2	13.7	14.1	15.5	17.2	18.7	20.1	21.3	22.2	22.9	23.4	23.6	23.7	23.6	23.1	22.5	21.1	18.2	17.0	16.3	16.0

monthly	monthly	monthly
max hr	min hr	ave hr
35.4	4.5	18.9
6/15/07	6/8/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	698
possible hours	720
data capture	96.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	12.2	12.3	11.4	10.7	10.1	10.6	11.1	12.5	13.7	15.0	15.8	16.8	16.9	16.9	14.7	15.6	15.6	13.2	12.8	12.5	12.1	11.8	11.5	11.9	24	16.9	10.1	13.2
6/2/07	12.4	12.0	11.5	10.9	11.1	11.6	12.2	12.7	12.9	13.1	13.9	15.0	16.3	16.7	17.7	16.4	16.0	16.3	15.2	15.5	15.1	14.5	14.2	14.7	24	17.7	10.9	14.1
6/3/07	14.8	14.6	14.3	13.4	12.9	13.1	14.1	15.6	16.6	17.4	18.2	19.1	20.7	21.8	22.6	22.8	23.1	23.1	22.5	20.9	19.1	17.9	16.7	16.4	24	23.1	12.9	18.0
6/4/07	16.6	15.4	15.2	15.1	15.0	14.8	15.2	14.9	15.4	16.8	17.7	16.6	16.5	17.5	18.3	18.8	19.0	18.8	18.2	17.0	16.3	15.8	16.0	15.9	24	19.0	14.8	16.5
6/5/07	13.0	13.3	11.1	10.3	10.1	8.8	9.3	11.3	13.2	15.1	16.6	18.2	19.4	20.2	20.8	21.2	21.3	21.2	20.6	18.9	17.0	16.6	15.8	15.7	24	21.3	8.8	15.8
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														18.8	19.5	20.9	22.0	23.1	22.9	21.1	19.6	19.4	19.7	20.5	11	23.1	18.8	20.7
6/17/07	20.6	20.3	20.3	20.3	20.1	20.3	20.0	21.5	22.6	23.6	24.9	25.9	26.9	27.2	29.0	29.5	29.1	28.2	26.2	24.7	20.5	18.6	17.2	17.3	24	29.5	17.2	23.1
6/18/07	16.3	15.5	15.4	14.9	14.2	13.7	14.3	15.4	16.4	17.3	17.9	19.1	19.8	20.1	19.9	18.2	18.1	18.5	18.6	17.6	15.4	13.5	13.6	12.5	24	20.1	12.5	16.5
6/19/07	12.6	11.7	11.8	10.8	10.1	10.5	12.7	15.2	17.4	19.4	20.3	21.0	21.8	22.6	23.3	23.8	24.1	24.2	23.9	22.7	20.1	18.0	17.3	16.5	24	24.2	10.1	18.0
6/20/07	15.8	16.1	15.4	15.1	14.9	15.2	16.7	18.6	20.5	21.9	23.6	24.4	25.5	26.1	26.8	27.2	27.6	27.4	26.9	25.5	23.2	21.9	21.1	20.3	24	27.6	14.9	21.6
6/21/07	20.4	19.8	18.8	17.5	17.3	17.4	18.0	19.1	20.1	23.6	25.4	26.4	26.6	24.4	24.6	24.7	24.8	24.5	24.0	23.2	21.3	20.0	19.6	18.5	24	26.6	17.3	21.7
6/22/07	17.9	17.8	18.8	19.2	19.1	18.6	18.1	18.4	18.9	18.9	19.2	19.7	21.0	22.8	24.2	25.4	26.0	26.1	26.0	25.6	24.3	22.3	21.2	20.2	24	26.1	17.8	21.2
6/23/07	19.5	18.8	18.4	18.2	18.1	18.3	19.6	21.4	22.8	24.4	25.3	26.3	26.9	27.6	28.0	28.3	28.1	27.7	26.7	24.8	23.0	21.7	20.9	20.7	24	28.3	18.1	23.1
6/24/07	20.4	20.1	20.0	19.4	19.1	19.1	20.1	21.7	23.3	24.9	26.3	27.8	28.8	29.6	29.9	30.0	29.8	29.2	28.0	25.9	24.8	24.3	23.8	23.0	24	30.0	19.1	24.6
6/25/07	22.4	21.9	21.8	21.9	21.5	21.4	22.4	24.1	25.4	27.0	28.9	30.6	31.6	31.8	31.6	31.5	31.4	30.8	29.7	27.7	26.3	25.6	25.1	24.5	24	31.8	21.4	26.5
6/26/07	24.0	23.0	21.9	20.8	17.6	16.5	16.3	16.3	16.6	17.5	18.1	19.2	19.9	20.7	21.2	22.0	22.4	22.7	22.3	21.1	19.1	17.6	18.0	18.8	24	24.0	16.3	19.7
6/27/07	17.4	15.3	14.7	14.4	13.4	13.4	14.3	16.5	18.3	19.5	20.4	21.3	21.7	22.0	22.3	22.4	22.2	21.6	20.7	18.9	16.3	14.2	12.7	11.4	24	22.4	11.4	17.7
6/28/07	10.6	9.7	9.2	8.9	8.6	8.3	10.0	11.6	13.1	14.5	15.8	17.3	18.7	19.8	20.5	21.2	21.5	21.4	21.0	19.9	17.6	16.5	16.3	15.5	24	21.5	8.3	15.3
6/29/07	15.0	14.6	14.4	14.1	13.3	13.3	14.7	16.6	18.5	20.5	22.5	24.2	25.0	25.4	25.7	26.2	26.3	25.8	24.9	22.9	20.4	18.8	18.5	17.7	24	26.3	13.3	20.0
6/30/07	17.0	16.2	15.6	15.5	15.2	14.6	16.1	18.5	20.5	22.2	23.2	24.1	25.0	25.6	26.1	26.4	26.5	26.1	24.9	22.9	21.5	20.4	19.6	18.7	24	26.5	14.6	20.9
																									0			
hr max	24.0	23.0	21.9	21.9	21.5	21.4	22.4	24.1	25.4	27.0	28.9	30.6	31.6	31.8	31.6	31.5	31.4	30.8	29.7	27.7	26.3	25.6	25.1	24.5				
hr min	10.6	9.7	9.2	8.9	8.6	8.3	9.3	11.3	12.9	13.1	13.9	15.0	16.3	16.7	14.7	15.6	15.6	13.2	12.8	12.5	12.1	11.8	11.5	11.4				
average	16.8	16.2	15.8	15.3	14.8	14.7	15.5	16.9	18.2	19.6	20.7	21.7	22.6	22.9	23.3	23.6	23.7	23.5	22.8	21.5	19.7	18.5	17.9	17.5				

monthly max hr	monthly min hr	monthly ave hr
31.8	8.3	19.4
6/25/07	6/28/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	12.3	12.3	11.5	11.4	10.6	10.5	10.7	12.0	13.2	14.6	15.3	16.2	16.5	16.5	14.9	15.2	15.2	13.2	13.0	12.4	11.9	11.7	11.8	11.9	24	16.5	10.5	13.1
6/2/07	12.2	11.8	11.3	10.8	10.9	11.4	11.9	12.3	12.5	12.8	13.6	14.7	16.0	16.5	17.5	16.2	15.7	16.2	15.1	15.8	15.7	17.1	17.2	16.5	24	17.5	10.8	14.2
6/3/07	16.0	15.7	15.1	14.7	14.6	14.1	14.1	15.1	15.9	16.8	17.4	18.4	20.0	21.2	22.0	22.4	22.7	22.8	22.4	21.9	21.5	18.5	18.6	18.5	24	22.8	14.1	18.4
6/4/07	19.6	18.4	17.8	16.7	16.1	15.7	15.2	14.7	15.1	16.3	17.1	16.2	16.0	17.0	17.7	18.2	18.5	18.5	18.2	17.7	17.3	16.7	16.9	17.0	24	19.6	14.7	17.0
6/5/07	16.0	15.6	13.5	12.4	11.1	9.9	9.2	10.9	12.6	14.5	16.0	17.5	18.8	19.6	20.2	20.7	20.9	20.9	20.5	19.3	17.8	17.1	16.3	16.0	24	20.9	9.2	16.1
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														18.5	19.0	20.3	21.5	22.8	22.9	21.2	19.8	19.4	19.7	20.6	11	22.9	18.5	20.5
6/17/07	20.8	20.7	20.8	20.7	20.8	20.8	20.2	21.3	22.2	23.1	24.4	25.4	26.6	27.3	28.6	29.2	29.1	28.6	27.5	25.4	20.4	18.9	17.1	17.2	24	29.2	17.1	23.2
6/18/07	16.2	15.6	15.4	14.9	14.5	14.1	14.4	15.2	16.0	16.7	17.3	18.2	18.9	19.1	18.9	17.2	17.3	17.9	18.2	17.6	16.2	15.8	16.1	15.0	24	19.1	14.1	16.5
6/19/07	15.2	14.9	14.8	14.7	14.1	13.9	14.5	15.1	16.9	18.8	19.6	20.3	21.1	21.8	22.5	23.1	23.4	23.6	23.6	23.0	22.5	21.9	21.6	19.9	24	23.6	13.9	19.2
6/20/07	18.8	18.5	17.5	17.1	16.5	16.4	16.6	18.0	20.0	21.5	23.0	23.8	24.9	25.5	26.2	26.8	27.2	27.2	27.0	25.7	24.1	22.9	21.9	20.8	24	27.2	16.4	22.0
6/21/07	20.8	20.2	19.1	17.9	17.6	17.5	18.5	20.3	21.2	23.6	25.1	26.0	26.4	23.7	24.0	24.4	24.5	24.6	24.0	23.6	22.3	21.1	20.6	19.3	24	26.4	17.5	21.9
6/22/07	18.5	18.5	19.0	19.1	19.0	18.5	17.9	18.1	18.6	18.5	18.9	19.4	20.4	21.9	23.6	24.9	25.5	25.8	25.8	25.5	25.1	24.5	24.2	23.7	24	25.8	17.9	21.5
6/23/07	23.5	22.0	21.2	20.5	20.7	20.2	19.7	20.9	22.2	23.8	24.7	25.7	26.4	27.0	27.6	28.0	27.8	27.6	26.9	25.3	23.5	22.2	21.3	21.1	24	28.0	19.7	23.7
6/24/07	20.9	20.7	20.5	20.0	19.7	19.4	19.9	21.2	22.8	24.2	25.7	27.2	28.3	29.1	29.7	29.8	29.7	29.3	28.4	26.7	25.3	24.6	24.0	23.4	24	29.8	19.4	24.6
6/25/07	22.7	22.3	22.0	22.2	21.8	21.7	22.4	23.8	25.1	26.6	28.6	30.3	31.4	31.6	31.5	31.5	31.5	31.0	30.1	28.7	27.4	26.6	26.0	25.9	24	31.6	21.7	26.8
6/26/07	25.0	23.0	21.6	20.6	17.5	16.4	16.1	16.0	16.1	16.9	17.4	18.5	19.3	19.9	20.4	21.2	21.7	22.1	22.0	21.5	20.7	20.7	21.2	20.5	24	25.0	16.0	19.8
6/27/07	20.4	19.4	18.1	16.0	15.1	14.7	15.6	16.2	17.8	18.9	19.8	20.5	21.0	21.3	21.7	21.8	21.7	21.2	20.6	19.5	17.9	15.1	13.3	12.4	24	21.8	12.4	18.3
6/28/07	10.9	9.8	9.4	9.1	8.9	8.5	9.7	11.1	12.5	13.8	15.2	16.6	17.9	18.9	19.8	20.5	20.9	21.0	20.8	20.2	19.0	17.9	17.2	16.4	24	21.0	8.5	15.3
6/29/07	15.9	15.2	15.2	14.7	13.9	13.9	14.6	16.1	17.9	19.8	21.8	23.4	24.2	24.7	25.0	25.6	25.8	25.6	25.0	23.7	22.3	20.5	19.6	18.8	24	25.8	13.9	20.1
6/30/07	18.1	17.3	16.8	16.7	16.0	15.3	16.0	18.1	19.9	21.5	22.5	23.3	24.3	24.9	25.5	25.8	26.1	25.8	25.0	23.4	22.2	21.2	20.2	19.2	24	26.1	15.3	21.0
																									0			

																									monthly	monthly	monthly
hr max	25.0	23.0	22.0	22.2	21.8	21.7	22.4	23.8	25.1	26.6	28.6	30.3	31.4	31.6	31.5	31.5	31.5	31.0	30.1	28.7	27.4	26.6	26.0	25.9	max hr	min hr	ave hr
hr min	10.9	9.8	9.4	9.1	8.9	8.5	9.2	10.9	12.5	12.8	13.6	14.7	16.0	16.5	14.9	15.2	15.2	13.2	13.0	12.4	11.9	11.7	11.8	11.9	31.6	8.5	19.6
average	18.1	17.5	16.9	16.3	15.8	15.4	15.6	16.7	17.8	19.1	20.2	21.1	22.0	22.3	22.8	23.1	23.3	23.3	22.9	21.9	20.6	19.7	19.2	18.7	6/25/07	6/28/07	

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	12.2	12.3	11.7	11.6	10.9	10.4	10.3	11.4	12.7	14.0	14.8	15.6	16.0	16.0	14.7	14.7	14.7	13.4	13.2	12.2	11.5	11.5	12.0	11.7	24	16.0	10.3	12.9
6/2/07	11.8	11.4	10.9	10.8	10.9	11.2	11.5	11.8	12.1	12.4	13.2	14.2	15.5	16.3	17.0	15.8	15.4	15.8	15.1	15.8	16.1	17.8	17.7	17.0	24	17.8	10.8	14.1
6/3/07	17.1	16.4	15.8	16.1	15.9	15.0	14.7	14.7	15.4	16.3	16.9	17.8	19.5	20.6	21.4	21.9	22.2	22.3	22.1	21.9	21.7	19.3	19.2	18.8	24	22.3	14.7	18.5
6/4/07	20.0	19.1	19.0	17.4	17.7	17.0	15.4	14.4	14.8	15.7	16.6	15.7	15.5	16.5	17.2	17.7	17.9	18.0	17.8	17.5	17.2	17.0	16.9	16.8	24	20.0	14.4	17.0
6/5/07	16.1	15.4	13.7	12.6	11.8	11.0	9.3	10.5	12.1	14.0	15.4	16.9	18.2	19.1	19.7	20.1	20.3	20.4	20.2	19.3	18.7	18.0	17.2	16.6	24	20.4	9.3	16.1
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														18.0	18.5	19.7	21.0	22.4	22.5	20.8	19.8	19.2	19.6	20.7	11	22.5	18.0	20.2
6/17/07	21.0	20.8	20.9	20.9	21.1	20.9	20.0	20.9	21.6	22.5	23.8	24.9	26.1	27.0	28.1	28.7	28.7	28.5	27.8	25.5	20.0	19.5	16.9	16.9	24	28.7	16.9	23.0
6/18/07	16.0	15.5	15.5	14.7	14.8	14.7	14.6	14.8	15.6	16.3	16.8	17.7	18.5	18.7	18.4	16.6	16.8	17.4	17.8	17.3	16.3	16.1	16.0	15.7	24	18.7	14.6	16.4
6/19/07	15.5	15.2	15.3	15.4	14.4	14.2	15.2	15.5	16.5	18.3	19.0	19.7	20.5	21.2	21.8	22.5	22.9	23.1	23.1	22.9	22.6	22.5	22.2	20.9	24	23.1	14.2	19.2
6/20/07	20.4	20.0	19.1	18.4	17.3	17.1	17.2	17.6	19.4	20.9	22.4	23.3	24.4	25.0	25.7	26.3	26.8	26.7	26.5	25.4	24.6	24.3	22.8	21.5	24	26.8	17.1	22.2
6/21/07	21.7	21.6	19.3	18.1	18.0	17.4	18.7	21.3	22.6	23.9	24.6	25.6	26.0	23.2	23.5	23.9	24.0	24.2	23.7	23.2	22.4	21.6	21.1	19.6	24	26.0	17.4	22.1
6/22/07	19.0	19.1	19.2	19.1	18.7	18.2	17.6	17.9	18.4	18.2	18.4	18.9	19.8	21.7	23.1	24.4	25.0	25.3	25.4	25.1	24.7	24.5	24.2	23.8	24	25.4	17.6	21.2
6/23/07	24.0	22.9	21.9	21.8	22.0	21.3	20.3	20.5	21.7	23.3	24.2	25.2	25.9	26.6	27.1	27.5	27.4	27.2	26.6	25.3	23.8	22.7	21.6	21.2	24	27.5	20.3	23.8
6/24/07	21.2	21.1	20.8	20.2	19.9	19.6	19.6	20.7	22.3	23.7	25.2	26.7	27.8	28.7	29.3	29.4	29.3	29.0	28.3	27.0	25.7	24.6	24.0	23.5	24	29.4	19.6	24.5
6/25/07	23.0	22.6	22.1	22.1	21.9	21.8	22.3	23.3	24.6	26.1	28.1	29.8	30.9	31.1	31.1	31.2	31.3	30.7	30.0	28.8	28.0	27.3	26.5	26.4	24	31.3	21.8	26.7
6/26/07	25.3	22.6	21.2	20.2	17.0	16.1	15.8	15.5	15.6	16.3	16.9	18.0	18.7	19.3	19.9	20.6	21.2	21.6	21.6	21.3	20.9	21.1	21.0	20.9	24	25.3	15.5	19.5
6/27/07	21.0	20.5	18.8	16.1	15.1	15.7	16.6	16.2	17.3	18.4	19.3	20.0	20.4	20.7	21.2	21.3	21.2	20.7	20.1	19.2	17.9	15.5	13.4	12.7	24	21.3	12.7	18.3
6/28/07	10.8	9.6	9.2	9.1	8.9	8.8	9.3	10.6	11.9	13.2	14.6	15.9	17.4	18.3	19.2	19.9	20.4	20.4	20.3	19.9	19.3	19.0	18.7	18.0	24	20.4	8.8	15.1
6/29/07	17.8	17.0	16.9	16.3	15.7	16.1	15.2	15.7	17.4	19.2	21.2	22.8	23.6	24.1	24.5	25.0	25.3	25.1	24.6	23.7	23.0	22.2	21.1	20.1	24	25.3	15.2	20.6
6/30/07	19.6	19.0	19.0	18.3	17.4	17.0	16.6	17.7	19.4	20.9	22.0	22.8	23.8	24.3	24.9	25.3	25.6	25.4	24.7	23.5	22.7	21.8	20.6	19.7	24	25.6	16.6	21.3
																									0			
hr max	25.3	22.9	22.1	22.1	22.0	21.8	22.3	23.3	24.6	26.1	28.1	29.8	30.9	31.1	31.1	31.2	31.3	30.7	30.0	28.8	28.0	27.3	26.5	26.4	monthly	monthly	monthly	
hr min	10.8	9.6	9.2	9.1	8.9	8.8	9.3	10.5	11.9	12.4	13.2	14.2	15.5	16.0	14.7	14.7	14.7	13.4	13.2	12.2	11.5	11.5	12.0	11.7	max hr	min hr	ave hr	
average	18.6	18.0	17.4	16.8	16.3	16.0	15.8	16.4	17.4	18.6	19.7	20.6	21.5	21.8	22.3	22.6	22.9	22.9	22.6	21.8	20.8	20.3	19.6	19.1	31.3	8.8	19.6	
																									6/25/07	6/28/07		

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0.21	0.20	0.28	0.47	0.41	-0.05	-0.16	-0.61	-0.42	-0.42	-0.54	-0.72	-0.26	-0.34	0.17	-0.16	-0.16	0.13	0.15	0.06	0.04	0.12	0.30	0.05	24	0.47	-0.72	-0.05
6/2/07	0.01	0.05	0.05	0.10	-0.01	-0.03	-0.07	-0.14	-0.06	-0.05	-0.13	-0.06	-0.13	-0.07	-0.02	0.08	-0.15	0.26	-0.01	0.27	0.48	0.91	0.63	0.37	24	0.91	-0.15	0.10
6/3/07	0.27	0.31	0.39	0.54	0.63	0.49	-0.06	-0.48	-0.68	-0.66	-0.86	-0.89	-0.85	-0.73	-0.66	-0.27	-0.27	0.08	0.46	0.91	1.43	1.30	1.47	0.83	24	1.47	-0.89	0.11
6/4/07	1.80	1.09	0.91	0.45	0.58	0.53	0.15	0.11	-0.28	-0.63	-0.85	-0.15	-0.60	-0.76	-0.62	-0.55	-0.50	-0.07	0.37	1.41	1.87	3.59	4.86	5.05	24	5.05	-0.85	0.74
6/5/07	2.60	3.03	2.40	1.88	2.11	1.25	-0.06	-0.51	-0.84	-0.98	-1.02	-1.13	-1.02	-0.94	-0.74	-0.52	-0.25	-0.04	0.26	0.55	0.59	0.40	0.35	0.23	24	3.03	-1.13	0.32
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														-0.05	-0.63	-0.75	-0.60	-0.10	0.41	0.37	0.39	0.23	0.18	0.21	11	0.41	-0.75	-0.03
6/17/07	0.21	0.44	0.42	0.35	0.44	0.45	0.36	0.00	-0.26	-0.35	-0.30	-0.29	0.00	0.53	-0.04	0.23	0.31	0.60	0.76	0.52	0.25	0.47	0.13	0.22	24	0.76	-0.35	0.23
6/18/07	0.41	0.27	0.24	0.23	0.30	0.22	0.17	0.00	-0.01	-0.12	-0.58	-0.77	-0.91	-0.66	-0.54	-0.54	-0.34	-0.09	0.22	0.50	0.83	1.20	1.51	0.63	24	1.51	-0.91	0.09
6/19/07	0.87	1.55	1.08	0.93	1.10	0.80	0.08	-0.35	-0.57	-0.75	-0.90	-1.02	-1.08	-0.76	-0.79	-0.56	-0.46	-0.26	0.17	1.52	3.51	2.76	2.36	1.36	24	3.51	-1.08	0.44
6/20/07	0.85	0.81	0.74	0.67	0.63	0.34	-0.23	-0.62	-0.82	-0.73	-0.87	-0.79	-0.75	-0.72	-0.63	-0.37	-0.28	0.22	0.59	0.78	1.02	1.07	0.86	0.64	24	1.07	-0.87	0.10
6/21/07	0.51	0.39	0.46	0.44	0.33	0.31	0.68	1.04	0.95	0.16	-0.18	-0.27	0.19	-0.77	-0.58	0.02	0.02	0.71	0.38	0.68	1.15	0.83	1.33	0.88	24	1.33	-0.77	0.40
6/22/07	0.84	0.26	0.05	-0.02	-0.04	-0.11	-0.23	-0.32	-0.38	-0.46	-0.42	-0.33	-0.36	-0.79	-0.72	-0.57	-0.37	-0.07	0.49	1.73	3.53	3.03	2.19	2.26	24	3.53	-0.79	0.38
6/23/07	1.65	1.39	1.06	0.64	0.76	0.59	0.09	-0.25	-0.49	-0.62	-0.67	-0.60	-0.58	-0.43	-0.34	-0.09	0.09	0.29	0.53	0.53	0.52	0.46	0.41	0.41	24	1.65	-0.67	0.22
6/24/07	0.42	0.44	0.42	0.40	0.38	0.28	-0.03	-0.25	-0.37	-0.50	-0.54	-0.46	-0.35	-0.17	0.09	0.16	0.31	0.49	0.61	0.65	0.52	0.41	0.36	0.38	24	0.65	-0.54	0.15
6/25/07	0.34	0.37	0.30	0.34	0.34	0.33	0.21	0.05	-0.09	-0.08	0.01	0.14	0.13	0.15	0.12	0.33	0.49	0.57	0.71	0.85	0.69	0.55	0.55	0.66	24	0.85	-0.09	0.34
6/26/07	0.58	0.16	0.10	0.20	0.21	0.26	0.24	0.16	-0.09	-0.38	-0.57	-0.36	-0.54	-0.84	-0.78	-0.54	-0.22	0.22	0.66	1.21	2.47	3.38	4.44	5.48	24	5.48	-0.84	0.64
6/27/07	5.28	3.29	3.50	4.21	3.52	2.33	-0.06	-0.48	-0.49	-0.70	-0.86	-0.99	-1.09	-1.07	-0.89	-0.69	-0.39	0.06	0.46	1.03	1.45	0.83	0.68	0.76	24	5.28	-1.09	0.82
6/28/07	0.44	0.33	0.39	0.45	0.53	0.24	-0.27	-0.66	-0.95	-1.15	-1.28	-1.27	-1.28	-1.14	-1.11	-0.76	-0.48	-0.10	0.29	0.78	1.22	0.90	0.82	0.60	24	1.22	-1.28	-0.14
6/29/07	0.54	0.55	0.47	0.41	0.37	0.20	-0.11	-0.41	-0.67	-0.77	-0.81	-0.83	-0.82	-0.68	-0.62	-0.32	-0.03	0.21	0.46	0.75	1.09	0.87	0.66	0.65	24	1.09	-0.83	0.05
6/30/07	0.58	0.53	0.50	0.54	0.51	0.30	-0.08	-0.31	-0.58	-0.61	-0.70	-0.69	-0.63	-0.50	-0.37	-0.20	0.00	0.24	0.48	0.63	0.62	0.60	0.51	0.47	24	0.63	-0.70	0.08
																									0			

																									monthly	monthly	monthly
hr max	5.28	3.29	3.50	4.21	3.52	2.33	0.68	1.04	0.95	0.16	0.01	0.14	0.19	0.53	0.17	0.33	0.49	0.71	0.76	1.73	3.53	3.59	4.86	5.48	max hr	min hr	ave hr
hr min	0.01	0.05	0.05	-0.02	-0.04	-0.11	-0.27	-0.66	-0.95	-1.15	-1.28	-1.27	-1.28	-1.14	-1.11	-0.76	-0.60	-0.26	-0.01	0.06	0.04	0.12	0.13	0.05	5.48	-1.28	0.26
average	0.97	0.81	0.72	0.70	0.69	0.46	0.03	-0.21	-0.37	-0.52	-0.64	-0.60	-0.58	-0.54	-0.49	-0.30	-0.16	0.17	0.42	0.79	1.18	1.20	1.23	1.11	6/26/07	6/28/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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				
6/1/07	0.07	0.06	0.16	0.63	0.51	-0.09	-0.33	-0.46	-0.44	-0.42	-0.46	-0.59	-0.40	-0.40	0.18	-0.34	-0.34	0.03	0.18	-0.14	-0.20	-0.11	0.27	-0.04	24	0.63	-0.59	-0.11
6/2/07	-0.22	-0.17	-0.22	-0.10	-0.17	-0.19	-0.26	-0.36	-0.33	-0.31	-0.31	-0.31	-0.30	-0.17	-0.28	-0.19	-0.31	-0.11	-0.11	0.21	0.65	2.58	2.99	1.82	24	2.99	-0.36	0.16
6/3/07	1.23	1.07	0.83	1.29	1.65	0.98	0.00	-0.48	-0.64	-0.63	-0.74	-0.69	-0.71	-0.67	-0.62	-0.44	-0.43	-0.32	-0.04	0.95	2.43	0.67	1.91	2.02	24	2.43	-0.74	0.36
6/4/07	2.95	2.97	2.61	1.63	1.04	0.81	0.03	-0.12	-0.32	-0.52	-0.59	-0.40	-0.50	-0.53	-0.57	-0.56	-0.56	-0.30	-0.02	0.69	1.00	0.91	0.89	1.04	24	2.97	-0.59	0.48
6/5/07	3.03	2.30	2.35	2.10	1.01	1.09	-0.05	-0.46	-0.63	-0.63	-0.66	-0.67	-0.65	-0.63	-0.58	-0.51	-0.44	-0.34	-0.09	0.45	0.78	0.55	0.48	0.28	24	3.03	-0.67	0.34
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														-0.30	-0.55	-0.60	-0.53	-0.31	0.04	0.08	0.22	0.04	0.00	0.10	11	0.22	-0.60	-0.16
6/17/07	0.20	0.43	0.47	0.33	0.73	0.55	0.18	-0.20	-0.45	-0.56	-0.51	-0.51	-0.33	0.08	-0.38	-0.26	0.01	0.46	1.32	0.67	-0.13	0.29	-0.10	-0.12	24	1.32	-0.56	0.09
6/18/07	-0.03	0.07	0.03	0.00	0.30	0.38	0.11	-0.26	-0.41	-0.57	-0.68	-0.84	-0.91	-1.05	-0.95	-1.00	-0.82	-0.65	-0.41	-0.07	0.78	2.31	2.52	2.54	24	2.54	-1.05	0.02
6/19/07	2.63	3.21	3.05	3.83	4.03	3.42	1.80	-0.15	-0.50	-0.58	-0.71	-0.73	-0.71	-0.84	-0.79	-0.72	-0.62	-0.59	-0.38	0.37	2.46	3.88	4.33	3.45	24	4.33	-0.84	1.21
6/20/07	3.02	2.46	2.05	1.99	1.58	1.20	-0.08	-0.57	-0.53	-0.49	-0.65	-0.60	-0.56	-0.61	-0.57	-0.47	-0.42	-0.15	0.06	0.20	0.87	0.96	0.76	0.54	24	3.02	-0.65	0.42
6/21/07	0.42	0.37	0.26	0.32	0.34	0.12	0.51	1.23	1.15	0.06	-0.33	-0.38	-0.17	-0.69	-0.59	-0.32	-0.30	0.10	0.04	0.39	1.03	1.10	0.96	0.71	24	1.23	-0.69	0.26
6/22/07	0.58	0.70	0.25	-0.11	-0.12	-0.14	-0.20	-0.23	-0.25	-0.38	-0.32	-0.27	-0.67	-0.85	-0.57	-0.53	-0.46	-0.36	-0.22	-0.02	0.72	2.26	3.04	3.51	24	3.51	-0.85	0.22
6/23/07	4.04	3.18	2.81	2.33	2.57	1.87	0.08	-0.46	-0.60	-0.65	-0.62	-0.60	-0.56	-0.54	-0.40	-0.34	-0.24	-0.09	0.25	0.49	0.50	0.49	0.43	0.38	24	4.04	-0.65	0.60
6/24/07	0.49	0.59	0.53	0.54	0.51	0.33	-0.24	-0.48	-0.55	-0.61	-0.63	-0.59	-0.52	-0.46	-0.21	-0.16	-0.06	0.14	0.41	0.79	0.57	0.31	0.25	0.33	24	0.79	-0.63	0.05
6/25/07	0.36	0.47	0.21	0.25	0.30	0.27	0.03	-0.31	-0.33	-0.35	-0.35	-0.26	-0.22	-0.20	-0.11	-0.01	0.14	0.22	0.43	1.01	1.13	0.98	0.90	1.48	24	1.48	-0.35	0.25
6/26/07	0.95	-0.06	-0.23	-0.17	-0.18	-0.11	-0.15	-0.28	-0.46	-0.62	-0.69	-0.62	-0.68	-0.81	-0.80	-0.79	-0.73	-0.58	-0.29	0.34	1.64	3.03	3.17	1.73	24	3.17	-0.81	0.11
6/27/07	3.02	4.09	3.40	1.63	1.72	1.32	1.25	-0.28	-0.48	-0.52	-0.63	-0.77	-0.73	-0.76	-0.63	-0.56	-0.48	-0.35	-0.12	0.58	1.62	0.96	0.64	1.08	24	4.09	-0.77	0.63
6/28/07	0.31	0.10	0.21	0.24	0.31	0.24	-0.32	-0.51	-0.59	-0.63	-0.67	-0.72	-0.74	-0.81	-0.72	-0.68	-0.56	-0.46	-0.23	0.28	1.47	1.36	0.92	0.83	24	1.47	-0.81	-0.06
6/29/07	0.83	0.66	0.75	0.66	0.66	0.66	-0.13	-0.49	-0.63	-0.70	-0.72	-0.78	-0.80	-0.77	-0.67	-0.58	-0.44	-0.26	0.06	0.79	1.93	1.68	1.10	1.10	24	1.93	-0.80	0.16
6/30/07	1.09	1.08	1.14	1.12	0.85	0.65	-0.07	-0.45	-0.61	-0.72	-0.72	-0.75	-0.77	-0.76	-0.62	-0.54	-0.42	-0.23	0.11	0.58	0.73	0.76	0.55	0.54	24	1.14	-0.77	0.11
																									0			

																									monthly max hr	monthly min hr	monthly ave hr
hr max	4.04	4.09	3.40	3.83	4.03	3.42	1.80	1.23	1.15	0.06	-0.31	-0.26	-0.17	0.08	0.18	-0.01	0.14	0.46	1.32	1.01	2.46	3.88	4.33	3.51	4.33	-1.05	0.27
hr min	-0.22	-0.17	-0.23	-0.17	-0.18	-0.19	-0.33	-0.57	-0.64	-0.72	-0.74	-0.84	-0.91	-1.05	-0.95	-1.00	-0.82	-0.65	-0.41	-0.14	-0.20	-0.11	-0.10	-0.12	6/19/07	6/18/07	
average	1.31	1.24	1.09	0.97	0.93	0.70	0.11	-0.28	-0.40	-0.52	-0.58	-0.58	-0.58	-0.59	-0.52	-0.48	-0.40	-0.21	0.05	0.43	1.01	1.25	1.30	1.17			

Validated by:	Roger L Thompson	Date:	8/2/07
Analyst:	Denise Hazelman	Date:	8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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	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
6/1/07	-0.07	-0.06	0.13	0.22	0.27	-0.14	-0.39	-0.55	-0.52	-0.52	-0.54	-0.53	-0.49	-0.47	-0.19	-0.47	-0.47	0.17	0.15	-0.19	-0.33	-0.25	0.20	-0.18	24	0.27	-0.55	-0.22
6/2/07	-0.44	-0.40	-0.40	-0.06	-0.08	-0.19	-0.43	-0.53	-0.43	-0.36	-0.39	-0.48	-0.42	-0.23	-0.46	-0.39	-0.29	-0.31	-0.01	0.08	0.33	0.70	0.45	0.49	24	0.70	-0.53	-0.18
6/3/07	1.13	0.74	0.76	1.40	1.30	0.91	0.52	-0.39	-0.54	-0.54	-0.56	-0.55	-0.56	-0.56	-0.56	-0.51	-0.51	-0.48	-0.32	0.00	0.12	0.71	0.58	0.39	24	1.40	-0.56	0.10
6/4/07	0.42	0.67	1.21	0.77	1.60	1.30	0.13	-0.34	-0.36	-0.54	-0.53	-0.51	-0.52	-0.50	-0.53	-0.53	-0.54	-0.48	-0.38	-0.19	-0.01	0.31	0.05	-0.17	24	1.60	-0.54	0.01
6/5/07	0.09	-0.27	0.19	0.27	0.70	1.10	0.05	-0.43	-0.49	-0.49	-0.55	-0.59	-0.56	-0.46	-0.48	-0.51	-0.51	-0.47	-0.33	-0.02	0.93	0.89	0.90	0.57	24	1.10	-0.59	-0.02
6/6/07																									0			
6/7/07																									0			
6/8/07																									0			
6/9/07																									0			
6/10/07																									0			
6/11/07																									0			
6/12/07																									0			
6/13/07																									0			
6/14/07																									0			
6/15/07																									0			
6/16/07														-0.45	-0.54	-0.54	-0.48	-0.41	-0.43	-0.32	-0.04	-0.16	-0.06	0.07	11	0.07	-0.54	-0.31
6/17/07	0.21	0.05	0.15	0.24	0.32	0.07	-0.18	-0.38	-0.53	-0.54	-0.56	-0.57	-0.51	-0.30	-0.50	-0.51	-0.39	-0.17	0.37	0.11	-0.32	0.55	-0.22	-0.30	24	0.55	-0.57	-0.16
6/18/07	-0.28	-0.06	0.02	-0.21	0.24	0.62	0.15	-0.36	-0.40	-0.35	-0.41	-0.47	-0.40	-0.42	-0.51	-0.59	-0.52	-0.48	-0.37	-0.24	0.17	0.23	-0.13	0.68	24	0.68	-0.59	-0.17
6/19/07	0.27	0.27	0.46	0.70	0.24	0.38	0.72	0.42	-0.45	-0.56	-0.59	-0.62	-0.56	-0.61	-0.67	-0.59	-0.58	-0.55	-0.50	-0.17	0.07	0.56	0.57	0.99	24	0.99	-0.67	-0.03
6/20/07	1.57	1.46	1.63	1.33	0.86	0.72	0.59	-0.45	-0.52	-0.54	-0.56	-0.50	-0.53	-0.53	-0.52	-0.48	-0.47	-0.46	-0.46	-0.32	0.57	1.37	0.98	0.66	24	1.63	-0.56	0.23
6/21/07	0.95	1.37	0.16	0.29	0.32	-0.10	0.26	0.99	1.39	0.22	-0.43	-0.45	-0.40	-0.49	-0.53	-0.48	-0.45	-0.39	-0.35	-0.32	0.13	0.56	0.52	0.36	24	1.39	-0.53	0.13
6/22/07	0.47	0.59	0.15	-0.04	-0.25	-0.24	-0.23	-0.25	-0.25	-0.31	-0.47	-0.59	-0.59	-0.29	-0.52	-0.49	-0.50	-0.46	-0.45	-0.41	-0.31	-0.07	-0.05	0.06	24	0.59	-0.59	-0.23
6/23/07	0.47	0.97	0.69	1.23	1.34	1.17	0.64	-0.43	-0.54	-0.54	-0.52	-0.51	-0.47	-0.47	-0.50	-0.49	-0.45	-0.41	-0.28	0.03	0.28	0.46	0.33	0.11	24	1.34	-0.54	0.09
6/24/07	0.24	0.42	0.26	0.25	0.23	0.16	-0.23	-0.48	-0.52	-0.53	-0.51	-0.49	-0.47	-0.43	-0.45	-0.43	-0.39	-0.33	-0.12	0.32	0.32	0.06	0.05	0.14	24	0.42	-0.53	-0.12
6/25/07	0.27	0.32	0.07	-0.01	0.11	0.13	-0.10	-0.46	-0.44	-0.47	-0.52	-0.52	-0.49	-0.42	-0.40	-0.28	-0.23	-0.26	-0.16	0.13	0.60	0.66	0.44	0.44	24	0.66	-0.52	-0.07
6/26/07	0.28	-0.37	-0.41	-0.40	-0.44	-0.26	-0.35	-0.46	-0.54	-0.57	-0.56	-0.54	-0.59	-0.58	-0.55	-0.60	-0.56	-0.52	-0.46	-0.16	0.22	0.39	-0.13	0.38	24	0.39	-0.60	-0.32
6/27/07	0.65	1.10	0.66	0.04	-0.05	0.98	1.02	0.01	-0.53	-0.55	-0.55	-0.57	-0.54	-0.55	-0.53	-0.50	-0.52	-0.51	-0.46	-0.28	-0.04	0.34	0.06	0.27	24	1.10	-0.57	-0.04
6/28/07	-0.06	-0.19	-0.18	-0.04	0.07	0.27	-0.38	-0.56	-0.62	-0.60	-0.58	-0.63	-0.57	-0.59	-0.57	-0.57	-0.53	-0.51	-0.47	-0.34	0.32	1.10	1.49	1.61	24	1.61	-0.63	-0.13
6/29/07	1.97	1.76	1.70	1.60	1.80	2.19	0.85	-0.36	-0.52	-0.53	-0.52	-0.56	-0.51	-0.53	-0.53	-0.53	-0.50	-0.47	-0.34	0.01	0.71	1.73	1.46	1.33	24	2.19	-0.56	0.46
6/30/07	1.46	1.74	2.23	1.60	1.33	1.70	0.54	-0.39	-0.52	-0.54	-0.55	-0.54	-0.51	-0.55	-0.55	-0.53	-0.50	-0.44	-0.30	0.03	0.44	0.62	0.41	0.45	24	2.23	-0.55	0.28
																									0			
hr max	1.97	1.76	2.23	1.60	1.80	2.19	1.02	0.99	1.39	0.22	-0.39	-0.45	-0.40	-0.23	-0.19	-0.28	-0.23	0.17	0.37	0.32	0.93	1.73	1.49	1.61				
hr min	-0.44	-0.40	-0.41	-0.40	-0.44	-0.26	-0.43	-0.56	-0.62	-0.60	-0.59	-0.63	-0.59	-0.61	-0.67	-0.60	-0.58	-0.55	-0.50	-0.41	-0.33	-0.25	-0.22	-0.30				
average	0.51	0.53	0.50	0.48	0.52	0.57	0.16	-0.28	-0.39	-0.47	-0.52	-0.54	-0.51	-0.47	-0.50	-0.50	-0.47	-0.40	-0.28	-0.11	0.21	0.54	0.40	0.42				

monthly max hr	monthly min hr	monthly ave hr
2.23	-0.67	-0.03
6/30/07	6/19/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	467
possible hours	720
data capture	64.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/2/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/3/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/4/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/5/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/6/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/7/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/8/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/9/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/10/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/11/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/12/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1										14	0.1	0.1	0.1
6/14/07						0.1	0.1								0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		11	0.1	0.1	0.1
6/15/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/16/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/17/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/18/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/19/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/20/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/21/07	0.1	0.1	0.1	0.1	0.1	0.1	2.2	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	0.1		23	2.2	0.1	0.2
6/22/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/23/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/24/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/25/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/26/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/27/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/28/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/29/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
6/30/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	2.2	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	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	0.1	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	0.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
2.2	0.1	0.1
6/21/07	6/1/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	660
possible hours	720
data capture	91.7%

Max 3 hr ave.	0.8	6/21/07 5:00
Max 24 hr ave.	0.2	6/20/07 8:00

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	1.9	2.1	2.2	2.5	2.6	2.7	2.8	2.6	2.2	1.9	1.8	2.0	2.1	2.5	2.7	2.7	2.7	3.2	2.8	2.4	2.0	2.3	2.2		23	3.2	1.8	2.4
6/2/07	2.1	2.1	1.9	2.2	2.2	2.2	2.3	2.3	2.2	2.4	2.5	2.6	2.0	1.8	1.8	2.0	1.9	2.1	2.1	2.1	2.0	1.8	1.7		23	2.6	1.7	2.1
6/3/07	1.6	1.7	2.1	2.3	2.5	2.6	2.9	2.7	2.6	2.3	2.4	2.7	2.5	2.2	1.6	1.1	1.2	1.3	2.0	4.1	4.9	3.9	4.3		23	4.9	1.1	2.5
6/4/07	4.0	3.5	2.9	2.6	2.3	2.2	2.2	2.3	2.4	2.1	1.9	2.6	2.6	2.4	3.1	2.6	2.5	2.3	2.5	2.9	4.5	3.2	2.7		23	4.5	1.9	2.7
6/5/07	2.5			3.5	2.7	2.4	2.2	2.2	1.9	1.6	1.8	2.4	2.3	2.2	2.2	2.0	1.2	1.3	1.2	1.7	2.1	2.2	2.5		21	3.5	1.2	2.1
6/6/07	2.6	2.4	2.2	2.2	2.3	2.5	2.2	2.6	2.4	2.6	2.3	2.2	2.0	1.9	2.2	2.0	2.0	2.0	2.4	3.1	3.3	3.7	3.6		23	3.7	1.9	2.5
6/7/07	3.7	3.0	2.8	3.1	3.4	3.6	3.6	3.7	2.9	2.7	2.4	2.3	2.0	1.8	1.8	1.8	1.9	2.0	2.2	2.0	1.9	2.2	1.9		23	3.7	1.8	2.6
6/8/07	2.3	2.2	2.1	1.9	1.9	2.0	2.0	2.1	1.8	1.8	1.7	2.2	3.0	2.1	1.5	1.4	1.5	1.5	1.7	1.8	2.5	2.8	2.8		23	3.0	1.4	2.0
6/9/07	1.9	1.8	1.8	1.8	2.2	2.3	2.3	2.5	2.1	1.6	1.5	1.3	1.2	1.3	1.3	1.3	1.3	1.5	2.0	2.1	3.9	3.2	3.4		23	3.9	1.2	2.0
6/10/07	3.1	3.0	2.5	1.9	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.9	1.7	1.8	1.7	1.7	1.8	1.8	2.1	2.3	2.5	2.4		23	3.1	1.7	2.0
6/11/07	2.5	3.2	3.7	3.6	2.5	2.4	2.4	2.2	2.1	2.2	1.9	1.8	1.8	1.8	1.8	1.7	1.6	1.7	2.1	2.3	2.3	2.5	2.7		23	3.7	1.6	2.3
6/12/07	2.2			2.3	2.4	2.2	2.2	2.0	2.2	1.9	1.8	1.7	1.7	1.5	1.9	1.9	1.7	1.9	2.3	2.0	1.7	2.1	2.1		21	2.4	1.5	2.0
6/13/07	1.7	1.7	1.7	1.6	1.8	2.1	1.9	1.4	1.6	1.7	1.5	1.4	1.3		1.3										14	2.1	1.3	1.6
6/14/07						1.8	1.7								1.2	1.2	1.3	1.2	1.2	1.3	1.6	1.8	1.8		11	1.8	1.2	1.5
6/15/07	1.9	1.8	1.8	2.0	2.3	2.3	2.0	1.9	1.7	1.7	1.5	1.3	1.4	1.5	1.4	1.4	1.3	1.4	1.4	1.7	1.7	1.7	1.8		23	2.3	1.3	1.7
6/16/07	1.9	2.3	2.6	2.5	2.7	2.7	2.4	2.1	1.9	1.9	2.1	1.8	1.7		1.6	1.3	1.3	1.3	1.4	1.5	1.4	1.6	1.7		22	2.7	1.3	1.9
6/17/07	1.8	1.8	1.7	1.7	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.5	1.3	1.4	1.4	1.4	1.3	1.5	1.7	2.1	1.8	2.0	1.8		23	2.1	1.3	1.7
6/18/07	1.5	1.5	1.4	1.7	1.8	1.8	1.6	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.1	1.4	1.9	2.3	2.2		23	2.3	1.1	1.5
6/19/07	1.8			1.9	2.3	2.2	1.9	1.7	1.7	1.4	1.5	1.4	1.3	1.3	1.3	1.2	1.2	1.4	1.3	1.8	2.7	3.4	3.7		21	3.7	1.2	1.8
6/20/07	2.8	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.2	1.9	1.7	1.8	1.7	1.7	1.4	1.5	1.4	1.6	2.3	3.0	3.6	3.4		23	3.6	1.4	2.2
6/21/07	2.5	2.8	2.6	2.6	2.7	2.2	2.3	2.1	1.9	1.9	1.9	2.0	2.4	2.2	1.8	1.8	1.9	1.8	2.2	2.3	2.9	3.2	3.5		23	3.5	1.8	2.3
6/22/07	2.9	2.7	2.4	2.3	2.1	2.0	2.2	2.1	2.2	2.3	2.1	2.2	1.9	1.8	1.7	1.4	1.4	1.4	1.8	1.7	2.7	3.5	2.7		23	3.5	1.4	2.2
6/23/07	2.4	2.6	2.6	2.8	2.3	2.4	2.2	1.9	1.8	1.6	1.4	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.6	1.7	1.9	2.3	2.1		23	2.8	1.2	1.9
6/24/07	1.8	1.8	2.1	2.2	2.1	2.2	2.2	2.1	1.9	1.8	1.8	1.7	1.8	1.7	1.6	1.6	1.6	1.4	1.7	1.8	1.8	1.9	2.2		23	2.2	1.4	1.9
6/25/07	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.4	2.3	2.0	1.9	1.8	1.7	1.8	1.8	1.9	1.8	1.8	2.0	2.3	2.3	2.2	2.2		23	2.5	1.7	2.1
6/26/07	2.4			2.7	2.3	2.8	2.7	2.0	1.7	1.3	1.3	1.3	1.2	1.5	1.3	1.4	1.2	1.2	1.3	1.7	2.1	2.8	2.2		21	2.8	1.2	1.8
6/27/07	1.8	2.2	2.3	2.3	2.5	2.7	3.0	1.9	1.5	1.5	1.7	1.3	1.5	1.9	1.7	1.8	1.7	1.7	1.8	1.7	2.2	2.0	1.8		23	3.0	1.3	1.9
6/28/07	1.7	1.8	1.8	1.8	1.8	2.0	1.7	1.6	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.9	1.9	1.8		23	2.0	1.2	1.5
6/29/07	1.8	1.8	1.9	1.9	2.1	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.6	1.6	1.4	1.4	1.4	1.3	1.4	1.6	1.7	1.9	1.8		23	2.2	1.3	1.8
6/30/07	1.9	1.9	2.0	2.2	2.2	2.2	2.2	2.3	2.2	1.8	1.8	1.7	1.5	1.7	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.8	1.8		23	2.3	1.5	1.9
																									0			
hr max	4.0	3.5	3.7	3.6	3.4	3.6	3.6	3.7	2.9	2.7	2.5	2.7	3.0	2.5	3.1	2.7	2.7	3.2	2.8	4.1	4.9	3.9	4.3	0.0				
hr min	1.5	1.5	1.4	1.6	1.7	1.7	1.6	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.3	1.4	1.6	1.7	0.0				
average	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.1	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.8	2.0	2.4	2.5	2.5	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
4.90	1.10	2.02
6/3/07	6/3/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	660
possible hours	720
data capture	91.7%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0.6	0.7	0.7	0.7	0.7	0.9	1.1	1.3	0.9	0.8	0.8	1.1	1.3	1.6	1.5	1.5	1.5	1.6	1.3	1.0	0.7	0.7	0.7		23	1.6	0.6	1.0
6/2/07	1.0	0.9	0.9	1.0	1.0	0.9	1.1	1.0	0.7	0.6	0.7	0.8	0.6	0.6	0.8	0.9	1.0	1.1	1.1	1.1	0.9	0.5	0.6		23	1.1	0.5	0.9
6/3/07	0.6	0.7	0.6	0.7	0.7	0.8	1.2	1.1	1.2	1.3	1.6	1.9	1.8	1.6	1.1	0.6	0.7	0.6	1.0	2.4	3.0	2.7	2.6		23	3.0	0.6	1.3
6/4/07	2.5	1.8	1.4	0.9	0.6	0.7	0.6	0.6	0.8	0.9	1.1	1.6	1.8	1.7	2.2	2.0	1.9	1.7	1.8	1.9	1.8	1.5	1.1		23	2.5	0.6	1.4
6/5/07	0.8			1.1	1.0	1.1	1.1	1.2	1.0	0.7	1.0	1.6	1.5	1.4	1.4	1.4	0.6	0.7	0.6	0.6	1.0	1.1	1.1		21	1.6	0.6	1.0
6/6/07	1.2	1.1	1.0	0.8	0.6	0.9	0.7	1.2	1.1	1.1	0.9	0.8	0.7	0.6	0.8	0.6	0.6	0.6	0.7	0.7	1.5	1.6	1.7		23	1.7	0.6	0.9
6/7/07	1.7	1.2	1.1	1.2	1.4	1.7	1.7	1.8	1.3	1.0	0.7	1.1	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.1	0.9	0.7	0.7		23	1.8	0.7	1.2
6/8/07	1.1	0.9	0.7	0.7	0.7	0.8	1.0	1.2	1.2	1.1	0.8	1.2	2.2	1.2	0.8	0.7	0.6	0.7	0.9	0.6	0.6	0.7	0.6		23	2.2	0.6	0.9
6/9/07	0.6	0.6	0.7	0.7	0.7	0.7	0.7	1.0	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.6	0.7	0.6		23	1.0	0.6	0.7
6/10/07	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6		23	0.7	0.6	0.7
6/11/07	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.8	0.7	0.7	0.7	0.6		23	0.8	0.6	0.7
6/12/07	0.6			0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.7		21	0.7	0.6	0.7
6/13/07	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6		1.7										14	1.7	0.6	0.7
6/14/07						0.7	0.7								1.1	0.6	0.7	0.7	0.6	0.7	0.6	0.7	0.6		11	1.1	0.6	0.7
6/15/07	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7		23	0.8	0.6	0.7
6/16/07	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7		0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7		22	0.7	0.6	0.7
6/17/07	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.7		23	0.8	0.6	0.7
6/18/07	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.8	0.7	0.7	0.7		23	0.8	0.6	0.7
6/19/07	0.7			0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.9	0.7	0.8	0.7	0.7	0.6	0.8	0.7	0.6	0.7	0.7	0.8		21	0.9	0.6	0.7
6/20/07	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.0	0.9	0.9	0.7	0.7	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7		23	1.0	0.6	0.7
6/21/07	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.0	0.9	1.0	0.8	0.8	0.8	0.7	0.9	0.8	0.7	0.8	0.7		23	1.0	0.6	0.8
6/22/07	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.9	0.6	0.7	0.7	0.8		23	0.9	0.6	0.7
6/23/07	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7		23	0.8	0.6	0.7
6/24/07	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.8	0.7	0.7	0.6	0.7	0.8	0.8	0.8	1.0	0.9	0.7	0.8	0.7	0.7	0.7	0.6		23	1.0	0.5	0.7
6/25/07	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.8	0.9	0.9	1.0	1.0	1.1	0.9	0.7	0.7	0.7		23	1.1	0.6	0.8
6/26/07	0.7			0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.7		21	0.8	0.6	0.7
6/27/07	0.7	0.7	0.7	0.7	0.7	0.9	1.1	0.8	0.7	0.7	1.0	0.6	0.8	0.8	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.7		23	1.1	0.6	0.7
6/28/07	0.7	0.7	0.8	0.7	0.7	0.8	0.9	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7		23	1.0	0.6	0.7
6/29/07	0.7	0.7	0.8	0.7	0.6	0.7	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7		23	0.9	0.6	0.7
6/30/07	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7		23	0.8	0.6	0.7
																									0			
hr max	2.5	1.8	1.4	1.2	1.4	1.7	1.7	1.8	1.3	1.3	1.6	1.9	2.2	1.7	2.2	2.0	1.9	1.7	1.8	2.4	3.0	2.7	2.6	0.0				
hr min	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.0				
average	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
3.0	0.5	0.8
6/3/07	6/2/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	660
possible hours	720
data capture	91.7%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	1.5	1.6	1.8	1.9	2.0	2.0	1.9	1.6	1.3	1.3	1.1	1.1	1.2	1.1	1.4	1.2	1.2	1.6	1.6	1.5	1.5	1.8	1.6		23	2.0	1.1	1.5
6/2/07	1.2	1.2	1.2	1.3	1.4	1.3	1.4	1.5	1.6	1.9	2.0	1.9	1.4	1.3	1.2	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3		23	2.0	1.1	1.4
6/3/07	1.2	1.4	1.7	1.9	1.9	1.8	2.0	1.9	1.5	1.2	1.0	1.0	0.8	0.8	0.8	0.7	0.7	0.9	1.2	1.8	2.0	1.4	1.9		23	2.0	0.7	1.4
6/4/07	1.7	1.8	1.7	1.7	1.7	1.8	1.9	2.0	1.6	1.3	1.1	1.1	0.9	0.9	0.9	0.9	0.8	0.8	0.9	1.3	2.7	1.9	1.8		23	2.7	0.8	1.4
6/5/07	1.8			2.6	1.9	1.6	1.2	1.1	1.1	1.0	1.0	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	1.2	1.3	1.4	1.6		21	2.6	0.8	1.2
6/6/07	1.5	1.5	1.5	1.6	1.8	1.7	1.7	1.5	1.6	1.5	1.5	1.4	1.5	1.6	1.6	1.6	1.6	1.7	1.8	2.7	2.1	2.2	2.1		23	2.7	1.4	1.7
6/7/07	2.2	1.9	1.8	1.9	2.3	2.2	2.0	1.9	1.6	1.8	1.8	1.4	1.3	1.0	0.8	0.8	0.7	0.8	1.1	1.2	1.2	1.5	1.4		23	2.3	0.7	1.5
6/8/07	1.2	1.6	1.3	1.3	1.2	1.3	1.1	1.2	0.9	0.8	1.0	1.2	1.1	1.1	1.1	1.0	0.9	1.0	1.1	1.4	2.1	2.3	2.5		23	2.5	0.8	1.3
6/9/07	1.6	1.5	1.4	1.4	1.7	1.7	1.6	1.7	1.4	1.2	1.0	0.9	0.8	0.8	0.8	0.9	0.9	1.0	1.5	1.6	3.5	2.8	3.0		23	3.5	0.8	1.5
6/10/07	2.7	2.6	2.1	1.6	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.3	1.3	1.3	1.3	1.2	1.2	1.5	1.7	1.8	2.0	2.0		23	2.7	1.1	1.5
6/11/07	2.1	2.8	3.3	3.1	2.1	1.9	1.9	1.6	1.5	1.5	1.4	1.2	1.2	1.2	1.2	1.0	1.2	1.3	1.6	1.8	1.8	2.1	2.3		23	3.3	1.0	1.8
6/12/07	1.9			1.9	2.0	1.9	1.6	1.4	1.4	1.3	1.3	1.1	1.0	1.0	1.4	1.5	1.3	1.4	1.8	1.6	1.3	1.7	1.7		21	2.0	1.0	1.5
6/13/07	1.3	1.3	1.3	1.2	1.4	1.5	1.5	0.9	1.2	1.2	0.9	0.9	0.9		0.8										14	1.5	0.8	1.2
6/14/07						1.3	1.3								0.8	0.8	0.8	0.7	0.8	0.9	1.3	1.3	1.4		11	1.4	0.7	1.0
6/15/07	1.4	1.3	1.4	1.6	1.9	1.7	1.3	1.2	1.1	1.2	1.0	0.9	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.2		23	1.9	0.9	1.2
6/16/07	1.5	1.9	2.1	2.0	2.3	2.1	1.8	1.6	1.4	1.5	1.6	1.3	1.1		1.0	1.0	1.0	0.9	1.0	1.0	1.1	1.3	1.3		22	2.3	0.9	1.4
6/17/07	1.3	1.3	1.3	1.3	1.4	1.4	1.3	1.2	1.2	1.3	1.1	1.0	1.0	0.9	0.9	1.1	1.0	0.9	1.4	1.5	1.4	1.7	1.4		23	1.7	0.9	1.2
6/18/07	1.1	1.2	1.1	1.3	1.3	1.3	1.1	0.9	0.8	0.8	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.7	0.9	0.9	1.5	2.0	1.8		23	2.0	0.6	1.0
6/19/07	1.3			1.4	1.7	1.5	1.3	1.1	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.7	1.2	2.2	2.8	3.1		21	3.1	0.7	1.3
6/20/07	2.2	2.0	1.9	1.8	1.8	1.8	1.6	1.5	1.4	1.5	1.4	1.3	1.2	1.2	1.1	1.0	1.0	0.9	1.1	1.8	2.5	3.1	2.8		23	3.1	0.9	1.6
6/21/07	2.1	2.2	2.1	2.1	2.1	1.9	1.8	1.6	1.2	1.2	1.3	1.3	1.7	1.4	1.2	1.3	1.3	1.3	1.5	1.7	2.3	2.7	2.9		23	2.9	1.2	1.7
6/22/07	2.4	2.3	2.0	1.8	1.6	1.4	1.6	1.5	1.8	1.5	1.6	1.6	1.4	1.3	1.1	1.1	0.8	0.9	0.9	1.2	2.2	2.9	2.2		23	2.9	0.8	1.6
6/23/07	1.9	2.2	2.2	2.2	1.8	1.9	1.5	1.3	1.2	1.0	0.8	0.8	0.8	0.9	0.9	0.7	0.9	0.9	1.0	1.3	1.5	1.7	1.6		23	2.2	0.7	1.3
6/24/07	1.4	1.6	1.7	1.7	1.7	1.6	1.6	1.3	1.3	1.3	1.2	1.2	1.2	1.0	1.0	1.1	0.9	1.0	1.1	1.2	1.4	1.7	1.7		23	1.7	0.9	1.3
6/25/07	1.9	1.8	1.8	1.8	1.8	2.0	1.8	1.9	1.6	1.4	1.4	1.3	1.3	1.1	1.1	1.1	1.2	1.2	1.2	1.5	1.7	1.7	1.9		23	2.0	1.1	1.5
6/26/07	2.0			2.3	1.9	2.3	2.2	1.4	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.9	0.8	0.8	0.7	1.3	1.6	2.3	1.7		21	2.3	0.7	1.3
6/27/07	1.3	1.6	1.7	1.7	2.0	2.1	2.1	1.2	0.8	1.1	1.0	1.0	1.0	1.4	1.3	1.1	1.1	1.0	1.2	1.2	1.7	1.6	1.3		23	2.1	0.8	1.4
6/28/07	1.1	1.2	1.2	1.2	1.3	1.4	1.0	0.9	0.8	0.8	0.8	0.8	0.7	0.9	0.8	0.9	0.9	0.8	0.8	0.9	1.4	1.4	1.3		23	1.4	0.7	1.0
6/29/07	1.2	1.4	1.5	1.4	1.6	1.6	1.3	1.3	1.2	1.4	1.3	1.1	1.2	1.0	1.1	0.9	0.9	0.8	0.9	1.1	1.1	1.5	1.5		23	1.6	0.8	1.2
6/30/07	1.3	1.5	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3		23	1.7	1.0	1.3
																									0			
hr max	2.7	2.8	3.3	3.1	2.3	2.3	2.2	2.0	1.8	1.9	2.0	1.9	1.7	1.6	1.6	1.6	1.6	1.7	1.8	2.7	3.5	3.1	3.1	0.0				
hr min	1.1	1.2	1.1	1.2	1.2	1.3	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.8	0.7	0.6	0.6	0.7	0.7	0.9	1.1	1.2	1.2	0.0				
average	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.4	1.7	1.9	1.8	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
3.5	0.6	1.4
6/9/07	6/18/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	660
possible hours	720
data capture	91.7%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
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
6/1/07	32.2	31.5	27.4	25.1	20.6	19.2	19.5	21.2	22.3	25.8	26.5	27.2	27.5	29.7	32.1	29.9	29.9	29.7	28.6	30.2	30.6	31.1	29.3	
6/2/07	39.1	38.9	39.6	34.5	34.7	35.0	35.4	37.4	37.8	35.1	32.2	32.4	31.1	35.2	35.9	34.5	36.2	35.6	42.3	37.9	38.1	33.4	34.9	
6/3/07	34.3	29.1	25.2	21.1	19.5	19.8	20.6	21.9	22.7	25.7	27.5	26.5	29.0	32.0	33.0	32.4	33.5	33.0	29.5	22.7	20.8	36.6	28.4	
6/4/07	26.2	24.6	26.5	28.8	28.4	27.2	26.0	23.1	21.9	23.5	31.6	28.0	29.0	30.1	31.0	30.3	29.1	27.9	28.0	24.2	20.3	25.0	27.0	
6/5/07	19.1		31.9	13.3	18.7	17.4	18.7	22.1	24.0	26.4	28.0	30.4	34.7	38.2	39.6	39.5	38.8	37.7	36.6	32.3	30.2	31.1	30.2	
6/6/07	35.1	38.2	36.5	35.1	31.6	30.7	29.4	29.1	30.1	32.5	34.3	35.9	36.3	37.5	39.8	40.6	39.9	38.4	28.6	30.3	38.3	37.2	34.1	
6/7/07	27.2	22.0	16.4	16.8	16.6	17.8	21.3	24.5	22.5	21.5	27.0	31.1	24.5	29.5	30.4	30.0	28.5	28.6	31.1	33.4	32.1	33.0	29.8	
6/8/07	24.4	20.0	22.5	23.4	18.4	15.5	20.0	24.1	27.7	30.4	30.3	34.8	42.9	43.9	45.6	44.0	43.1	43.7	41.4	31.9	21.8	20.3	20.5	
6/9/07	21.5	19.8	20.5	19.8	17.9	21.0	21.2	22.8	28.2	36.3	41.8	46.2	46.4	45.1	44.0	42.4	42.5	42.6	38.0	32.7	21.8	21.6	21.5	
6/10/07	26.1	29.1	27.2	29.0	30.9	31.7	30.9	32.3	36.9	41.2	44.6	45.5	45.0	44.7	45.2	45.8	44.9	44.6	44.5	36.5	35.9	37.3	34.9	
6/11/07	38.7	32.6	28.5	27.7	30.4	32.8	33.5	32.6	31.3	31.3	40.2	46.9	43.0	41.3	41.8	44.8	46.2	43.3	39.6	37.8	35.9	33.2	30.0	
6/12/07	28.9		42.2	23.8	20.9	20.3	20.8	22.4	22.0	22.9	26.5	29.0	31.2	28.8	35.2	37.3	38.5	40.1	36.2	30.9	33.4	30.9	27.5	
6/13/07	27.8	26.8	25.5	21.8	17.2	12.2	21.0	27.0	33.4	33.9	38.5	37.2	39.5		43.2									
6/14/07						25.2	28.4								31.5	29.6	30.6	35.4	34.0	27.3	19.1	17.5	16.7	
6/15/07	19.2	17.4	14.8	13.2	11.9	13.4	17.4	22.2	23.6	24.5	28.1	32.8	31.6	32.6	31.3	33.7	30.7	35.1	36.8	32.3	30.2	28.6	26.6	
6/16/07	25.3	19.7	17.3	16.5	13.3	16.2	21.1	20.1	21.3	28.6	25.7	29.1	32.8	52.3	31.0	36.6	44.1	43.4	42.2	31.6	33.5	31.2	28.4	
6/17/07	25.7	27.7	35.7	35.1	33.2	34.2	33.5	35.2	35.7	37.5	38.3	38.9	39.6	37.9	39.8	43.7	40.8	35.1	31.3	32.7	28.0	39.9	35.5	
6/18/07	33.4	31.0	31.0	27.7	25.1	25.6	28.3	27.4	27.5	30.1	30.8	31.6	34.6	34.5	33.4	31.6	31.8	32.2	30.9	28.5	24.2	19.0	19.7	
6/19/07	22.5		39.4	18.8	15.1	15.5	21.2	24.6	29.1	32.6	32.5	33.9	34.7	35.8	36.1	36.8	37.5	37.7	37.2	29.3	17.6	16.6	17.2	
6/20/07	19.7	21.4	20.9	22.0	22.1	22.0	23.4	25.5	27.3	30.7	33.5	37.3	37.1	38.7	38.8	40.2	39.6	38.9	37.3	33.7	29.4	28.9	28.3	
6/21/07	27.0	23.7	21.3	19.1	18.3	22.9	37.2	38.3	37.8	35.6	35.4	35.3	32.7	30.0	35.6	35.4	36.8	31.1	30.1	27.4	22.0	21.5	22.4	
6/22/07	15.4	12.7	13.3	17.6	21.7	22.5	21.2	25.4	26.3	27.0	29.5	30.9	34.5	36.6	38.6	38.6	39.6	40.7	38.3	31.3	25.4	23.3	27.6	
6/23/07	22.2	17.6	17.4	20.2	23.3	25.7	28.1	31.2	35.4	37.8	39.0	39.9	39.2	38.2	38.1	38.1	38.8	39.7	37.7	32.9	32.7	30.5	30.7	
6/24/07	34.5	32.0	31.8	29.6	29.1	27.3	27.2	29.0	31.2	33.2	34.6	36.9	38.6	40.8	42.0	41.8	42.8	44.0	41.8	37.9	38.3	37.0	36.5	
6/25/07	34.2	33.5	32.7	33.7	31.8	30.4	29.7	31.9	33.2	36.6	40.8	45.5	48.9	47.8	46.4	47.1	47.3	44.2	40.0	37.5	35.8	34.0	32.5	
6/26/07	28.9		38.4	25.4	32.9	31.6	34.3	32.5	32.7	31.1	29.6	30.9	32.9	32.4	33.2	33.2	33.9	34.6	34.0	29.9	23.3	20.4	21.8	
6/27/07	22.2	22.0	21.1	18.6	18.5	19.3	19.8	26.7	32.0	34.1	36.0	36.6	37.1	40.5	40.9	40.0	38.2	36.7	34.8	28.6	25.3	18.6	16.3	
6/28/07	14.2	13.0	12.5	12.3	11.5	10.1	13.6	15.3	17.1	18.4	21.6	23.5	24.9	26.3	28.0	28.3	29.6	29.8	29.9	27.6	24.4	27.8	28.9	
6/29/07	25.3	24.0	23.3	22.9	21.2	20.2	21.9	24.6	27.3	29.9	34.8	38.5	39.5	40.8	40.8	40.4	40.3	39.8	38.2	34.8	33.7	31.4	33.8	
6/30/07	33.5	31.7	31.7	32.3	30.7	26.7	28.8	35.0	38.8	43.0	45.9	46.2	47.7	46.4	46.1	46.3	44.7	43.8	42.8	41.0	41.1	40.9	39.2	
hr max	39.1	38.9	42.2	35.1	34.7	35.0	37.2	38.3	38.8	43.0	45.9	46.9	48.9	52.3	46.4	47.1	47.3	44.6	44.5	41.0	41.1	40.9	39.2	0.0
hr min	14.2	12.7	12.5	12.3	11.5	10.1	13.6	15.3	17.1	18.4	21.6	23.5	24.5	26.3	28.0	28.3	28.5	27.9	28.0	22.7	17.6	16.6	16.3	0.0
average	27.0	25.6	26.6	23.6	22.9	23.0	25.1	27.1	28.9	30.9	33.3	35.1	36.1	37.4	37.6	37.7	37.9	37.5	35.9	31.9	29.1	28.9	27.9	#DIV/0!

valid hr count	daily max hr	daily min hr	daily ave hr
23	32.2	19.2	27.3
23	42.3	31.1	36.0
23	36.6	19.5	27.2
23	31.6	20.3	26.9
22	39.6	13.3	29.0
23	40.6	28.6	34.8
23	33.4	16.4	25.9
23	45.6	15.5	30.0
23	46.4	17.9	31.1
23	45.8	26.1	37.6
23	46.9	27.7	36.7
22	42.2	20.3	29.5
14	43.2	12.2	28.9
11	35.4	16.7	26.8
23	36.8	11.9	25.6
23	52.3	13.3	28.8
23	43.7	25.7	35.4
23	34.6	19.0	29.1
22	39.4	15.1	28.3
23	40.2	19.7	30.3
23	38.3	18.3	29.4
23	40.7	12.7	27.7
23	39.9	17.4	31.9
23	44.0	27.2	35.6
23	48.9	29.7	38.1
22	38.4	20.4	30.8
23	40.9	16.3	28.9
23	29.9	10.1	21.2
23	40.8	20.2	31.6
23	47.7	26.7	39.3
0			

monthly max hr	monthly min hr	monthly ave hr
52.3	10.1	30.8
6/16/07	6/28/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	665
possible hours	720
data capture	92.4%

Max 8 hr ave. 46.0 6/25/07 11:00

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	0	0	0	0	0	21	64	373	289	341	438	634	276	346	67	246	246	30	41	31	0	0	0	0	24	634	3442	3442
6/2/07	0	0	0	0	0	5	60	111	89	72	136	121	165	266	269	118	201	44	140	20	0	0	0	0	24	269	1815	1815
6/3/07	0	0	0	0	0	48	167	355	511	532	722	820	896	882	819	582	550	395	213	67	0	0	0	0	24	896	7558	7558
6/4/07	0	0	0	0	0	35	66	56	262	523	620	217	442	541	493	570	557	377	228	78	5	0	0	0	24	620	5070	5070
6/5/07	0	0	0	0	0	35	176	358	532	689	809	881	835	854	765	705	552	420	237	71	0	0	0	0	24	881	7918	7918
6/6/07	0	0	0	0	0	11	44	154	437	628	700	707	706	847	631	621	412	245	106	5	0	0	0	0	24	847	6254	6254
6/7/07	0	0	0	0	0	27	55	257	222	100	154	334	217	235	169	160	132	340	135	62	0	0	0	0	24	340	2599	2599
6/8/07	0	0	0	0	0	48	199	376	549	701	821	890	939	918	833	697	530	436	242	72	6	0	0	0	24	939	8257	8257
6/9/07	0	0	0	0	0	51	154	343	548	682	816	880	926	910	842	738	602	434	252	87	5	0	0	0	24	926	8271	8271
6/10/07	0	0	0	0	0	47	135	355	521	678	803	866	889	854	810	726	588	423	249	78	4	0	0	0	24	889	8025	8025
6/11/07	0	0	0	0	0	36	164	345	379	473	814	677	580	689	790	736	587	182	64	11	0	0	0	0	24	814	6525	6525
6/12/07	0	0	0	0	0	40	211	356	358	596	632	472	641	99	8	6	7	51	38	7	0	0	0	0	24	641	3522	3522
6/13/07	0	0	0	0	0	6	21	38	70	116	257	315	379		621										14	621	1822	1822
6/14/07						6	9								487	607	428	425	209	99	10	0	0	0	12	607	2281	2281
6/15/07	0	0	0	0	0	44	171	330	320	440	559	520	266	478	658	658	150	265	252	66	0	0	0	0	24	658	5175	5175
6/16/07	0	0	0	0	0	19	78	19	12	17	81	257	254	193	539	672	592	422	239	75	0	0	0	0	24	672	3467	3467
6/17/07	0	0	0	0	0	18	81	322	523	660	743	809	637	282	801	712	568	280	31	0	0	0	0	0	24	809	6467	6467
6/18/07	0	0	0	0	0	20	148	371	546	700	825	899	897	917	803	758	611	443	259	94	7	0	0	0	24	917	8296	8296
6/19/07	0	0	0	0	0	38	165	334	528	686	805	877	924	913	824	747	614	442	261	99	8	0	0	0	24	924	8264	8264
6/20/07	0	0	0	0	0	44	188	355	516	649	802	880	923	889	817	713	624	420	252	91	6	0	0	0	24	923	8167	8167
6/21/07	0	0	0	0	0	0	0	0	94	617	803	793	501	869	830	507	479	185	194	93	8	0	0	0	24	869	5973	5973
6/22/07	0	0	0	0	0	22	71	118	142	209	218	262	483	856	835	729	598	432	256	91	4	0	0	0	24	856	5326	5326
6/23/07	0	0	0	0	0	47	183	357	524	679	801	875	923	904	848	726	606	434	224	79	8	0	0	0	24	923	8218	8218
6/24/07	0	0	0	0	0	42	183	353	525	681	806	872	922	934	739	697	619	437	254	42	0	0	0	0	24	934	8105	8105
6/25/07	0	0	0	0	0	30	166	345	514	665	785	855	896	880	819	708	589	425	239	39	5	0	0	0	24	896	7959	7959
6/26/07	0	0	0	0	0	43	115	207	340	551	631	498	655	838	833	739	623	453	277	125	12	0	0	0	24	838	6938	6938
6/27/07	0	0	0	0	0	47	191	361	535	689	808	884	933	913	840	700	612	432	266	100	7	0	0	0	24	933	8318	8318
6/28/07	0	0	0	0	0	43	185	346	518	673	794	867	909	896	832	715	600	434	260	95	8	0	0	0	24	909	8175	8175
6/29/07	0	0	0	0	0	40	173	339	507	661	780	852	896	884	824	709	594	431	259	97	8	0	0	0	24	896	8053	8053
6/30/07	0	0	0	0	0	40	178	349	519	665	787	868	914	888	800	703	588	421	229	69	9	0	0	0	24	914	8027	8027
																									0		0	0

hr max	0	0	0	0	0	51	211	376	549	701	825	899	939	934	848	758	624	453	277	125	12	0	0	0
hr min	0	0	0	0	0	0	0	0	12	17	81	121	165	99	8	6	7	30	31	0	0	0	0	0
average	0	0	0	0	0	32	127	275	394	530	646	679	684	713	675	610	499	350	204	67	4	0	0	0

monthly	monthly	monthly
max hr	Max24hr	Total
939	8318	188287
6/8/07	6/27/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	698
possible hours	720
data capture	96.9%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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
6/1/07	701	700	700	700	700	701	701	701	701	701	701	701	701	700	700	701	701	701	701	701	701	702	702	702	24	702	700	701
6/2/07	702	702	702	702	702	702	702	703	703	703	703	703	703	703	703	704	704	704	704	704	704	704	704	704	24	704	702	703
6/3/07	704	704	704	704	704	704	704	704	704	704	705	705	705	705	705	705	705	704	704	704	704	705	705	705	24	705	704	704
6/4/07	704	704	704	704	704	704	704	705	705	705	705	706	706	706	706	706	705	705	706	706	706	706	706	706	24	706	704	705
6/5/07	706	706	706	706	706	706	705	705	705	704	704	703	703	702	701	701	700	699	698	698	697	697	696	695	24	706	695	702
6/6/07	695	693	693	693	692	691	691	691	690	689	688	687	687	686	685	685	684	684	683	684	684	684	684	684	24	695	683	688
6/7/07	684	684	684	684	684	684	684	684	685	685	686	687	688	690	692	694	696	697	699	700	701	702	703	703	24	703	684	691
6/8/07	704	704	705	705	705	706	706	706	706	706	707	707	706	706	706	706	706	705	705	705	705	705	705	705	24	707	704	706
6/9/07	705	705	704	704	704	704	704	704	705	705	705	705	705	705	705	705	705	705	704	704	704	704	704	705	24	705	704	705
6/10/07	704	704	704	704	704	704	704	704	704	703	703	702	702	702	701	701	701	700	700	700	700	700	700	700	24	704	700	702
6/11/07	700	701	701	701	701	702	702	702	702	702	702	702	702	702	702	702	702	702	703	703	703	704	705	705	24	705	700	702
6/12/07	704	705	705	705	705	706	706	706	705	706	706	706	705	705	706	706	706	706	706	706	706	706	706	706	24	706	704	706
6/13/07	706	706	706	706	706	707	707	707	707	707	708	708	708	708	707	707	707	707	708	708	708	707	707	707	24	708	706	707
6/14/07	707	707	706	706	706	706	706	705	705	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	24	707	704	705
6/15/07	704	705	705	705	705	705	705	706	706	706	706	706	706	706	706	706	706	706	706	706	707	707	708	708	24	708	704	706
6/16/07	708	707	707	708	708	708	709	708	708	709	709	708	708	708	707	707	706	706	705	705	704	705	704	704	24	709	704	707
6/17/07	703	701	699	699	699	699	698	698	698	698	697	697	696	696	696	695	695	695	694	694	697	697	697	697	24	703	694	697
6/18/07	698	698	699	699	699	700	700	700	701	701	700	700	700	700	701	701	702	702	702	703	703	704	704	705	24	705	698	701
6/19/07	705	706	706	706	707	707	708	708	709	709	709	709	709	709	709	708	708	708	708	708	708	708	708	708	24	709	705	708
6/20/07	708	708	708	708	708	708	708	708	708	708	708	708	708	708	707	707	707	707	706	707	707	707	707	707	24	708	706	707
6/21/07	707	706	706	706	706	707	708	707	706	705	705	706	707	707	707	707	707	707	707	706	706	707	707	707	24	708	705	706
6/22/07	707	706	706	706	707	707	707	707	707	707	707	707	707	707	706	706	705	705	705	705	705	705	705	705	24	707	705	706
6/23/07	705	705	705	704	704	704	705	705	704	704	704	704	704	703	703	703	703	702	702	702	702	702	701	701	24	705	701	703
6/24/07	701	701	701	701	701	702	702	701	701	702	702	702	701	701	701	701	701	701	701	701	701	702	702	702	24	702	701	701
6/25/07	702	702	701	700	700	700	700	701	701	701	700	700	700	701	701	701	700	700	700	701	701	701	702	702	24	702	700	701
6/26/07	702	703	704	706	708	708	709	710	711	711	712	712	712	712	712	712	712	712	711	711	711	712	712	712	24	712	702	710
6/27/07	712	712	712	712	712	713	713	713	713	713	713	713	713	713	713	712	712	712	712	712	712	713	713	713	24	713	712	713
6/28/07	713	713	713	713	713	714	714	714	714	713	713	713	712	712	711	711	711	710	710	711	711	711	711	710	24	714	710	712
6/29/07	710	710	710	710	710	710	710	710	710	710	710	710	710	709	709	709	709	708	708	708	708	708	708	709	24	710	708	709
6/30/07	708	708	708	708	708	708	708	708	708	708	708	708	708	707	707	707	707	707	707	707	707	707	707	707	24	708	707	707
																									0			
hr max	713	713	713	713	713	714	714	714	714	713	713	713	713	713	713	712	712	712	712	712	712	713	713	713				
hr min	684	684	684	684	684	684	684	684	685	685	686	687	687	686	685	685	684	684	683	684	684	684	684	684				
average	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704				

monthly max hr	monthly min hr	monthly ave hr
714	683	704
6/28/07	6/6/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	720
possible hours	720
data capture	*100.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
%
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
6/1/07	92.8	93.2	95.3	96.6	97.3	97.8	97.4	88.9	83.7	75.2	71.6	67.6	67.7	68.0	86.5	83.4	83.4	88.9	91.7	94.3	96.6	96.6	96.7	97.1	24	97.8	67.6	87.8
6/2/07	97.1	96.9	96.6	97.3	97.6	97.8	97.2	95.0	94.1	94.7	93.5	90.2	87.4	89.1	80.3	87.2	88.7	86.8	89.2	91.7	92.8	93.4	93.6	90.8	24	97.8	80.3	92.5
6/3/07	91.0	92.0	92.1	93.5	93.7	92.1	89.0	86.0	85.3	81.4	76.2	70.8	62.5	55.2	51.5	51.8	50.9	51.7	59.6	72.0	80.1	75.0	84.1	85.2	24	93.7	50.9	75.9
6/4/07	85.1	87.9	88.5	86.2	86.6	87.6	86.7	87.9	85.4	79.2	73.9	79.9	74.4	69.3	69.6	65.5	59.2	58.2	58.5	68.8	76.2	81.7	82.3	80.9	24	88.5	58.2	77.5
6/5/07	83.1	86.2	88.1	93.0	87.2	89.2	86.2	80.0	73.5	69.1	67.2	62.7	54.8	48.7	46.1	46.1	46.8	49.7	53.1	63.1	71.3	70.4	72.8	71.7	24	93.0	46.1	69.2
6/6/07	70.6	72.2	80.5	76.5	80.9	83.5	86.5	84.8	77.5	72.9	70.7	69.6	69.5	68.6	67.3	66.9	66.1	66.2	74.4	78.9	88.6	89.8	91.9	93.4	24	93.4	66.1	77.0
6/7/07	94.0	95.9	96.3	97.3	96.6	96.3	94.0	91.0	91.9	92.5	92.0	87.3	88.5	84.1	82.6	80.6	75.9	67.4	64.7	59.2	64.1	67.7	76.8	80.7	24	97.3	59.2	84.1
6/8/07	82.8	87.1	83.0	79.6	86.0	87.0	75.5	64.1	57.7	53.4	54.1	48.3	33.7	32.6	31.3	33.2	33.0	31.2	36.8	59.4	79.4	83.4	84.4	80.9	24	87.1	31.2	61.6
6/9/07	81.6	83.3	84.8	85.6	86.9	81.8	75.6	68.9	57.1	44.3	39.2	34.1	30.9	31.1	30.6	30.6	29.1	35.7	47.1	56.2	79.3	81.4	83.6	79.7	24	86.9	29.1	59.9
6/10/07	79.2	77.9	80.4	81.8	80.4	78.6	73.9	67.5	62.4	58.2	53.7	53.8	56.8	57.7	53.1	50.8	51.3	53.7	54.5	71.5	76.7	76.6	78.0	77.3	24	81.8	50.8	66.9
6/11/07	66.9	72.7	76.2	75.7	78.4	76.7	72.1	69.1	68.9	67.9	58.1	50.9	57.1	59.5	57.4	51.0	51.5	59.2	63.1	64.4	68.3	73.4	79.9	83.5	24	83.5	50.9	66.7
6/12/07	80.7	84.1	87.0	89.8	92.3	92.1	87.4	81.3	81.2	77.3	73.9	71.6	70.2	77.1	84.2	96.2	96.6	96.5	96.2	96.2	96.4	97.1	97.1	96.9	24	97.1	70.2	87.5
6/13/07	96.5	97.1	97.1	97.3	97.4	97.6	97.7	97.4	96.5	94.8	88.5	84.3	80.5	75.8	71.6	71.9	75.7	80.0	84.9	93.3	94.0	95.6	96.6	97.1	24	97.7	71.6	90.0
6/14/07	97.2	97.5	97.9	98.0	98.0	98.3	98.2	97.9	96.8	91.4	83.6	79.0	78.5	72.3	72.9	75.5	73.6	67.6	72.5	80.2	90.5	92.6	93.2	93.4	24	98.3	67.6	87.4
6/15/07	94.1	94.3	95.9	96.6	97.2	96.7	92.1	81.1	83.7	82.1	76.5	72.7	75.6	73.4	74.3	71.8	75.6	68.7	64.7	72.9	76.0	78.1	82.6	89.5	24	97.2	64.7	81.9
6/16/07	86.8	91.2	93.6	92.9	94.8	92.3	86.6	90.0	91.5	85.5	89.7	87.2	85.0	83.7	81.0	75.3	67.9	67.1	69.4	82.5	87.2	91.5	93.7	91.8	24	94.8	67.1	85.8
6/17/07	91.6	89.9	83.6	82.3	83.1	80.9	81.6	76.0	72.9	70.7	67.9	65.3	63.0	63.2	56.9	53.4	57.1	64.4	71.7	74.0	88.8	85.6	94.2	91.8	24	94.2	53.4	75.4
6/18/07	87.7	90.3	87.5	85.8	87.4	85.3	77.1	65.9	57.7	53.7	49.3	43.8	39.0	39.7	43.6	46.6	45.9	45.9	49.1	56.5	69.7	80.7	79.6	79.3	24	90.3	39.0	64.5
6/19/07	77.6	83.6	79.7	81.6	87.5	85.4	75.7	67.2	56.3	46.9	46.4	43.3	41.2	39.3	38.2	34.6	32.6	33.0	36.9	56.3	79.8	84.3	84.0	81.6	24	87.5	32.6	61.4
6/20/07	84.9	83.7	87.0	88.5	90.3	90.2	86.5	82.4	75.3	70.1	66.9	65.0	62.9	63.3	62.1	59.9	59.2	63.9	67.3	75.1	84.3	84.8	83.8	84.5	24	90.3	59.2	75.9
6/21/07	86.7	90.4	90.0	90.7	90.5	88.6	84.6	74.3	67.3	55.1	52.4	53.2	56.7	69.5	64.8	64.2	63.4	68.8	73.6	79.3	90.3	93.4	94.8	96.0	24	96.0	52.4	76.6
6/22/07	96.8	97.4	97.7	97.8	97.9	98.0	98.1	98.1	97.9	97.3	96.1	91.4	80.0	72.6	67.0	65.2	61.0	59.3	64.5	73.8	86.3	90.7	91.3	92.2	24	98.1	59.3	86.2
6/23/07	93.3	95.3	95.6	95.4	94.9	93.4	90.5	85.1	78.9	73.8	71.0	66.7	61.5	58.5	55.1	54.7	56.8	59.0	64.2	75.5	81.1	83.2	85.0	84.7	24	95.6	54.7	77.2
6/24/07	85.2	87.6	88.6	91.4	92.7	92.3	88.6	82.9	77.4	73.4	69.6	65.8	63.0	56.7	53.1	53.2	51.8	52.6	58.1	72.2	75.3	80.2	80.3	81.3	24	92.7	51.8	73.9
6/25/07	82.0	83.1	82.0	80.3	81.0	80.9	76.9	69.4	65.9	61.4	55.3	47.7	42.6	44.5	46.6	46.7	46.8	51.9	58.1	64.5	68.3	70.2	70.7	74.0	24	83.1	42.6	64.6
6/26/07	74.3	85.2	89.7	79.8	64.5	67.2	60.3	54.9	52.6	45.4	46.2	44.7	40.5	39.4	36.8	37.7	35.4	34.0	36.2	45.5	62.9	71.2	71.1	68.3	24	89.7	34.0	56.0
6/27/07	73.2	72.3	74.0	79.5	82.3	79.1	70.9	63.2	49.9	48.0	46.4	46.0	46.0	45.4	45.2	47.4	51.0	52.1	56.7	67.1	80.9	86.5	87.9	90.6	24	90.6	45.2	64.2
6/28/07	87.8	88.9	90.9	91.8	92.7	93.0	84.3	77.3	70.7	67.8	64.7	62.5	60.7	59.7	58.4	58.9	58.3	59.1	61.1	68.2	80.2	79.9	77.6	80.4	24	93.0	58.3	74.0
6/29/07	81.2	82.7	83.7	84.5	87.5	86.8	81.0	75.1	70.6	67.9	64.2	60.5	58.3	56.1	54.8	53.5	50.9	52.0	55.7	66.0	74.8	81.6	80.7	81.5	24	87.5	50.9	70.5
6/30/07	82.5	85.4	86.8	87.9	90.0	91.3	85.1	77.6	72.9	68.5	63.6	59.7	53.3	53.0	49.7	49.8	51.0	54.5	60.5	68.4	70.8	73.6	77.0	77.5	24	91.3	49.7	70.4
																									0			

hr max	97.2	97.5	97.9	98.0	98.0	98.3	98.2	98.1	97.9	97.3	96.1	91.4	88.5	89.1	86.5	96.2	96.6	96.5	96.2	96.2	96.6	97.1	97.1	97.1
hr min	66.9	72.2	74.0	75.7	64.5	67.2	60.3	54.9	49.9	44.3	39.2	34.1	30.9	31.1	30.6	30.6	29.1	31.2	36.2	45.5	62.9	67.7	70.7	68.3
average	85.5	87.5	88.3	88.5	89.1	88.6	84.6	79.3	75.1	70.7	67.4	64.2	61.4	60.2	59.1	58.8	58.2	59.3	63.1	71.6	80.4	83.0	84.8	85.1

monthly max hr	monthly min hr	monthly ave hr
98.3	29.1	74.7
6/14/07	6/9/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
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				
6/1/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16	0	0	0.03	0.03	0	0.01	0	0	0	24	0.16		0.23
6/2/07	0	0	0	0	0	0.08	0.02	0.01	0.01	0.02	0	0	0	0.11	0	0.02	0.02	0.15	0.09	0.01	0.01	0	0	0	24	0.15		0.55
6/3/07	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
6/4/07	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.02		0.02
6/5/07	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
6/6/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0	0	24	0.11		0.11
6/7/07	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0.01	0	0	0	0	0	0	0	0	0	0	24	0.02		0.03
6/8/07	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
6/9/07	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
6/10/07	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
6/11/07	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
6/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16	0.33	0.78	0.2	0.15	0.14	0.17	0.01	0.02	0.02	24	0.78		1.98
6/13/07	0	0.01	0.07	0.07	0.03	0.06	0.05	0.14	0.11	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.14		0.55
6/14/07	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
6/15/07	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
6/16/07	0	0	0	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.02
6/17/07	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.06	0.02	0	24	0.06		0.11
6/18/07	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
6/19/07	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
6/20/07	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
6/21/07	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.06		0.06
6/22/07	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
6/23/07	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
6/24/07	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
6/25/07	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
6/26/07	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
6/27/07	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
6/28/07	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
6/29/07	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
6/30/07	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	0.01	0.07	0.07	0.03	0.08	0.06	0.14	0.11	0.02	0.02	0.00	0.00	0.11	0.16	0.33	0.78	0.20	0.15	0.14	0.17	0.06	0.02	0.02				
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	0.01	0.07	0.07	0.03	0.14	0.13	0.18	0.13	0.03	0.03	0.00	0.00	0.12	0.32	0.35	0.80	0.38	0.27	0.26	0.21	0.07	0.04	0.02				

monthly max hr	monthly 24h max	monthly TOTAL
0.78	1.98	3.67
6/12/07	6/12/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	720
possible hours	720
data capture	100.0%

data
channel
0

Basin Electric - Gettysburg S.D. Monitoring Program
June-07
Stn Temp
(deg C)

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
6/1/07	26	26	25	25	25	25	25	25	25	26	26	26	27	27	27	27	27	27	27	27	26	26	26	26	24	27	25	26
6/2/07	26	26	26	26	25	25	25	25	25	25	25	26	26	26	25	26	26	26	27	27	26	26	26	26	24	27	25	26
6/3/07	26	26	26	26	26	26	26	26	26	27	27	28	27	27	26	24	22	21	25	27	29	29	29	29	24	29	21	26
6/4/07	29	28	28	27	27	26	26	26	26	26	26	27	28	27	28	28	27	27	27	27	28	27	27	27	24	29	26	27
6/5/07	26	26	27	26	26	25	25	26	26	25	26	27	27	27	27	26	23	23	23	23	25	26	26	27	24	27	23	26
6/6/07	27	26	26	26	26	26	25	26	26	25	25	23	24	25	25	23	22	22	21	23	26	27	27	27	24	27	21	25
6/7/07	27	26	26	26	26	26	26	26	26	26	25	26	26	26	26	26	26	26	26	26	25	25	25	25	24	27	25	26
6/8/07	25	25	25	24	24	24	25	25	25	26	26	27	28	25	23	23	22	22	22	22	21	21	20	20	24	28	20	24
6/9/07	20	20	20	20	20	20	20	20	21	21	22	22	22	22	22	22	22	22	22	22	22	22	21	21	24	22	20	21
6/10/07	21	21	21	20	20	20	20	21	21	22	22	22	22	22	23	23	23	23	23	23	22	22	22	22	24	23	20	22
6/11/07	22	22	21	21	21	21	21	21	22	22	22	22	22	22	22	23	23	23	23	22	22	22	22	22	24	23	21	22
6/12/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	24	22	21	22
6/13/07	21	21	21	21	21	21	21	21	21	21	21	21	21		22										14	22	21	21
6/14/07						21	21								24	24	24	24	24	23	23	22	22	22	12	24	21	23
6/15/07	22	21	21	21	20	20	20	21	22	22	23	23	24	24	24	25	24	24	24	23	23	22	22	22	24	25	20	22
6/16/07	21	20	20	20	20	20	20	20	20	21	22	22	22	23	22	22	22	22	22	22	22	22	22	22	24	23	20	21
6/17/07	22	22	22	21	21	21	21	22	22	22	22	21	22	22	22	22	23	23	23	22	22	22	22	22	24	23	21	22
6/18/07	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	21	21	21	21	24	22	21	21
6/19/07	20	20	20	20	20	20	20	20	20	21	21	22	22	22	22	21	22	22	22	22	22	21	21	21	24	22	20	21
6/20/07	21	21	21	21	20	21	21	21	21	22	22	21	22	23	23	23	23	23	23	23	22	22	22	22	24	23	20	22
6/21/07	22	22	22	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	24	22	21	21
6/22/07	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	23	24	24	24	23	23	22	22	24	24	21	22
6/23/07	22	22	22	21	21	21	22	22	22	23	23	23	23	23	24	24	24	24	24	23	23	23	22	23	24	24	21	23
6/24/07	22	22	22	22	22	22	22	22	22	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	24	24	22	23
6/25/07	23	22	22	22	22	22	22	22	23	23	23	23	24	24	24	24	24	24	24	24	24	23	23	23	24	24	22	23
6/26/07	23	23	23	23	22	22	22	21	21	21	22	22	22	23	23	23	23	23	23	23	22	22	21	21	24	23	21	22
6/27/07	21	21	20	20	20	20	20	21	21	22	22	23	23	23	23	23	23	23	23	23	22	22	21	21	24	23	20	22
6/28/07	21	20	20	20	20	20	20	20	20	21	21	21	22	22	23	23	23	23	23	23	22	22	21	22	24	23	20	21
6/29/07	21	21	21	21	21	21	21	21	21	22	22	23	23	23	23	24	24	24	23	23	23	22	22	22	24	24	21	22
6/30/07	22	21	21	21	21	21	21	21	22	22	22	23	23	23	23	23	24	23	23	23	23	22	22	22	24	24	21	22
																									0			
hr max	29	28	28	27	27	26	26	26	26	27	27	28	28	27	28	28	27	27	27	27	29	29	29	29				
hr min	20	20	20	20	20	20	20	20	20	21	21	21	21	22	22	21	22	21	21	21	21	21	20	20				
average	23	23	22	22	22	22	22	22	22	23	23	23	23	24	23	23	23	23	23	23	23	23	0	23				

monthly max hr	monthly 24h max	monthly TOTAL
29	20	23
6/3/07	6/19/07	

Validated by: Roger L Thompson Date: 8/2/07
Analyst: Denise Hazelman Date: 8/2/07

valid hours	698
possible hours	720
data capture	96.9%

ENSR

Appendix E

ARS Audit Report

02450-017-701

November 2007

AUDIT REPORT

FOR

BASIN NEXTGEN PROJECT
GETTYSBURG, SOUTH DAKOTA
THIRD QUARTER 2007

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

October 1, 2007

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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 July 12, 2007. 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.

This report includes some of the additional audit points required by the revised 40 CFR 58, Appendix B. ARS is in the process of acquiring equipment that will allow the challenge of the gaseous analyzers at the lower points and will have this equipment in place prior to the fourth quarter 2007 audits.

Ambient air quality audit results are summarized by parameter in Table 1-1.

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

Any questions related to this audit or audit report should be addressed to:

Martin H. Valvur
Air Resource Specialists, Inc.
1901 Sharp Point Drive, Suite E
Fort Collins, Colorado 80525
Telephone: 970-484-7941
Fax: 970-484-3423
E-mail: mvalvur@air-resource.com

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	±7% or ±7 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 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	TEI	49C	401504-581	08/15/2007
Gas Dilution*	ERT	Gas Cal 82	1229G	08/15/2007
SO_2 (29.35 ppm)	Scott Marrin	--	JJ686	11/16/2008
NO (30.8 ppm)	--	--	JJ686	11/16/2008
Zero Air Source	ARS	Portable	002	N/A
High Vol Cal Orifice	Graseby	G28	C368	01/04/2008
Digital Voltmeter	Fluke	8060A	4735610	01/15/2008
Wind Speed	R.M. Young	18810	21181	1/18/2008
Bearing Torque	R.M. Young	18312	N/A	N/A
Temperature	Alpha Technics	4600	101610	1/08/2008
Relative Humidity	Rotronics	Hygroclip	95915	1/22/2008
Solar Radiation	Eppley	PSP	29387F3	1/09/2008

*The Gas Dilution system contains various components that have their own individual serial numbers. The serial number referenced here is for the system as a whole.

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
July 12, 2007

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	-0.010	-0.010	0.007	NA	NA
			0.444	0.438	-0.006	0.031	-1.4	Y
Slope = 1.004442	Correlation = 0.999612		0.205	0.190	-0.015	0.014	-7.3	Y
Intercept = -0.010011	Mean % = -5.34		0.079	0.073	-0.006	0.007	-7.4	Y
			0.000	0.000	0.000	0.007	0.0	Y
Sulfur Dioxide - Parts Per Million								
SO_2	TEI	29727-236	0.000	0.000	0.000	0.015	NA	NA
			0.438	0.468	0.030	0.066	6.8	Y
Slope =1.08703	Correlation =0.997816		0.195	0.178	-0.017	0.029	-8.5	Y
Intercept =-0.015471	Mean % =-3.4		0.088	0.080	-0.008	0.015	-8.5	Y
			0.038	0.037	-0.001	0.015	-3.8	Y
			0.000	0.000	0.000	0.015	0.0	Y
Oxides of Nitrogen - Parts Per Million								
NO	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.450	0.489	0.039	0.068	0.5	Y
Slope =1.089296	Correlation =0.999957		0.175	0.187	0.012	0.026	0.2	Y
Intercept = -0.002351	Mean =6.3		0.080	0.083	0.003	0.015	0.1	Y
			0.038	0.041	0.003	0.015	0.0	Y
NO_x	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.450	0.489	0.039	0.068	8.6	Y
Slope =1.089672	Correlation =0.999963		0.175	0.188	0.013	0.026	7.4	Y
Intercept = -0.00215	Mean =6.5		0.080	0.083	0.003	0.015	3.6	Y
			0.038	0.040	0.002	0.015	6.3	Y
NO_2	TEI	70181-365	0.000	-0.00123	-0.001	0.015	NA	NA
			0.329	0.35887	0.030	0.049	9.1	Y
Slope =1.092634	Correlation =0.999954		0.136	0.15	0.014	0.020	10.4	Y
Intercept = 0.00041	Mean =11.3		0.086	0.096	0.010	0.015	11.3	Y
Converter Efficiency =	101.7%		0.272	0.285	0.013	0.041	4.9	Y

* Continuous analyzer accuracy goals are +/- 10.0% of observed. Accuracy goals were taken from • 40 CFR 58, Appendix A. Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring. All units are in parts per million (ppm).

Table 4-2
Summary of Audit Findings
Particulate Parameters
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

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	39.7	40.7		10.0	2.5	Y
		Design Flow	40.0	40.3		10.0	1.0	Y
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 2	Graseby	986						
		Audit Flows	39.9	40.5		10.0	1.5	Y
		Design Flow	40.0	40.3		10.0	0.9	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 SLAMS, SPMs, and PSD Air Monitoring.
All units are in cubic feet per minute (CFM).

Table 4-3
Summary of Audit Findings
Standards Comparisons
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

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
			0.450	0.489		0.5	2.2	Y
			0.080	0.083		0.081	-2.4	Y
SO_2	API	482	0.000	0.000		0.000	NA	N/A
			0.438	0.460		0.471	2.4	Y
			0.080	0.08		0.07853	-1.8	Y

Table 4-4
Summary of Audit Findings
Meteorological Parameters
(Wind Speed, Wind Direction)
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

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			7.3	7.2	0.9	0.0	Y
900 RPM			21.4	23.0	1.7	1.6	Y
1500 RPM			35.5	37.5	2.4	2.0	Y
Wind Speed (50m) - Meters Per Second							
0 RPM	Climatronics	2920	0.2	0.30	0.5	0.1	Y
300 RPM			7.3	7.25	0.9	0.0	Y
900 RPM			21.4	21.42	1.6	0.0	Y
1500 RPM			35.5	35.60	2.3	0.1	Y
Wind Speed (10m) - Meters Per Second							
0 RPM	Climatronics	2911	0.2	0.30	0.5	0.1	Y
300 RPM			7.3	7.25	0.9	0.0	Y
900 RPM			21.4	21.42	1.6	0.0	Y
1500 RPM			35.5	35.60	2.3	0.1	Y
Vertical Wind Speed (100m) - Meters Per Second							
0	R.M. Young	295	0.00	0	0.2	0.00	Y
300 RPM CW			1.88	1.91	0.3	0.03	Y
300 RPM CCW			-1.88	-1.86	-0.29	0.01	Y
900 RPM CW			5.63	5.65	0.48	0.03	Y
900 RPM CCW			-5.63	-5.66	-0.48	-0.04	Y
Vertical Wind Speed (50m) - Meters Per Second							
0	R.M. Young	296	0.00	0.02	0.2	0.02	Y
300 RPM CW			1.88	1.91	0.3	0.03	Y
300 RPM CCW			-1.88	-1.89	-0.29	-0.01	Y
900 RPM CW			5.63	5.66	0.48	0.04	Y
900 RPM CCW			-5.63	-5.64	-0.48	-0.01	Y
Vertical Wind Speed (10m) - Meters Per Second							
0	R.M. Young	297	0.00	0.12	0.2	0.12	Y
300 RPM CW			1.88	2	0.3	0.13	Y
300 RPM CCW			-1.88	-1.76	-0.29	0.12	Y
900 RPM CW			5.63	5.7	0.49	0.08	Y
900 RPM CCW			-5.63	-5.6	-0.48	0.03	Y
Wind Direction (100m) - Degrees True							
To Mark 1	Climatronics	2925	185	184	5	-1.0	Y
From Mark 1			5	3	5	-2.3	Y
To Mark 2			254	252	5	-2.0	Y
From Mark 2			74	72	5	-2.0	Y
Wind Direction (50m) - Degrees True							
To Mark 1	Climatronics	2936	185	183	5	-2.0	Y
From Mark 1			5	3	5	-2.1	Y
To Mark 2			254	252	5	-2.0	Y
From Mark 2			74	72	5	-2.0	Y
Wind Direction (10m) - Degrees True							
To Mark 1	Climatronics	2931	185	182	5	-3	Y
From Mark 1			5	2	5	-3	Y
To Mark 2			254	254	5	-1	Y
From Mark 2			74	72	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 Project
Gettysburg, South Dakota
July 12, 2007

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	0.1	-0.03	Y
Ambient Bath			0.00	-0.06	0.1	-0.06	Y
Hot Bath			0.00	-0.01	0.1	-0.01	Y
Delta Temperature (100m - 2m)							
Ice Bath	Climatronics	4947-4945	0.00	0.00	0.1	0.00	Y
Ambient Bath			0.00	0.00	0.1	0.00	Y
Hot Bath			0.00	0.00	0.1	0.00	Y
Delta Temperature (50m - 2m)							
Ice Bath	Climatronics	4943-4945	0.00	0.03	0.1	0.03	Y
Ambient Bath			0.00	0.01	0.1	0.01	Y
Hot Bath			0.00	0.06	0.1	0.06	Y
Delta Temperature (10m - 2m)							
Ice Bath	Climatronics	4948-4945	0.00	-0.01	0.1	-0.01	Y
Ambient Bath			0.00	0.01	0.1	0.01	Y
Hot Bath			0.00	0.01	0.1	0.01	Y
Temperature (2m)							
Ice Bath	Climatronics	4945	0.0	0.07	0.5	0.07	Y
Ambient Bath			25.9	25.77	0.5	-0.13	Y
Hot Bath			45.4	45.28	0.5	-0.14	Y
Relative Humidity							
Average	Rotronics		7.10	11.9	10	4.80	Y
Solar Radiation							
Average	Eppley		789.3	798.0	1.1	8.67	Y
Precipitation							
Average	Climatronics		0.98	0.91	0.10	-0.06	Y
Barometric Pressure							
Average	Climatronics		872.4	872.0	3.0	-0.45	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 Project
Gettysburg, South Dakota
July 12, 2007

Sensor	Maximum Torque*	Audit Value	Accuracy Goal	Within Accuracy Goal
100 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.4	1.0	Y
Wind Direction	7.0 gm-cm	4.0	7.0	Y
50 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.5	1.0	Y
Wind Direction	7.0 gm-cm	5.0	7.0	Y
10 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	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

GAS DILUTION AUDIT

$NO/NO_2/GPT$

Date: 07/12/2007 Network: Next Gen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 42 S/N: 70181-365 Last Certification Date: 07/11/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 8/15/2007

Z Air Mod: ARS S/N: N/A 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	0.999948	0.000498	0.002473
Gas 1	0.999868	0.053808	0.098615
Gas 2	0.999913	8.853312	0.164603

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	2.488	0.000	5000.00	0.00	0.000	0.0%	NA	0.000	N/A	NA	-0.001	N/A
1	0.450	2.488	4.261	5000.00	74.14	0.489	98	8.6	0.489	97	8.6	0.001	0
2	0.175	2.488	1.582	5000.00	28.57	0.187	37	7.1	0.188	38	7.4	0.000	0
3	0.080	2.488	0.667	5000.00	13.02	0.083	16	3.2	0.083	16	3.6	0.000	0
4	0.038	3.982	0.519	8000.00	10.50	0.041	8	7.6	0.040	8	6.3	0.000	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	2.488	4.261	5000.00	74.14	0.479	96	0.479	N/A	-0.001	N/A	NA
GPT 1	0.329	2.488	4.261	5000.00	74.14	0.121	24	0.479	96	0.359	N/A	9.1
GPT 2	0.136	2.488	4.261	5000.00	74.14	0.331	66	0.481	96	0.150	N/A	10.4
GPT 3	0.086	2.488	4.261	5000.00	74.14	0.385	78	0.480	96	0.096	N/A	11.3
GPT 4	0.272	2.488	4.261	5000.00	74.14	0.183	N/A	0.468	N/A	0.285	N/A	4.9

Linear Regression*

	NO	NO_x	NO_2 GPT
Slope	1.089296	1.089672	1.092634
Intercept	-0.002351	-0.00215	0.00041
Correlation	0.999957	0.999963	0.999954
Ave. % Diff.	6.3	6.5	11.3

Catalytic Converter Efficiency: 101.7%

Signature: [signature]

Station Reference Check: Cyl. SN: Conc. Recal Due

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	-0.001	0.000	NA
0.450	0.489	0.500	0.489	0.499	0.001	0.000	2.2
0.080	0.083	0.081	0.083	0.083	0.000	-0.003	-2.4

Remarks: * Regression results are calculated from audit points zero, 1, 2, and 3.

GAS DILUTION AUDIT

SO_2

Date: 7/12/2007 Network: NextGen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 43A S/N: 29727-236 Last Certification Date: 7/11/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 3/46/2007

Z Air Mod: ARS S/N: N/A 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	0.999918	0.000498	0.002473
Gas 1	0.999865	1.058508	0.098315
Gas 2	0.999913	8.853312	0.164603

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	Observed SO2 % Diff.
Zero	0.000	2.488	0.000	5000.00	0.00	0.000	0.0	NA
1	0.438	2.488	4.356	5000.00	75.75	0.468	94.0	6.8
2	0.195	2.488	1.868	5000.00	33.44	0.178	36.0	-8.5
3	0.088	3.484	1.139	7000.00	21.05	0.080	16.0	-8.5
4	0.038	4.081	0.527	8200.00	10.63	0.037	8.0	-3.8
5								

Linear Regression Results*

Slope (m)	1.087030
Intercept (b)	-0.015471
Correlation (r)	0.997816
Average % difference	-3.4

* 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	0.000	0.000	NA
2	0.438	0.460	0.471	2.4
3	0.080	0.080	0.079	-1.8

Concentration (ppm): 30.3

Recalibration Date: 3/8/2009

Remarks:

Signature:

Air Resource Specialists, Inc.

OZONE AUDIT

Date:	7/12/2007	Network:	NextGen	Site:	Basin NextGen Project	Auditor:	M. H. Valvur
Site Analyzer Mfg:	TEI	Model:	49c	S/N:	0517812012	Last Certification Date:	7/11/2007
Site Reference Mfg:	TEI	Model:	49 TS	S/N:	33799-246	Last Certification Date:	7/11/2007
Audit O3 Mfg:	TECO	Model:	49C	S/N:	401504-581	Recalibration Date:	8/15/07
Frequency A:	125009	Frequency B:	71951	A Flow:	0.621	B Flow:	0.652
Zero Air Mfg:	In-Station	Model:	N/A	S/N:	N/A	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	0.010	0.0	NA	0.000	N/A	N/A
1	0.444	0.438	86.0	-1.4	0.455	N/A	2.5
2	0.205	0.190	42.0	-7.3	0.201	N/A	-2.0
3	0.079	0.073	14.0	-7.4	0.079	N/A	0.3
4						N/A	NA

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	1.004442	Slope	1.033907
Intercept	-0.010011	Intercept	-0.005826
Correlation	0.999612	Correlation	0.999724
Average % Difference	-5.3	Average % Difference	0.3

REMARKS:

*Regression results are calculated from audit points zero, 1, 2, and 3.

Signature:

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 7/12/2007 Time: 10:00

Sampler Model: Tisch S/N: 985

Pa: 709.6 mm Hg. Ta: 23.8 °C 296.95 K

Sampler No. PM_{10} #1

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 11.9519 b = 0.138800 r = 0.998410

	With Orifice Installed	Without Orifice Installed
Orifice Pressure Drop (ΔH_2O)	3.95 in. H_2O	
Qa (audit)[a]		1.12 m^3 / min 39.72 ACFM
Sampler Pressure Drop (ΔH_2O)	23.37 in. H_2O	18.89 in. H_2O
Qa (Sampler)[b]	1.153 m^3 / min 40.71 ACFM	1.170 m^3 / min 41.31 ACFM

Audit Flow Rate Percentage Difference[c]: 2.5 %

Qa (Corrected Sampler)[d]: 1.14 m^3 / min, 40.28 ACFM

Design Flow Rate Percentage Difference[e]: 0.95 %

[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) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 7/12/2007 Time: 10:15

Sampler Model: Tisch S/N: 986

Pa: 709.6 mm Hg. Ta: 23.8 °C 296.95 K

Sampler No. PM_{10} #2

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 12.6624 b = 0.099400 r = 0.999480

	With Orifice Installed	Without Orifice Installed
Orifice Pressure Drop (ΔH_2O)	3.98 in. H_2O	
Qa (audit)[a]		1.13 m^3 / min 39.87 ACFM
Sampler Pressure Drop (ΔH_2O)	22.15 in. H_2O	18.88 in. H_2O
Qa (Sampler)[b]	1.146 m^3 / min 40.48 ACFM	1.158 m^3 / min 40.89 ACFM

Audit Flow Rate Percentage Difference[c]: 1.5 %

Qa (Corrected Sampler)[d]: 1.14 m^3 / min, 40.27 ACFM

Design Flow Rate Percentage Difference[e]: 0.92 %

[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) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

Basin NextGen Project
Meteorological Audit Results
100 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.2	0.0
300 RPM	7.3	7.2	0.0
900 RPM	21.4	23.0	1.6
1500 RPM	35.5	37.5	2.0
0 RPM	0.00	0.00	0.00
300 RPM CW	1.88	1.91	0.03
300 RPM CCW	-1.88	-1.86	0.01
900 RPM CW	5.63	5.65	0.03
900 RPM CCW	-5.63	-5.66	-0.04
WIND DIRECTION - Degrees True			
To Mark 1	185.0	184.0	-1.0
From 1	5.0	2.7	-2.3
To Mark 2	254.0	252.0	-2.0
From 2	74.0	72.0	-2.0
DELTA TEMPERATURE - Degrees Celsius (100 - 50)			
Ice Bath	0.00	-0.03	-0.03
Ambient Bath	0.00	-0.06	-0.06
Hot Bath	0.00	-0.01	-0.01
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	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.4	0.4
Wind Direction	7.0 gm-cm	4.0	4.0

Basin NextGen Project
Meteorological Audit Results
50 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	7.3	7.2	0.0
900 RPM	21.4	21.4	0.0
1500 RPM	35.5	35.6	0.1
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.02	0.02
300 RPM CW	1.88	1.91	0.03
300 RPM CCW	-1.88	-1.89	-0.01
900 RPM CW	5.63	5.66	0.04
900 RPM CCW	-5.63	-5.64	-0.01
WIND DIRECTION - Degrees True			
To Mark 1	185.0	183.0	-2.0
From 1	5.0	2.9	-2.1
To Mark 2	254.0	252.0	-2.0
From 2	74.0	72.0	-2.0
DELTA TEMPERATURE - Degrees Celsius (50 - 10)			
Ice Bath	0.00	0.03	0.03
Ambient Bath	0.00	0.01	0.01
Hot Bath	0.00	0.06	0.06
Wind Sensor Torques			
Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.5	0.5
Wind Direction	7.0 gm-cm	5.0	5.0

Basin NextGen Project
Meteorological Audit Results
10 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	7.3	7.2	0.0
900 RPM	21.4	21.4	0.0
1500 RPM	35.5	35.6	0.1
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.12	0.12
300 RPM CW	1.88	2.00	0.13
300 RPM CCW	-1.88	-1.76	0.12
900 RPM CW	5.63	5.70	0.08
900 RPM CCW	-5.63	-5.60	0.03
WIND DIRECTION - Degrees True			
To Mark 1	185.0	182.0	-3.0
From 1	5.0	1.6	-3.4
To Mark 2	254.0	253.5	-0.5
From 2	74.0	72.4	-1.7
DELTA TEMPERATURE - Degrees Celsius (10 - 2)			
Ice Bath	0.00	-0.01	-0.01
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	0.2	0.2
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
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
TEMPERATURE - Degrees Celsius			
Ice Bath	0.0	0.1	0.1
Ambient Bath	25.9	25.8	-0.1
Hot Bath	45.4	45.3	-0.1
RELATIVE HUMIDITY - Percent			
Comparison 1	7.1	11.9	4.8
Comparison 2			
Comparison 3			
Average	7.1	11.9	4.8

Basin NextGen Project
Meteorological Audit Results
OTHER PARAMETERS
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
SOLAR RADIATION - Watts Per Meter^2			
RUN 1	790.0	800.0	10.0
RUN 2	790.0	799.0	9.0
RUN 3	788.0	795.0	7.0
Average	789.3	798.0	8.7
PRECIPITATION - Inches			
Comparison 1	0.54	0.50	-0.04
Comparison 2			
Comparison 3			
Average	0.54	0.91	-0.04
BAROMETRIC PRESSURE - Millibars of Mercury			
Comparison 1	872.4	872.0	-0.4
Comparison 2			
Comparison 3			
Average	872.4	872.0	-0.4

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 05/21/07 **Client** ARS **Tech.** M H Valvur

DVM Manufacturer Fluke **Model** 8060A

Last Certification Date 01/15/2007 **Serial Number** 4735610

Z Air Make Werther **Model** Lab PC70/4

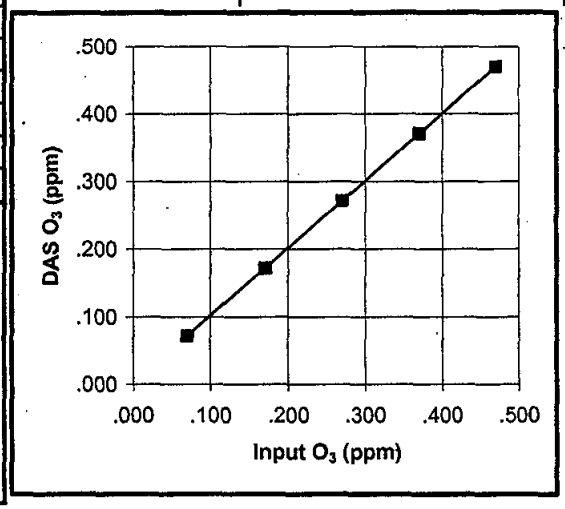
Serial Number 526280 **Last Maintenance Date** 06/22/05

PRIMARY	
Last Cal. Date	11/16/2006
Manufacturer	TECO
Model	49C PS
Serial Number	75759-380
BKG / CO EFF	0 / 1.0
A Frequency	98785
B Frequency	93175
Flow	.603 / .547
Cell Temperature	34.5
Inst. Offset (ppm)	0

Instrument to be Calibrated	
Last Cal. Date	11/27/2006
Manufacturer	TECO
Model	49C
Serial Number	401504-581
BKG / CO EFF	0.0 / 1.015
A Frequency	134586
B Frequency	79779
Flow	.603 / .597
Cell Temperature	35.7
Inst. Offset (ppm)	.000

Input Conc. (ppm)	Display Reading (ppm)	Output Voltage VDC	DAS O3 (ppm)	Error in ppm	Error Delta Percent
.000	.000	.000	**.000**	.000	NA
.470	.472	.470	**.470**	.000	**00.0 %**
.370	.370	.370	**.371**	.001	**00.3%**
.270	.270	.270	**.272**	.002	**00.7%**
.170	.170	.170	**.172**	.002	**01.2%**
.070	.070	.070	**.072**	.002	**02.9%**
.000	.000	.000	**.000**	.000	NA

SLOPE	**0.998849**
INTERCEPT	**0.001426**
CORRELATION	**0.999986**
AVERAGE DELTA%	**01.0 %**



Remarks

Signature

MFC/MFM Calibration Form

Date: 5/15/2007 Station: ARS Tech: M H Valvur

Mass Flow Device #1

Mfg: Brooks S/N: 90H1248/3 Range: 0 - 10 lpm

Primary Std. Mfg: BIOS Model: DC - 1HC S/N: H - 1809

Primary Standard Type (Bubble=1, Dry=0) 0 Last Calibration Date: 1/29/2007

Calibration Gas: Air Range: 50 ccm - 50 - lpm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
639.9	21.3	.000	0.852560	9769.0	4.000	8328.7
639.9	21.3	.000	0.852560	8550.0	3.500	7289.4
639.9	21.2	.000	0.852850	7343.0	3.000	6262.5
639.9	21.2	.000	0.852850	6159.0	2.500	5252.7
639.9	21.1	.000	0.853140	4985.0	2.000	4252.9
639.9	20.3	.000	0.855470	3784.0	1.500	3237.1

Slope (m) = 0.000492 Intcp (b)= -0.088348 Corr (r)= 0.999978

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

Mass Flow Device #2

Mfg: Brooks S/N: 90H12749/1 Range: 0 - 100 ccm

Primary Std. Mfg: MINI-Buck Model: M-5 S/N: M-3277B

Primary Standard Type (Bubble=1, Dry=0) 1 Last Calibration Date: 1/12/2007

Calibration Gas: Air Range: 1 - 6000 ccm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
639.9	21.2	18.880	0.827690	107.40	4.500	88.9
639.9	21.9	19.707	0.824620	84.30	3.500	69.5
639.9	21.9	19.707	0.824620	60.20	2.500	49.6
639.9	20.9	18.536	0.828990	36.30	1.500	30.1
639.9	20.4	17.974	0.831150	24.10	1.000	20.0
639.9	21.4	19.113	0.826810	19.30	.800	16.0

Slope (m) = 0.050728 Intcp (b)= -0.017717 Corr (r)= 0.999987

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

REMARKS:

Signature

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 - Jan 04, 2007 Rootsmeter S/N 9833620 Ta (K) - 293
Operator Tisch Orifice I.D. - C368 Pa (mm) - 751.84

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	1.2860	3.1	2.00
2	NA	NA	1.00	0.9060	6.3	4.00
3	NA	NA	1.00	0.8110	7.8	5.00
4	NA	NA	1.00	0.7730	8.5	5.50
5	NA	NA	1.00	0.6380	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0020	0.7791	1.4186		0.9959	0.7744	0.8828
0.9977	1.1012	2.0061		0.9916	1.0945	1.2485
0.9957	1.2278	2.2429		0.9896	1.2203	1.3959
0.9947	1.2868	2.3524		0.9886	1.2790	1.4640
0.9893	1.5507	2.8371		0.9833	1.5413	1.7657

Qstd slope (m) =	1.83980	Qa slope (m) =	1.15205
intercept (b) =	-0.01645	intercept (b) =	-0.01024
coefficient (r) =	0.99998	coefficient (r) =	0.99998

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

SYPRIS®
TEST & MEASUREMENT

CALIBRATION CERTIFICATE

Certificate Number: 5100095080
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: 01/15/2007
Recommended Due: 01/15/2008
As Received: IN TOLERANCE
As Returned: IN TOLERANCE
Procedure: MANUFACTURER'S MNL
Environment: 23 DEG C 32 % RH
P.O. / Release: A19596
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 17025-1999, 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
1004559	5700A	04/17/2006	04/17/2007	5100090305
1004560	5725A	04/17/2006	04/17/2007	5100090308

120406
CERTIFIED BY

Access your Calibration Records Online at http://Calweb.Sypris.com

1367
INSPECTED BY

8020 SOUTHPARK CIRCLE SUITE 300, LITTLETON, CO 80120 303-798-2243

QA 47-33 (05/05)

Page 1 of 1

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18810	Serial Number:	21181
Description:	Anemometer Drive - 10 to 1,000 RPM - Comprised of Models 18820 Control Unit & 18831 Motor Assembly		

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

Nominal Motor Rpm	Output Frequency (1) Hz	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 the motor shaft
(3) Indicated on the Control Unit LCD display - Note: Divide displayed 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 DP4863

Date of inspection 18 January 2007

Tested By EP

METEOROLOGICAL INSTRUMENTS
Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com Website: www.youngusa.com

ALPHA TECHNICS

17151 Gillette Avenue
Irvine, CA 92614-5602 USA
Tel: 949.250.6578
Fax: 949.271.2300
www.alphatechnics.com

REPORT OF CALIBRATION
EUTECHNICS DIGITAL THERMOMETER
P/N 139200-3NG

S/N: 101610

The Digital Thermometer was calibrated at temperatures listed below by comparison to temperature standards traceable to the National Institute of Standards and Technology. The accuracy of these settings at time of calibration is estimated to be ±0.020°C (121.00°C is±0.040°C).

Bath Temperature (°C)	Reading Before Adjustment (°C)	Reading After Adjustment (°C)
0.000	0.00	0.00
37.000	37.00	37.00
75.000	75.01	75.00
121.000	121.00	121.00

Equipment used in this calibration at Eutechnics

Manufacturer	Model	Test No.	Test Date	Recall Date
Eutechnics	Temperature Standards	TE 188 TE 192 TE 195	12/21/06 12/21/06 12/21/06	01/21/07 01/21/07 01/21/07
Hart Scientific Hart Scientific Hart Scientific Hart Scientific	Circulating Temperature Bath Controller	TE 165 TE 178 TE 200 TE 213	N/A N/A N/A N/A	N/A N/A N/A N/A

Replaced Parts

Qty	Circuit Designator	Description
1	B1	Battery 9V

Test data and supporting documents on file and available for inspection at 17151 Gillette Ave., Irvine, CA.

Tested by MCe

Date01/08/07

Approved CDF

Date01/08/07

AT/RH Sensor Calibration Form

Serial Number:	95915	**Owner:**	ARS
Model Number:	Rotronic Hygroclip	**Date of Last Operation:**	1/24/2006 to 1/4/2007
Calibration Date:	1/22/2007	**Last Operational Site:**	DC REF
Service Technician:	Marty Mills		
Service Type:	Scheduled		
Comments:			

Pre - Calibration Relative Humidity:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
10%	10 min.	10.0%	9.6%	-0.4%
35%	10 min.	35.1%	34.5%	-0.6%
50%	10 min.	50.1%	49.3%	-0.8%
60%	10 min.	60.1%	59.1%	-0.9%
70%	10 min.	70.1%	69.1%	-1.0%
80%	10 min.	80.2%	79.1%	-1.1%
90%	10 min.	90.1%	89.1%	-1.0%
95%	10 min.	95.1%	94.2%	-1.0%

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
0.9%	0.4%	1.1%	True

Pre - Calibration Temperature:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
15 degrees	10 min.	15.3	14.5	-0.8
25 degrees	10 min.	25.1	25.6	0.5
35 degrees	10 min.	34.7	36.4	1.6

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
1.1	0.53	1.65	False

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: eplab@mail.bbsnet.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 constant). The adopted calibration temperature is 25 °C.

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

$$7.56 \times 10^{-6} \text{ volts/watts meter}^{-2}$$

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 Ninth International Pyrheliometric Comparisons (IPC IX) at Davos, Switzerland in September-October 2000.

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 Specialist
Fort Collins, CO

Date of Test: January 3, 2007

In Charge of Test: R.T. Egeman

S.O. Number: 60992
Date: January 9, 2007

Reviewed by: Thomas D. Kuhe

Remarks:

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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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