AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

October 1 – December 31, 2012

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

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1.0 INTRODUCTION

This report summarizes the meteorological, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ozone (O_3), and particulate matter (PM) data collected at the Resolution Copper Project near Superior, Arizona for the fourth quarter, October 1 – December 31, 2012. Monitoring was performed in accordance with the *Resolution Copper Mining Monitoring Plan, November 2011* (approved by the Pinal County Air Quality Control District [PCAQCD] on November 15, 2011).

Resolution Copper Mining LLC (RCML) has implemented a meteorological and air quality monitoring program to support several efforts during the pre-feasibility and other mine development phases: environmental assessments, impact analyses, and documents required by the National Environmental Policy Act (NEPA); meteorological and air quality data to be processed and used as input for AERMOD (American Meteorological Society/Environmental Protection Agency Regulatory Model) dispersion modeling; and air quality baseline data and AERMOD analyses to be used to support RCML's application to the PCAQCD for air permit(s).

1.1 Location

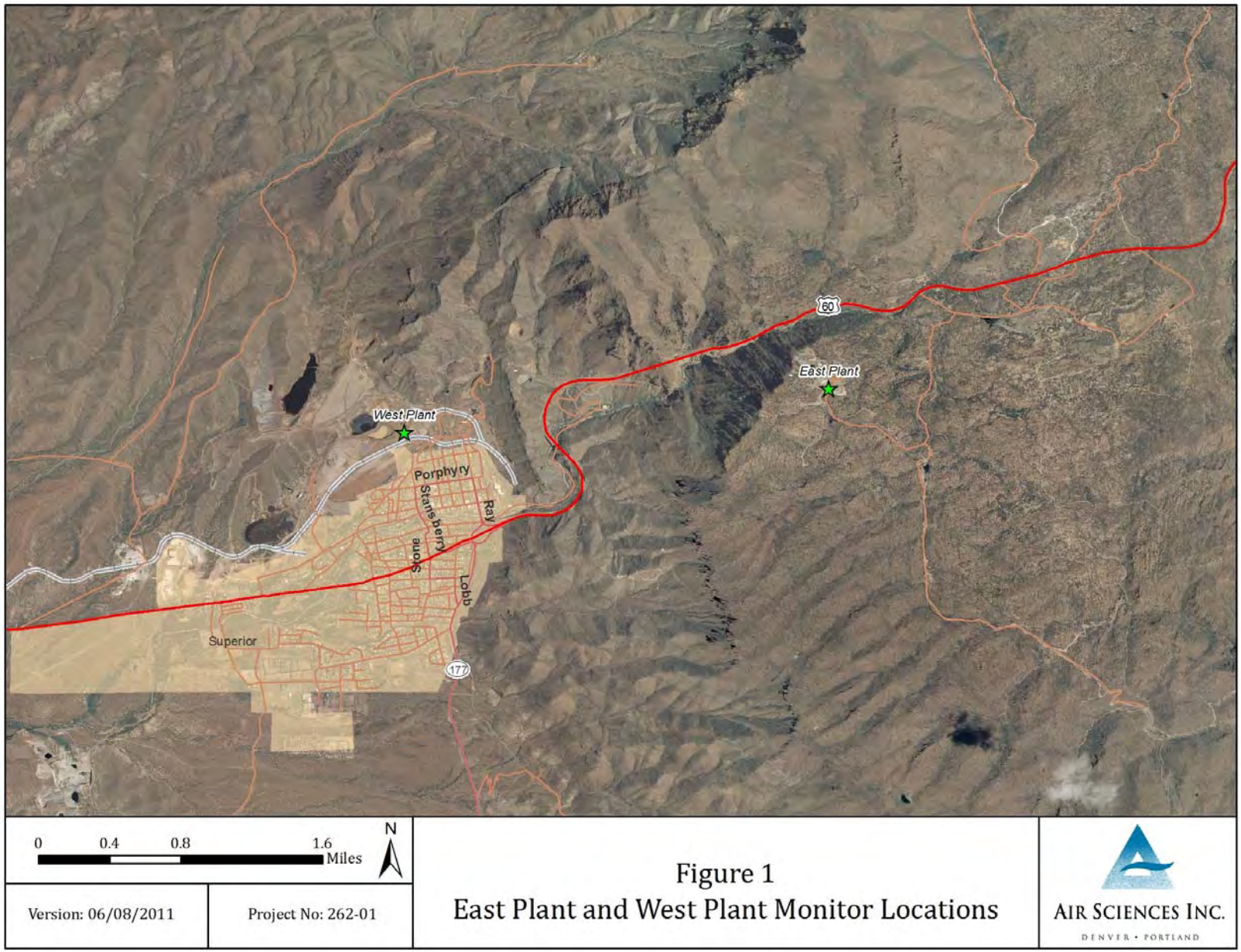
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The topography ranges from hilly to mountainous.

The monitoring station locations are shown in Figure 1 and listed by coordinates in Table 1.

Table 1. Monitoring Station Locations

Station	Location	Latitude (Deg)	Longitude (Deg)	Elevation (ft)	Method of Determination
West Plant	01S12E35NWSE	33.2994	-111.1021	2,949	GPS
East Plant	01S13E32SWNW	33.3030	-111.0676	4,199	GPS

Figure 1. Resolution Monitoring Stations Locations



1.2 Monitoring Program Description

1.2.1 Meteorological Data

Meteorological sensors and air quality instrumentation at the East Plant and West Plant stations are mounted on 10-meter, open-lattice towers or housed in climate-controlled insulated shelters, and are listed by height, from ground level, in Table 2.

Table 2. Sensors and Heights

		Height (m)	West Plant	East Plant
AERMOD Meteorological Data	Horizontal wind speed (meters per second [m/s])	10	✓	✓
	Horizontal wind direction (degrees [°])	10	✓	✓
	Horizontal wind direction standard deviation (sigma theta)	10	✓	✓
	Air temperature (degrees Celsius [°C])	2	✓	✓
	Vertical temperature difference (ΔT, Delta T, [°C])	2,10	✓	✓
	Relative humidity (percent [%])	2	✓	✓
	Solar radiation (watts per square meter [W/m^2])	2	✓	✓
	Barometric pressure (millimeters of mercury [mmHg])	1	✓	✓
	Precipitation (inches [in])	Ground	✓	✓
Ambient Air Data	FEM* Particulate matter less than 10 microns (PM_{10})	2,3	✓	✓
	FEM Particulate matter less than 2.5 microns ($PM_{2.5}$)	2,3	✓	✓
	Sulfur dioxide (SO_2)	3		✓
	Ozone (O_3)	3		✓
	Nitrogen dioxide (NO_2)	3		✓

*Federal Equivalent Method

The meteorological data are recorded by digital data acquisition systems equipped with broadband modems for data transfer. The meteorological parameters are sampled on-site at two-second intervals and are digitally processed into 15-minute averages. The 15-minute averages are transmitted to Air Sciences Inc. (Air Sciences) for quality assurance checks and are used as input for the calculation of one-hour averages.

Atmospheric stability is calculated using the Solar Radiation/Delta-T (SRDT) method (EPA-454/R-99-005, Table 6-7). Wind speed and solar radiation measurements are used for calculation of daytime atmospheric stability, and wind speed and delta temperature measurements are used for calculation of nighttime atmospheric stability.

Stability classes A, B, and C indicate the frequency of daytime low-speed winds, which are categorized as unstable or high-dispersion-potential winds with class A being the least stable. Stability classes E and F indicate the frequency of nighttime low-speed winds, which are categorized as stable or low-dispersion-potential winds with class E being the least stable. The D stability class is a mixture of daytime and nighttime winds, generally at higher speeds. This class is also referred to as neutral stability.

The frequency distribution of instantaneous winds by speed during each month of the quarter is collected at the monitoring stations. These winds can have a pronounced effect on the natural generation of airborne dust. The wind speed data are collected every two seconds and then binned based on wind speed classes to build a frequency distribution. The wind speed classes are:

- Wind speeds less than 5 meters per second (m/s) (11.2 miles per hour [mph])
- Wind speeds from 5 to 19 m/s, categorized in increments of 2 m/s
- Wind speeds greater than 19 m/s (42.5 mph)

The wind frequency distributions are compiled every eight hours and then converted to daily percentages. Appendix A contains the frequency distributions of winds by speed, direction, and stability. Appendix B includes monthly wind speed frequencies and instantaneous daily maximum wind speeds. Appendix C lists hourly meteorological data from October 1 through December 31, 2012.

Meteorological parameters are collected in support of air quality data. All meteorological sensors are audited and data undergo quality control procedures according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.2 NO_2 Data

NO_2 is measured at the East Plant using the Teledyne T200 Chemiluminescence NO_2 Analyzer, which holds an Environmental Protection Agency (EPA) equivalency designation as a Reference Method (RFNA-1194-099). This instrument is designed to measure oxides of nitrogen (NO_X) (with nitrogen dioxide, NO_2, as an indicator) at trace levels in ambient air. The instrument is operated continuously to collect hourly NO, NO_2, and NO_X concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly NO_2 data for the East Plant from October 1 through December 31, 2012.

Zero/span checks are run every morning at 1 a.m. and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party audits, adjustments, and general maintenance on the NO_2 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.3 SO_2 Data

SO_2 is measured at the East Plant using the Teledyne T100 UV Fluorescence SO_2 Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQSA-0495-100). The instrument is operated continuously to collect hourly SO_2 concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly SO_2 data for the East Plant from October 1 through December 31, 2012.

Zero/span checks are run every night at midnight and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party audits,

adjustments, and general maintenance on the SO_2 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.4 O_3 Data

O_3 is measured at the East Plant using the Teledyne T400 UV Absorption O_3 Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQOA-0992-087). The instrument is operated continuously to collect hourly O_3 concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix E lists hourly and rolling 8-hour average O_3 data for the East Plant from October 1 through December 31, 2012.

Zero/span checks are run every morning at 2 a.m. and these data are invalidated. Level 1 zeros and spans are conducted by the site operator every two weeks or as needed. Second-party audits, adjustments, and general maintenance on the O_3 monitor are performed according to the guidelines outlined in the Quality Assurance Project Plan.

1.2.5 PM Data

PM_{10} and $PM_{2.5}$ are measured at both the East Plant and West Plant using Met One Instruments' Beta Attenuation Monitors (BAM). At each site, one BAM is configured as a $PM_{2.5}$ Federal Equivalent Method (FEM), which holds the EPA designation (EQPM-0308-170), and the other BAM is configured as a $PM_{2.5}$ FEM, but is set to monitor PM_{10}. The instruments are operated continuously to collect hourly $PM_{2.5}$ and PM_{10} concentrations. Data are transferred via FTP script every hour to the Air Sciences server and made available to authorized persons via a data web-portal. Appendix D lists hourly $PM_{2.5}$ and PM_{10} data from October 1 through December 31, 2012.

Comparability requirements for $PM_{10\text{-}2.5}$ are assured through the EPA designation EPA EQPM-0308-170. The accuracy of the monitor is assessed through monthly audits of the flow rate by using a certified flow transfer standard.

Second-party audits, adjustments, and general maintenance on the PM monitors are performed according to the guidelines outlined in the Quality Assurance Project Plan.

2.0 DATA RECOVERY RATES

Data recovery rates for all parameters are presented in Table 3. Meteorological data recoveries are calculated by dividing the amount of valid hourly averages by the available hourly periods in the quarter. Air quality and particulate data recoveries are calculated by dividing the amount of valid 24-hour averages (for PM_{10}, $PM_{2.5}$), valid 24-hour maximum value (for SO_2, NO_2), or valid daily rolling 8-hour maximum (O_3) values by the number of days in the quarter. Particulate and air quality 24-hour averages or maximums are valid if greater than 75 percent of the hourly readings are valid for that day (at least 18 out of 24 hours).

Table 3. Data Recovery Rates, East Plant and West Plant
October 1 – December 31, 2012
(percent)

	East Plant		West Plant		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological					
Wind speed (10 m)	2,208	100	2,208	100	90
Wind direction (10 m)	2,208	100	2,208	100	90
Temperature (2 m)	2,208	100	2,208	100	90
Delta temperature	2,208	100	2,208	100	90
Relative humidity	2,208	100	2,208	100	90
Barometric pressure	2,208	100	2,208	100	90
Precipitation	2,208	100	2,208	100	90
Solar radiation	2,208	100	2,208	100	90
NO_2	81	88.0	--	--	75
O_3	88	95.7	--	--	75
SO_2	84	91.3	--	--	75
PM_{10}	92	100	92	100	75
$PM_{2.5}$	90	97.8	84	91.3	75

*Meteorological parameters are observed hourly (2,208 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (92 days in this period).

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

No hourly meteorological data were invalidated at the East Plant station for this quarter.

2.1.1.2 West Plant

No hourly meteorological data were invalidated at the West Plant station for this quarter.

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated for October 9, 2012, due to a site calibration performed by Air Sciences. Internal instrument errors resulted in invalid NO_2 24-hour maximum data on November 4, November 5, November 9, December 6, December 7, and from December 23 through December 27, 2012.

Additional invalid hourly NO_2 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.3 SO_2 Data Loss

SO_2 24-hour maximum data were invalidated for October 9, 2012, due to a site calibration performed by Air Sciences. Internal instrument errors resulted in invalid SO_2 24-hour maximum data from December 6 through December 11, 2012, and on December 23, 2012.

Additional invalid hourly SO_2 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.4 O_3 Data Loss

Ozone 24-hour maximum values were invalidated for October 9, 2012, due to a site calibration performed by Air Sciences. Internal instrument errors resulted in invalid ozone 24-hour maximum values on November 21, December 17, and December 23, 2012.

Additional invalid hourly O_3 data were due to daily zero/span checks, Level 1 zero/span checks, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.5 PM Data Loss

2.1.5.1 East Plant

No 24-hour average PM_{10} values were invalidated for the East Plant station during the fourth quarter of 2012.

24-hour average $PM_{2.5}$ values were invalidated for the East Plant station on November 29 and November 30, 2012, due to a tape break error.

Additional invalid hourly PM data at the East Plant were due to monthly flow verifications, regularly scheduled maintenance, power outages, internal instrument errors, and a site calibration performed by Air Sciences on October 9, 2012.

2.1.5.2 West Plant

No 24-hour average PM_{10} values were invalidated for the West Plant station during the fourth quarter of 2012.

$PM_{2.5}$ 24-hour average values were invalidated for the West Plant station on November 13, 2012, due to a tape break error, and from December 1 through December 7, 2012, due to internal instrument errors.

Additional invalid hourly PM data at the West Plant were due to monthly flow verifications, and regularly scheduled maintenance, power outages, and a site calibration performed by Air Sciences on October 9, 2012.

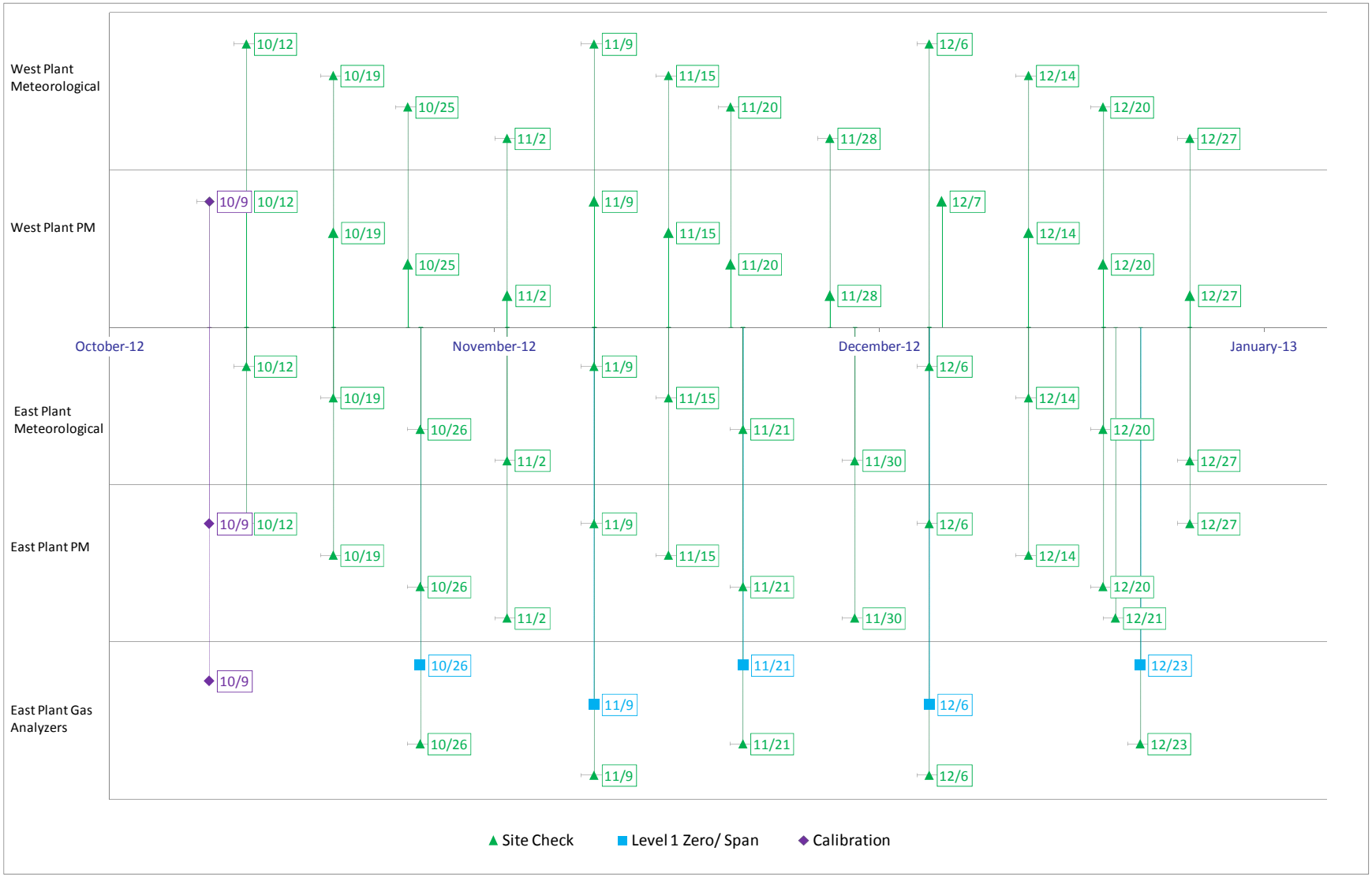
2.2 Quality Control

Quality assurance, equipment calibration, and audit procedures are conducted in accordance with the following documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II:#Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements (EPA-454/B-08-002, March 2008)
- Transfer Standards for the Calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-10-001, November 2010)
- Code of Federal Regulations (40 CFR Parts 50 and 58)
- Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD) (EPA-450/4-87-007, May 1987)
- Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA-454/R-99-005, February 2000)

Audits and/or calibrations of meteorological instrumentation are required every six months. Audits and/or calibrations of the ambient air quality monitors and analyzers are required every three months. At the East Plant, Air Sciences performed a calibration of the particulate instruments on October 9, 2012, as well as a multi-point calibration of the O_3, SO_2, and NO_2 monitors. At the West Plant, Air Sciences performed a calibration of the particulate instruments on October 9, 2012. Site checks on the meteorological sensors, particulate instruments, and gas analyzers continue to be conducted on a weekly basis. Copies of the audit/calibration report, flow verifications, and site check forms can be found in Appendices F-K.

Figure 2. Dates of Site Checks, Audits, and Calibrations
October 1 – December 31, 2012



3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological data from the fourth quarter have been compiled and summarized in graphical and tabular form. A schematic of meteorology summary sheets is shown in Figure 3. Meteorological summary sheets (Figure 4 and Figure 5) are comprised of the following:

Wind Rose – Graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/ s.

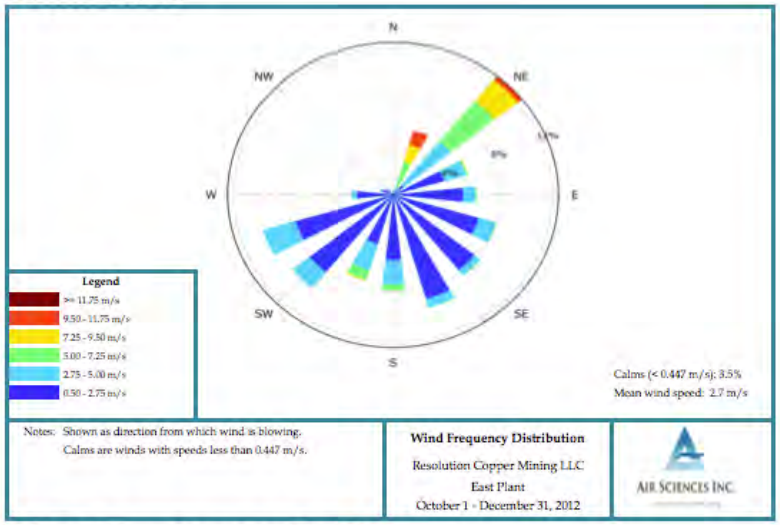
Wind Frequency Table – A two-part table. The left part of the Wind Frequency Table shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Wind Speed Class Intervals. The right part shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Stability Classes.

Meteorology Charts – Graphically summarize recorded hourly meteorological parameters by month. Chart types include stock-ticker charts (with high, low, and average hourly values for each month) and bar charts.

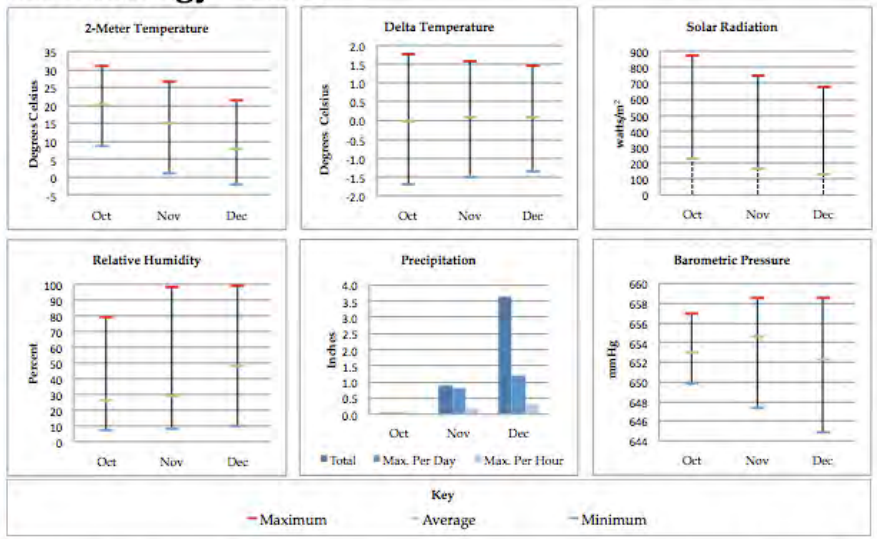
Instantaneous Wind Frequency and Maximum Chart – Graphically summarizes instantaneous (two-second) wind speeds as a percentage of occurrences for each of the nine wind speed intervals and the magnitude, date, and time of the maximum instantaneous wind speed for each month.

Figure 3. Schematic of Meteorological Data Sheets

Wind Rose



Meteorology Charts



Wind Frequency Tables

Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed	Stability Class A	B	C	D	E	F	All
N	0.2	0.2	0.0	0.0	0.0	0.0	0.5	1.9	0.0	0.1	0.1	0.1	0.0	0.2	0.5
NNE	0.0	0.2	0.5	1.8	2.1	0.9	5.5	7.4	0.0	0.2	0.6	4.7	0.0	0.1	5.6
NE	0.3	1.3	3.9	3.7	3.0	0.2	12.5	5.4	0.0	0.2	1.2	10.5	0.4	0.2	12.5
ENE	0.8	3.6	1.3	0.1	0.0	0.0	5.9	2.5	0.0	0.2	0.8	2.2	1.7	1.2	6.1
E	1.9	3.5	0.7	0.1	0.0	0.0	6.3	2.0	0.0	0.4	1.0	1.9	1.1	2.0	6.4
ESE	3.6	3.5	1.0	0.0	0.0	0.0	8.1	1.8	0.0	0.5	1.7	1.8	1.3	3.5	8.8
SE	6.0	2.0	0.4	0.0	0.0	0.0	8.4	1.3	0.0	0.5	0.4	0.8	1.0	6.6	9.3
SSE	7.3	1.7	0.5	0.0	0.0	0.0	9.6	1.2	0.0	0.3	0.5	1.0	0.5	8.0	10.2
S	3.6	1.9	1.7	0.5	0.0	0.0	7.8	2.2	0.1	0.4	1.5	2.0	0.4	3.8	8.3
SSW	1.4	3.4	1.7	0.8	0.1	0.0	7.3	2.8	0.0	1.0	1.5	3.1	0.7	1.0	7.3
SW	1.9	7.0	0.9	0.0	0.0	0.0	9.7	2.1	0.0	2.0	3.9	1.6	0.8	1.5	9.8
WSW	2.3	6.3	1.6	0.0	0.0	0.0	10.2	2.2	0.0	1.4	2.4	3.0	1.3	2.2	10.2
W	0.8	2.0	0.3	0.0	0.0	0.0	3.1	2.0	0.0	0.2	0.5	0.7	0.7	0.9	3.1
WNW	0.5	0.4	0.1	0.0	0.0	0.0	1.0	1.8	0.0	0.1	0.0	0.2	0.1	0.6	1.0
NW	0.2	0.5	0.0	0.0	0.0	0.0	0.7	1.7	0.0	0.1	0.0	0.0	0.2	0.2	0.7
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1
All	31.0	37.5	14.5	7.2	5.3	1.0	96.5	2.7	0.2	7.7	16.1	33.6	10.2	32.2	100.0

Instantaneous Wind Frequency & Maximum Chart

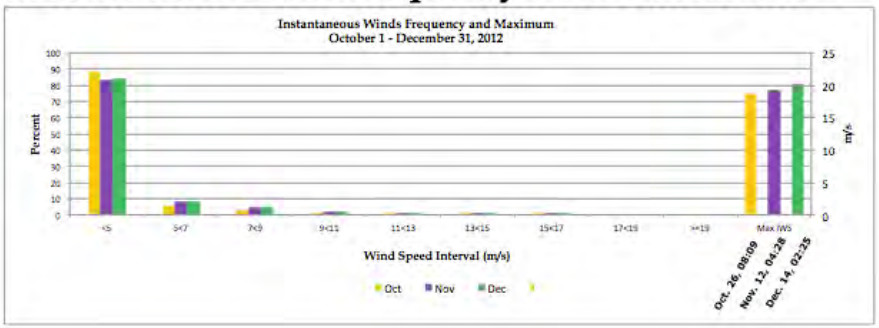
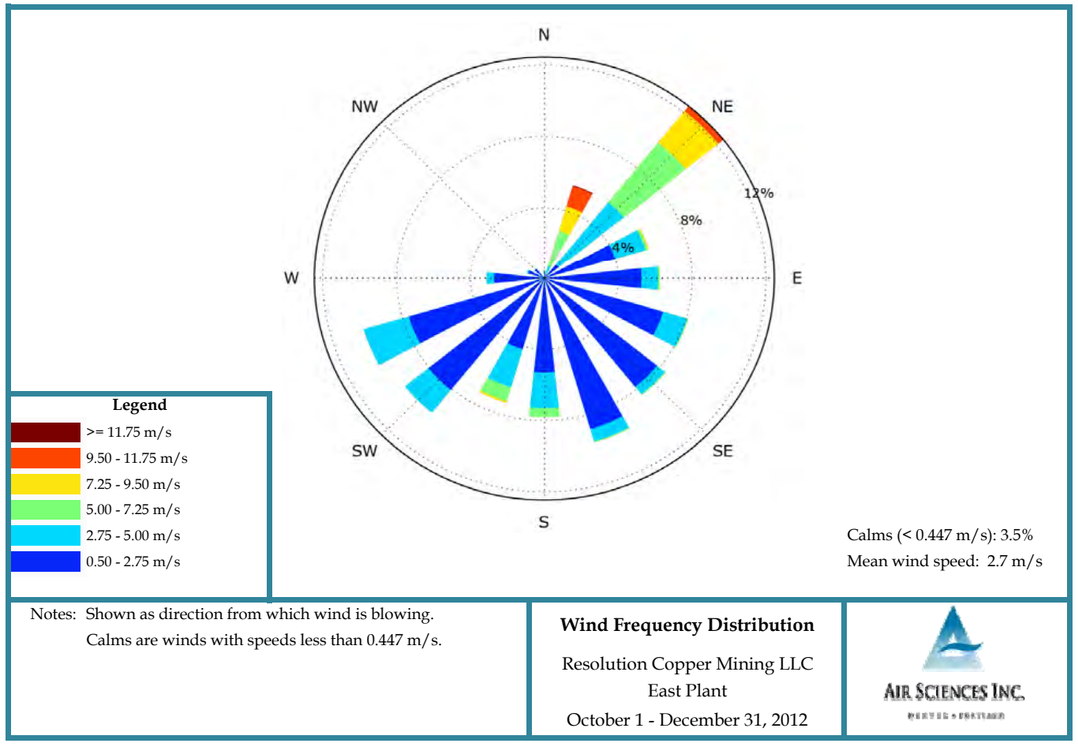
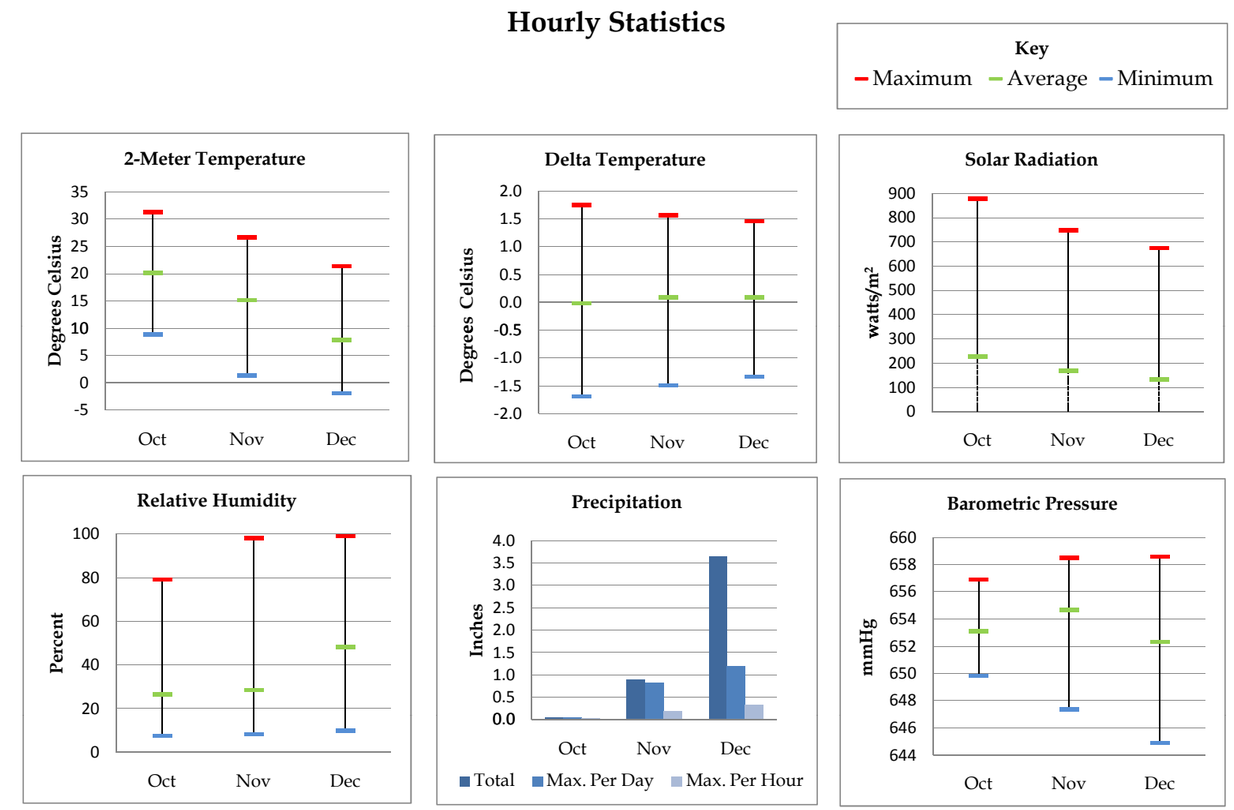


Figure 4: East Plant Meteorological Data Summary

Meteorological Data: October 1 - December 31, 2012



Hourly Statistics



Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.2	0.2	0.0	0.0	0.0	0.0	0.5	1.9
NNE	0.0	0.2	0.5	1.8	2.1	0.9	5.5	7.4
NE	0.3	1.3	3.9	3.7	3.0	0.2	12.5	5.4
ENE	0.8	3.6	1.3	0.1	0.0	0.0	5.9	2.5
E	1.9	3.5	0.7	0.1	0.0	0.0	6.3	2.0
ESE	3.6	3.5	1.0	0.0	0.0	0.0	8.1	1.8
SE	6.0	2.0	0.4	0.0	0.0	0.0	8.4	1.3
SSE	7.3	1.7	0.5	0.0	0.0	0.0	9.6	1.2
S	3.6	1.9	1.7	0.5	0.0	0.0	7.8	2.2
SSW	1.4	3.4	1.7	0.8	0.1	0.0	7.3	2.8
SW	1.9	7.0	0.9	0.0	0.0	0.0	9.7	2.1
WSW	2.3	6.3	1.6	0.0	0.0	0.0	10.2	2.2
W	0.8	2.0	0.3	0.0	0.0	0.0	3.1	2.0
WNW	0.5	0.4	0.1	0.0	0.0	0.0	1.0	1.8
NW	0.2	0.5	0.0	0.0	0.0	0.0	0.7	1.7
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7
All	31.0	37.5	14.5	7.2	5.3	1.0	96.5	2.7

	Stability Class D	A	B	C	D	E	F	All
N	0.0	0.1	0.1	0.1	0.0	0.2	0.5
N	0.0	0.2	0.6	4.7	0.0	0.1	5.6
N	0.0	0.2	1.2	10.5	0.4	0.2	12.5
E	0.0	0.2	0.8	2.2	1.7	1.2	6.1
E	0.0	0.4	1.0	1.9	1.1	2.0	6.4
E	0.0	0.5	1.7	1.8	1.3	3.5	8.8
S	0.0	0.5	0.4	0.8	1.0	6.6	9.3
S	0.0	0.3	0.5	1.0	0.5	8.0	10.2
S	0.1	0.4	1.5	2.0	0.4	3.8	8.3
S	0.0	1.0	1.5	3.1	0.7	1.0	7.3
S	0.0	2.0	3.9	1.6	0.8	1.5	9.8
W	0.0	1.4	2.4	3.0	1.3	2.2	10.2
W	0.0	0.2	0.5	0.7	0.7	0.9	3.1
W	0.0	0.1	0.0	0.2	0.1	0.6	1.0
N	0.0	0.1	0.0	0.0	0.2	0.2	0.7
N	0.0	0.0	0.0	0.0	0.0	0.0	0.1
A	0.2	7.7	16.1	33.6	10.2	32.2	100.0

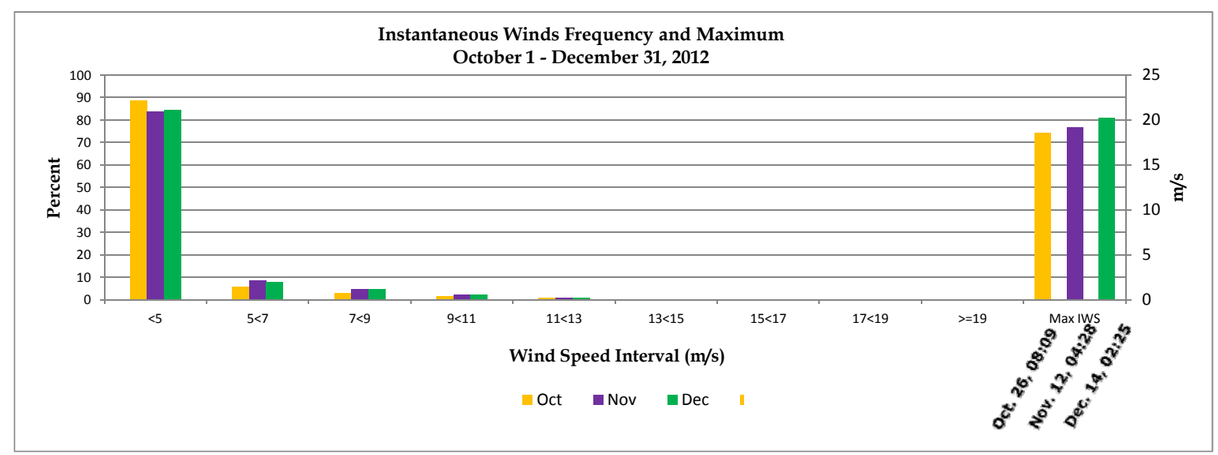
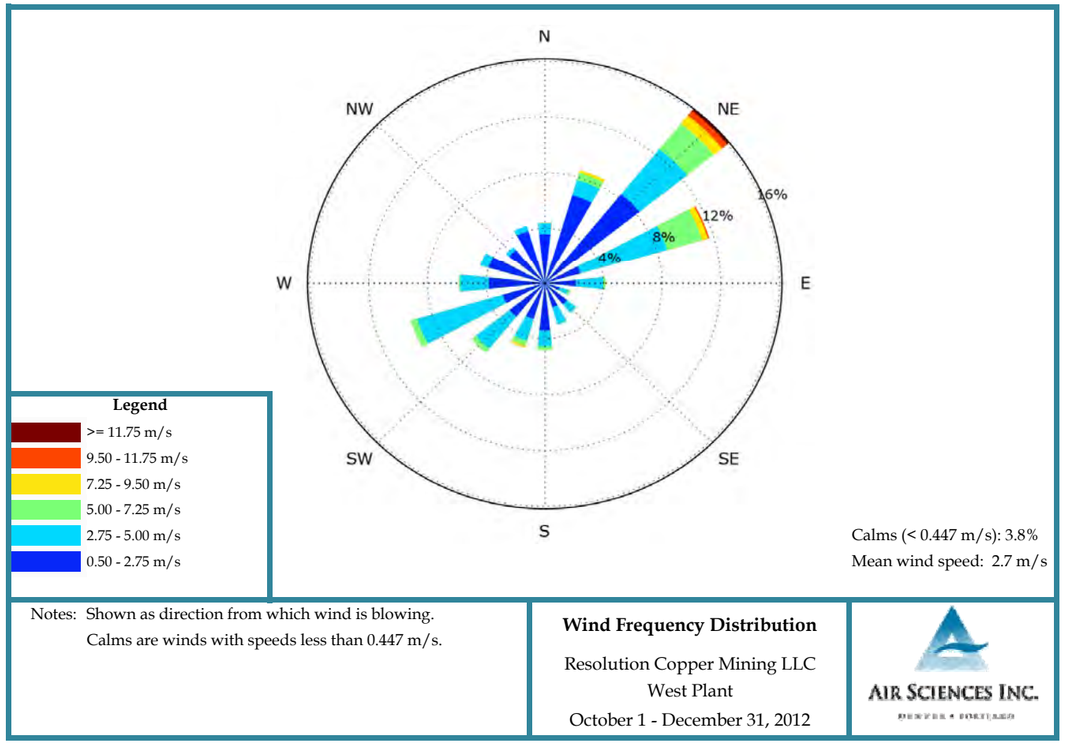
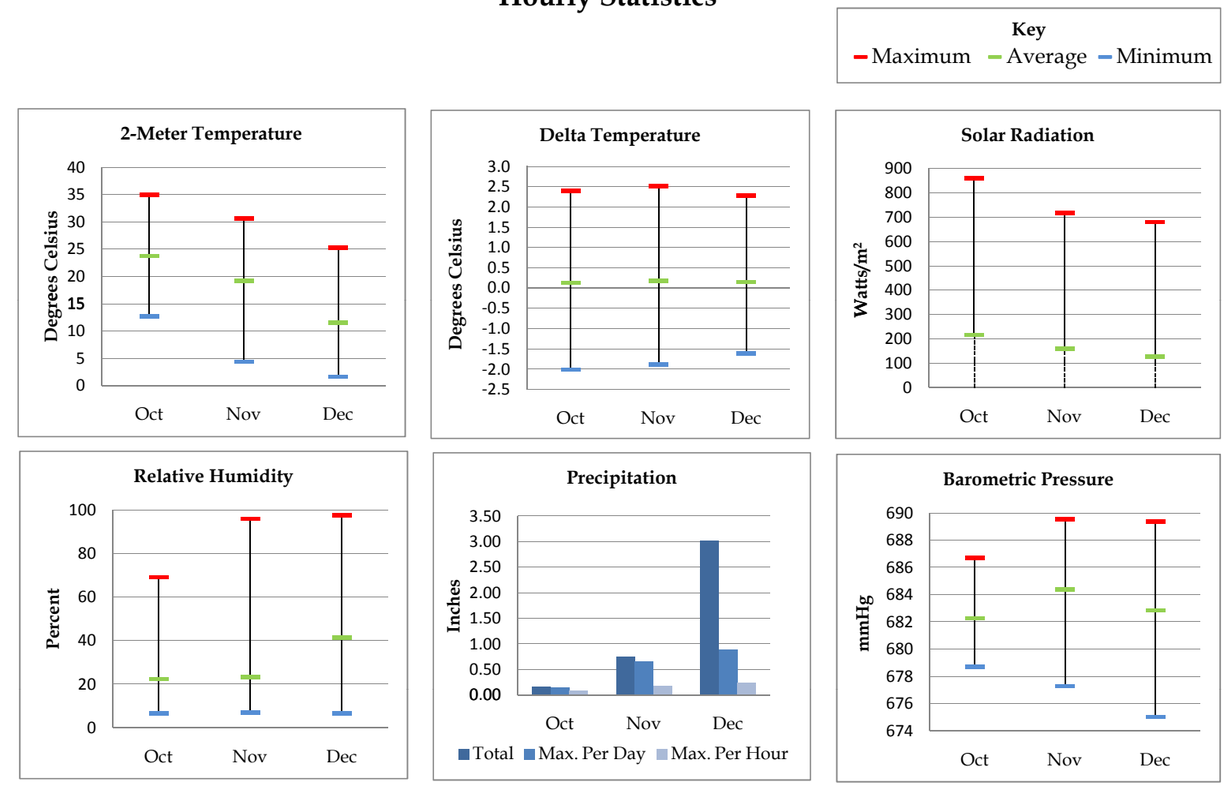


Figure 5: West Plant Meteorological Data Summary

Meteorological Data: October 1 - December 31, 2012

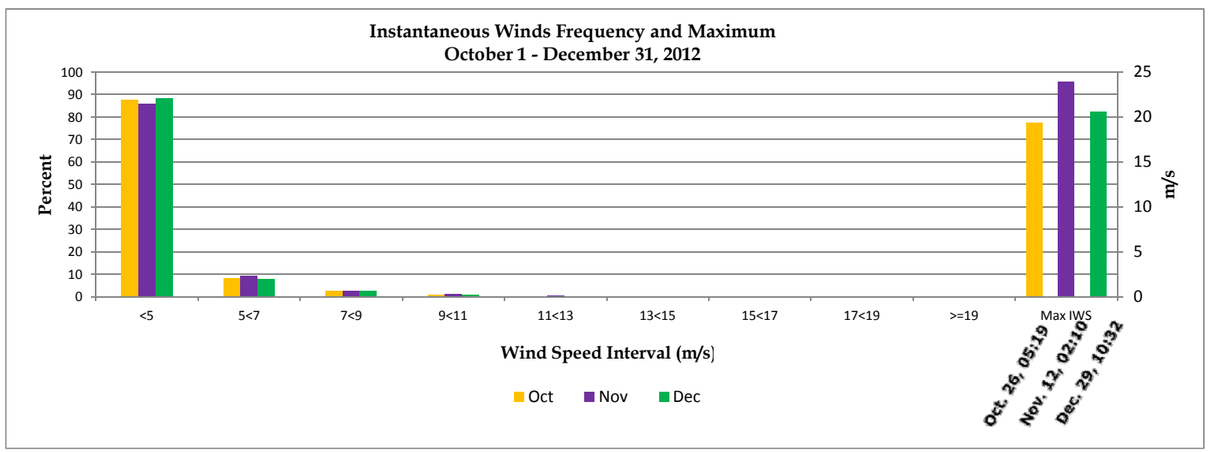


Hourly Statistics



Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	2.9	0.7	0.7	0.0	0.0	0.0	4.4	1.6
NNE	3.7	3.2	0.9	0.5	0.2	0.0	8.5	2.1
NE	3.7	5.4	3.3	2.2	1.1	0.5	16.2	3.5
ENE	1.1	1.9	5.7	2.4	0.6	0.0	11.7	4.0
E	0.6	2.0	1.4	0.1	0.0	0.0	4.1	2.7
ESE	0.5	0.9	0.4	0.1	0.0	0.0	1.8	2.5
SE	0.9	1.1	0.7	0.0	0.0	0.0	2.8	2.2
SSE	0.8	1.4	0.9	0.0	0.0	0.0	3.1	2.4
S	1.2	2.5	0.9	0.3	0.0	0.0	4.8	2.4
SSW	1.0	2.0	1.4	0.3	0.2	0.0	4.8	2.9
SW	0.7	2.8	2.5	0.4	0.0	0.0	6.4	2.9
WSW	1.0	3.1	5.0	0.5	0.0	0.0	9.5	3.1
W	1.7	2.4	1.7	0.1	0.0	0.0	5.8	2.2
WNW	2.3	2.0	0.3	0.0	0.0	0.0	4.6	1.6
NW	2.5	0.6	0.2	0.0	0.0	0.0	3.4	1.3
NNW	3.6	0.5	0.2	0.0	0.0	0.0	4.3	1.1
All	28.1	32.6	26.1	7.0	2.0	0.5	96.2	2.7

Stability Class D	A	B	C	D	E	F	All
N	0.0	0.0	0.1	0.7	0.7	3.5	5.0
N	0.0	0.1	0.5	1.5	1.0	6.0	9.1
N	0.0	0.3	1.0	6.6	2.9	5.5	16.3
E	0.0	0.2	1.7	7.7	1.1	1.1	11.9
E	0.0	0.1	1.2	1.7	0.8	0.4	4.2
E	0.0	0.1	0.7	0.5	0.2	0.2	1.8
S	0.1	0.5	0.7	1.0	0.3	0.1	2.8
S	0.0	0.8	1.4	0.6	0.3	0.1	3.1
S	0.0	1.4	1.5	1.3	0.4	0.2	4.8
S	0.1	1.3	1.4	1.4	0.5	0.1	4.8
S	0.0	1.5	3.0	1.5	0.0	0.3	6.4
W	0.0	1.0	4.2	3.2	0.5	0.8	9.6
W	0.0	0.4	1.4	2.3	0.5	1.4	6.0
W	0.0	0.1	0.1	1.6	1.1	2.1	5.1
N	0.0	0.0	0.1	0.3	1.0	2.8	4.3
N	0.0	0.0	0.1	0.7	0.8	3.2	4.8
A	0.4	7.8	19.2	32.7	12.1	27.8	100.0



3.2 Meteorological Data Discussion

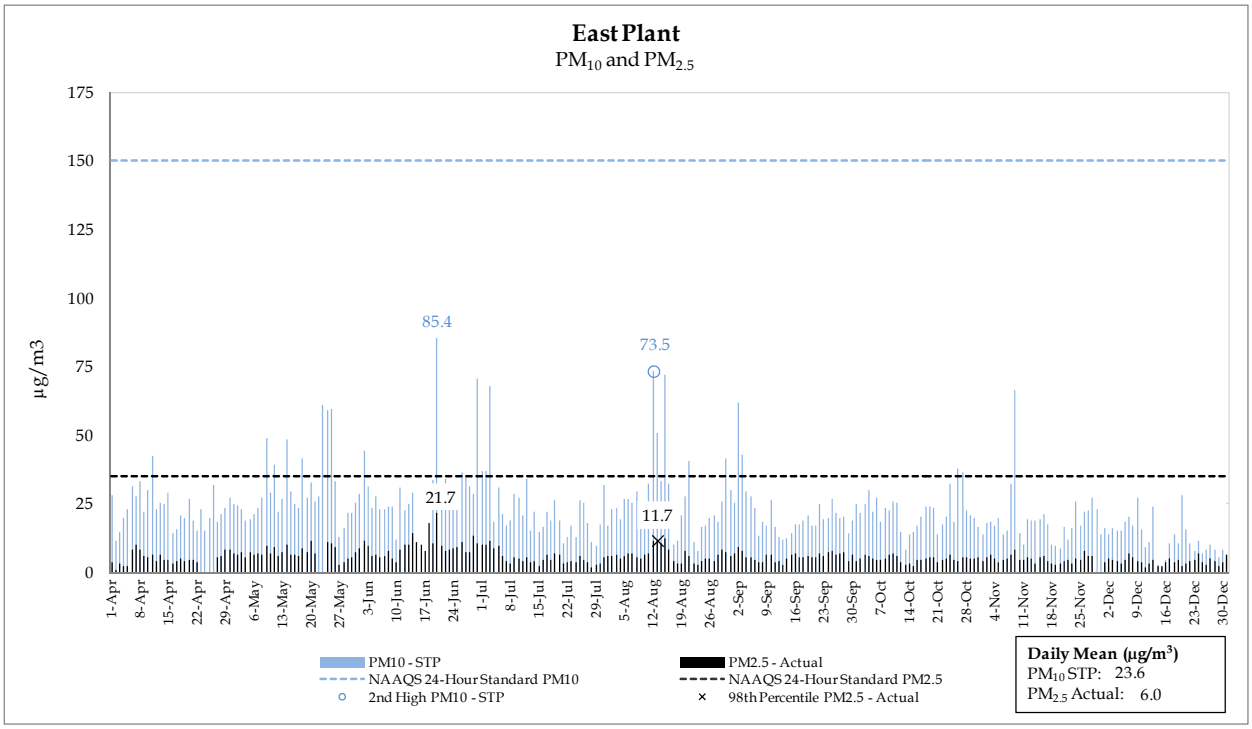
The meteorological data collected at the East and the West Plant sites for the fourth quarter of 2012 met all data recovery objectives.

4.0 PM DATA SUMMARY AND DISCUSSION

4.1 East Plant PM Data Summary

Figure 6 presents the PM_{10} and $PM_{2.5}$ data collected at the East Plant site for the second, third, and fourth quarters of 2012, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The daily maximum 24-hour average for PM_{10} and $PM_{2.5}$, the second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

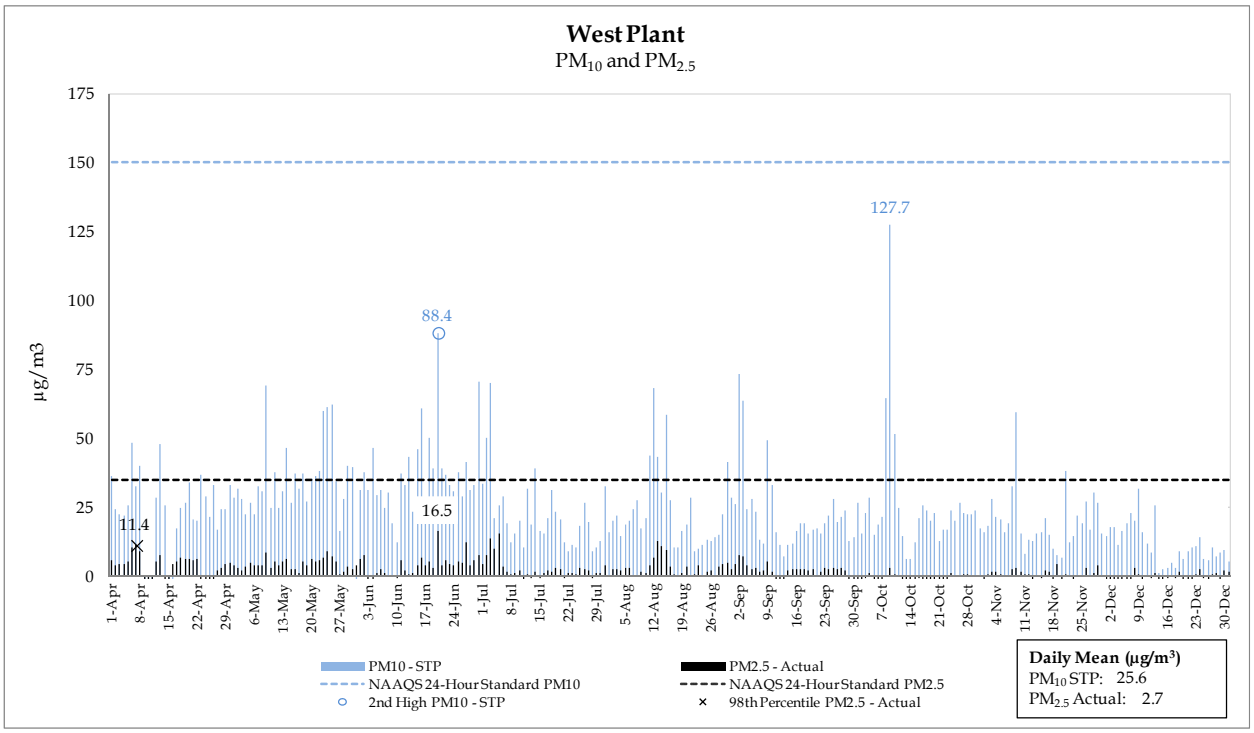
Figure 6. East Plant Particulate Data



4.2 West Plant PM Data Summary

Figure 7 presents the PM_{10} and $PM_{2.5}$ data collected at the West Plant site for the second, third, and fourth quarters of 2012, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The daily maximum 24-hour average for PM_{10} and $PM_{2.5}$, the second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

Figure 7. West Plant Particulate Data



4.3 PM Data Discussion

4.3.1 PM_{10}

The National Ambient Air Quality Standard (NAAQS) for PM_{10} is 150 µg/m³ for a 24-hour average concentration. The standard is met when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one (second-high value).

As shown in Figure 6 and Figure 7, the second-high PM_{10} concentrations recorded at the East and West Plants are 73.5 µg/m³ and 88.4 µg/m³, respectively. Both the East and West Plants' second-high values are below the NAAQS of 150 µg/m³.

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

4.3.2 $PM_{2.5}$

The annual primary and secondary $PM_{2.5}$ standards are met when the annual arithmetic mean concentration is less than or equal to 12.0 $\mu g/m^3$. The 24-hour primary and secondary $PM_{2.5}$ standards are met when the 98th percentile 24-hour concentration is less than or equal to 35 $\mu g/m^3$.

As shown in Figure 6 and Figure 7, the arithmetic mean concentrations for the East and West Plants are 6.0 and 2.7, respectively. Both the East and West Plants' arithmetic mean values are below the NAAQS of 12 $\mu g/m^3$.

Figure 6 and Figure 7 also show the 98th percentile concentrations at the East and West Plants. The 98th percentiles of both the East and West Plants' 24-hour concentrations are also below 35 $\mu g/m^3$.

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

5.0 NO_2 DATA SUMMARY AND DISCUSSION

5.1 NO_2 Data Summary

Figure 8 and Figure 9 present the NO_2 maximum hourly concentrations for each calendar day, and hourly data collected at the East Plant site for the second, third, and fourth quarters of 2012. Figure 8 shows the 98th percentile compared to the one-hour NO_2 standard. Figure 9 shows the mean hourly NO_2 concentration compared with the annual NO_2 standard.

Figure 8. NO_2 Maximum Hourly Concentration for Each Calendar Day (2nd – 4th Quarters 2012)

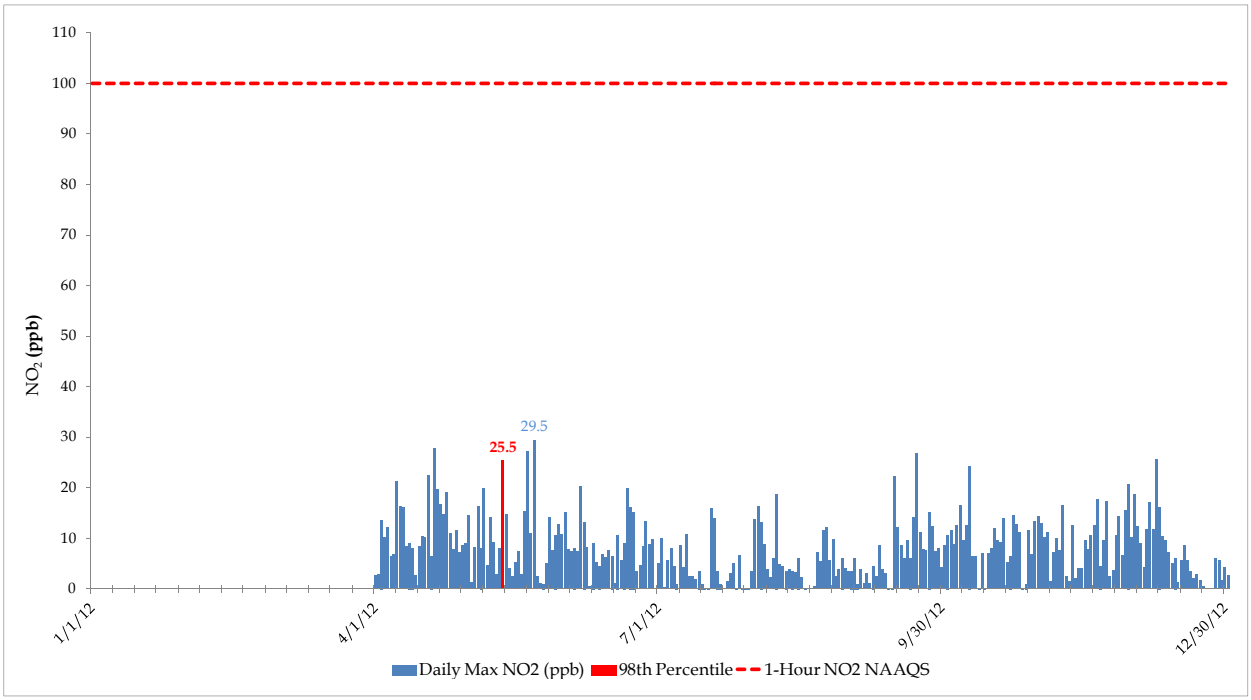
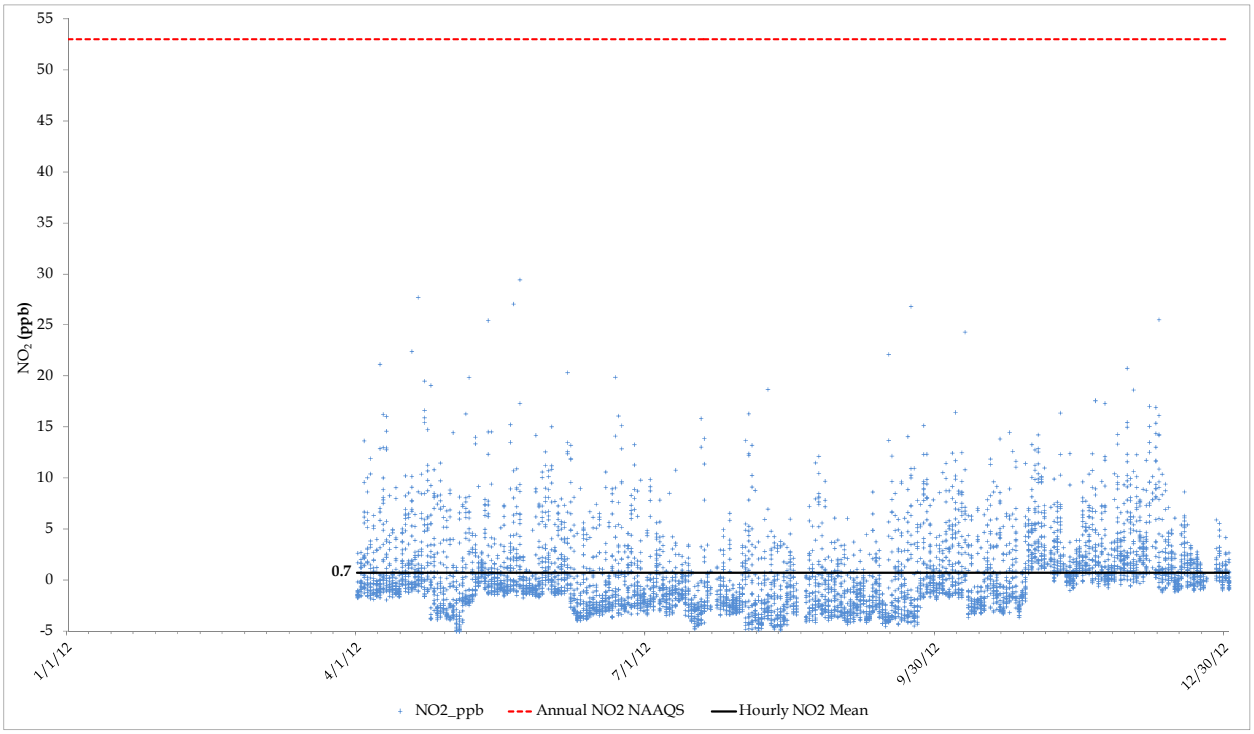


Figure 9. NO_2 Mean Hourly Concentrations (2nd – 4th Quarters 2012)



5.2 NO_2 Data Discussion

The level of the annual NAAQS for oxides of nitrogen is 53 parts per billion (ppb), measured in the ambient air as NO_2. The annual NAAQS is met when the annual average concentration in a calendar year is less than or equal to 53 ppb.

The level of the 1-hour NAAQS for oxides of nitrogen is 100 ppb, measured in the ambient air as NO_2. The 1-hour NAAQS is met when the three-year average of the annual 98th percentile of the daily maximum 1-hour average concentration is less than or equal to 100 ppb.

As shown in Figure 8, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for the second, third, and fourth quarters of 2012 is 25.5 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 9, the second, third, and fourth quarters of 2012 hourly NO_2 average is 0.7 ppb, which is below the annual NO_2 NAAQS of 53 ppb.

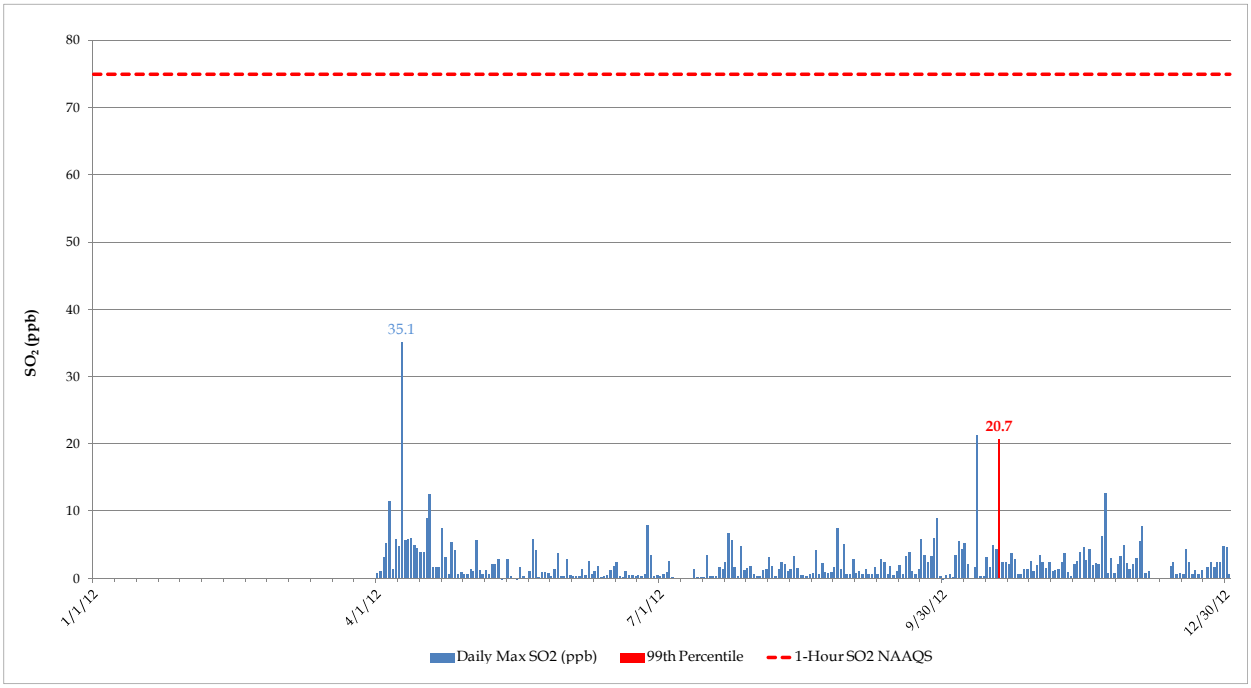
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

6.0 SO_2 DATA SUMMARY AND DISCUSSION

6.1 SO_2 Data Summary

Figure 10 presents the maximum hourly SO_2 concentrations for each calendar day collected at the East Plant site for the second, third, and fourth quarters of 2012, and it shows the 99th percentile (labeled) compared to the one-hour SO_2 standard.

Figure 10. SO_2 Maximum Hourly Concentration for Each Calendar Day (2nd – 4th Quarters 2012)



6.2 SO_2 Data Discussion

The level of the primary 1-hour NAAQS for oxides of sulfur is 75 ppb measured in the ambient air as sulfur dioxide (SO_2). The 1-hour primary standard is met at an ambient air quality monitoring site when the three-year average of the annual (99th percentile) daily maximum 1-hour average concentrations is less than or equal to 75 ppb.

As shown in Figure 10, the 99th percentile 1-hour maximum concentration for the second, third, and fourth quarters of 2012 is 20.7 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

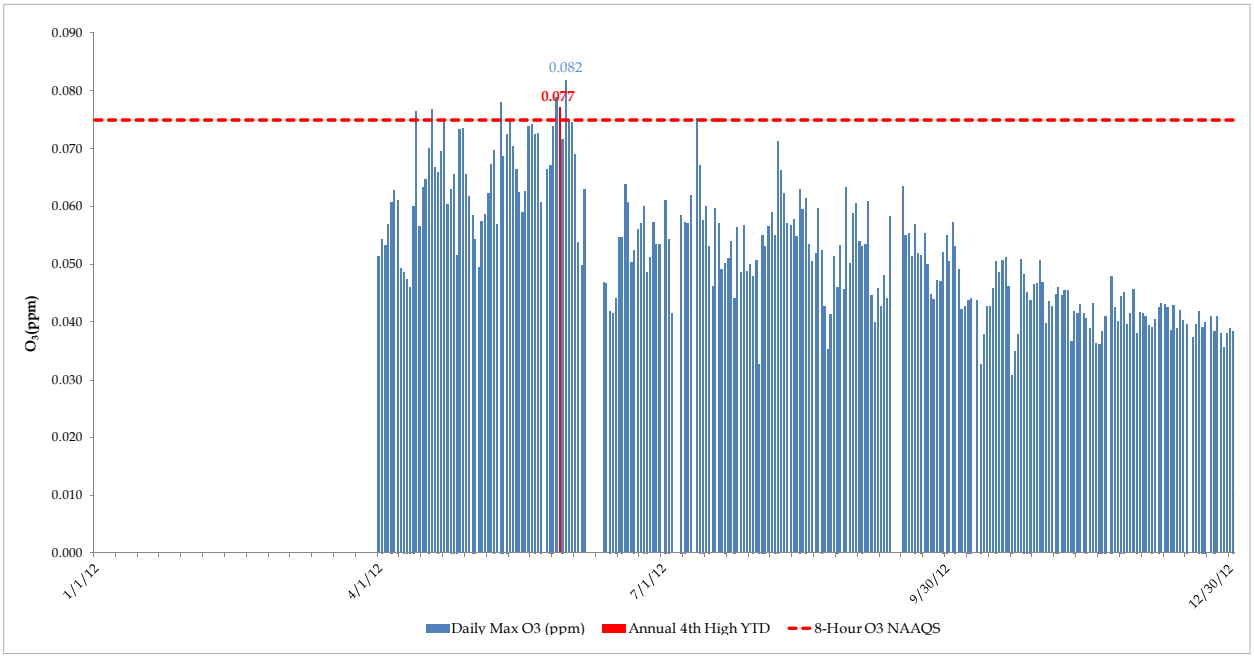
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

7.0 O_3 DATA SUMMARY AND DISCUSSION

7.1 O_3 Data Summary

Figure 11 presents the daily rolling 8-hour maximum O_3 data collected at the East Plant site for the second, third, and fourth quarters of 2012, and it shows the year-to-date fourth-highest rolling 8-hour average compared to the eight-hour O_3 standard.

Figure 11. O_3 Daily Rolling 8-Hour Maximum, 2012 (2nd – 4th Quarters 2012)



7.2 O_3 Data Discussion

The level of the primary and secondary 8-hour NAAQS for ozone is 0.075 parts per million, daily maximum average. The 8-hour primary and secondary standard is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum 8-hour average O_3 concentration is less than or equal to 0.075 ppm.

Figure 11 shows that the year-to-date averaged fourth-high maximum recorded at the East Plant for the second, third, and fourth quarters of 2012 is 0.077 ppm. This concentration is above the NAAQS 8-hour O_3 standard of 0.075 ppm.

Parts of Pinal County and adjacent Maricopa County have been designated as non-attainment areas for 8-hour ozone by the Arizona Department of Environmental Quality (ADEQ).

Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

Appendix A: Frequency Distributions of Winds by Speed, Direction, and Stability

Frequency of Winds By Direction and Speed - 10m
Stability Class A
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	25.0	0.0	0.0	0.0	0.0	25.0	1.6
SSE	0.0	25.0	0.0	0.0	0.0	0.0	25.0	1.9
S	0.0	50.0	0.0	0.0	0.0	0.0	50.0	1.8
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	0.0	100.0	0.0	0.0	0.0	0.0	100.0	1.7

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 1.7 m/s
Percent Occurence for this Stability Class: 0.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.6	0.6	0.0	0.0	0.0	0.0	1.2	1.7
NNE	0.0	0.6	1.8	0.0	0.0	0.0	2.3	3.2
NE	0.0	1.2	1.2	0.0	0.0	0.0	2.3	3.1
ENE	0.6	1.8	0.6	0.0	0.0	0.0	2.9	2.3
E	0.0	4.7	0.6	0.0	0.0	0.0	5.3	2.1
ESE	1.2	4.1	1.2	0.0	0.0	0.0	6.4	2.2
SE	1.8	3.5	1.8	0.0	0.0	0.0	7.0	2.3
SSE	0.0	2.3	1.2	0.0	0.0	0.0	3.5	2.5
S	1.2	3.5	0.6	0.0	0.0	0.0	5.3	2.2
SSW	1.2	8.2	3.5	0.0	0.0	0.0	12.9	2.5
SW	0.6	19.9	5.3	0.0	0.0	0.0	25.7	2.4
WSW	0.6	14.6	2.9	0.0	0.0	0.0	18.1	2.5
W	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.0
WNW	0.6	1.2	0.0	0.0	0.0	0.0	1.8	1.5
NW	0.0	1.8	0.0	0.0	0.0	0.0	1.8	2.0
NNW	0.0	0.6	0.0	0.0	0.0	0.0	0.6	2.6
All	8.2	71.3	20.5	0.0	0.0	0.0	100.0	2.4

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.4 m/s
Percent Occurence for this Stability Class: 7.7%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.3	0.6	0.0	0.0	0.0	0.0	0.8	2.3
NNE	0.0	0.3	2.0	1.4	0.0	0.0	3.7	4.7
NE	0.0	1.4	5.6	0.6	0.0	0.0	7.6	4.0
ENE	0.0	3.4	1.7	0.0	0.0	0.0	5.1	2.9
E	1.4	3.7	1.1	0.0	0.0	0.0	6.2	2.3
ESE	1.4	5.6	3.4	0.0	0.0	0.0	10.4	2.5
SE	0.0	1.7	0.6	0.0	0.0	0.0	2.3	2.8
SSE	0.6	1.1	1.1	0.0	0.0	0.0	2.8	2.7
S	0.3	5.4	3.7	0.0	0.0	0.0	9.3	2.8
SSW	0.6	5.4	3.4	0.0	0.0	0.0	9.3	2.7
SW	0.3	22.5	1.4	0.0	0.0	0.0	24.2	2.4
WSW	0.0	13.2	1.4	0.0	0.0	0.0	14.6	2.5
W	0.0	3.1	0.3	0.0	0.0	0.0	3.4	2.3
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.3	0.0	0.0	0.0	0.0	0.3	2.4
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	4.8	67.6	25.6	2.0	0.0	0.0	100.0	2.7

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.7 m/s
Percent Occurence for this Stability Class: 16.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.3	0.0	0.0	0.0	0.0	0.3	2.8
NNE	0.0	0.3	0.1	4.7	6.2	2.6	13.9	8.0
NE	0.1	2.2	8.5	10.8	9.0	0.5	31.2	5.8
ENE	0.5	3.0	2.4	0.4	0.1	0.0	6.5	3.1
E	1.5	2.6	1.3	0.3	0.0	0.0	5.7	2.4
ESE	1.5	2.8	0.9	0.1	0.0	0.0	5.4	2.2
SE	0.7	1.2	0.4	0.1	0.0	0.0	2.4	2.2
SSE	0.7	1.2	0.8	0.1	0.0	0.0	2.8	2.4
S	0.3	1.1	3.2	1.5	0.0	0.0	6.1	4.1
SSW	0.5	3.5	2.6	2.4	0.3	0.0	9.3	3.8
SW	0.5	3.5	0.7	0.0	0.0	0.0	4.7	2.2
WSW	0.8	4.7	3.4	0.0	0.0	0.0	8.9	2.8
W	0.1	1.2	0.8	0.0	0.0	0.0	2.2	2.7
WNW	0.0	0.3	0.3	0.0	0.0	0.0	0.5	3.2
NW	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.4
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	7.4	27.8	25.5	20.5	15.7	3.1	100.0	4.5

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 4.5 m/s
Percent Occurence for this Stability Class: 33.6%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.4	2.2	0.9	0.0	0.0	0.0	3.6	2.7
ENE	1.3	13.3	1.8	0.0	0.0	0.0	16.4	2.3
E	2.7	8.0	0.0	0.0	0.0	0.0	10.7	1.9
ESE	7.6	4.4	0.0	0.0	0.0	0.0	12.0	1.4
SE	4.9	2.7	0.0	0.0	0.0	0.0	7.6	1.3
SSE	3.6	1.8	0.0	0.0	0.0	0.0	5.3	1.3
S	2.2	1.8	0.0	0.0	0.0	0.0	4.0	1.5
SSW	1.3	5.3	0.0	0.0	0.0	0.0	6.7	1.9
SW	4.0	3.6	0.0	0.0	0.0	0.0	7.6	1.5
WSW	4.0	8.9	0.0	0.0	0.0	0.0	12.9	1.7
W	1.3	5.8	0.0	0.0	0.0	0.0	7.1	1.9
WNW	0.4	0.9	0.0	0.0	0.0	0.0	1.3	1.9
NW	0.9	1.3	0.0	0.0	0.0	0.0	2.2	1.7
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	34.7	60.0	2.7	0.0	0.0	0.0	97.3	1.8

Calms (< 0.447 m/s): 2.7%
Mean wind speed: 1.8 m/s
Percent Occurence for this Stability Class: 10.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
East Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.4	0.0	0.0	0.0	0.0	0.0	0.4	1.2
NNE	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.7
NE	0.6	0.1	0.0	0.0	0.0	0.0	0.7	1.0
ENE	1.4	1.7	0.0	0.0	0.0	0.0	3.1	1.4
E	2.9	2.8	0.0	0.0	0.0	0.0	5.8	1.4
ESE	6.3	2.7	0.0	0.0	0.0	0.0	9.0	1.3
SE	16.0	2.2	0.0	0.0	0.0	0.0	18.3	1.0
SSE	20.6	2.1	0.0	0.0	0.0	0.0	22.8	0.9
S	9.8	0.6	0.0	0.0	0.0	0.0	10.4	0.9
SSW	2.7	0.4	0.0	0.0	0.0	0.0	3.1	0.9
SW	3.7	0.8	0.0	0.0	0.0	0.0	4.5	1.1
WSW	4.8	1.8	0.0	0.0	0.0	0.0	6.6	1.2
W	2.0	0.8	0.0	0.0	0.0	0.0	2.8	1.2
WNW	1.3	0.4	0.0	0.0	0.0	0.0	1.7	1.3
NW	0.3	0.4	0.0	0.0	0.0	0.0	0.7	1.4
NNW	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.8
All	73.0	17.0	0.0	0.0	0.0	0.0	90.0	1.0

Calms (< 0.447 m/s): 10.0%
Mean wind speed: 1.0 m/s
Percent Occurence for this Stability Class: 32.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class A
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	33.3	0.0	0.0	0.0	0.0	33.3	1.8
SSE	0.0	11.1	0.0	0.0	0.0	0.0	11.1	1.8
S	0.0	11.1	0.0	0.0	0.0	0.0	11.1	1.5
SSW	11.1	22.2	0.0	0.0	0.0	0.0	33.3	1.7
SW	11.1	0.0	0.0	0.0	0.0	0.0	11.1	1.5
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	22.2	77.8	0.0	0.0	0.0	0.0	100.0	1.7

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 1.7 m/s
Percent Occurence for this Stability Class: 0.4%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	1.2	0.6	0.0	0.0	0.0	1.7	2.8
NE	0.0	2.3	1.7	0.0	0.0	0.0	4.0	3.2
ENE	1.2	1.2	0.6	0.0	0.0	0.0	2.9	2.1
E	0.0	0.6	1.2	0.0	0.0	0.0	1.7	2.9
ESE	0.6	0.6	0.6	0.0	0.0	0.0	1.7	2.3
SE	0.6	2.9	2.3	0.0	0.0	0.0	5.8	2.8
SSE	2.3	4.6	2.9	0.0	0.0	0.0	9.8	2.3
S	4.0	11.6	2.3	0.0	0.0	0.0	17.9	2.1
SSW	2.9	10.4	2.9	0.0	0.0	0.0	16.2	2.2
SW	2.9	10.4	5.8	0.0	0.0	0.0	19.1	2.5
WSW	0.0	5.8	6.4	0.0	0.0	0.0	12.1	3.2
W	0.0	2.9	2.3	0.0	0.0	0.0	5.2	2.6
WNW	0.0	1.7	0.0	0.0	0.0	0.0	1.7	2.4
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	14.5	56.1	29.5	0.0	0.0	0.0	100.0	2.5

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.5 m/s
Percent Occurence for this Stability Class: 7.8%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.2	0.2	0.0	0.0	0.0	0.5	3.6
NNE	0.0	0.5	1.9	0.0	0.0	0.0	2.4	3.7
NE	0.0	1.7	2.8	0.9	0.0	0.0	5.4	3.8
ENE	0.0	3.1	5.9	0.0	0.0	0.0	9.0	3.3
E	0.2	3.1	2.8	0.0	0.0	0.0	6.1	2.9
ESE	0.2	2.8	0.5	0.2	0.0	0.0	3.8	2.8
SE	1.2	1.4	0.9	0.2	0.0	0.0	3.8	2.4
SSE	1.9	3.1	1.9	0.2	0.0	0.0	7.1	2.4
S	1.9	4.5	1.7	0.0	0.0	0.0	8.0	2.3
SSW	1.2	2.8	3.5	0.0	0.0	0.0	7.6	2.9
SW	0.5	6.6	8.0	0.5	0.0	0.0	15.6	3.2
WSW	0.0	5.9	15.6	0.5	0.0	0.0	22.0	3.5
W	0.0	3.5	3.5	0.0	0.0	0.0	7.1	2.9
WNW	0.0	0.7	0.0	0.0	0.0	0.0	0.7	2.7
NW	0.0	0.5	0.0	0.0	0.0	0.0	0.5	2.4
NNW	0.0	0.2	0.2	0.0	0.0	0.0	0.5	3.1
All	7.1	40.7	49.6	2.6	0.0	0.0	100.0	3.1

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 3.1 m/s
Percent Occurence for this Stability Class: 19.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.0	0.1	1.9	0.1	0.0	0.0	2.2	3.9
NNE	0.1	1.0	1.4	1.5	0.6	0.0	4.6	4.6
NE	0.0	2.5	6.9	6.0	3.3	1.4	20.1	5.6
ENE	0.1	1.4	13.3	6.9	1.8	0.1	23.7	4.8
E	0.4	2.2	2.2	0.4	0.0	0.0	5.3	3.1
ESE	0.3	0.6	0.6	0.3	0.0	0.0	1.7	3.0
SE	1.2	1.0	1.0	0.0	0.0	0.0	3.2	2.2
SSE	0.1	0.8	0.8	0.0	0.0	0.0	1.8	3.0
S	0.6	1.2	1.1	0.8	0.0	0.0	3.7	3.5
SSW	0.6	0.8	1.4	1.0	0.6	0.0	4.3	4.2
SW	0.4	1.8	1.7	0.8	0.0	0.0	4.7	3.3
WSW	0.6	3.3	4.7	1.1	0.0	0.0	9.7	3.3
W	0.8	3.5	2.5	0.3	0.0	0.0	7.1	2.7
WNW	0.7	3.2	1.0	0.0	0.0	0.0	4.8	2.3
NW	0.0	0.3	0.7	0.0	0.0	0.0	1.0	3.1
NNW	0.7	0.8	0.6	0.0	0.0	0.0	2.1	2.3
All	6.6	24.5	41.7	19.3	6.2	1.5	99.9	4.1

Calms (< 0.447 m/s): 0.1%
Mean wind speed: 4.1 m/s
Percent Occurence for this Stability Class: 32.7%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	2.6	3.0	0.0	0.0	0.0	0.0	5.6	1.7
NNE	0.4	5.6	0.4	0.4	0.0	0.0	6.7	2.3
NE	2.2	18.0	3.0	0.4	0.0	0.0	23.6	2.4
ENE	0.7	6.0	1.1	0.7	0.0	0.0	8.6	2.7
E	1.1	4.5	0.4	0.0	0.0	0.0	6.0	2.1
ESE	1.1	0.4	0.4	0.0	0.0	0.0	1.9	1.9
SE	1.5	1.1	0.0	0.0	0.0	0.0	2.6	1.4
SSE	0.7	1.5	0.0	0.0	0.0	0.0	2.2	1.5
S	1.5	1.9	0.0	0.0	0.0	0.0	3.4	1.4
SSW	1.1	2.2	0.0	0.0	0.0	0.0	3.4	1.6
SW	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.7
WSW	1.5	2.6	0.0	0.0	0.0	0.0	4.1	1.8
W	2.6	1.9	0.0	0.0	0.0	0.0	4.5	1.4
WNW	6.0	3.0	0.0	0.0	0.0	0.0	9.0	1.3
NW	6.0	2.6	0.0	0.0	0.0	0.0	8.6	1.4
NNW	6.4	0.4	0.0	0.0	0.0	0.0	6.7	0.9
All	36.0	54.7	5.2	1.5	0.0	0.0	97.4	1.9

Calms (< 0.447 m/s): 2.6%
Mean wind speed: 1.9 m/s
Percent Occurence for this Stability Class: 12.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
West Plant, Resolution
10/01/12 - 12/31/12
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	9.4	1.0	0.0	0.0	0.0	0.0	10.4	1.0
NNE	13.0	7.2	0.0	0.0	0.0	0.0	20.2	1.2
NE	12.4	7.0	0.0	0.0	0.0	0.0	19.4	1.3
ENE	3.1	0.3	0.0	0.0	0.0	0.0	3.4	1.1
E	1.0	0.3	0.0	0.0	0.0	0.0	1.3	1.1
ESE	0.5	0.2	0.0	0.0	0.0	0.0	0.7	0.9
SE	0.2	0.2	0.0	0.0	0.0	0.0	0.3	1.5
SSE	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6
S	0.5	0.2	0.0	0.0	0.0	0.0	0.7	1.1
SSW	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.6
SW	0.7	0.3	0.0	0.0	0.0	0.0	1.0	1.1
WSW	2.1	0.3	0.0	0.0	0.0	0.0	2.4	0.8
W	3.9	0.5	0.0	0.0	0.0	0.0	4.4	0.9
WNW	4.7	1.1	0.0	0.0	0.0	0.0	5.9	1.0
NW	6.5	0.5	0.0	0.0	0.0	0.0	7.0	0.9
NNW	9.4	0.5	0.0	0.0	0.0	0.0	9.9	0.8
All	68.2	19.5	0.0	0.0	0.0	0.0	87.8	1.1

Calms (< 0.447 m/s): 12.2%
Mean wind speed: 1.1 m/s
Percent Occurence for this Stability Class: 27.8%

Appendix B: Monthly Wind Speed Frequencies and Instantaneous Daily Maximum Wind Speeds

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Oct-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	81.43	11.57	6.00	0.97	0.10	0.00	0.00	0.00	0.00	12.49	8:56
2	97.70	2.07	0.23	0.00	0.00	0.00	0.00	0.00	0.00	9.68	14:40
3	96.57	2.87	0.53	0.03	0.00	0.00	0.00	0.00	0.00	10.14	15:24
4	95.17	3.97	0.73	0.10	0.00	0.00	0.00	0.00	0.00	11.32	13:27
5	98.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.04	17:01
6	99.30	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.55	15:30
7	98.87	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.01	12:53
8	97.57	2.23	0.20	0.00	0.00	0.00	0.00	0.00	0.00	11.01	15:15
9	98.67	1.30	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.73	16:42
10	97.40	2.47	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.01	15:06
11	82.20	14.40	3.13	0.23	0.00	0.00	0.00	0.00	0.00	10.75	13:14
12	93.40	5.93	0.60	0.00	0.00	0.00	0.00	0.00	0.00	9.57	7:28
13	97.43	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.81	17:15
14	56.33	20.63	16.70	5.80	0.53	0.00	0.00	0.00	0.00	13.62	5:59
15	79.80	15.67	4.30	0.23	0.00	0.00	0.00	0.00	0.00	10.19	9:52
16	98.53	1.40	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.65	14:39
17	96.33	3.20	0.47	0.03	0.00	0.00	0.00	0.00	0.00	10.75	15:09
18	93.80	5.83	0.37	0.00	0.00	0.00	0.00	0.00	0.00	8.76	15:34
19	91.37	7.20	1.30	0.10	0.00	0.00	0.00	0.00	0.00	11.42	9:20
20	98.07	1.80	0.13	0.00	0.00	0.00	0.00	0.00	0.00	10.34	15:00
21	92.17	6.73	1.07	0.03	0.00	0.00	0.00	0.00	0.00	9.93	12:32
22	98.53	1.43	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.53	12:44
23	98.07	1.80	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.70	13:11
24	96.30	2.97	0.63	0.10	0.00	0.00	0.00	0.00	0.00	10.75	15:40
25	88.07	10.07	1.77	0.07	0.00	0.00	0.00	0.00	0.00	10.24	8:07
26	14.30	19.97	23.37	20.50	14.13	6.33	1.27	0.07	0.00	18.53	8:09
27	35.37	16.63	21.43	18.77	6.97	0.80	0.03	0.00	0.00	16.08	8:47
28	80.53	13.83	5.17	0.47	0.00	0.00	0.00	0.00	0.00	11.72	5:54
29	99.17	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.78	14:13
30	98.83	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	13:43
31	99.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.86	14:06
All	88.71	5.93	2.86	1.53	0.70	0.23	0.04	0.00	0.00	18.53	8:09

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Nov-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	99.17	0.80	0.03	0.00	0.00	0.00	0.00	0.00	0.00	9.93	15:33
2	99.30	0.67	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.99	13:02
3	98.93	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	17:19
4	87.00	10.97	2.03	0.00	0.00	0.00	0.00	0.00	0.00	9.52	10:33
5	69.57	16.73	11.23	2.40	0.10	0.00	0.00	0.00	0.00	12.08	0:32
6	98.23	1.73	0.07	0.00	0.00	0.00	0.00	0.00	0.00	9.16	4:37
7	98.20	1.67	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.81	13:33
8	96.80	2.83	0.20	0.03	0.07	0.03	0.00	0.00	0.00	18.74	16:15
9	62.07	23.83	9.23	3.33	1.20	0.33	0.03	0.00	0.00	16.84	15:42
10	87.90	8.97	2.53	0.50	0.07	0.00	0.00	0.00	0.00	13.47	18:43
11	94.33	2.70	1.60	1.13	0.23	0.00	0.00	0.00	0.00	14.28	23:57
12	8.00	19.57	24.33	23.93	16.20	6.67	1.20	0.07	0.00	19.15	4:28
13	28.80	24.50	26.47	15.30	4.53	0.43	0.00	0.00	0.00	15.46	7:15
14	49.00	28.97	18.20	3.73	0.13	0.00	0.00	0.00	0.00	13.26	5:31
15	88.47	10.77	0.77	0.00	0.00	0.00	0.00	0.00	0.00	9.27	9:26
16	99.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45	13:05
17	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	19:25
18	99.47	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.40	15:41
19	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	11:33
20	81.80	10.73	5.53	1.80	0.13	0.00	0.00	0.00	0.00	12.44	9:14
21	96.10	3.43	0.47	0.00	0.00	0.00	0.00	0.00	0.00	9.06	3:57
22	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.27	10:37
23	54.07	28.77	15.10	2.00	0.03	0.00	0.00	0.00	0.00	12.13	9:52
24	44.17	25.50	21.20	7.97	1.13	0.03	0.00	0.00	0.00	14.44	5:13
25	99.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	15:40
26	99.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.53	14:42
27	74.47	22.80	2.73	0.00	0.00	0.00	0.00	0.00	0.00	9.32	10:21
28	90.27	9.23	0.50	0.00	0.00	0.00	0.00	0.00	0.00	8.76	4:22
29	99.63	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.71	13:07
30	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.22	18:15
All	83.50	8.59	4.75	2.07	0.79	0.25	0.04	0.00	0.00	19.15	4:28

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Dec-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	99.27	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	16:56
2	99.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.73	14:37
3	99.93	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20	15:37
4	84.37	12.00	3.37	0.23	0.00	0.00	0.00	0.00	0.00	10.70	12:25
5	70.67	16.97	10.77	1.57	0.03	0.00	0.00	0.00	0.00	11.98	5:54
6	99.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	15:42
7	99.63	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63	15:50
8	99.43	0.50	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.63	16:08
9	82.70	3.57	4.20	5.67	3.13	0.67	0.07	0.00	0.00	17.15	23:02
10	45.23	15.63	14.90	15.27	7.83	1.10	0.07	0.00	0.00	16.59	5:00
11	82.50	11.57	4.30	1.33	0.30	0.03	0.00	0.00	0.00	15.51	5:06
12	99.10	0.87	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.45	13:27
13	92.50	6.03	1.23	0.20	0.03	0.00	0.00	0.00	0.00	12.75	13:55
14	62.93	21.53	10.03	3.63	1.27	0.40	0.07	0.03	0.00	20.22	2:25
15	62.00	25.73	9.83	2.10	0.40	0.00	0.00	0.00	0.00	13.82	14:18
16	99.10	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.73	5:08
17	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.86	13:04
18	92.13	5.33	1.70	0.57	0.23	0.07	0.00	0.00	0.00	15.77	23:53
19	87.80	7.57	2.83	1.10	0.50	0.17	0.03	0.00	0.00	19.25	0:13
20	8.73	22.97	35.03	24.40	7.83	1.03	0.03	0.00	0.00	15.72	9:47
21	38.23	22.73	24.10	12.50	2.37	0.03	0.00	0.00	0.00	13.88	6:23
22	89.97	8.80	1.20	0.07	0.00	0.00	0.00	0.00	0.00	10.60	3:41
23	99.77	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	16:48
24	96.47	3.03	0.50	0.03	0.00	0.00	0.00	0.00	0.00	11.01	15:59
25	74.93	18.17	6.57	0.30	0.00	0.00	0.00	0.00	0.00	10.29	8:05
26	98.87	1.10	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.09	15:26
27	99.00	0.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.11	13:17
28	94.30	4.77	0.83	0.10	0.00	0.00	0.00	0.00	0.00	11.01	23:35
29	63.00	25.13	10.07	1.67	0.13	0.00	0.00	0.00	0.00	12.29	3:46
30	98.47	1.27	0.20	0.07	0.00	0.00	0.00	0.00	0.00	10.96	19:20
31	92.60	5.27	1.90	0.23	0.00	0.00	0.00	0.00	0.00	11.88	4:01
All	84.30	7.87	4.64	2.29	0.78	0.11	0.01	0.00	0.00	20.22	2:25

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Oct-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	83.50	12.77	3.20	0.50	0.03	0.00	0.00	0.00	0.00	12.65	0:02
2	85.90	12.93	1.17	0.00	0.00	0.00	0.00	0.00	0.00	9.37	14:59
3	90.10	7.73	2.10	0.03	0.03	0.00	0.00	0.00	0.00	12.03	14:35
4	91.27	7.13	1.57	0.07	0.00	0.00	0.00	0.00	0.00	10.09	15:49
5	96.40	3.53	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.19	12:56
6	95.43	4.47	0.10	0.00	0.00	0.00	0.00	0.00	0.00	9.63	15:15
7	95.93	3.97	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.60	16:43
8	92.77	6.87	0.37	0.00	0.00	0.00	0.00	0.00	0.00	9.27	15:07
9	97.47	2.40	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.50	13:23
10	95.43	4.40	0.23	0.00	0.00	0.00	0.00	0.00	0.00	8.65	16:29
11	74.53	18.37	5.80	1.07	0.13	0.03	0.00	0.00	0.00	14.39	9:59
12	87.60	11.40	1.00	0.03	0.00	0.00	0.00	0.00	0.00	15.16	10:27
13	99.20	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	11:05
14	84.77	12.60	2.27	0.33	0.03	0.00	0.00	0.00	0.00	12.54	8:44
15	75.73	15.80	6.43	1.70	0.33	0.03	0.00	0.00	0.00	14.69	5:10
16	98.27	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.94	13:55
17	92.77	6.77	0.47	0.00	0.00	0.00	0.00	0.00	0.00	10.29	12:19
18	95.73	4.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	7.63	13:16
19	89.80	6.53	3.10	0.57	0.00	0.00	0.00	0.00	0.00	10.96	6:47
20	89.50	8.63	1.80	0.07	0.00	0.00	0.00	0.00	0.00	10.60	15:24
21	84.90	12.67	2.37	0.07	0.00	0.00	0.00	0.00	0.00	10.29	12:19
22	97.00	3.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.27	10:52
23	93.97	5.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	9.68	11:31
24	87.53	10.27	2.07	0.10	0.00	0.00	0.00	0.00	0.00	14.03	14:00
25	98.93	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	12:15
26	28.83	24.80	23.83	14.43	6.30	1.53	0.20	0.00	0.00	19.35	5:19
27	43.00	20.97	19.73	12.40	3.47	0.37	0.00	0.00	0.00	15.72	4:52
28	88.83	8.30	2.37	0.53	0.00	0.00	0.00	0.00	0.00	11.72	1:53
29	93.27	6.13	0.60	0.00	0.00	0.00	0.00	0.00	0.00	8.60	8:08
30	95.93	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	11:52
31	93.70	5.30	0.83	0.13	0.00	0.00	0.00	0.00	0.00	10.39	7:14
All	87.68	8.24	2.65	1.03	0.33	0.06	0.01	0.00	0.00	19.35	5:19

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Nov-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	87.77	12.03	0.23	0.00	0.00	0.00	0.00	0.00	0.00	8.19	13:58
2	90.50	9.07	0.43	0.00	0.00	0.00	0.00	0.00	0.00	8.60	8:01
3	96.63	3.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.70	15:16
4	94.73	3.50	1.57	0.20	0.00	0.00	0.00	0.00	0.00	10.55	5:00
5	95.60	3.87	0.50	0.03	0.00	0.00	0.00	0.00	0.00	10.24	11:04
6	99.40	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.81	10:30
7	87.37	11.93	0.70	0.00	0.00	0.00	0.00	0.00	0.00	9.37	13:16
8	94.00	5.13	0.70	0.13	0.03	0.00	0.00	0.00	0.00	13.11	16:14
9	54.87	25.30	13.87	4.93	0.93	0.10	0.00	0.00	0.00	14.75	21:53
10	79.07	17.20	3.60	0.17	0.00	0.00	0.00	0.00	0.00	11.67	20:13
11	98.07	1.40	0.37	0.13	0.03	0.00	0.00	0.00	0.00	15.05	23:11
12	43.13	12.23	9.93	11.37	11.30	7.67	3.27	0.87	0.20	23.91	2:10
13	58.30	19.63	10.83	5.67	3.40	1.67	0.37	0.03	0.00	19.15	8:22
14	68.13	18.10	7.47	4.13	1.57	0.50	0.07	0.00	0.00	18.84	4:37
15	93.63	6.27	0.10	0.00	0.00	0.00	0.00	0.00	0.00	7.83	12:08
16	96.33	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	6:17
17	86.47	11.37	2.13	0.07	0.00	0.00	0.00	0.00	0.00	9.73	7:50
18	96.43	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	10:35
19	92.10	7.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	8.50	5:52
20	87.37	10.83	1.57	0.23	0.03	0.00	0.00	0.00	0.00	12.70	23:48
21	95.37	4.13	0.43	0.07	0.00	0.00	0.00	0.00	0.00	11.52	0:05
22	99.13	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.81	6:42
23	73.27	14.13	8.03	3.90	0.60	0.03	0.00	0.00	0.00	15.10	22:30
24	67.80	22.73	6.33	2.33	0.73	0.13	0.03	0.00	0.00	16.79	9:45
25	78.40	20.77	0.83	0.00	0.00	0.00	0.00	0.00	0.00	8.91	5:07
26	99.63	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	14:36
27	79.87	16.10	3.30	0.67	0.07	0.00	0.00	0.00	0.00	13.06	22:36
28	85.87	10.70	2.87	0.50	0.07	0.00	0.00	0.00	0.00	13.00	0:51
29	99.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.71	14:05
30	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.48	6:33
All	85.95	9.22	2.56	1.15	0.63	0.34	0.12	0.03	0.01	23.91	2:10

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Dec-12

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	98.90	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.22	8:01
2	96.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17	4:09
3	99.63	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.58	13:04
4	93.30	5.00	1.40	0.30	0.03	0.00	0.00	0.00	0.00	11.98	11:58
5	97.70	1.93	0.33	0.03	0.00	0.00	0.00	0.00	0.00	10.80	10:13
6	98.27	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	15:41
7	98.53	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	14:12
8	98.30	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63	13:36
9	79.50	10.07	4.70	3.73	1.67	0.33	0.03	0.00	0.00	16.38	22:17
10	74.60	10.00	9.07	4.90	1.33	0.17	0.00	0.00	0.00	14.95	0:26
11	86.90	10.20	2.53	0.33	0.00	0.00	0.00	0.00	0.00	12.19	11:20
12	60.70	24.67	12.97	1.57	0.07	0.00	0.00	0.00	0.00	13.57	8:35
13	69.87	22.47	6.63	0.90	0.13	0.03	0.00	0.00	0.00	13.93	22:33
14	82.33	14.67	2.50	0.43	0.07	0.03	0.00	0.00	0.00	14.95	3:27
15	95.73	4.03	0.23	0.00	0.00	0.00	0.00	0.00	0.00	8.40	14:08
16	99.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	13:08
17	97.53	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	22:14
18	84.10	12.00	3.73	0.17	0.00	0.00	0.00	0.00	0.00	11.98	23:04
19	88.60	7.70	2.93	0.67	0.07	0.00	0.00	0.00	0.00	13.36	0:47
20	76.70	17.60	4.33	1.13	0.17	0.03	0.00	0.00	0.00	15.00	21:51
21	56.87	24.80	11.57	4.70	1.50	0.43	0.10	0.00	0.00	17.51	10:17
22	89.23	8.70	1.87	0.23	0.03	0.00	0.00	0.00	0.00	13.47	2:56
23	99.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.40	8:49
24	96.30	3.63	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.04	14:28
25	90.20	6.47	2.90	0.40	0.00	0.00	0.00	0.00	0.00	11.47	13:22
26	93.53	6.07	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.96	7:23
27	99.43	0.40	0.13	0.03	0.00	0.00	0.00	0.00	0.00	11.21	13:10
28	94.53	3.70	1.33	0.43	0.03	0.00	0.00	0.00	0.00	13.88	22:09
29	59.73	23.00	10.40	4.17	1.70	0.77	0.17	0.03	0.00	20.53	10:32
30	82.37	15.10	2.33	0.20	0.00	0.00	0.00	0.00	0.00	11.88	0:31
31	98.00	1.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	7.94	14:41
All	88.29	7.97	2.66	0.78	0.22	0.06	0.01	0.00	0.00	20.53	10:32

Appendix C: Meteorological Data - Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.9	2.5	1.3	2.1	1.2	2.9	5.6	6.2	7.0	6.7	5.8	4.1	2.7	2.2	2.3	2.3	2.1	3.0	0.8	0.6	0.3	1.0	1.4	1.3	2.9	7.0	0.3
2	1.2	1.4	1.7	2.1	1.5	1.7	1.8	1.7	1.9	2.4	2.1	1.9	3.0	2.4	3.5	2.9	2.5	1.8	1.4	1.5	1.2	1.3	1.1	1.7	1.9	3.5	1.1
3	1.9	0.9	0.4	0.5	0.5	0.5	0.7	0.4	0.8	1.2	1.9	3.1	3.1	3.1	3.1	3.3	2.5	2.0	2.4	1.2	0.7	0.5	0.7	0.4	1.5	3.3	0.4
4	0.8	0.6	0.4	0.5	0.3	0.2	0.5	0.5	1.9	2.9	2.6	2.6	2.9	3.2	3.4	2.6	4.0	3.5	2.5	2.7	3.0	2.4	1.0	1.4	1.9	4.0	0.2
5	0.7	0.8	0.5	0.8	0.8	0.9	1.1	0.5	1.4	1.7	2.5	2.4	2.3	2.9	2.5	2.1	2.2	1.8	1.1	0.5	0.8	1.0	1.0	1.2	1.4	2.9	0.5
6	0.6	0.6	0.8	0.8	0.8	0.7	1.4	0.6	0.9	2.1	2.1	2.2	2.4	2.3	2.5	1.9	1.8	1.4	0.6	0.3	0.7	0.3	0.3	0.4	1.2	2.5	0.3
7	0.5	0.3	0.7	0.7	0.7	0.9	0.7	0.7	1.1	1.1	1.4	2.1	2.8	2.5	2.5	2.3	2.5	2.0	2.0	0.8	0.8	0.7	0.8	0.8	1.3	2.8	0.3
8	0.6	0.6	0.7	0.7	0.8	0.6	0.9	0.8	1.6	2.4	2.5	3.1	3.2	2.7	3.1	2.5	2.5	1.9	1.3	0.5	0.7	0.7	0.8	0.9	1.5	3.2	0.5
9	0.4	0.6	0.4	1.2	0.7	0.2	0.8	1.2	1.5	1.8	1.9	2.5	2.5	2.6	2.2	2.7	2.2	1.8	2.0	1.8	0.4	0.8	0.9	0.8	1.4	2.7	0.2
10	1.0	0.5	0.8	0.5	0.5	0.5	0.4	0.7	0.8	1.8	2.5	3.1	3.4	3.3	3.2	2.4	2.2	1.6	1.0	1.0	0.7	2.1	1.7	2.5	1.6	3.4	0.4
11	1.6	0.6	0.6	0.4	0.8	1.0	1.1	1.3	2.9	5.1	5.1	5.0	4.4	5.1	4.3	5.7	3.4	3.3	3.5	2.9	4.0	3.2	1.5	2.2	2.9	5.7	0.4
12	2.2	2.8	3.5	3.1	3.7	3.2	3.7	2.7	2.2	2.6	3.3	3.0	2.8	2.6	2.6	2.2	1.8	1.9	1.6	1.7	0.7	1.2	1.8	1.7	2.4	3.7	0.7
13	1.5	1.2	1.0	0.6	0.9	0.7	1.0	1.0	0.8	2.1	2.8	3.4	3.3	2.9	2.6	1.6	2.2	4.0	4.1	3.5	2.2	0.4	0.5	1.2	1.9	4.1	0.4
14	2.7	2.6	2.5	6.0	6.1	7.9	7.5	7.6	7.7	7.7	7.2	5.0	4.8	5.8	5.9	5.7	4.3	2.6	2.0	2.0	1.2	1.2	2.3	3.5	4.7	7.9	1.2
15	3.7	3.8	4.6	4.1	4.7	3.2	3.1	5.2	5.2	6.9	6.0	4.4	2.5	2.2	1.9	1.5	2.1	2.4	2.3	1.4	0.7	1.3	1.0	1.2	3.1	6.9	0.7
16	1.3	0.5	1.0	1.2	1.9	1.1	0.9	0.7	0.8	1.3	3.2	3.3	2.8	2.8	2.8	2.7	2.7	1.9	1.9	1.6	0.5	0.7	2.0	2.1	1.7	3.3	0.5
17	1.9	1.9	0.8	0.5	0.9	0.8	0.7	0.6	0.8	1.2	2.2	2.9	2.9	3.4	3.3	3.5	2.8	2.7	2.1	1.7	1.9	1.4	1.2	2.2	1.9	3.5	0.5
18	2.2	2.7	2.5	1.8	1.6	1.2	1.0	0.7	1.3	2.5	2.3	2.7	2.9	2.8	3.6	3.3	3.4	4.0	4.4	3.8	3.2	2.8	2.8	1.6	2.5	4.4	0.7
19	0.9	0.9	1.1	1.0	1.7	1.9	1.6	2.6	3.3	5.8	5.4	3.2	2.5	2.9	3.3	2.8	2.5	3.2	4.4	2.9	1.1	0.8	2.0	0.5	2.4	5.8	0.5
20	0.4	0.5	1.1	1.2	0.9	0.5	0.8	1.9	1.8	2.2	2.3	2.8	3.2	2.3	2.6	2.4	2.3	1.7	1.1	0.6	0.6	0.6	0.6	2.7	1.5	3.2	0.4
21	2.6	1.9	2.0	1.4	0.6	0.6	0.4	0.7	1.9	3.6	3.8	3.8	5.0	3.7	3.3	2.8	2.8	2.9	2.4	2.3	2.6	2.6	1.8	1.4	2.4	5.0	0.4
22	1.5	1.2	0.9	1.0	1.0	0.3	0.5	0.7	1.0	2.3	3.2	2.9	3.3	2.4	2.8	2.2	2.2	2.0	1.7	0.4	0.8	1.4	1.1	0.6	1.5	3.3	0.3
23	1.3	1.6	1.7	0.2	0.5	0.5	0.9	0.9	1.4	2.1	2.7	2.7	3.2	2.6	2.6	2.4	2.8	1.5	1.0	0.4	0.3	0.8	1.0	0.8	1.5	3.2	0.2
24	0.9	1.4	0.6	0.5	0.8	0.7	0.4	0.4	1.5	2.2	2.5	2.3	2.9	3.6	3.5	2.9	2.6	2.1	1.9	2.6	1.7	2.6	1.1	0.9	1.8	3.6	0.4
25	0.8	1.0	0.9	1.0	1.2	3.4	1.6	3.8	5.7	5.2	5.2	3.6	2.6	2.6	2.9	2.8	3.0	2.5	4.3	2.5	2.0	0.6	1.0	2.9	2.6	5.7	0.6
26	6.0	9.7	11.2	11.1	10.4	10.9	10.6	11.4	12.0	11.5	10.3	8.9	8.1	7.7	6.8	6.9	6.5	5.7	5.3	4.2	4.2	5.6	7.9	9.1	8.4	12.0	4.2
27	8.8	9.1	9.5	9.1	7.2	9.4	9.8	9.4	9.3	9.3	9.6	7.9	7.6	6.5	5.8	5.1	4.0	2.3	2.1	2.8	4.1	3.3	3.6	2.9	6.6	9.8	2.1
28	2.9	3.3	3.7	4.9	3.9	5.5	4.1	4.6	5.6	5.7	6.3	4.2	1.8	1.6	2.6	2.0	1.8	1.3	1.2	0.8	0.4	0.6	0.6	0.8	2.9	6.3	0.4
29	1.1	0.6	0.6	1.1	2.0	2.0	1.4	1.3	2.0	1.6	1.7	2.4	2.1	2.6	2.2	2.1	2.3	2.9	3.7	2.1	0.6	0.7	1.2	0.9	1.7	3.7	0.6
30	0.8	0.7	1.8	1.6	1.7	1.9	1.9	1.8	1.5	1.5	1.5	2.7	3.1	2.8	2.5	2.7	3.0	3.6	3.3	1.2	0.5	0.6	0.5	0.5	1.8	3.6	0.5
31	0.5	1.3	1.0	1.2	1.3	2.0	2.0	1.3	2.1	2.4	1.9	1.9	3.0	2.5	2.1	2.1	1.8	2.0	1.5	0.5	0.5	0.6	0.5	0.9	1.5	3.0	0.5
Avg	1.8	1.9	1.9	2.0	2.0	2.2	2.2	2.4	2.9	3.5	3.7	3.4	3.3	3.2	3.2	2.9	2.7	2.5	2.3	1.7	1.4	1.4	1.5	1.7	2.4	--	--
Max	8.8	9.7	11.2	11.1	10.4	10.9	10.6	11.4	12.0	11.5	10.3	8.9	8.1	7.7	6.8	6.9	6.5	5.7	5.3	4.2	4.2	5.6	7.9	9.1	--	12.0	--
Min	0.4	0.3	0.4	0.2	0.3	0.2	0.4	0.4	0.8	1.1	1.4	1.9	1.8	1.6	1.9	1.5	1.8	1.3	0.6	0.3	0.3	0.3	0.3	0.4	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.0	0.8	1.0	0.9	1.1	1.2	1.6	1.5	1.6	1.7	2.0	1.6	2.6	2.5	2.2	3.0	2.4	2.4	2.1	1.4	0.6	0.7	0.4	0.8	1.5	3.0	0.4
2	0.6	0.5	0.6	0.8	1.1	1.3	1.0	1.0	1.3	1.5	2.1	1.9	1.7	2.8	2.4	2.5	2.2	2.5	2.1	0.8	0.6	1.0	0.8	0.6	1.4	2.8	0.5
3	0.5	0.8	1.2	1.0	1.2	1.0	1.4	1.4	2.3	2.0	1.8	2.5	2.0	2.3	2.0	1.7	2.2	3.3	3.7	2.1	0.5	1.4	1.1	1.4	1.7	3.7	0.5
4	1.5	1.9	2.4	2.9	3.7	3.5	2.6	2.6	4.6	5.4	5.9	5.4	4.3	2.8	1.4	2.0	2.5	3.0	3.2	1.1	0.9	1.7	2.0	2.3	2.9	5.9	0.9
5	5.3	7.6	7.2	4.7	2.8	2.9	4.3	5.2	5.5	6.6	6.1	6.5	4.6	1.7	1.7	2.2	1.8	2.7	2.3	0.7	1.2	1.7	1.6	1.3	3.7	7.6	0.7
6	1.4	1.8	2.3	2.6	2.8	2.3	2.7	3.3	3.2	3.7	4.0	1.7	2.0	2.6	2.4	1.8	2.1	2.5	2.9	1.3	0.5	0.9	0.9	0.5	2.2	4.0	0.5
7	0.6	1.0	1.7	1.7	1.8	1.3	1.5	1.8	2.2	2.6	2.3	2.2	2.4	3.8	2.7	2.5	1.6	1.4	1.1	0.8	1.7	1.6	0.5	0.9	1.7	3.8	0.5
8	1.2	0.6	0.4	0.3	0.6	0.6	0.1	0.3	0.7	1.2	2.6	3.8	3.2	3.1	2.2	2.3	2.9	1.4	1.7	1.7	2.7	1.6	1.7	0.8	1.6	3.8	0.1
9	2.5	4.5	4.9	4.9	4.7	5.2	4.2	2.8	4.3	3.9	3.3	3.9	3.1	5.6	6.3	6.1	6.3	5.7	5.7	5.3	5.3	4.7	4.9	4.0	4.7	6.3	2.5
10	3.7	2.8	3.2	3.7	2.9	2.6	1.5	1.8	3.0	3.1	2.7	2.5	2.8	4.3	3.5	4.5	3.1	2.8	3.8	2.8	3.8	1.3	1.0	1.3	2.9	4.5	1.0
11	1.8	1.8	1.4	2.2	1.8	1.1	0.7	0.5	0.7	1.2	1.9	3.0	2.7	2.7	2.5	2.9	2.9	2.2	1.1	1.2	1.4	1.8	4.1	7.9	2.1	7.9	0.5
12	8.5	9.2	10.2	11.1	11.6	10.6	9.9	9.7	10.5	11.4	11.2	11.3	10.9	10.1	8.3	7.5	6.5	5.3	5.4	4.9	6.2	6.7	7.3	9.1	8.9	11.6	4.9
13	9.2	8.7	7.0	8.6	6.5	9.4	8.3	10.3	8.0	7.7	6.9	7.5	8.2	7.2	7.1	6.7	5.5	3.0	1.8	3.1	4.3	3.6	4.5	5.2	6.6	10.3	1.8
14	4.4	4.6	5.4	6.7	6.5	7.3	6.6	6.8	6.0	6.9	6.8	7.2	6.9	5.8	5.6	4.7	5.1	2.5	1.9	1.7	1.8	1.7	1.3	1.4	4.8	7.3	1.3
15	2.1	2.8	2.5	2.6	2.2	3.2	3.3	3.6	4.4	5.1	4.8	4.8	4.1	3.8	4.1	3.7	2.5	2.0	1.2	1.7	1.2	1.3	1.3	2.0	2.9	5.1	1.2
16	1.3	1.7	1.9	2.0	2.4	1.8	1.6	1.3	1.8	2.0	1.8	2.0	2.6	2.2	1.9	1.7	1.6	2.4	2.3	2.0	0.3	0.7	0.3	0.7	1.7	2.6	0.3
17	0.8	0.8	0.8	1.0	1.6	1.7	1.4	1.4	1.5	1.6	2.2	3.0	2.2	1.9	2.3	2.2	1.8	1.1	1.7	3.3	1.4	0.9	0.5	1.1	1.6	3.3	0.5
18	0.5	0.5	0.4	0.6	0.8	1.0	0.9	1.1	1.0	2.2	2.9	3.0	2.4	2.3	2.7	2.4	1.9	1.0	0.8	0.6	0.8	0.9	0.8	0.8	1.3	3.0	0.4
19	0.7	0.7	0.6	1.3	1.0	1.4	1.4	1.7	1.4	2.0	1.7	2.5	1.9	2.3	1.7	1.5	1.2	2.5	0.9	0.7	1.0	1.1	1.0	1.3	1.4	2.5	0.6
20	1.6	2.0	1.4	1.8	2.7	2.9	3.1	4.9	6.7	8.2	6.7	4.8	4.2	3.6	3.6	3.6	3.0	2.3	2.2	2.2	2.8	1.8	1.2	1.8	3.3	8.2	1.2
21	1.9	2.2	2.8	5.0	4.4	2.6	2.5	2.1	2.8	2.9	2.8	2.6	2.0	2.7	2.3	1.9	1.4	1.3	2.1	0.9	0.8	1.0	0.4	0.9	2.2	5.0	0.4
22	0.6	0.6	0.7	1.1	1.4	1.5	2.2	2.4	1.7	2.0	2.0	1.3	2.1	2.9	2.8	2.6	3.0	3.6	1.4	1.0	1.7	1.6	2.0	2.4	1.8	3.6	0.6
23	3.1	2.6	2.7	2.7	2.7	3.0	3.0	2.5	3.7	6.3	7.0	7.4	7.2	7.4	6.8	6.3	5.9	5.6	4.6	3.2	5.4	5.9	6.1	3.8	4.8	7.4	2.5
24	4.6	5.4	5.3	6.1	7.4	7.5	7.5	7.7	7.1	8.4	8.1	7.1	7.7	7.2	6.2	5.6	4.0	2.2	1.8	2.1	2.0	1.9	1.7	1.6	5.3	8.4	1.6
25	1.6	1.8	2.1	2.2	2.2	2.2	2.3	2.5	2.0	2.8	2.9	2.3	2.1	2.5	2.6	2.2	1.8	2.6	1.5	0.5	0.9	0.3	0.4	0.6	1.9	2.9	0.3
26	0.5	0.5	0.4	0.4	0.8	0.6	0.9	0.9	0.8	1.1	1.1	1.6	2.3	1.8	2.3	2.6	2.4	2.5	1.0	1.0	1.0	1.3	1.6	1.4	1.3	2.6	0.4
27	1.6	2.1	1.6	1.8	1.9	1.8	2.1	3.1	3.9	5.2	6.1	5.7	5.5	4.9	5.6	5.2	5.0	4.6	4.1	3.3	2.5	2.6	2.7	2.9	3.6	6.1	1.6
28	3.0	2.4	2.2	4.2	4.8	4.4	3.9	3.0	2.9	3.8	4.5	4.5	3.5	2.3	2.9	2.1	1.7	2.1	1.7	1.3	0.7	0.7	0.4	0.5	2.7	4.8	0.4
29	0.7	0.8	0.6	0.7	1.0	0.9	0.9	0.9	0.5	1.0	1.7	2.3	3.0	2.8	2.9	1.9	1.8	2.2	3.4	1.9	1.1	0.9	0.4	0.4	1.4	3.4	0.4
30	0.7	0.4	0.7	0.7	0.9	0.6	1.1	1.0	0.8	0.8	1.7	1.8	2.4	2.1	1.7	1.8	2.2	3.2	3.9	2.4	1.3	0.9	0.7	1.2	1.4	3.9	0.4
Avg	2.2	2.5	2.5	2.9	2.9	2.9	2.8	3.0	3.2	3.8	3.9	3.9	3.8	3.7	3.4	3.3	2.9	2.7	2.4	1.9	1.9	1.8	1.8	2.0	2.8	--	--
Max	9.2	9.2	10.2	11.1	11.6	10.6	9.9	10.3	10.5	11.4	11.2	11.3	10.9	10.1	8.3	7.5	6.5	5.7	5.7	5.3	6.2	6.7	7.3	9.1	--	11.6	--
Min	0.5	0.4	0.4	0.3	0.6	0.6	0.1	0.3	0.5	0.8	1.1	1.3	1.7	1.7	1.4	1.5	1.2	1.0	0.8	0.5	0.3	0.3	0.3	0.4	--	--	0.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.9	0.9	1.1	1.2	1.0	1.6	1.7	1.8	1.9	1.9	1.4	1.4	2.2	2.6	2.3	2.0	3.2	4.1	2.0	1.7	0.7	0.7	0.7	0.9	1.6	4.1	0.7
2	0.6	1.0	0.8	0.9	0.9	0.7	1.2	1.2	0.9	1.4	2.2	2.0	2.6	2.0	2.5	1.9	1.7	1.7	1.4	0.8	0.5	1.0	0.4	0.9	1.3	2.6	0.4
3	1.0	1.8	1.0	1.1	0.8	0.6	0.8	1.0	0.8	0.6	1.8	2.4	2.1	2.0	1.9	2.4	1.8	1.5	1.9	0.9	1.0	0.6	1.0	0.9	1.3	2.4	0.6
4	1.2	1.4	2.2	1.6	2.2	2.5	2.7	3.4	3.3	3.9	5.2	6.2	6.3	4.2	1.7	1.9	1.3	3.4	4.6	3.8	3.3	3.9	3.7	2.9	3.2	6.3	1.2
5	3.0	3.2	3.4	6.0	7.2	7.4	7.1	4.6	5.2	5.8	5.9	5.9	4.3	3.0	1.8	1.2	1.6	2.6	1.0	0.8	0.6	0.7	0.4	0.5	3.5	7.4	0.4
6	0.6	0.3	0.4	0.8	0.4	1.1	1.0	1.0	0.9	0.8	1.4	1.6	2.2	2.2	1.9	2.2	2.1	1.8	1.5	1.2	0.8	0.4	1.4	1.6	1.2	2.2	0.3
7	1.1	0.9	0.6	0.4	0.7	0.7	0.6	0.7	0.4	0.6	1.9	2.6	2.2	2.3	1.9	2.2	1.8	1.6	1.2	0.4	0.8	0.5	0.5	0.7	1.1	2.6	0.4
8	0.3	0.6	0.3	0.5	0.4	0.6	0.5	0.8	0.8	1.1	1.6	2.1	2.3	2.5	2.2	2.0	2.3	1.6	0.6	0.5	0.4	0.4	0.6	0.6	1.1	2.5	0.3
9	0.3	0.9	1.1	0.5	0.2	0.2	0.3	0.3	0.4	1.4	2.3	2.6	2.6	2.6	2.6	2.8	2.6	2.2	2.5	2.7	6.6	9.5	10.2	10.1	2.8	10.2	0.2
10	10.0	9.5	9.4	9.7	9.6	10.4	8.4	9.1	9.1	7.9	6.0	5.7	5.5	4.0	2.0	2.6	4.5	4.6	4.8	1.7	0.7	1.0	1.4	1.6	5.8	10.4	0.7
11	1.9	1.8	2.1	1.9	4.7	7.6	3.3	4.4	3.8	4.3	5.5	5.3	5.6	3.5	2.4	1.3	1.3	1.2	1.0	0.7	0.8	1.2	1.3	1.2	2.8	7.6	0.7
12	1.4	1.8	1.7	1.9	1.7	2.0	1.9	2.2	1.9	2.4	3.5	3.2	2.9	3.3	2.9	2.6	2.5	1.3	1.2	1.3	1.2	1.5	1.1	0.6	2.0	3.5	0.6
13	2.1	2.1	0.6	0.8	1.1	0.6	1.1	0.9	0.7	2.4	3.8	3.6	3.2	4.4	2.8	1.4	2.2	1.6	0.9	1.0	2.3	3.0	4.9	3.0	2.1	4.9	0.6
14	3.5	3.0	8.4	7.5	3.7	6.5	6.7	5.8	6.8	5.5	4.7	5.8	4.9	3.5	2.1	1.0	1.3	1.8	3.2	3.7	4.9	4.6	3.6	3.0	4.4	8.4	1.0
15	4.4	3.6	3.6	5.8	5.2	4.4	5.3	6.3	4.6	4.7	4.1	4.8	4.6	4.0	5.3	3.8	4.6	5.1	5.2	6.2	5.1	3.1	3.4	2.4	4.6	6.3	2.4
16	2.0	1.0	2.3	2.5	2.4	2.1	2.0	0.8	1.2	1.5	1.5	2.4	2.2	2.0	2.4	1.9	1.8	1.3	2.2	2.0	1.1	0.5	0.6	0.7	1.7	2.5	0.5
17	0.4	0.8	1.2	1.4	1.1	1.0	0.6	0.6	0.7	1.6	2.3	1.7	1.9	2.2	2.0	1.8	1.1	1.1	1.2	1.2	0.9	0.9	0.7	0.7	1.2	2.3	0.4
18	0.5	0.7	1.1	1.4	1.0	0.6	1.2	1.4	1.7	1.7	2.5	2.9	3.0	2.3	2.1	1.7	1.4	2.1	2.1	2.1	4.1	5.2	5.1	6.2	2.3	6.2	0.5
19	6.9	4.0	4.7	3.3	2.8	2.5	2.8	1.8	1.9	2.1	2.0	2.5	2.6	2.8	2.5	2.6	1.8	2.0	2.8	1.1	1.3	3.0	5.0	5.1	2.9	6.9	1.1
20	6.3	7.7	6.6	9.7	7.9	7.6	7.4	7.0	7.4	8.8	9.8	9.3	9.5	8.8	8.6	8.9	8.3	7.5	7.1	7.5	7.8	8.1	7.4	7.4	8.0	9.8	6.3
21	7.6	7.5	6.8	7.1	5.8	7.0	8.5	8.1	7.5	7.2	7.9	8.6	8.5	7.3	7.0	5.9	4.4	3.6	2.9	2.7	3.4	3.4	3.3	3.7	6.1	8.6	2.7
22	4.5	3.9	4.3	5.7	4.7	3.3	3.9	3.4	3.4	3.0	3.3	3.0	2.2	2.8	2.6	3.1	2.1	1.0	0.6	0.5	0.9	0.4	0.5	0.7	2.6	5.7	0.4
23	0.5	0.4	1.0	0.9	0.8	1.3	0.7	1.0	0.9	0.7	1.5	1.4	2.5	1.8	1.1	1.1	2.4	3.8	1.5	1.7	0.3	0.8	1.5	1.0	1.3	3.8	0.3
24	0.8	0.8	1.1	0.6	0.9	0.9	0.5	0.9	0.6	0.9	2.5	1.9	2.5	2.8	2.6	3.5	2.2	1.9	2.5	2.9	3.2	2.3	2.0	1.2	1.8	3.5	0.5
25	1.8	2.3	2.2	1.6	0.6	1.2	1.1	3.9	6.1	5.1	6.1	6.1	5.8	4.8	5.5	4.5	4.8	3.2	2.7	2.7	2.4	2.7	3.0	2.5	3.4	6.1	0.6
26	1.4	1.4	2.0	2.4	2.4	2.2	1.7	2.4	1.6	1.2	2.4	2.3	3.2	3.1	2.3	3.2	2.3	1.8	2.2	2.0	1.9	1.8	1.4	0.8	2.1	3.2	0.8
27	0.6	0.7	0.6	0.6	0.7	0.6	0.4	0.6	0.7	0.7	1.5	1.5	1.6	2.5	0.8	1.4	2.5	2.2	2.0	1.1	0.6	0.5	0.6	0.4	1.1	2.5	0.4
28	0.5	0.4	0.3	0.2	0.5	0.4	1.1	1.3	2.0	3.3	4.5	4.0	2.5	1.5	1.9	1.5	2.3	2.6	1.6	1.0	1.7	3.3	3.7	5.2	2.0	5.2	0.2
29	4.7	4.2	4.6	7.8	5.5	5.0	5.7	5.5	5.5	5.7	6.0	6.6	5.2	4.9	4.4	4.0	3.5	2.1	2.0	1.9	2.1	2.0	1.8	1.6	4.3	7.8	1.6
30	1.9	1.9	1.5	1.4	1.3	1.5	1.3	1.1	1.1	0.9	1.9	3.0	3.5	2.2	2.0	1.9	1.6	1.9	2.4	3.6	2.2	2.2	1.3	0.0	1.8	3.6	0.0
31	0.0	2.8	2.4	4.7	6.4	4.1	3.2	1.7	2.0	2.0	1.8	1.5	3.3	1.8	1.7	2.3	1.4	1.4	0.9	1.1	1.5	1.0	0.4	0.7	2.1	6.4	0.0
Avg	2.3	2.4	2.6	3.0	2.7	2.8	2.7	2.7	2.8	2.9	3.5	3.7	3.7	3.2	2.8	2.6	2.5	2.4	2.2	2.0	2.1	2.3	2.3	2.2	2.7	--	--
Max	10.0	9.5	9.4	9.7	9.6	10.4	8.5	9.1	9.1	8.8	9.8	9.3	9.5	8.8	8.6	8.9	8.3	7.5	7.1	7.5	7.8	9.5	10.2	10.1	--	10.4	--
Min	0.0	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.6	1.4	1.4	1.6	1.5	0.8	1.0	1.1	1.0	0.6	0.4	0.3	0.4	0.4	0.0	--	--	0.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	43	53	130	107	85	50	37	36	38	32	27	61	139	157	76	91	77	35	50	209	123	173	136	119	82	209	27
2	115	115	92	83	100	91	98	88	83	94	107	149	230	246	238	258	208	235	242	261	264	275	278	255	174	278	83
3	244	190	144	128	167	102	131	134	65	89	222	227	224	258	221	249	220	32	299	306	176	150	127	64	176	306	32
4	141	138	166	128	130	70	143	111	91	119	154	190	224	201	193	215	192	193	166	199	201	205	208	187	168	224	70
5	124	65	124	165	120	122	185	111	78	129	221	239	228	213	227	189	191	161	201	265	147	167	173	175	168	265	65
6	170	155	160	160	118	125	157	122	90	91	205	269	232	260	231	229	196	142	164	327	139	112	67	84	157	327	67
7	55	116	157	164	184	194	134	113	126	110	182	246	224	243	226	236	234	182	202	269	197	174	147	169	181	269	55
8	161	165	152	154	147	137	139	131	99	98	111	155	192	221	251	223	189	141	156	217	27	153	143	238	159	251	27
9	29	138	155	178	175	146	128	113	101	121	202	238	265	246	266	258	273	233	229	249	300	147	173	159	193	300	29
10	181	129	173	160	122	120	120	151	70	103	124	132	127	106	181	223	181	155	175	231	151	187	199	215	154	231	70
11	194	86	111	115	154	111	129	103	79	100	107	109	146	149	136	133	136	157	190	217	216	211	208	225	145	225	79
12	211	196	214	201	191	197	202	189	222	220	201	212	185	196	274	277	266	188	239	268	242	301	315	321	227	321	185
13	359	325	100	196	169	159	161	139	86	243	238	229	227	237	245	261	248	254	254	259	274	199	142	130	216	359	86
14	91	61	88	45	41	38	39	39	40	39	38	54	53	29	37	41	67	70	47	78	77	88	71	63	55	91	29
15	50	57	43	45	40	55	57	39	41	32	31	51	119	71	133	156	265	249	269	285	154	174	178	170	73	285	31
16	171	177	193	183	159	137	113	95	102	119	246	238	238	258	257	241	221	224	249	238	249	254	257	260	211	260	95
17	271	261	199	104	172	160	145	142	108	150	227	230	240	230	225	217	235	262	225	256	274	271	280	254	221	280	104
18	271	284	292	286	253	228	232	78	219	241	258	226	230	226	238	259	257	249	252	252	265	260	260	237	251	292	78
19	284	0	178	173	156	97	92	113	80	43	33	14	315	241	230	221	228	249	256	257	247	234	261	183	226	315	0
20	26	154	174	167	163	161	179	253	223	226	252	220	207	215	256	197	232	90	188	311	141	165	145	189	194	311	26
21	214	219	219	225	216	153	118	74	97	150	143	165	178	183	180	187	164	194	183	199	193	201	244	232	184	244	74
22	252	253	229	210	192	118	156	146	84	112	113	131	203	200	223	230	230	188	195	225	171	180	179	184	186	253	84
23	204	226	224	120	138	129	83	100	85	152	208	192	216	209	190	224	205	185	235	84	215	237	228	233	187	237	83
24	237	246	111	256	243	163	163	104	203	225	211	223	194	217	192	144	116	144	322	263	244	263	252	127	205	322	104
25	154	167	228	123	152	65	130	54	37	39	41	15	340	238	241	236	245	243	251	268	247	217	80	57	190	340	15
26	38	28	22	20	24	22	21	21	24	26	29	29	30	37	36	33	37	38	37	46	49	41	33	28	31	49	20
27	30	29	29	30	35	31	31	30	32	31	29	29	28	26	28	26	28	46	67	52	44	87	98	114	41	114	26
28	95	79	83	44	47	40	53	46	39	43	35	31	90	142	198	224	217	223	233	172	152	130	140	171	102	233	31
29	153	168	179	155	172	171	126	118	82	106	170	238	220	227	264	244	247	249	255	253	184	273	260	288	204	288	82
30	334	154	175	170	143	168	156	102	91	99	115	240	234	232	242	237	242	251	257	192	174	139	163	140	181	334	91
31	151	173	170	152	132	128	126	95	87	59	113	174	257	233	255	243	252	256	203	176	86	157	143	136	162	257	59
Avg	154	144	156	146	145	121	125	100	83	99	153	199	212	217	225	225	218	201	224	246	194	190	182	179	172	--	--
Max	359	325	292	286	253	228	232	253	223	243	258	269	340	260	274	277	273	262	322	327	300	301	315	321	--	359	--
Min	26	0	22	20	24	22	21	21	24	26	27	14	28	26	28	26	28	32	37	46	27	41	33	28	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	166	155	141	136	144	132	151	141	113	97	98	175	238	190	260	218	248	247	247	235	179	150	165	184	173	260	97
2	145	147	129	162	133	131	118	102	99	98	70	111	138	181	245	220	238	253	262	205	152	188	164	256	160	262	70
3	125	163	173	158	151	110	117	132	91	68	285	244	239	257	314	245	250	246	251	250	80	182	138	113	179	314	68
4	113	128	125	103	112	102	101	70	42	38	34	33	27	9	136	101	249	241	253	282	151	88	111	84	91	282	9
5	51	26	32	57	105	88	46	42	39	33	37	29	24	16	315	248	231	242	256	147	97	68	62	106	49	315	16
6	91	84	100	92	84	93	107	116	108	71	46	79	180	226	247	219	238	249	256	256	163	168	179	159	142	256	46
7	148	170	151	136	106	123	151	136	94	66	96	91	200	181	191	233	186	211	273	168	241	239	178	227	166	273	66
8	217	143	152	121	181	161	140	144	127	119	227	202	196	207	226	180	121	150	224	208	205	167	122	90	168	227	90
9	164	174	184	187	177	175	187	194	165	168	170	182	167	195	198	192	194	198	198	190	185	181	184	178	183	198	164
10	165	161	185	255	254	202	203	204	206	179	212	196	222	198	174	190	144	142	162	152	286	317	248	285	202	317	142
11	283	281	292	305	286	170	156	155	107	351	296	247	221	206	233	6	2	30	94	61	81	51	61	57	346	351	2
12	40	38	37	34	32	34	35	36	36	34	33	30	31	28	29	28	26	33	36	43	37	36	33	28	34	43	26
13	27	27	33	30	35	26	35	33	54	56	48	39	37	39	35	33	33	51	89	61	46	49	50	46	42	89	26
14	51	49	44	38	40	40	43	42	41	38	40	34	30	34	30	31	26	56	71	59	60	95	117	106	50	117	26
15	71	48	59	61	76	64	54	54	49	41	43	37	41	39	37	38	51	77	114	100	140	153	124	72	66	153	37
16	97	97	101	89	65	91	127	121	98	66	80	197	215	266	243	218	219	242	255	229	187	161	126	175	153	266	65
17	154	148	134	139	129	117	107	111	107	108	59	40	54	84	115	127	153	216	243	251	234	243	193	281	138	281	40
18	161	139	258	139	113	121	116	129	111	108	118	114	178	261	221	215	215	258	233	149	174	152	162	147	161	261	108
19	151	168	164	157	124	91	72	86	104	51	90	132	142	134	130	170	181	234	116	133	101	127	134	140	130	234	51
20	144	137	139	117	75	51	54	43	41	36	31	48	95	87	116	113	93	53	67	67	63	77	77	67	78	144	31
21	73	72	57	40	39	51	59	60	55	49	116	120	120	217	260	266	250	211	258	272	137	142	172	154	105	272	39
22	154	146	154	155	167	162	156	161	130	86	63	69	227	237	241	241	246	257	251	165	162	149	134	111	167	257	63
23	119	117	119	115	107	104	112	113	70	37	37	35	30	27	27	27	27	29	35	44	31	29	31	51	59	119	27
24	45	41	46	43	41	41	38	36	39	38	36	33	30	27	29	30	37	49	70	63	86	97	118	128	50	128	27
25	114	80	65	71	71	75	74	69	81	59	69	112	163	243	240	218	232	246	246	160	152	161	126	153	124	246	59
26	168	153	109	145	155	150	156	149	132	98	110	209	246	234	246	222	238	248	168	162	122	129	107	131	162	248	98
27	155	168	163	133	141	102	81	66	52	40	38	36	29	29	28	30	32	35	39	49	66	61	66	54	65	168	28
28	45	56	57	41	38	43	52	64	54	53	68	102	114	187	182	215	222	248	249	243	274	270	182	128	92	274	38
29	167	154	242	141	165	156	137	160	124	152	234	217	205	220	223	219	225	232	259	272	218	251	186	194	198	272	124
30	266	143	167	169	145	155	137	143	150	106	204	240	258	253	259	229	236	252	255	259	195	198	134	144	196	266	106
Avg	125	120	120	111	108	105	103	103	88	69	67	95	154	214	233	211	221	238	232	176	140	139	131	124	121	--	--
Max	283	281	292	305	286	202	203	204	206	351	296	247	258	266	315	266	250	258	273	282	286	317	248	285	--	351	--
Min	27	26	32	30	32	26	35	33	36	33	31	29	24	9	27	6	2	29	35	43	31	29	31	28	--	--	2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	148	129	118	130	135	131	158	146	102	85	84	119	241	243	237	239	247	259	270	175	195	184	164	190	169	270	84
2	110	154	147	141	145	134	143	134	114	109	103	233	212	228	210	199	181	209	219	254	206	231	171	134	171	254	103
3	220	224	255	253	253	168	151	137	112	63	215	249	218	222	226	224	231	231	241	180	211	292	304	145	217	304	63
4	147	111	95	115	102	118	79	97	96	50	42	35	32	29	87	60	167	34	41	49	62	58	48	62	74	167	29
5	65	57	58	40	34	32	32	51	43	40	37	36	34	32	65	131	204	252	171	171	146	157	153	167	75	252	32
6	148	149	166	138	129	150	148	127	106	103	118	153	236	229	255	217	213	230	255	249	254	131	245	251	182	255	103
7	255	160	167	154	132	139	161	139	133	101	212	231	233	243	215	241	223	246	249	145	181	178	208	155	188	255	101
8	151	161	170	143	150	138	124	127	123	100	107	230	241	230	254	235	198	157	147	146	141	110	149	162	158	254	100
9	138	232	250	137	112	59	110	141	135	158	216	220	218	198	215	224	212	224	260	357	41	28	26	26	177	357	26
10	25	29	29	29	26	27	37	34	28	32	47	49	50	44	9	227	253	257	257	237	177	158	128	101	37	257	9
11	149	119	132	107	48	32	67	71	52	53	57	42	46	44	304	188	221	267	181	133	136	131	100	112	95	304	32
12	103	108	131	115	108	113	100	99	102	86	111	109	131	180	197	178	185	151	83	101	69	67	102	104	116	197	67
13	132	105	82	71	51	61	54	62	51	75	100	144	184	177	163	103	218	251	58	86	101	119	94	141	103	251	51
14	189	167	199	204	195	184	189	196	199	186	184	203	204	216	129	185	223	194	194	173	178	195	179	157	189	223	129
15	177	188	189	181	198	200	200	199	208	202	195	189	189	196	198	201	186	199	204	202	191	262	258	259	202	262	177
16	250	221	204	207	197	240	278	232	238	202	237	254	243	216	236	228	212	244	252	251	239	145	178	159	225	278	145
17	175	156	158	165	162	133	178	154	132	104	121	123	223	235	226	215	204	96	94	100	106	129	143	146	151	235	94
18	113	125	162	154	157	150	131	111	130	105	101	107	114	133	215	157	212	207	199	208	186	184	190	199	156	215	101
19	189	292	204	233	105	132	177	80	199	248	222	234	228	237	231	230	233	250	254	215	93	49	63	54	209	292	49
20	62	52	54	31	37	39	42	45	45	40	38	39	36	38	39	37	40	42	43	43	42	41	43	42	42	62	31
21	44	42	42	40	46	46	37	37	39	39	41	38	34	37	35	37	43	50	55	60	71	66	51	45	45	71	34
22	42	46	44	38	42	54	46	52	59	66	71	101	117	189	190	193	203	241	248	147	166	176	157	165	110	248	38
23	167	184	254	172	187	172	165	147	134	100	91	129	232	229	228	211	232	254	255	264	115	176	187	241	191	264	91
24	229	251	228	235	227	215	241	238	173	140	99	222	225	211	178	179	103	129	223	210	268	270	304	350	216	350	99
25	233	254	283	263	205	127	142	64	32	42	33	28	27	55	49	39	42	46	64	67	76	56	50	61	51	283	27
26	90	105	79	60	73	92	112	99	108	97	86	157	188	212	220	210	192	111	70	54	78	307	283	278	111	307	54
27	185	178	167	162	144	137	155	163	153	124	230	248	240	238	290	196	232	235	268	258	157	170	146	93	188	290	93
28	50	177	180	128	165	132	140	148	113	62	40	24	17	10	35	38	240	253	224	125	88	58	83	46	94	253	10
29	45	52	46	36	42	46	46	45	45	50	46	84	75	76	99	116	96	73	61	69	79	81	79	98	66	116	36
30	102	105	117	90	122	118	130	103	224	123	110	107	227	248	181	199	182	221	205	231	261	242	255	0	166	261	0
31	0	209	209	209	202	205	213	218	208	205	229	186	198	35	141	69	98	308	157	232	247	243	59	149	199	308	0
Avg	135	145	152	135	128	121	127	115	113	93	101	141	203	212	204	190	203	224	211	167	143	142	132	123	147	--	--
Max	255	292	283	263	253	240	278	238	238	248	237	254	243	248	304	241	253	308	270	357	268	307	304	350	--	357	--
Min	0	29	29	29	26	27	32	34	28	32	33	24	17	10	9	37	40	34	41	43	41	28	26	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.08	0.90	0.64	0.73	0.66	0.64	0.40	-0.15	-0.60	-1.05	-1.41	-1.63	-1.54	-1.40	-1.25	-1.06	-0.58	0.11	0.55	1.02	0.77	0.97	0.95	1.38	0.01	1.38	-1.63
2	0.92	0.80	0.81	0.57	0.94	0.72	0.55	-0.08	-0.71	-1.02	-1.33	-1.14	-1.07	-1.12	-0.80	-0.63	-0.47	-0.07	0.14	0.38	0.58	0.55	0.46	0.41	-0.03	0.94	-1.33
3	0.57	0.80	0.80	1.09	0.96	0.83	0.96	0.05	-0.90	-1.14	-1.02	-0.96	-1.12	-0.90	-0.91	-0.65	-0.40	0.01	0.16	0.38	0.60	0.70	1.03	0.98	0.08	1.09	-1.14
4	1.04	0.76	0.68	0.86	0.66	0.56	0.68	-0.13	-0.63	-1.12	-1.36	-1.36	-1.24	-1.15	-1.08	-0.72	-0.46	-0.05	0.08	0.18	0.27	0.30	0.27	0.51	-0.10	1.04	-1.36
5	0.87	0.70	0.69	0.82	0.59	0.63	0.93	0.14	-0.85	-0.97	-0.95	-0.85	-1.09	-1.21	-0.97	-0.89	-0.60	-0.08	0.09	0.51	0.76	0.77	0.60	0.94	0.03	0.94	-1.21
6	0.73	0.81	0.65	0.62	0.63	0.89	1.28	-0.04	-0.57	-1.01	-0.90	-0.84	-1.07	-0.94	-0.47	-0.68	-0.31	-0.02	0.12	0.37	0.51	0.79	0.84	0.88	0.10	1.28	-1.07
7	1.03	0.97	0.54	0.64	0.69	1.03	0.45	0.48	-0.48	-0.71	-1.04	-1.00	-1.34	-1.10	-1.23	-0.83	-0.58	-0.08	0.13	0.34	0.62	0.77	0.82	0.76	0.04	1.03	-1.34
8	0.93	0.79	0.91	0.91	1.04	0.64	0.79	-0.08	-0.51	-1.02	-1.28	-1.39	-1.33	-1.21	-0.81	-0.77	-0.50	-0.05	0.34	0.46	0.75	0.59	0.55	1.31	0.04	1.31	-1.39
9	1.76	0.85	0.81	0.89	0.84	0.67	0.69	-0.19	-0.71	-1.09	-1.07	-1.08	-1.40	-1.04	-1.03	-0.82	-0.57	-0.10	0.08	0.17	0.58	0.84	0.58	0.96	0.03	1.76	-1.40
10	1.24	0.69	0.93	0.93	0.84	0.84	0.78	0.04	-0.78	-1.06	-1.34	-1.46	-1.51	-1.32	-1.23	-1.00	-0.57	-0.04	0.17	0.54	1.05	0.67	0.57	0.47	-0.02	1.24	-1.51
11	0.54	0.52	0.76	0.64	0.65	0.65	0.87	0.14	-0.49	-0.65	-0.71	-1.14	-1.22	-1.06	-0.83	-0.83	-0.43	0.12	0.31	0.22	0.16	0.40	0.24	0.16	-0.04	0.87	-1.22
12	0.09	0.04	0.04	-0.01	-0.05	-0.08	-0.10	-0.12	-0.47	-0.59	-0.62	-0.69	-0.78	-0.72	-0.61	-0.54	-0.56	-0.06	0.08	0.09	0.53	0.31	0.24	0.27	-0.18	0.53	-0.78
13	0.39	0.43	0.41	0.69	0.46	0.52	0.70	-0.21	-0.59	-0.81	-0.87	-0.94	-1.17	-1.05	-0.96	-0.79	-0.57	-0.09	0.01	0.04	0.29	0.78	0.78	1.14	-0.06	1.14	-1.17
14	0.40	0.27	0.27	0.37	0.32	0.30	0.25	-0.18	-0.55	-0.98	-1.28	-1.39	-1.49	-1.46	-1.16	-0.86	-0.34	0.19	0.58	0.48	0.66	0.64	0.57	0.42	-0.17	0.66	-1.49
15	0.42	0.38	0.43	0.50	0.52	0.45	0.32	-0.16	-0.64	-0.98	-1.36	-1.55	-1.51	-1.60	-1.10	-0.90	-0.63	0.01	0.18	0.65	0.86	0.81	0.62	1.04	-0.13	1.04	-1.60
16	0.90	0.88	1.32	1.05	1.03	0.97	0.79	0.01	-0.64	-0.80	-0.55	-0.91	-1.04	-0.86	-0.96	-0.67	-0.39	0.06	0.12	0.29	0.81	1.18	0.70	0.35	0.15	1.32	-1.04
17	0.29	0.39	0.81	1.05	0.98	1.16	0.73	0.21	-0.51	-0.86	-0.77	-1.07	-0.95	-0.87	-0.93	-0.66	-0.26	0.00	0.13	0.20	0.20	0.36	0.35	0.33	0.01	1.16	-1.07
18	0.23	0.17	0.21	0.23	0.39	0.88	0.66	-0.25	-0.61	-0.66	-0.76	-1.07	-1.04	-1.09	-0.83	-0.47	-0.32	-0.04	0.02	0.06	0.08	0.16	0.19	0.54	-0.14	0.88	-1.09
19	0.80	1.12	0.99	0.92	1.19	0.55	0.54	-0.03	-0.51	-0.85	-1.32	-1.55	-1.41	-0.97	-0.99	-0.81	-0.41	-0.02	0.05	0.17	0.61	0.66	0.67	0.89	0.01	1.19	-1.55
20	0.92	0.77	1.01	1.11	0.86	1.19	0.59	0.20	-0.39	-0.63	-0.62	-0.81	-1.24	-0.92	-0.82	-0.71	-0.36	0.04	0.21	0.51	0.66	0.58	0.63	0.75	0.15	1.19	-1.24
21	0.31	0.33	0.44	0.31	0.29	0.57	0.45	-0.40	-0.78	-0.96	-1.24	-1.37	-1.33	-1.07	-0.65	-0.75	-0.43	-0.05	0.07	0.11	0.11	0.16	0.12	0.20	-0.23	0.57	-1.37
22	0.23	0.21	0.15	0.38	0.48	0.45	0.50	-0.07	-0.81	-1.04	-1.28	-1.41	-1.29	-1.14	-0.95	-0.83	-0.43	-0.04	0.14	0.38	0.73	0.89	0.83	0.71	-0.13	0.89	-1.41
23	1.23	1.02	1.08	0.63	0.45	0.71	0.81	-0.04	-0.86	-0.93	-0.85	-1.18	-1.05	-1.06	-0.98	-0.87	-0.27	-0.01	0.28	0.49	0.54	0.35	0.36	0.28	0.01	1.23	-1.18
24	0.19	0.25	0.57	0.72	0.36	0.45	0.56	0.01	-0.43	-0.65	-0.97	-0.95	-1.00	-0.94	-0.91	-0.68	-0.34	0.03	0.11	0.07	0.30	0.22	0.74	0.71	-0.07	0.74	-1.00
25	0.89	0.93	1.14	0.89	0.79	0.48	0.54	-0.15	-0.67	-1.08	-1.40	-1.39	-1.15	-1.16	-0.82	-0.73	-0.33	0.07	0.09	0.36	0.40	0.83	1.00	0.47	0.00	1.14	-1.40
26	0.44	0.28	0.21	0.18	0.20	0.17	0.16	-0.07	-0.39	-0.67	-0.98	-1.18	-1.25	-1.18	-1.03	-0.67	-0.15	0.34	0.45	0.39	0.33	0.34	0.30	0.25	-0.15	0.45	-1.25
27	0.24	0.22	0.21	0.17	0.21	0.16	0.10	-0.16	-0.55	-0.87	-1.11	-1.35	-1.43	-1.39	-1.25	-0.91	-0.34	0.39	0.36	0.49	0.43	0.36	0.32	0.59	-0.21	0.59	-1.43
28	0.37	0.34	0.33	0.38	0.37	0.35	0.29	-0.12	-0.58	-0.95	-1.31	-1.69	-1.34	-1.00	-1.12	-0.79	-0.31	0.16	0.85	1.06	0.94	0.89	0.67	1.05	-0.05	1.06	-1.69
29	1.02	1.12	1.54	1.41	1.32	1.02	0.76	-0.01	-0.64	-0.89	-0.97	-0.90	-1.14	-1.12	-0.95	-0.68	-0.26	0.08	0.12	0.38	0.79	1.14	1.16	1.16	0.23	1.54	-1.14
30	1.71	1.00	1.00	1.02	1.52	0.96	1.50	0.06	-0.64	-0.95	-1.21	-0.77	-0.93	-0.88	-0.89	-0.61	-0.21	0.07	0.12	0.59	1.04	1.19	1.04	1.27	0.29	1.71	-1.21
31	1.14	1.24	0.92	1.07	0.88	0.82	0.69	0.01	-0.63	-1.16	-1.33	-1.19	-0.62	-0.93	-0.88	-0.52	-0.14	0.21	0.62	1.07	0.69	0.96	0.73	1.39	0.21	1.39	-1.33
Avg	0.74	0.64	0.69	0.70	0.68	0.65	0.62	-0.04	-0.62	-0.91	-1.07	-1.17	-1.20	-1.09	-0.95	-0.75	-0.40	0.03	0.22	0.40	0.57	0.65	0.61	0.73	-0.01	--	--
Max	1.76	1.24	1.54	1.41	1.52	1.19	1.50	0.48	-0.39	-0.59	-0.55	-0.69	-0.62	-0.72	-0.47	-0.47	-0.14	0.39	0.85	1.07	1.05	1.19	1.16	1.39	--	1.76	--
Min	0.09	0.04	0.04	-0.01	-0.05	-0.08	-0.10	-0.40	-0.90	-1.16	-1.41	-1.69	-1.54	-1.60	-1.25	-1.06	-0.63	-0.10	0.01	0.04	0.08	0.16	0.12	0.16	--	--	-1.69

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.26	1.29	1.15	1.17	1.00	1.34	1.48	0.29	-0.61	-0.95	-1.19	-1.17	-0.99	-1.16	-0.92	-0.67	-0.28	0.14	0.51	0.80	0.82	0.79	0.70	1.14	0.25	1.48	-1.19
2	0.66	0.60	0.56	1.01	1.00	0.71	0.55	0.11	-0.54	-0.65	-0.85	-0.95	-1.18	-1.11	-0.89	-0.72	-0.30	0.10	0.19	0.75	0.79	0.86	0.76	1.56	0.13	1.56	-1.18
3	1.21	0.81	1.04	0.51	0.77	0.62	0.94	0.19	-0.65	-1.14	-0.95	-0.78	-0.84	-0.92	-1.20	-0.76	-0.24	0.05	0.10	0.27	0.59	1.00	1.08	0.80	0.10	1.21	-1.20
4	0.77	0.72	0.52	0.34	0.42	0.31	0.46	0.14	-0.46	-0.90	-1.20	-1.45	-1.48	-1.35	-1.14	-0.77	-0.23	0.11	0.17	0.83	0.96	0.74	0.58	0.51	-0.06	0.96	-1.48
5	0.51	0.44	0.42	0.35	0.39	0.47	0.47	0.08	-0.44	-0.80	-1.11	-1.27	-1.37	-1.25	-1.00	-0.65	-0.26	0.23	0.59	0.82	0.84	0.72	0.78	0.88	-0.01	0.88	-1.37
6	0.69	0.62	0.45	0.53	0.49	0.46	0.41	-0.03	-0.47	-0.88	-1.29	-1.20	-1.25	-1.02	-0.74	-0.66	-0.23	0.22	0.27	0.90	0.65	1.02	0.96	0.81	0.03	1.02	-1.29
7	0.89	1.09	1.56	0.88	0.62	0.82	0.98	0.21	-0.50	-0.93	-1.29	-1.35	-1.14	-1.27	-0.99	-0.64	-0.21	0.27	0.43	0.90	0.75	1.05	1.04	1.50	0.19	1.56	-1.35
8	0.76	0.74	0.65	0.89	0.89	0.54	0.59	0.58	-0.42	-0.75	-0.72	-1.14	-1.19	-1.11	-0.82	-0.37	0.04	0.09	0.04	0.20	0.18	0.50	0.58	0.60	0.06	0.89	-1.19
9	0.50	0.10	0.19	0.24	0.50	0.20	0.19	0.06	-0.03	-0.33	-0.53	-0.39	-0.52	-0.58	-0.57	-0.42	-0.13	0.05	0.08	0.02	-0.04	-0.02	-0.03	-0.09	-0.06	0.50	-0.58
10	-0.11	-0.11	-0.09	-0.10	-0.08	-0.22	-0.02	0.08	-0.25	-0.49	-0.45	-0.62	-0.40	-0.65	-0.43	-0.44	-0.10	-0.02	0.02	0.03	-0.04	0.02	0.06	0.15	-0.18	0.15	-0.65
11	0.19	0.16	0.26	0.28	0.20	0.43	0.72	0.42	-0.40	-0.85	-0.58	-0.58	-0.91	-1.00	-0.83	-0.91	-0.29	0.28	0.25	0.36	0.42	0.57	0.33	0.18	-0.05	0.72	-1.00
12	0.23	0.25	0.23	0.22	0.23	0.24	0.23	0.02	-0.30	-0.51	-0.69	-0.76	-0.79	-0.72	-0.60	-0.36	0.14	0.43	0.46	0.43	0.46	0.44	0.40	0.34	0.00	0.46	-0.79
13	0.32	0.32	0.36	0.32	0.35	0.30	0.26	0.05	-0.34	-0.61	-0.93	-1.00	-0.98	-0.92	-0.71	-0.40	0.18	0.49	0.56	0.40	0.45	0.44	0.35	0.34	-0.02	0.56	-1.00
14	0.35	0.37	0.38	0.41	0.39	0.34	0.31	0.19	-0.19	-0.61	-0.93	-1.04	-1.06	-1.03	-0.78	-0.50	0.11	0.43	0.48	0.60	0.56	0.68	0.81	0.81	0.05	0.81	-1.06
15	0.81	0.55	0.56	0.46	0.50	0.45	0.44	0.13	-0.35	-0.42	-0.85	-0.72	-0.43	-0.59	-0.50	-0.21	0.05	0.15	0.32	0.31	0.46	0.71	0.51	0.38	0.11	0.81	-0.85
16	0.51	0.52	0.48	0.54	0.59	0.56	0.63	0.50	-0.11	-0.60	-1.01	-0.88	-0.87	-0.73	-0.62	-0.68	-0.16	0.17	0.28	0.46	0.97	0.92	0.61	0.92	0.12	0.97	-1.01
17	0.86	0.87	0.98	0.96	1.34	0.83	0.75	0.45	0.12	-0.15	-0.39	-0.68	-0.86	-0.74	-0.40	-0.20	0.13	0.40	0.31	0.20	0.47	1.09	0.69	0.35	0.31	1.34	-0.86
18	0.61	0.40	0.41	0.70	0.62	0.60	0.91	0.52	-0.33	-0.83	-1.12	-1.21	-1.04	-0.73	-0.98	-0.66	-0.22	0.07	0.30	0.61	0.89	0.78	0.82	0.84	0.08	0.91	-1.21
19	0.77	0.65	0.78	0.88	0.56	0.53	0.35	0.08	-0.43	-1.01	-1.11	-1.19	-1.21	-1.22	-0.94	-0.85	-0.21	0.23	0.69	0.89	0.79	0.57	0.68	1.07	0.06	1.07	-1.22
20	1.17	0.75	0.95	0.66	0.35	0.48	0.38	0.15	-0.31	-0.63	-0.89	-1.10	-1.01	-0.98	-0.84	-0.47	0.01	0.41	0.46	0.59	0.61	0.57	0.68	0.63	0.11	1.17	-1.10
21	0.58	0.30	0.26	0.28	0.26	0.26	0.33	0.21	-0.48	-0.84	-1.01	-0.98	-1.07	-0.99	-0.71	-0.15	-0.04	0.34	0.29	0.49	0.82	1.14	0.95	0.66	0.04	1.14	-1.07
22	1.14	1.01	1.15	1.36	1.09	1.32	0.77	0.51	-0.31	-0.73	-1.14	-1.23	-0.81	-0.76	-0.59	-0.43	-0.05	0.16	0.63	0.83	1.02	1.39	0.92	0.65	0.33	1.39	-1.23
23	0.60	0.55	0.55	0.58	0.49	0.46	0.65	0.33	-0.14	-0.53	-0.84	-0.90	-0.98	-0.83	-0.64	-0.34	0.16	0.42	0.52	0.54	0.53	0.50	0.43	0.33	0.10	0.65	-0.98
24	0.33	0.35	0.30	0.25	0.25	0.25	0.26	0.12	-0.28	-0.60	-0.84	-1.03	-1.03	-0.93	-0.80	-0.47	0.10	0.39	0.44	0.48	0.75	0.65	0.52	0.54	0.00	0.75	-1.03
25	0.62	0.69	0.45	0.57	0.44	0.44	0.50	0.22	-0.30	-0.82	-1.10	-1.10	-1.10	-0.72	-0.64	-0.58	-0.08	0.24	0.40	0.85	0.64	0.92	0.51	0.59	0.07	0.92	-1.10
26	0.78	0.84	0.77	0.91	0.88	0.98	0.99	1.05	-0.14	-0.72	-0.98	-0.89	-0.53	-0.46	-0.58	-0.57	-0.05	0.30	0.45	1.00	0.85	0.89	0.77	1.00	0.32	1.05	-0.98
27	1.44	0.98	0.70	0.82	0.73	0.79	0.60	0.22	-0.29	-0.68	-0.92	-1.09	-1.16	-0.89	-0.71	-0.32	0.15	0.37	0.43	0.36	0.42	0.48	0.40	0.48	0.14	1.44	-1.16
28	0.57	0.48	0.40	0.45	0.45	0.41	0.33	0.16	-0.33	-0.76	-0.96	-0.93	-1.01	-0.96	-0.88	-0.32	-0.08	0.21	0.26	0.28	0.57	0.78	1.03	0.82	0.04	1.03	-1.01
29	1.00	0.83	0.97	0.83	1.05	0.96	0.66	0.99	-0.09	-0.52	-0.56	-0.91	-1.07	-0.86	-0.75	-0.69	-0.18	0.18	0.08	0.25	0.79	0.57	1.08	0.70	0.22	1.08	-1.07
30	1.13	0.63	0.80	0.97	0.82	0.85	0.90	0.68	-0.19	-0.58	-0.76	-0.54	-0.60	-0.75	-0.69	-0.55	-0.12	0.11	0.19	0.32	0.84	0.80	1.05	0.96	0.26	1.13	-0.76
Avg	0.70	0.59	0.61	0.61	0.59	0.56	0.57	0.29	-0.32	-0.69	-0.91	-0.97	-0.96	-0.91	-0.76	-0.53	-0.08	0.23	0.34	0.53	0.63	0.72	0.67	0.68	0.09	--	--
Max	1.44	1.29	1.56	1.36	1.34	1.34	1.48	1.05	0.12	-0.15	-0.39	-0.39	-0.40	-0.46	-0.40	-0.15	0.18	0.49	0.69	1.00	1.02	1.39	1.08	1.56	--	1.56	--
Min	-0.11	-0.11	-0.09	-0.10	-0.08	-0.22	-0.02	-0.03	-0.65	-1.14	-1.29	-1.45	-1.48	-1.35	-1.20	-0.91	-0.30	-0.02	0.02	0.02	-0.04	-0.02	-0.03	-0.09	--	--	-1.48

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.02	0.75	1.15	0.97	0.78	0.87	0.88	0.61	-0.38	-0.69	-1.03	-1.04	-0.76	-0.67	-0.77	-0.48	-0.10	0.05	0.26	0.65	1.07	1.09	1.12	1.09	0.27	1.15	-1.04
2	1.07	1.09	0.89	0.84	0.86	1.09	0.80	0.79	-0.33	-0.65	-1.01	-0.74	-0.97	-0.84	-0.74	-0.62	-0.18	0.08	0.20	0.40	0.99	0.40	0.74	1.07	0.22	1.09	-1.01
3	0.71	0.53	0.30	0.40	0.45	0.88	0.77	0.62	-0.26	-0.78	-0.63	-0.59	-0.81	-0.90	-0.93	-0.57	-0.21	0.12	0.29	0.56	0.73	1.18	1.41	1.03	0.18	1.41	-0.93
4	0.88	0.61	0.47	0.40	0.31	0.34	0.21	0.14	-0.08	-0.27	-0.81	-0.70	-0.96	-1.12	-0.90	-0.63	0.00	0.58	0.42	0.42	0.45	0.32	0.45	0.55	0.05	0.88	-1.12
5	0.49	0.30	0.33	0.38	0.34	0.34	0.34	0.22	-0.07	-0.42	-0.84	-1.08	-1.25	-1.33	-1.00	-0.51	-0.04	0.31	0.71	1.08	0.84	0.68	0.67	1.02	0.06	1.08	-1.33
6	1.01	1.08	0.93	0.84	0.76	1.12	1.46	0.93	0.13	-0.23	-0.77	-0.83	-0.71	-0.82	-0.63	-0.46	-0.06	0.15	0.25	0.66	0.71	0.91	0.55	0.50	0.31	1.46	-0.83
7	0.64	0.65	0.83	0.85	0.80	0.93	0.70	0.63	-0.07	-0.56	-0.76	-0.75	-0.88	-0.80	-0.76	-0.49	-0.16	0.10	0.25	0.86	0.92	0.84	0.92	0.70	0.22	0.93	-0.88
8	0.70	0.75	0.59	0.60	0.53	0.69	0.63	0.70	-0.09	-0.66	-0.93	-0.78	-0.90	-0.89	-0.70	-0.56	-0.17	0.11	0.21	0.63	0.69	1.09	1.04	0.72	0.17	1.09	-0.93
9	0.96	1.26	1.00	0.72	0.72	0.95	0.77	0.71	0.05	-0.67	-0.76	-0.71	-0.82	-0.83	-0.71	-0.46	-0.16	0.08	0.13	0.34	0.18	0.14	0.12	0.14	0.13	1.26	-0.83
10	0.14	0.14	0.14	0.13	0.14	0.14	0.17	0.08	-0.22	-0.61	-0.87	-1.09	-1.10	-1.24	-1.06	-0.58	-0.09	0.04	0.07	0.26	0.90	0.91	1.05	0.71	-0.08	1.05	-1.24
11	0.61	0.58	0.57	0.48	0.53	0.37	0.33	0.19	-0.28	-0.67	-0.93	-1.17	-1.14	-1.30	-0.83	-0.61	-0.08	0.57	0.70	0.96	0.96	0.66	0.53	0.57	0.07	0.96	-1.30
12	0.54	0.48	0.50	0.54	0.43	0.51	0.45	0.24	-0.35	-0.67	-0.95	-1.09	-1.16	-1.10	-1.00	-0.85	-0.17	0.90	0.63	0.52	0.62	0.99	0.77	0.72	0.06	0.99	-1.16
13	0.81	0.71	0.82	0.85	1.26	0.75	0.89	0.81	-0.27	-0.79	-0.85	-1.12	-0.95	-0.85	-0.29	-0.33	-0.25	0.00	0.13	0.37	0.26	-0.01	-0.05	0.00	0.08	1.26	-1.12
14	0.08	0.14	-0.04	-0.05	0.05	0.00	-0.06	-0.10	-0.09	-0.08	-0.10	-0.13	-0.13	-0.11	0.07	0.03	0.18	0.23	0.21	0.18	0.14	0.06	0.22	0.15	0.04	0.23	-0.13
15	0.16	0.09	-0.01	0.01	-0.01	-0.02	-0.02	-0.03	-0.05	-0.08	-0.09	-0.03	-0.02	-0.07	-0.06	-0.05	0.05	-0.02	-0.01	-0.02	-0.02	-0.04	-0.03	-0.04	-0.02	0.16	-0.09
16	-0.02	0.00	-0.04	-0.05	-0.05	-0.05	-0.04	0.01	0.47	-0.35	-0.47	-0.50	-0.44	-0.82	-0.67	-0.56	-0.24	0.13	0.10	0.19	0.56	0.42	0.56	0.72	-0.05	0.72	-0.82
17	0.70	0.70	0.86	0.58	0.74	0.61	0.69	0.70	-0.08	-0.63	-0.91	-1.00	-0.71	-0.67	-0.75	-0.56	-0.23	0.40	0.42	0.31	0.65	0.87	1.07	1.04	0.20	1.07	-1.00
18	1.18	0.97	0.96	1.21	0.82	0.75	0.80	0.84	0.23	-0.54	-0.72	-0.83	-0.78	-0.66	-0.42	-0.16	-0.05	0.02	0.09	0.07	0.06	0.04	0.04	-0.01	0.16	1.21	-0.83
19	0.01	-0.05	-0.05	-0.04	-0.32	0.05	0.01	0.01	-0.20	-0.32	-0.62	-0.71	-0.82	-0.78	-0.69	-0.47	-0.18	0.06	0.06	0.30	0.44	0.47	0.24	0.22	-0.14	0.47	-0.82
20	0.16	0.19	0.22	0.26	0.23	0.23	0.22	0.16	-0.16	-0.40	-0.52	-0.61	-0.64	-0.63	-0.48	-0.22	0.11	0.24	0.35	0.34	0.30	0.34	0.36	0.34	0.02	0.36	-0.64
21	0.35	0.34	0.35	0.35	0.38	0.33	0.34	0.25	-0.10	-0.41	-0.60	-0.72	-0.78	-0.78	-0.56	-0.28	0.06	0.30	0.31	0.32	0.34	0.29	0.28	0.37	0.03	0.38	-0.78
22	0.34	0.23	0.24	0.26	0.24	0.18	0.20	0.20	-0.17	-0.53	-0.79	-0.91	-0.96	-0.97	-0.89	-0.53	-0.13	0.18	0.69	0.74	0.68	0.82	0.95	0.98	0.04	0.98	-0.97
23	0.82	1.03	1.23	0.73	1.34	1.03	0.85	0.92	0.55	-0.45	-0.83	-0.87	-0.61	-0.82	-0.74	-0.60	-0.10	0.04	0.45	0.80	0.98	1.35	1.13	0.98	0.38	1.35	-0.87
24	0.30	0.38	0.38	0.90	0.32	0.27	0.54	0.63	0.21	-0.32	-0.75	-0.78	-0.89	-0.86	-0.66	-0.26	-0.13	-0.06	-0.03	-0.02	-0.02	0.01	0.09	0.24	-0.02	0.90	-0.89
25	0.21	0.12	0.08	0.04	0.29	0.44	0.70	0.30	-0.06	-0.29	-0.34	-0.52	-0.57	-0.42	-0.44	-0.30	-0.02	0.13	0.09	0.09	0.12	0.17	0.16	0.28	0.01	0.70	-0.57
26	0.30	0.30	0.39	0.29	0.34	0.46	0.46	0.36	0.06	-0.48	-0.90	-0.76	-0.62	-0.71	-0.43	-0.27	-0.10	0.11	0.20	0.23	0.17	0.16	0.18	0.46	0.01	0.46	-0.90
27	0.88	0.61	0.55	0.85	0.75	0.54	0.99	0.93	0.27	-0.26	-0.32	-0.61	-0.36	-0.08	-0.49	-0.45	-0.12	0.07	0.13	0.35	0.60	0.41	0.50	0.36	0.25	0.99	-0.61
28	0.36	0.37	0.66	0.70	0.51	0.66	0.91	0.53	-0.18	-0.59	-0.84	-1.10	-1.27	-1.24	-1.14	-0.77	-0.19	0.12	0.31	0.67	0.35	0.29	0.31	0.37	-0.01	0.91	-1.27
29	0.33	0.27	0.29	0.31	0.28	0.26	0.23	0.16	-0.21	-0.55	-0.72	-0.70	-0.84	-0.80	-0.69	-0.36	0.00	0.22	0.32	0.41	0.50	0.41	0.43	0.63	0.01	0.63	-0.84
30	0.45	0.46	0.41	0.43	0.44	0.38	0.49	0.65	0.52	0.05	-0.20	-0.36	-0.41	-0.52	-0.35	-0.39	-0.11	-0.01	-0.06	-0.08	-0.01	-0.05	0.06	0.00	0.08	0.65	-0.52
31	0.04	0.03	0.01	0.02	0.03	0.02	-0.02	0.00	-0.01	-0.02	-0.05	-0.09	-0.11	0.25	0.34	0.05	0.02	0.09	0.12	0.25	0.39	0.65	0.64	0.53	0.13	0.65	-0.11
Avg	0.52	0.49	0.48	0.48	0.46	0.49	0.51	0.43	-0.04	-0.45	-0.67	-0.74	-0.75	-0.75	-0.62	-0.43	-0.09	0.17	0.26	0.41	0.50	0.51	0.53	0.53	0.09	--	--
Max	1.18	1.26	1.23	1.21	1.34	1.12	1.46	0.93	0.55	0.05	-0.05	-0.03	-0.02	0.25	0.34	0.05	0.18	0.90	0.71	1.08	1.07	1.35	1.41	1.09	--	1.46	--
Min	-0.02	-0.05	-0.05	-0.05	-0.32	-0.05	-0.06	-0.10	-0.38	-0.79	-1.03	-1.17	-1.27	-1.33	-1.14	-0.85	-0.25	-0.06	-0.06	-0.08	-0.02	-0.05	-0.05	-0.04	--	--	-1.33

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22.6	21.9	20.8	21.3	20.3	19.7	20.7	22.5	24.2	26.0	28.0	29.6	30.5	30.8	30.9	31.1	30.5	29.2	27.7	26.8	25.4	24.3	22.9	22.8	25.4	31.1	19.7
2	23.2	21.9	22.0	21.1	20.2	20.5	19.9	22.0	25.4	27.4	28.8	29.8	30.4	31.2	30.9	30.6	30.1	29.2	28.2	27.5	27.0	26.8	26.8	26.6	26.2	31.2	19.9
3	25.5	23.2	22.4	21.6	21.4	20.0	20.1	21.7	24.1	26.2	27.3	28.1	29.2	29.3	29.7	29.5	29.0	28.1	27.6	26.6	24.5	24.0	23.4	23.5	25.3	29.7	20.0
4	22.2	21.2	21.3	20.9	20.2	20.1	19.7	20.7	23.1	25.1	26.5	27.4	27.8	28.2	28.5	28.2	27.9	27.0	26.1	25.4	24.9	23.9	23.0	22.2	24.2	28.5	19.7
5	20.9	20.2	19.3	18.6	18.1	17.7	18.1	18.2	21.7	23.1	24.0	24.7	26.0	26.6	26.6	26.7	26.3	25.0	24.1	23.3	21.2	20.7	20.8	20.3	22.2	26.7	17.7
6	19.8	19.5	19.6	18.9	18.5	18.0	17.5	18.3	21.0	23.0	23.9	24.3	25.2	25.3	24.2	24.5	23.9	23.4	23.0	22.5	21.0	20.8	20.5	20.1	21.5	25.3	17.5
7	19.8	19.4	19.1	18.9	18.4	18.0	17.5	17.7	20.3	22.1	23.8	24.4	25.4	25.6	26.4	25.9	25.4	24.2	23.3	22.8	21.3	20.3	19.4	19.6	21.6	26.4	17.5
8	19.1	19.0	18.3	18.4	17.2	16.9	16.9	18.6	20.8	22.9	24.5	25.5	25.8	26.2	26.0	25.8	25.3	24.4	23.4	23.1	22.0	20.2	20.0	20.0	21.7	26.2	16.9
9	19.3	18.9	19.0	18.4	17.2	17.2	16.6	17.7	20.7	23.0	23.8	24.6	25.3	25.6	26.0	25.8	25.3	24.4	23.5	22.9	21.9	20.0	19.7	19.4	21.5	26.0	16.6
10	19.4	18.4	17.9	17.5	16.0	16.1	15.9	17.1	20.0	22.2	23.4	24.3	25.1	25.7	25.8	25.9	25.5	24.3	23.3	22.6	21.2	21.4	21.0	20.7	21.3	25.9	15.9
11	19.5	18.3	17.2	16.7	16.6	16.0	16.3	17.5	19.2	20.8	21.5	22.8	23.8	23.8	23.3	23.4	22.9	20.4	19.7	18.5	18.4	16.7	16.0	15.6	19.4	23.8	15.6
12	15.2	14.6	13.9	13.6	13.1	12.5	11.9	11.6	12.2	13.3	13.5	14.2	14.9	15.3	15.3	15.4	15.6	14.5	13.8	13.5	12.2	12.8	12.7	12.5	13.7	15.6	11.6
13	11.3	11.3	10.3	9.8	9.4	8.8	9.0	10.6	13.5	14.9	15.6	16.4	17.5	18.5	19.4	20.2	20.3	18.8	17.7	16.9	16.1	15.2	14.9	14.9	14.6	20.3	8.8
14	15.2	14.9	14.2	15.6	15.6	15.7	16.0	17.4	18.6	20.1	22.1	23.9	25.0	25.5	25.9	25.9	25.4	24.1	22.0	20.6	20.3	20.3	19.9	19.5	20.2	25.9	14.2
15	19.6	19.0	18.2	17.6	18.1	17.6	17.2	18.8	20.8	22.5	23.8	25.5	26.6	27.2	27.3	27.4	26.8	25.2	24.4	23.1	21.1	20.4	20.4	19.7	22.0	27.4	17.2
16	19.8	20.0	19.6	18.8	16.0	15.9	16.6	17.4	20.8	23.4	23.5	24.8	25.7	25.8	26.2	25.8	25.3	23.9	22.9	22.3	21.5	21.2	21.8	21.7	21.7	26.2	15.9
17	21.7	21.5	19.6	18.2	17.8	16.7	17.2	17.6	19.9	22.4	22.8	24.0	24.8	24.8	25.2	24.9	24.0	23.2	22.7	22.3	22.3	21.9	21.9	21.5	21.6	25.2	16.7
18	21.5	21.8	21.5	21.0	20.0	18.3	17.3	17.7	18.7	19.4	20.3	21.9	22.8	23.2	23.1	22.7	22.6	21.6	20.8	20.6	20.6	20.4	20.0	19.2	20.7	23.2	17.3
19	19.0	18.2	16.9	16.4	15.3	15.4	16.2	17.2	20.8	23.3	24.7	26.3	27.3	27.0	27.1	26.8	25.6	23.9	23.0	22.4	21.3	21.0	20.8	19.8	21.5	27.3	15.3
20	20.1	19.1	18.6	18.4	18.6	18.1	18.6	19.8	21.0	21.9	22.6	23.7	24.9	24.6	24.5	24.4	23.7	22.7	22.0	21.3	19.7	19.3	19.1	20.2	21.1	24.9	18.1
21	19.4	18.9	18.2	17.8	17.5	16.4	15.7	16.7	19.1	20.8	21.8	22.5	23.3	23.2	22.7	23.0	22.5	21.0	19.9	19.1	18.4	18.1	17.6	17.0	19.6	23.3	15.7
22	16.6	16.5	16.4	15.9	14.9	13.9	13.5	14.4	17.0	18.6	19.9	21.3	21.4	22.3	22.4	22.6	21.6	20.3	19.4	18.8	18.2	18.1	17.8	17.2	18.3	22.6	13.5
23	17.1	17.1	16.4	15.3	14.7	14.1	13.8	15.3	17.6	20.0	20.5	21.8	22.1	22.8	23.0	22.9	21.4	20.3	19.5	18.2	18.6	19.3	18.6	18.2	18.7	23.0	13.8
24	17.9	17.2	16.0	16.3	16.6	15.7	14.5	15.3	17.3	17.9	19.2	20.2	20.3	20.5	20.7	20.2	19.4	18.4	17.5	16.5	15.6	15.2	13.9	13.2	17.3	20.7	13.2
25	12.4	12.0	13.2	11.0	10.3	12.0	11.3	12.9	14.6	16.5	18.1	19.4	20.3	21.6	21.3	21.5	20.7	19.4	18.1	17.1	16.7	16.2	16.3	15.4	16.2	21.6	10.3
26	15.4	15.0	14.4	13.7	12.9	12.1	11.7	11.8	12.5	13.9	15.5	17.3	19.0	20.3	21.1	21.3	20.8	19.5	18.1	17.3	16.7	16.4	16.0	15.5	16.2	21.3	11.7
27	14.7	14.3	13.9	12.9	12.0	11.4	10.4	10.8	12.2	13.8	15.8	17.6	19.4	20.3	21.1	21.0	20.6	18.9	17.7	16.9	16.8	16.5	16.3	15.3	15.9	21.1	10.4
28	15.7	15.5	15.1	15.5	15.1	14.8	14.1	14.9	16.6	18.3	20.1	22.4	24.3	24.9	25.3	25.2	24.3	22.8	21.3	19.7	19.0	18.5	18.2	17.7	19.1	25.3	14.1
29	16.8	17.7	17.1	16.2	14.8	14.3	14.2	15.8	18.8	21.6	23.4	23.8	24.9	25.1	25.1	24.7	23.7	22.4	21.5	20.7	19.6	19.2	19.5	19.3	20.0	25.1	14.2
30	17.3	17.5	16.0	15.1	14.2	14.0	13.6	15.5	18.6	21.6	23.8	23.7	24.1	24.3	24.7	24.2	23.1	21.7	20.9	19.3	17.9	17.2	18.2	17.2	19.3	24.7	13.6
31	17.2	16.7	16.0	15.0	13.9	13.7	13.8	15.1	18.2	21.5	23.3	24.1	23.5	24.3	24.4	23.6	22.7	21.5	20.0	18.8	17.9	17.7	17.6	16.1	19.0	24.4	13.7
Avg	18.6	18.1	17.5	17.0	16.3	15.9	15.7	16.7	19.0	20.9	22.1	23.2	24.1	24.5	24.6	24.5	23.9	22.7	21.7	20.9	20.0	19.5	19.2	18.8	20.2	--	--
Max	25.5	23.2	22.4	21.6	21.4	20.5	20.7	22.5	25.4	27.4	28.8	29.8	30.5	31.2	30.9	31.1	30.5	29.2	28.2	27.5	27.0	26.8	26.8	26.6	--	31.2	--
Min	11.3	11.3	10.3	9.8	9.4	8.8	9.0	10.6	12.2	13.3	13.5	14.2	14.9	15.3	15.3	15.4	15.6	14.5	13.8	13.5	12.2	12.8	12.7	12.5	--	--	8.8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.5	15.1	15.3	15.3	15.2	15.2	13.2	13.9	17.9	21.7	23.6	24.7	24.8	25.3	24.8	24.3	23.3	22.1	21.1	20.3	19.0	17.9	18.0	17.8	19.4	25.3	13.2
2	16.8	16.7	15.7	15.2	14.1	13.5	14.1	15.1	17.6	19.7	21.1	21.8	22.7	22.9	22.5	22.3	21.6	20.5	19.9	18.6	17.1	16.9	16.9	17.0	18.4	22.9	13.5
3	16.2	15.9	15.3	15.4	14.3	13.6	12.9	14.0	17.1	20.2	21.2	21.5	22.1	22.4	22.8	22.5	21.4	20.1	19.3	18.8	17.9	15.9	15.6	15.6	18.0	22.8	12.9
4	15.4	15.3	15.2	15.4	15.3	15.2	14.7	16.5	19.4	21.2	22.4	23.5	24.6	24.9	25.2	24.7	23.5	22.2	21.3	20.2	18.1	17.1	16.9	17.7	19.4	25.2	14.7
5	18.5	19.2	18.7	17.9	16.3	15.9	17.1	18.4	19.9	20.7	22.1	23.4	25.0	26.0	26.2	25.8	25.0	23.2	21.8	20.1	19.1	18.4	18.4	18.2	20.6	26.2	15.9
6	18.4	18.0	18.1	17.4	17.4	17.3	16.7	17.0	20.0	22.2	23.4	24.7	26.1	25.8	25.9	25.9	25.0	23.6	22.7	21.3	19.9	19.3	19.4	19.6	21.0	26.1	16.7
7	18.4	18.2	16.9	16.0	15.9	14.7	13.9	15.4	19.6	22.4	24.5	25.3	26.1	26.6	26.5	25.7	24.6	23.0	22.1	20.5	20.8	19.8	18.5	18.7	20.6	26.6	13.9
8	19.0	16.6	17.0	16.8	16.6	16.3	16.3	16.4	17.7	20.2	21.0	21.8	22.2	22.3	22.0	21.0	18.3	17.4	17.1	17.0	17.0	16.2	15.4	14.9	18.2	22.3	14.9
9	15.6	16.8	16.5	15.4	13.8	14.0	13.8	13.7	14.2	15.3	16.1	16.3	17.2	18.3	18.4	18.1	17.3	16.2	15.0	13.7	13.1	12.6	11.6	9.9	15.1	18.4	9.9
10	7.7	6.5	5.5	4.2	3.1	3.3	3.3	3.7	4.4	4.8	5.3	6.1	6.4	7.3	7.1	7.3	6.6	6.3	6.2	5.5	4.6	4.2	4.3	4.0	5.3	7.7	3.1
11	4.0	4.1	3.7	3.9	3.9	2.2	1.3	2.2	3.8	6.0	6.2	6.7	7.7	8.1	8.4	8.7	8.1	6.8	5.6	4.7	3.9	3.4	3.4	4.2	5.0	8.7	1.3
12	4.2	4.3	4.4	4.5	4.7	4.8	4.6	4.9	6.3	7.9	9.3	10.5	12.0	13.1	14.0	14.1	13.0	11.5	10.9	10.4	10.2	10.2	9.9	9.8	8.7	14.1	4.2
13	9.5	9.1	8.7	8.6	8.1	8.2	7.6	7.9	8.8	10.3	12.0	14.0	15.4	16.2	16.8	16.8	16.2	14.7	13.4	13.2	13.5	13.0	12.6	12.0	11.9	16.8	7.6
14	11.6	11.5	11.1	11.1	10.8	10.7	10.6	10.9	12.0	13.5	15.2	16.3	17.4	18.5	19.0	18.9	17.7	16.2	15.3	15.0	15.1	14.4	13.5	13.0	14.1	19.0	10.6
15	13.3	14.0	13.5	13.2	12.8	12.7	12.5	13.2	14.6	14.9	16.5	16.9	16.1	17.1	17.6	17.3	16.9	16.0	15.6	15.4	15.2	14.7	14.6	15.2	15.0	17.6	12.5
16	14.5	13.9	13.1	13.5	13.4	12.5	11.9	12.1	13.8	17.0	18.5	19.6	19.7	19.3	19.3	19.8	19.0	17.6	16.5	15.7	14.4	14.3	14.0	13.5	15.7	19.8	11.9
17	13.4	12.9	12.6	11.8	11.5	11.2	13.0	12.3	12.8	14.6	16.3	17.3	18.4	19.1	18.9	18.4	17.5	16.4	15.4	15.1	14.0	13.3	13.3	14.1	14.7	19.1	11.2
18	12.8	12.6	12.6	11.6	10.8	10.8	11.0	11.3	12.8	15.2	16.5	17.2	17.8	17.7	18.6	18.1	17.0	16.0	15.3	13.5	13.2	12.6	12.6	12.0	14.2	18.6	10.8
19	12.0	12.1	12.0	10.9	10.2	9.8	9.7	10.0	12.7	15.7	17.3	18.0	18.4	18.8	18.9	19.1	18.2	16.6	14.9	14.1	13.6	13.1	12.4	11.6	14.2	19.1	9.7
20	11.5	11.1	10.5	10.1	10.8	11.3	11.0	11.7	12.9	13.5	15.5	18.2	19.5	20.0	20.2	19.8	18.7	17.0	15.9	15.5	15.4	14.4	14.3	14.4	14.7	20.2	10.1
21	14.4	14.9	14.9	15.1	14.9	14.6	14.2	14.3	16.4	18.3	20.0	20.3	21.4	21.3	20.7	19.2	18.9	17.9	17.1	16.2	13.8	13.2	13.4	13.0	16.6	21.4	13.0
22	12.9	12.7	12.6	11.6	11.7	10.4	9.0	9.6	12.5	15.9	18.3	19.9	20.8	20.8	20.8	20.6	19.5	18.0	16.2	14.9	13.9	13.8	13.0	13.7	15.1	20.8	9.0
23	13.7	12.7	12.4	12.8	12.6	12.8	12.7	12.9	15.6	17.4	17.8	19.3	20.0	20.5	21.0	20.9	19.9	18.8	17.9	17.3	16.9	16.3	15.5	14.4	16.3	21.0	12.4
24	13.6	13.1	12.6	12.4	12.3	12.3	12.0	12.5	13.4	14.4	15.5	16.9	18.1	19.0	19.6	19.5	18.6	17.0	15.9	15.8	15.1	14.2	13.3	12.4	15.0	19.6	12.0
25	13.1	13.6	13.8	13.6	13.4	13.0	12.9	13.2	14.7	17.3	19.0	19.9	20.8	20.8	20.9	20.7	19.4	18.1	17.1	15.4	14.5	14.5	13.9	13.2	16.1	20.9	12.9
26	13.3	13.0	12.5	12.2	12.0	11.1	11.1	10.7	12.7	15.3	17.5	18.6	18.3	18.5	18.9	18.9	17.9	16.9	15.5	14.0	13.0	12.2	13.3	13.1	14.6	18.9	10.7
27	11.8	11.3	10.7	10.4	10.8	11.5	12.4	12.5	14.1	15.0	16.0	17.6	18.9	19.5	19.3	19.0	18.0	16.8	16.3	16.1	15.4	15.1	15.0	14.4	14.9	19.5	10.4
28	14.0	13.8	13.4	13.3	13.1	13.0	12.8	12.8	14.5	16.3	18.1	18.9	20.0	20.9	21.0	19.7	18.6	17.6	17.0	16.6	16.0	15.7	14.2	13.4	16.0	21.0	12.8
29	12.8	12.2	12.7	11.3	10.7	10.5	9.8	10.2	11.6	15.0	16.0	16.9	17.4	17.5	17.7	17.7	16.6	15.5	15.0	14.4	13.3	13.7	12.5	12.8	13.9	17.7	9.8
30	12.7	11.0	11.0	10.4	10.4	10.1	9.1	9.3	11.5	14.3	15.9	16.4	17.0	17.7	18.1	18.2	17.1	15.8	14.8	14.0	12.7	12.3	11.2	10.9	13.4	18.2	9.1
Avg	13.4	13.1	12.8	12.4	12.0	11.8	11.5	12.0	13.8	15.9	17.3	18.3	19.1	19.5	19.7	19.4	18.4	17.2	16.3	15.4	14.6	14.1	13.7	13.5	15.2	--	--
Max	19.0	19.2	18.7	17.9	17.4	17.3	17.1	18.4	20.0	22.4	24.5	25.3	26.1	26.6	26.5	25.9	25.0	23.6	22.7	21.3	20.8	19.8	19.4	19.6	--	26.6	--
Min	4.0	4.1	3.7	3.9	3.1	2.2	1.3	2.2	3.8	4.8	5.3	6.1	6.4	7.3	7.1	7.3	6.6	6.3	5.6	4.7	3.9	3.4	3.4	4.0	--	--	1.3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10.5	10.7	9.6	9.4	8.9	8.2	8.0	8.1	11.0	14.9	17.0	18.2	18.3	18.5	19.0	18.8	17.5	15.6	14.5	13.1	12.6	12.0	12.8	11.9	13.3	19.0	8.0
2	11.6	11.2	11.1	10.5	10.6	10.1	9.5	9.8	11.7	14.8	16.6	17.3	18.1	18.3	18.3	18.0	16.9	15.5	14.5	14.1	13.1	14.0	13.5	11.8	13.8	18.3	9.5
3	13.1	13.4	13.3	12.9	12.4	10.5	9.9	9.4	11.2	14.1	15.1	15.4	16.2	16.9	17.2	16.7	15.8	14.8	14.1	12.7	12.0	11.9	11.3	11.2	13.4	17.2	9.4
4	10.4	10.4	10.6	10.3	9.9	9.5	9.5	9.6	10.9	13.8	15.5	16.1	18.1	19.7	20.4	20.3	19.4	16.9	16.0	15.7	15.4	15.2	14.7	14.2	14.3	20.4	9.5
5	13.7	14.0	13.8	13.7	13.5	13.4	13.4	13.1	14.1	14.9	16.9	18.4	19.9	21.2	21.5	21.4	20.2	18.5	16.5	15.4	15.1	14.4	14.7	14.2	16.1	21.5	13.1
6	13.7	13.5	13.2	12.5	12.5	12.4	11.7	10.6	11.6	13.7	16.6	18.1	18.5	19.1	19.1	18.6	16.8	15.7	15.2	14.6	14.4	13.1	14.3	14.1	14.7	19.1	10.6
7	13.1	11.1	10.9	10.9	10.0	9.7	10.2	9.6	11.3	13.9	15.5	15.9	16.5	16.6	16.6	16.0	15.1	14.1	13.4	12.0	11.0	11.1	11.4	10.1	12.8	16.6	9.6
8	9.6	9.6	9.2	8.8	9.0	8.3	8.3	7.6	9.6	11.7	13.7	14.6	15.1	15.5	15.3	14.9	13.9	12.8	12.1	10.9	10.1	9.6	9.4	9.2	11.2	15.5	7.6
9	8.6	9.5	9.5	8.2	7.5	7.4	6.8	6.4	8.1	10.6	11.7	12.3	13.0	13.2	13.0	12.6	12.0	11.0	10.5	9.4	7.5	6.1	5.1	4.7	9.4	13.2	4.7
10	4.2	3.6	3.1	2.8	2.5	2.2	2.4	3.0	3.9	5.2	6.6	8.0	9.8	11.6	12.9	12.2	10.2	8.7	7.9	7.2	6.4	6.6	5.8	6.0	6.4	12.9	2.2
11	5.9	5.4	5.2	4.9	6.2	7.7	6.1	6.4	8.4	9.8	10.3	11.4	12.3	13.2	13.0	12.8	12.0	10.7	9.1	8.3	7.4	6.7	6.2	5.9	8.6	13.2	4.9
12	5.9	4.9	4.9	4.4	4.6	4.0	3.6	3.9	6.1	9.7	11.9	13.1	14.7	15.6	15.7	15.8	14.9	12.8	11.6	10.8	11.5	10.4	10.3	10.0	9.6	15.8	3.6
13	10.8	10.0	9.1	8.9	8.0	8.1	7.6	7.7	9.8	11.4	12.6	14.4	15.0	15.1	13.5	12.9	12.6	11.9	11.2	10.5	9.4	8.5	8.1	8.1	10.6	15.1	7.6
14	8.3	8.4	6.5	4.8	4.1	4.1	3.6	3.4	3.2	3.2	3.0	2.9	3.4	3.2	1.5	2.3	3.1	3.5	4.1	4.2	4.4	3.9	4.5	4.7	4.1	8.4	1.5
15	4.6	4.1	3.5	3.7	3.4	3.6	3.9	3.9	4.0	4.2	4.5	4.7	5.0	4.9	4.8	4.9	5.4	5.5	5.5	5.6	5.7	4.7	4.2	3.9	4.5	5.7	3.4
16	3.7	3.5	3.7	3.6	3.5	3.2	2.8	2.1	2.4	3.8	4.1	4.5	4.8	5.7	5.8	6.0	5.4	4.6	4.1	3.7	3.1	2.1	2.0	1.8	3.8	6.0	1.8
17	2.0	1.8	2.0	1.3	0.9	0.8	1.2	1.3	2.7	4.8	6.8	8.1	8.7	9.1	9.6	9.4	8.7	7.3	6.4	5.6	5.5	5.6	5.7	5.9	5.1	9.6	0.8
18	5.5	5.3	4.9	4.0	4.0	3.8	3.6	4.3	5.7	6.7	8.4	10.0	11.0	11.9	11.9	10.6	9.9	9.6	9.1	9.2	9.6	9.6	8.9	8.3	7.7	11.9	3.6
19	6.8	4.8	3.0	2.4	1.2	0.7	-0.3	-1.1	-0.9	-0.3	0.7	1.7	2.7	3.3	3.6	3.7	3.3	2.7	2.4	1.7	1.0	0.7	0.9	0.8	1.9	6.8	-1.1
20	0.4	0.0	0.0	0.5	0.3	0.1	0.1	0.3	1.4	2.5	3.9	5.5	6.6	7.6	7.6	7.7	7.3	6.6	6.4	6.7	6.4	6.2	6.2	5.9	4.0	7.7	0.0
21	5.5	5.4	5.1	4.6	4.5	4.2	3.9	3.8	5.2	6.6	7.7	8.8	9.8	10.8	11.4	11.6	10.4	9.1	8.6	8.6	8.5	8.4	8.6	8.5	7.5	11.6	3.8
22	8.4	8.4	8.2	8.0	7.8	7.7	7.7	7.5	8.3	10.5	12.6	13.6	14.6	15.4	15.4	14.7	13.5	12.1	11.2	9.6	9.1	9.2	8.3	8.2	10.4	15.4	7.5
23	8.1	8.3	8.5	7.3	6.2	5.2	5.8	5.1	6.2	9.1	11.3	12.7	12.7	13.0	13.1	13.5	12.2	10.5	9.5	9.8	8.1	7.9	7.7	8.0	9.2	13.5	5.1
24	8.8	7.8	6.8	6.0	6.5	6.3	5.5	5.4	5.4	6.6	7.8	8.7	9.1	9.1	8.8	8.0	7.7	7.6	7.5	7.2	7.0	6.7	6.4	6.0	7.2	9.1	5.4
25	5.8	5.8	5.4	4.6	3.8	2.3	1.6	1.9	2.5	2.9	3.2	4.0	4.4	4.8	5.1	5.2	4.7	4.3	4.2	4.2	4.2	4.2	4.3	4.4	4.1	5.8	1.6
26	3.4	3.0	3.2	3.3	3.2	2.7	2.2	1.8	3.3	5.9	8.5	9.9	10.0	9.6	9.3	8.7	7.7	6.6	6.1	5.6	5.2	4.6	4.3	3.8	5.5	10.0	1.8
27	2.6	1.6	1.3	0.9	0.5	0.7	0.1	0.2	1.5	2.8	3.5	4.4	3.8	1.5	2.1	3.6	3.4	2.9	2.5	2.2	0.4	0.6	-0.2	0.1	1.8	4.4	-0.2
28	0.4	0.7	0.4	0.0	0.0	-0.5	-1.5	-1.9	-0.5	2.5	3.7	4.8	5.9	6.6	7.3	7.4	6.4	5.0	3.8	2.1	1.1	1.4	2.1	2.6	2.5	7.4	-1.9
29	2.3	1.5	1.4	1.7	1.4	1.3	1.2	0.7	1.8	3.8	5.7	7.4	8.6	9.4	10.0	9.7	9.0	7.9	6.9	6.5	6.3	5.5	5.2	4.9	5.0	10.0	0.7
30	4.4	4.2	4.1	4.0	3.9	3.4	3.4	4.0	5.0	5.2	6.5	7.1	6.4	6.6	6.8	6.6	6.0	5.0	4.2	1.9	0.2	-0.1	0.0	0.0	4.1	7.1	-0.1
31	0.2	0.3	0.2	0.3	0.4	0.2	-0.1	-0.1	0.0	0.1	0.3	0.6	0.8	0.5	1.1	1.3	1.4	1.6	1.4	1.3	1.2	0.8	-0.3	-0.9	0.5	1.6	-0.9
Avg	6.9	6.5	6.2	5.8	5.5	5.2	4.9	4.8	6.0	7.7	9.1	10.1	10.8	11.2	11.3	11.2	10.4	9.4	8.7	8.1	7.5	7.1	7.0	6.7	7.8	--	--
Max	13.7	14.0	13.8	13.7	13.5	13.4	13.4	13.1	14.1	14.9	17.0	18.4	19.9	21.2	21.5	21.4	20.2	18.5	16.5	15.7	15.4	15.2	14.7	14.2	--	21.5	--
Min	0.2	0.0	0.0	0.0	0.0	-0.5	-1.5	-1.9	-0.9	-0.3	0.3	0.6	0.8	0.5	1.1	1.3	1.4	1.6	1.4	1.3	0.2	-0.1	-0.3	-0.9	--	--	-1.9

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	38	255	483	676	811	878	878	806	673	488	269	59	0	0	0	0	0	0	263	878	0
2	0	0	0	0	0	0	35	242	466	659	794	859	861	793	666	484	270	58	0	0	0	0	0	0	258	861	0
3	0	0	0	0	0	0	32	226	459	653	775	859	852	788	661	471	244	44	0	0	0	0	0	0	253	859	0
4	0	0	0	0	0	0	29	228	428	629	778	837	850	792	652	456	251	44	0	0	0	0	0	0	249	850	0
5	0	0	0	0	0	0	32	236	460	651	786	857	860	772	648	472	257	56	0	0	0	0	0	0	254	860	0
6	0	0	0	0	0	0	25	206	393	579	742	846	764	600	336	349	172	34	0	0	0	0	0	0	210	846	0
7	0	0	0	0	0	0	12	118	320	472	751	844	835	767	640	461	246	40	0	0	0	0	0	0	229	844	0
8	0	0	0	0	0	0	40	184	345	597	770	838	837	771	638	455	239	38	0	0	0	0	0	0	240	838	0
9	0	0	0	0	0	0	26	220	440	626	761	824	824	759	622	443	231	35	0	0	0	0	0	0	242	824	0
10	0	0	0	0	0	0	25	217	433	625	761	833	836	764	627	440	229	33	0	0	0	0	0	0	243	836	0
11	0	0	0	0	0	0	8	90	238	440	441	822	633	571	412	451	146	39	0	0	0	0	0	0	179	822	0
12	0	0	0	0	0	0	4	45	455	549	440	489	520	485	428	292	229	30	0	0	0	0	0	0	165	549	0
13	0	0	0	0	0	0	25	219	438	626	763	828	824	756	619	433	219	28	0	0	0	0	0	0	241	828	0
14	0	0	0	0	0	0	23	220	443	631	765	830	823	755	619	432	218	25	0	0	0	0	0	0	241	830	0
15	0	0	0	0	0	0	21	220	446	637	770	834	828	751	616	426	210	23	0	0	0	0	0	0	241	834	0
16	0	0	0	0	0	0	21	212	434	621	761	826	819	748	610	425	180	13	0	0	0	0	0	0	236	826	0
17	0	0	0	0	0	0	19	205	422	610	749	815	807	732	594	353	145	21	0	0	0	0	0	0	228	815	0
18	0	0	0	0	0	0	8	204	426	601	772	774	782	657	581	299	190	20	0	0	0	0	0	0	221	782	0
19	0	0	0	0	0	0	5	208	435	625	758	820	809	738	598	407	192	17	0	0	0	0	0	0	234	820	0
20	0	0	0	0	0	0	15	189	411	583	742	667	781	613	545	385	180	16	0	0	0	0	0	0	214	781	0
21	0	0	0	0	0	0	15	186	406	595	728	789	797	522	406	436	189	17	0	0	0	0	0	0	212	797	0
22	0	0	0	0	0	0	13	181	398	593	722	778	772	702	569	385	170	13	0	0	0	0	0	0	221	778	0
23	0	0	0	0	0	0	13	185	407	578	581	753	754	727	497	440	111	14	0	0	0	0	0	0	211	754	0
24	0	0	0	0	0	0	10	168	400	586	716	776	773	702	563	378	158	9	0	0	0	0	0	0	218	776	0
25	0	0	0	0	0	0	12	189	413	599	731	792	781	705	566	379	155	5	0	0	0	0	0	0	222	792	0
26	0	0	0	0	0	0	12	192	418	607	738	801	790	714	573	384	154	5	0	0	0	0	0	0	225	801	0
27	0	0	0	0	0	0	10	179	403	590	723	785	776	702	562	375	149	5	0	0	0	0	0	0	219	785	0
28	0	0	0	0	0	0	9	175	396	581	711	774	761	684	550	362	141	4	0	0	0	0	0	0	214	774	0
29	0	0	0	0	0	0	8	168	386	567	695	763	754	680	543	359	140	4	0	0	0	0	0	0	211	763	0
30	0	0	0	0	0	0	8	170	389	573	701	766	758	684	545	360	139	4	0	0	0	0	0	0	212	766	0
31	0	0	0	0	0	0	7	166	387	569	701	743	672	686	526	259	108	8	0	0	0	0	0	0	201	743	0
Avg	0	0	0	0	0	0	18	190	412	598	724	797	787	707	570	405	191	25	0	0	0	0	0	0	226	--	--
Max	0	0	0	0	0	0	40	255	483	676	811	878	878	806	673	488	270	59	0	0	0	0	0	0	--	878	--
Min	0	0	0	0	0	0	4	45	238	440	440	489	520	485	336	259	108	4	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	6	155	372	554	678	747	734	663	521	345	131	4	0	0	0	0	0	0	205	747	0
2	0	0	0	0	0	0	5	135	311	378	380	569	664	628	536	333	124	5	0	0	0	0	0	0	169	664	0
3	0	0	0	0	0	0	3	138	353	536	661	635	569	649	510	326	122	4	0	0	0	0	0	0	188	661	0
4	0	0	0	0	0	0	3	142	359	541	670	737	722	650	509	327	122	4	0	0	0	0	0	0	199	737	0
5	0	0	0	0	0	0	3	144	360	543	669	733	725	649	510	329	119	3	0	0	0	0	0	0	199	733	0
6	0	0	0	0	0	0	2	141	355	537	662	720	714	644	508	326	116	2	0	0	0	0	0	0	197	720	0
7	0	0	0	0	0	0	2	133	345	525	648	713	707	639	501	318	112	2	0	0	0	0	0	0	194	713	0
8	0	0	0	0	0	0	0	87	313	484	650	714	707	634	450	163	24	1	0	0	0	0	0	0	176	714	0
9	0	0	0	0	1	0	0	14	76	295	303	212	372	579	499	313	102	5	0	0	0	0	0	0	115	579	0
10	0	0	0	0	0	0	1	62	361	303	301	525	383	544	347	330	48	3	0	0	0	0	0	0	134	544	0
11	0	0	0	0	0	0	0	126	345	528	659	723	714	646	507	323	109	2	0	0	0	0	0	0	195	723	0
12	0	0	0	0	0	0	0	130	347	533	664	731	726	653	515	333	89	1	0	0	0	0	0	0	197	731	0
13	0	0	0	0	0	0	0	125	343	529	657	724	719	648	512	329	106	2	0	0	0	0	0	0	196	724	0
14	0	0	0	0	0	0	1	73	257	488	653	705	707	626	497	316	108	2	0	0	0	0	0	0	185	707	0
15	0	0	0	0	0	0	0	114	308	336	511	361	237	288	245	132	42	1	0	0	0	0	0	0	107	511	0
16	0	0	0	0	0	0	0	74	268	355	619	680	691	599	479	298	92	2	0	0	0	0	0	0	173	691	0
17	0	0	0	0	0	0	0	30	103	193	272	312	414	387	251	142	46	2	0	0	0	0	0	0	90	414	0
18	0	0	0	0	0	0	0	84	259	478	606	673	676	540	475	298	83	1	0	0	0	0	0	0	174	676	0
19	0	0	0	0	0	0	0	71	301	479	605	674	665	599	466	292	85	1	0	0	0	0	0	0	177	674	0
20	0	0	0	0	0	0	0	98	312	494	619	681	680	611	481	286	78	2	0	0	0	0	0	0	181	681	0
21	0	0	0	0	0	0	0	57	322	468	591	557	598	631	468	117	84	1	0	0	0	0	0	0	162	631	0
22	0	0	0	0	0	0	0	88	295	476	603	663	637	585	467	293	80	1	0	0	0	0	0	0	175	663	0
23	0	0	0	0	0	0	0	82	285	464	589	654	652	586	456	285	77	1	0	0	0	0	0	0	172	654	0
24	0	0	0	0	0	0	0	81	287	469	596	660	658	591	460	288	76	1	0	0	0	0	0	0	174	660	0
25	0	0	0	0	0	0	0	75	275	454	582	646	644	578	453	282	74	1	0	0	0	0	0	0	169	646	0
26	0	0	0	0	0	0	0	73	272	451	577	644	451	366	450	280	75	1	0	0	0	0	0	0	152	644	0
27	0	0	0	0	0	0	0	72	274	454	582	627	637	457	415	230	68	1	0	0	0	0	0	0	159	637	0
28	0	0	0	0	0	0	0	66	250	454	574	596	601	569	441	182	73	1	0	0	0	0	0	0	159	601	0
29	0	0	0	0	0	0	0	65	258	433	561	632	632	564	445	273	81	3	0	0	0	0	0	0	164	632	0
30	0	0	0	0	0	0	0	74	258	420	563	631	637	564	439	282	80	1	0	0	0	0	0	0	165	637	0
Avg	0	0	0	0	0	0	1	94	294	455	577	629	622	579	460	279	88	2	0	0	0	0	0	0	170	--	--
Max	0	0	0	0	1	0	6	155	372	554	678	747	734	663	536	345	131	5	0	0	0	0	0	0	--	747	--
Min	0	0	0	0	0	0	0	14	76	193	272	212	237	288	245	117	24	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	0	57	257	437	563	632	631	567	446	278	88	1	0	0	0	0	0	0	165	632	0
2	0	0	0	0	0	0	0	57	254	434	563	627	630	562	439	274	82	2	0	0	0	0	0	0	163	630	0
3	0	0	0	0	0	0	0	48	242	418	506	535	573	553	433	270	84	1	0	0	0	0	0	0	153	573	0
4	0	0	0	0	0	0	0	24	153	278	512	478	624	576	413	267	80	1	0	0	0	0	0	0	142	624	0
5	0	0	0	0	0	0	0	42	180	350	561	621	618	542	429	260	66	1	0	0	0	0	0	0	153	621	0
6	0	0	0	0	0	0	0	46	165	282	444	532	603	550	401	220	69	2	0	0	0	0	0	0	138	603	0
7	0	0	0	0	0	0	0	50	236	412	545	617	617	555	433	270	83	1	0	0	0	0	0	0	159	617	0
8	0	0	0	0	0	0	0	46	231	413	543	617	621	561	440	277	85	1	0	0	0	0	0	0	160	621	0
9	0	0	0	0	0	0	0	44	231	410	545	616	622	561	440	283	87	1	0	0	0	0	0	0	160	622	0
10	0	0	0	0	0	0	0	51	246	429	562	635	642	578	450	285	92	1	0	0	0	0	0	0	165	642	0
11	0	0	0	0	0	0	0	48	242	426	560	630	636	573	389	283	65	1	0	0	0	0	0	0	161	636	0
12	0	0	0	0	0	0	0	45	236	420	555	638	648	578	450	282	90	1	0	0	0	0	0	0	164	648	0
13	0	0	0	0	0	0	0	41	226	411	521	581	569	474	112	126	105	3	0	0	0	0	0	0	132	581	0
14	0	0	0	0	0	0	0	2	11	18	41	88	114	99	24	99	11	2	0	0	0	0	0	0	21	114	0
15	0	0	0	0	0	0	0	2	24	60	72	55	48	44	36	40	18	0	0	0	0	0	0	0	17	72	0
16	0	0	0	0	0	0	0	6	151	301	454	524	416	590	429	286	84	2	0	0	0	0	0	0	135	590	0
17	0	0	0	0	0	0	0	36	216	397	535	609	618	566	451	285	93	1	0	0	0	0	0	0	159	618	0
18	0	0	0	0	0	0	0	33	170	339	463	540	501	386	273	73	26	2	0	0	0	0	0	0	117	540	0
19	0	0	0	0	0	0	0	27	227	388	484	622	675	604	448	240	87	2	0	0	0	0	0	0	159	675	0
20	0	0	0	0	0	0	0	37	229	421	563	640	647	592	473	298	91	3	0	0	0	0	0	0	166	647	0
21	0	0	0	0	0	0	0	35	226	416	559	634	642	582	446	273	91	4	0	0	0	0	0	0	163	642	0
22	0	0	0	0	0	0	0	9	195	390	495	616	580	562	463	287	99	1	0	0	0	0	0	0	154	616	0
23	0	0	0	0	0	0	0	21	211	399	542	621	629	576	442	276	95	3	0	0	0	0	0	0	159	629	0
24	0	0	0	0	0	0	0	8	118	235	490	600	612	556	423	118	32	2	0	0	0	0	0	0	133	612	0
25	0	0	0	0	0	0	0	29	125	195	212	275	266	246	273	184	60	2	0	0	0	0	0	0	78	275	0
26	0	0	0	0	0	0	0	9	136	339	559	517	401	456	335	228	85	2	0	0	0	0	0	0	128	559	0
27	0	0	0	0	0	0	0	15	98	158	220	479	275	43	401	296	118	7	0	0	0	0	0	0	88	479	0
28	0	0	0	0	0	0	0	35	236	395	539	624	645	589	478	312	118	3	0	0	0	0	0	0	166	645	0
29	0	0	0	0	0	0	0	28	211	401	544	628	646	596	488	245	61	3	0	0	0	0	0	0	160	646	0
30	0	0	0	0	0	0	0	3	65	148	204	279	424	401	222	231	49	3	0	0	0	0	0	0	85	424	0
31	0	0	0	0	0	0	0	2	20	53	103	153	203	68	81	46	37	3	0	0	0	0	0	0	32	203	0
Avg	0	0	0	0	0	0	0	30	180	328	453	525	528	477	370	232	75	2	0	0	0	0	0	0	133	--	--
Max	0	0	0	0	0	0	0	57	257	437	563	640	675	604	488	312	118	7	0	0	0	0	0	0	--	675	--
Min	0	0	0	0	0	0	0	2	11	18	41	55	48	43	24	40	11	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	15	15	17	16	18	18	17	17	16	14	13	12	9	9	9	9	9	10	11	12	13	14	15	15	13	18	9
2	15	18	18	19	20	20	22	21	17	15	14	13	11	10	10	10	10	10	11	12	12	13	13	13	14	22	10
3	14	17	18	19	20	23	23	22	21	19	15	14	12	11	11	11	11	12	13	13	16	16	17	18	16	23	11
4	20	22	23	26	28	30	29	25	22	20	18	17	16	15	14	15	15	16	17	18	18	21	26	26	21	30	14
5	28	31	34	35	38	39	37	35	28	24	21	19	17	16	16	15	15	16	17	18	21	21	21	22	24	39	15
6	23	24	24	26	27	28	27	26	22	21	20	18	20	20	21	21	21	22	23	24	26	27	28	29	24	29	18
7	29	30	31	31	32	34	35	35	28	25	22	20	20	19	18	17	18	21	21	24	27	29	31	31	26	35	17
8	33	34	35	34	36	37	37	33	28	24	22	20	18	17	17	18	19	22	24	25	27	30	31	33	27	37	17
9	35	37	37	38	42	42	43	39	32	28	28	26	27	27	25	25	24	26	26	29	33	36	37	36	32	43	24
10	36	38	40	41	45	45	47	44	39	34	30	25	21	19	21	21	18	18	21	23	25	26	27	29	31	47	18
11	33	36	39	44	45	48	51	49	42	34	31	28	24	25	27	25	27	46	55	61	48	54	56	54	41	61	24
12	52	44	55	60	67	76	79	76	63	55	57	52	49	45	44	41	37	39	41	42	46	45	44	44	52	79	37
13	48	50	54	56	57	59	58	51	40	37	36	35	33	32	30	26	26	30	34	38	41	44	44	44	42	59	26
14	41	41	42	35	35	34	33	31	29	27	23	19	18	17	15	14	14	16	18	20	19	19	20	22	25	42	14
15	22	22	24	24	23	24	25	22	20	19	18	16	12	10	9	9	10	12	13	15	18	18	19	20	18	25	9
16	19	19	20	20	25	26	24	21	19	15	15	13	13	13	13	14	14	17	19	20	22	22	21	21	18	26	13
17	21	20	23	26	27	30	29	28	23	20	19	19	18	18	19	19	18	19	19	21	21	22	23	23	22	30	18
18	24	25	25	27	28	31	33	32	49	56	51	44	38	37	39	36	33	37	42	39	39	38	38	39	37	56	24
19	39	39	42	43	48	49	37	26	16	12	11	10	10	14	15	16	19	23	24	24	26	25	25	27	26	49	10
20	26	26	24	21	20	21	21	21	21	20	19	19	20	23	24	24	23	22	22	23	26	26	27	26	23	27	19
21	36	41	41	39	40	43	45	39	35	32	30	28	23	23	24	24	26	32	35	40	43	44	49	54	36	54	23
22	55	56	58	59	63	67	68	61	53	52	45	36	35	32	30	26	33	36	39	42	44	46	47	49	47	68	26
23	49	49	51	55	57	59	60	49	42	38	36	32	29	27	27	27	29	36	41	44	44	39	43	46	42	60	27
24	47	48	52	52	49	50	54	46	38	36	34	30	28	27	26	24	21	21	26	22	22	24	27	29	35	54	21
25	31	31	30	33	35	28	25	18	16	14	11	9	8	8	8	8	8	9	12	14	14	15	15	14	17	35	8
26	15	17	18	18	19	19	19	19	18	17	15	14	13	11	11	10	10	11	12	12	12	12	13	14	15	19	10
27	17	24	28	31	33	36	39	37	34	31	27	24	21	19	18	17	17	19	20	21	22	22	23	25	25	39	17
28	27	28	28	23	23	24	26	25	26	25	22	18	14	12	12	11	11	13	14	16	17	17	18	18	19	28	11
29	19	17	18	19	23	24	23	19	17	15	15	16	14	14	15	14	16	18	20	21	22	23	21	20	18	24	14
30	21	19	20	22	25	26	27	22	17	14	13	13	13	13	12	12	13	15	16	18	20	21	19	18	18	27	12
31	17	15	17	20	21	23	21	17	14	11	10	9	10	10	10	10	11	12	15	17	17	16	15	16	15	23	9
Avg	29	30	32	33	34	36	36	32	29	26	24	22	20	19	19	18	19	21	23	25	26	27	28	28	26	--	--
Max	55	56	58	60	67	76	79	76	63	56	57	52	49	45	44	41	37	46	55	61	48	54	56	54	--	79	--
Min	14	15	17	16	18	18	17	17	14	11	10	9	8	8	8	8	8	9	11	12	12	12	13	13	--	--	8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	15	16	15	15	16	16	18	18	14	11	10	9	10	10	11	12	13	15	16	17	18	20	21	21	15	21	9
2	22	22	23	24	26	27	26	24	20	18	17	16	16	17	17	17	17	20	21	23	26	26	26	26	22	27	16
3	27	28	29	30	31	33	34	31	25	21	19	19	19	19	19	19	21	24	25	27	28	31	31	31	26	34	19
4	32	32	32	30	27	26	25	20	16	15	14	14	13	12	11	11	14	16	18	20	21	18	16	14	19	32	11
5	13	12	13	14	16	16	14	13	12	12	11	11	10	9	8	8	9	12	13	15	15	16	18	19	13	19	8
6	19	20	19	21	21	21	22	21	18	16	15	13	11	11	11	11	12	14	15	17	19	18	17	17	17	22	11
7	19	19	21	24	24	25	26	22	17	15	13	12	11	12	12	13	14	16	16	18	17	18	19	19	18	26	11
8	19	22	22	22	23	24	24	23	20	17	15	15	14	14	14	16	31	36	38	37	36	39	41	43	25	43	14
9	43	42	45	54	67	70	72	74	70	64	61	61	56	41	35	31	30	30	35	50	57	59	71	92	55	92	30
10	97	98	98	98	98	97	93	81	73	77	71	66	60	50	47	42	46	48	42	50	58	61	59	58	70	98	42
11	50	42	44	40	40	50	57	51	44	31	28	32	33	35	35	27	26	33	41	47	51	53	47	31	40	57	26
12	31	29	28	28	27	27	26	25	25	22	20	18	16	15	14	13	13	15	15	17	17	17	18	17	20	31	13
13	16	16	16	16	17	17	20	20	20	18	17	13	12	12	12	12	13	15	17	16	15	14	14	17	16	20	12
14	20	19	19	18	18	18	18	17	16	15	14	14	13	12	12	11	11	12	13	13	12	14	15	15	15	20	11
15	15	14	14	15	15	16	17	17	17	18	17	18	19	18	18	18	17	19	19	19	20	22	23	20	18	23	14
16	21	22	23	23	23	25	26	26	24	20	18	16	16	17	16	15	15	17	19	20	23	22	22	23	20	26	15
17	22	24	24	26	26	28	27	28	29	30	25	25	25	26	30	30	29	30	32	31	34	34	37	37	29	37	22
18	45	47	48	52	54	52	49	45	42	43	41	40	36	35	33	35	41	47	50	55	56	58	57	59	47	59	33
19	57	56	56	59	63	64	64	60	50	43	37	33	31	30	30	29	31	38	43	45	43	40	40	44	45	64	29
20	47	49	50	51	47	44	43	40	38	37	34	29	22	20	19	20	24	27	29	29	30	33	34	35	35	51	19
21	36	35	36	35	36	36	37	37	33	31	26	26	25	24	24	26	26	29	33	35	40	41	38	36	33	41	24
22	33	31	29	32	30	35	48	46	39	30	22	14	13	15	16	17	22	27	30	32	29	26	26	23	28	48	13
23	25	27	28	27	27	27	27	26	21	17	17	15	14	15	16	17	19	20	21	22	23	24	27	29	22	29	14
24	29	29	29	27	26	26	26	25	25	23	22	21	20	19	18	18	20	22	24	25	27	28	30	32	25	32	18
25	31	29	28	29	29	30	30	29	28	25	23	22	21	20	19	20	23	27	29	32	34	34	35	36	28	36	19
26	36	37	39	39	38	40	40	40	35	29	25	23	22	23	21	21	23	26	29	32	35	35	30	29	31	40	21
27	31	34	36	36	33	31	29	29	27	26	24	21	19	18	18	19	19	20	21	21	23	24	24	25	25	36	18
28	25	26	27	28	29	29	31	31	29	27	25	24	23	21	21	23	24	26	27	28	30	31	34	36	27	36	21
29	37	38	37	40	42	42	44	41	37	30	28	27	26	25	24	24	28	31	34	37	40	39	41	40	35	44	24
30	42	47	50	55	57	59	62	60	52	44	41	35	33	33	30	29	33	37	42	45	48	49	49	46	45	62	29
Avg	32	32	33	34	34	35	36	34	30	28	25	23	22	21	20	20	22	25	27	29	31	31	32	32	29	--	--
Max	97	98	98	98	98	97	93	81	73	77	71	66	60	50	47	42	46	48	50	55	58	61	71	92	--	98	--
Min	13	12	13	14	15	16	14	13	12	11	10	9	10	9	8	8	9	12	13	13	12	14	14	14	--	--	8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	44	42	46	48	51	57	61	58	44	35	30	25	26	28	27	27	32	39	43	48	46	45	37	39	41	61	25
2	39	40	42	45	45	46	50	48	41	33	33	29	26	26	27	27	31	37	41	43	46	44	46	50	39	50	26
3	47	45	47	49	51	57	61	61	53	44	42	40	38	35	34	36	40	45	48	52	55	56	57	56	48	61	34
4	58	59	59	61	63	65	63	61	56	45	39	37	31	27	24	23	24	29	32	31	29	33	35	37	43	65	23
5	38	35	34	34	33	32	32	32	30	29	25	22	20	18	16	13	17	22	26	27	26	26	25	26	27	38	13
6	28	28	28	30	31	31	32	35	34	31	25	23	21	20	20	22	27	31	32	34	35	38	35	35	29	38	20
7	38	42	43	43	46	47	46	46	39	33	31	33	33	33	33	34	38	42	45	49	52	52	53	56	42	56	31
8	58	59	60	61	61	63	62	63	52	46	42	35	32	33	31	32	36	39	42	45	48	49	49	47	48	63	31
9	49	46	48	51	53	55	54	51	43	37	35	32	28	26	24	25	26	29	31	30	25	26	27	24	36	55	24
10	22	21	21	21	20	20	18	16	14	13	12	12	10	10	11	10	11	12	13	15	17	19	21	22	16	22	10
11	23	25	27	29	28	26	30	29	25	22	21	20	18	17	16	15	17	20	22	23	24	25	25	25	23	30	15
12	25	27	26	27	27	28	29	27	22	18	14	13	12	11	11	11	12	15	16	17	17	20	21	21	19	29	11
13	23	24	24	26	27	28	30	31	28	29	28	24	24	25	33	34	50	55	57	64	80	91	94	95	43	95	23
14	92	87	94	93	89	90	95	96	97	98	98	98	98	96	97	96	94	91	88	89	87	91	86	84	93	98	84
15	83	89	95	94	95	97	97	97	98	98	98	95	94	95	98	98	95	97	98	99	99	99	99	99	96	99	83
16	99	99	99	99	99	99	99	99	89	81	80	74	68	63	62	59	64	70	74	76	82	87	87	87	83	99	59
17	84	82	75	78	83	86	82	78	69	66	58	51	51	50	49	51	57	67	70	74	74	72	71	71	69	86	49
18	73	74	75	78	78	80	79	75	69	68	61	55	51	48	48	60	62	64	67	67	67	69	73	74	67	80	48
19	90	97	98	98	87	70	73	79	75	73	72	67	63	61	60	61	63	69	71	76	76	49	39	35	71	98	35
20	35	36	36	32	34	35	35	34	32	31	29	26	25	25	28	25	21	23	21	19	20	21	20	20	28	36	19
21	20	17	17	19	19	20	21	21	19	19	18	18	19	19	18	17	19	20	21	21	21	21	20	20	19	21	17
22	20	21	22	22	22	24	23	24	23	22	21	20	21	26	32	34	38	35	37	41	44	44	46	45	29	46	20
23	44	43	42	45	48	53	52	54	49	40	34	23	29	29	30	27	36	40	40	30	31	22	20	20	37	54	20
24	21	29	45	53	55	55	59	60	58	54	49	45	48	52	53	57	63	64	66	68	69	72	74	76	56	76	21
25	78	79	83	89	92	88	73	58	55	44	31	27	29	29	28	29	32	34	34	34	35	34	34	37	49	92	27
26	41	44	43	41	40	41	43	44	41	35	32	29	21	30	30	18	26	32	34	37	40	43	46	47	37	47	18
27	52	56	56	57	60	59	62	62	58	55	54	50	60	84	85	70	63	67	70	70	81	80	84	82	66	85	50
28	82	86	87	86	85	85	87	86	82	72	65	56	45	40	34	32	43	57	63	69	63	61	52	42	65	87	32
29	39	41	42	41	45	52	55	58	52	45	40	33	30	28	28	28	30	34	36	36	36	38	38	39	39	58	28
30	41	40	40	41	41	44	43	41	38	41	37	35	42	39	39	40	41	44	48	76	96	97	97	97	52	97	35
31	98	98	97	97	96	97	98	98	98	98	98	98	95	93	88	81	85	82	81	80	78	79	85	87	91	98	78
Avg	51	52	53	54	55	56	56	56	51	47	44	40	39	39	39	39	42	45	47	50	52	52	51	51	48	--	--
Max	99	99	99	99	99	99	99	99	98	98	98	98	98	96	98	98	95	97	98	99	99	99	99	99	--	99	--
Min	20	17	17	19	19	20	18	16	14	13	12	12	10	10	11	10	11	12	13	15	17	19	20	20	--	--	10

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.008	0	0	0.024	0	0.004	0.056	0.024	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.008	0	0	0.024	0	0.004	0.056	--	--
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.008	0	0	0.024	0	0.004	--	0.024	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0.004	0.039	0.02	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.083	0.039	0
10	0.19	0.178	0.192	0.154	0.048	0.048	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.814	0.192	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.19	0.178	0.196	0.193	0.068	0.048	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.897	--	--
Max	0.19	0.178	0.192	0.154	0.048	0.048	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	--	0.192	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.052	0.076	0.083	0.323	0.538	0.323	0
14	0.162	0.016	0.095	0.126	0.063	0.024	0.028	0.008	0.008	0	0.004	0.024	0.004	0.032	0.137	0.064	0.091	0.008	0.012	0	0	0.012	0	0	0.918	0.162	0
15	0.004	0.072	0.126	0.076	0.182	0.088	0	0	0.008	0	0	0.028	0.012	0.079	0.032	0.008	0.008	0.08	0.028	0.052	0.161	0.096	0.028	0.024	1.192	0.182	0
16	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.008	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0.083	0.264	0.202	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.573	0.264	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.008	0	0	0	0	0	0	0	0	0	0.024	0.016	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012	0.032	0.064	0.048	0.156	0.064	0
31	0.028	0.024	0.004	0.012	0.004	0.036	0.04	0.028	0.02	0.008	0	0	0	0.012	0.004	0.004	0	0.004	0.004	0	0	0	0	0	0.232	0.04	0
Total	0.285	0.376	0.427	0.238	0.249	0.148	0.068	0.036	0.036	0.008	0.004	0.052	0.016	0.139	0.181	0.076	0.099	0.092	0.044	0.056	0.225	0.216	0.175	0.395	3.641	--	--
Max	0.162	0.264	0.202	0.126	0.182	0.088	0.04	0.028	0.02	0.008	0.004	0.028	0.012	0.079	0.137	0.064	0.091	0.08	0.028	0.052	0.161	0.096	0.083	0.323	--	0.323	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	654	654	653	653	654	654	654	654	655	655	655	655	654	654	654	653	653	653	653	653	653	653	654	653	654	655	653
2	653	653	653	653	653	653	654	654	654	654	654	654	653	653	652	652	652	652	652	652	652	653	653	653	653	654	652
3	653	653	653	653	653	653	654	654	655	655	655	655	655	654	654	654	654	654	654	654	655	655	655	655	654	655	653
4	655	655	655	655	655	656	656	656	657	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	656	657	655
5	655	655	655	655	655	655	655	655	656	656	656	655	655	654	654	653	653	653	653	653	653	653	653	653	654	656	653
6	653	653	653	653	653	653	653	653	654	654	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	654	652
7	652	652	651	651	652	652	652	653	653	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	653	651
8	653	653	652	652	653	653	653	654	654	654	654	654	653	653	653	652	652	652	652	653	653	653	653	653	653	654	652
9	653	653	653	653	653	653	653	654	654	654	654	654	653	653	652	652	652	652	652	653	653	653	653	653	653	654	652
10	653	654	653	653	653	654	654	654	654	654	654	654	653	652	652	652	652	652	651	652	652	652	652	652	653	654	651
11	652	652	652	652	652	652	652	652	653	653	653	652	652	651	651	651	651	651	651	651	652	652	652	651	652	653	651
12	651	651	651	652	652	652	653	653	654	654	655	655	654	654	654	654	654	654	654	654	654	655	655	655	654	655	651
13	655	655	655	655	655	655	655	656	656	657	656	656	656	655	655	654	654	654	654	655	655	655	655	655	655	657	654
14	655	655	655	655	655	655	655	655	656	656	656	656	655	655	655	654	654	654	654	654	655	655	655	655	655	656	654
15	654	654	654	654	654	654	654	654	655	655	654	654	654	653	653	653	652	652	652	652	652	653	653	652	653	655	652
16	652	652	652	652	652	652	652	652	652	652	652	652	651	651	651	650	650	650	650	651	651	651	651	651	651	652	650
17	651	651	651	651	651	651	651	652	652	653	653	652	652	652	651	652	652	652	652	653	653	653	653	653	652	653	651
18	654	654	654	654	654	654	654	655	655	656	656	655	655	654	654	654	654	653	653	654	654	654	654	654	654	656	653
19	654	654	653	653	653	653	653	653	654	654	654	653	653	652	651	651	651	651	651	651	651	651	652	651	652	654	651
20	651	651	651	651	651	651	651	651	652	652	652	651	651	650	650	650	650	650	650	650	650	650	650	650	651	652	650
21	651	651	651	651	651	651	651	651	652	652	652	651	651	650	650	650	650	650	651	651	651	651	651	651	651	652	650
22	651	651	651	651	651	651	652	652	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	652	653	651
23	651	651	651	651	651	651	651	652	652	652	652	652	652	651	651	651	651	651	651	651	651	651	651	651	651	652	651
24	651	651	651	651	651	651	651	651	652	652	652	652	652	651	651	651	651	651	651	652	652	652	652	652	651	652	651
25	652	653	652	652	653	653	653	653	654	654	654	654	653	653	653	652	652	652	652	653	653	653	653	653	653	654	652
26	653	653	653	653	653	653	654	654	654	655	655	654	654	653	653	652	652	652	653	653	653	653	653	653	653	655	652
27	653	652	652	652	652	652	653	653	654	654	653	653	652	652	652	652	652	652	652	653	653	653	653	653	653	654	652
28	653	653	653	653	653	653	654	654	654	655	655	655	654	654	653	653	653	654	654	654	654	655	655	655	654	655	653
29	655	655	655	655	655	655	656	656	657	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	656	657	655
30	655	655	655	655	655	655	655	655	656	656	656	656	655	654	654	654	654	654	654	654	654	654	654	654	655	656	654
31	654	654	654	654	654	654	654	654	655	655	655	655	654	654	653	653	653	653	653	653	653	654	654	654	654	655	653
Avg	653	653	653	653	653	653	653	654	654	654	654	654	653	653	653	653	652	652	652	653	653	653	653	653	653	--	--
Max	655	655	655	655	655	656	656	656	657	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	--	657	--
Min	651	651	651	651	651	651	651	651	652	652	652	651	651	650	650	650	650	650	650	650	650	650	650	650	--	--	650

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	654	654	653	653	653	653	653	654	654	654	654	654	653	653	652	652	652	652	652	652	652	652	652	652	653	654	652
2	652	652	652	652	652	652	652	653	653	653	653	653	653	652	652	652	652	652	652	652	652	652	653	653	652	653	652
3	653	653	653	653	653	653	654	654	655	655	655	655	654	654	654	654	654	654	654	654	655	655	655	655	654	655	653
4	655	655	655	655	655	655	655	656	656	657	657	657	656	656	655	655	655	656	656	656	656	656	656	657	656	657	655
5	656	656	656	656	656	656	656	656	657	657	657	657	656	656	655	655	655	655	655	656	656	656	656	656	656	657	655
6	656	656	656	655	656	656	656	656	657	657	657	657	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
7	655	655	655	655	655	655	655	655	656	656	656	655	654	654	653	653	653	653	653	653	653	653	653	653	654	656	653
8	653	652	652	652	652	652	652	652	653	653	653	653	652	652	651	651	651	652	652	652	652	651	651	651	652	653	651
9	651	651	651	651	650	650	650	650	651	651	650	650	649	648	648	648	648	648	648	648	648	648	648	648	649	651	648
10	648	647	648	648	649	649	649	650	650	651	651	651	650	650	650	649	650	650	650	650	651	651	652	652	650	652	647
11	653	653	653	653	654	654	654	655	656	656	657	657	656	656	656	656	657	657	657	658	658	658	658	658	656	658	653
12	658	657	656	656	656	657	657	657	658	658	657	657	656	655	655	655	655	656	656	656	656	656	656	656	656	658	655
13	656	656	656	656	656	656	656	656	656	656	656	656	655	655	655	655	655	655	655	655	655	656	655	655	655	656	655
14	656	656	656	655	655	655	656	656	656	656	656	656	655	655	655	654	654	654	654	655	655	655	655	655	655	656	654
15	655	655	655	654	655	655	655	655	656	656	656	656	656	655	655	655	655	655	656	655	656	656	655	655	655	656	654
16	655	655	655	654	654	654	654	655	655	656	656	656	655	655	655	655	655	655	655	655	655	655	656	655	655	656	654
17	655	655	655	655	654	654	655	655	656	656	656	656	655	655	654	654	654	654	654	654	654	655	655	655	655	656	654
18	655	654	655	654	654	654	655	655	655	656	656	655	655	655	655	655	655	655	655	655	656	656	656	656	655	656	654
19	656	656	656	656	656	656	657	657	658	658	658	658	657	657	657	657	657	657	657	657	657	657	657	657	657	658	656
20	657	657	657	656	656	656	656	657	657	657	657	656	656	655	654	654	654	654	654	655	655	655	655	655	656	657	654
21	654	654	654	654	654	654	654	654	655	655	655	655	654	654	654	653	653	653	654	654	654	654	654	654	654	655	653
22	654	654	654	654	654	654	654	655	655	656	656	656	655	655	655	655	655	655	655	656	656	656	656	656	655	656	654
23	656	657	657	657	657	657	657	657	658	658	659	658	658	657	657	657	657	657	657	657	657	657	657	658	657	659	656
24	657	657	657	657	657	657	657	657	657	657	657	656	655	655	654	654	654	654	654	654	654	654	654	653	655	657	653
25	653	653	653	652	652	652	652	653	653	653	653	653	652	651	651	651	651	651	651	651	651	652	652	652	652	653	651
26	652	652	652	652	652	653	653	654	654	655	655	655	654	654	654	654	654	654	654	655	655	655	656	656	654	656	652
27	656	656	656	656	656	656	657	657	658	658	658	658	657	657	656	656	656	656	656	656	656	656	656	657	656	658	656
28	657	656	656	656	656	656	656	657	657	657	657	657	656	656	656	655	655	655	656	656	656	656	656	656	656	657	655
29	656	656	656	656	656	656	656	656	657	657	657	657	657	656	656	656	656	656	656	656	656	656	656	656	656	657	656
30	656	656	656	656	655	656	656	656	656	657	657	656	656	655	655	655	655	655	655	655	655	655	655	655	655	657	655
Avg	655	655	654	654	654	654	655	655	655	656	656	655	655	654	654	654	654	654	654	654	655	655	655	655	655	--	--
Max	658	657	657	657	657	657	657	657	658	658	659	658	658	657	657	657	657	657	657	658	658	658	658	658	--	659	--
Min	648	647	648	648	649	649	649	650	650	651	650	650	649	648	648	648	648	648	648	648	648	648	648	648	--	--	647

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	655	655	655	654	655	655	655	655	655	656	656	656	655	654	654	654	654	654	654	654	654	654	654	654	655	656	654
2	654	654	654	654	654	654	654	654	655	655	655	655	654	654	654	654	654	654	654	654	654	654	654	654	654	655	654
3	654	654	654	654	654	654	655	655	655	656	656	656	655	655	655	655	655	655	655	656	656	656	656	656	655	656	654
4	656	656	656	657	657	657	657	658	658	658	659	658	657	657	657	657	657	657	657	657	657	657	657	657	657	659	656
5	657	657	656	656	656	656	656	656	656	656	656	656	655	654	654	654	653	653	653	653	653	653	653	653	655	657	653
6	653	652	652	652	652	651	651	652	652	652	652	652	651	650	650	650	650	650	650	650	650	650	650	650	651	653	650
7	650	650	650	650	650	650	650	651	651	652	652	651	651	651	650	650	651	651	651	651	651	651	651	651	651	652	650
8	651	651	651	651	651	651	651	651	652	652	652	652	651	651	650	650	650	650	651	651	651	651	651	651	651	652	650
9	651	651	651	651	651	651	651	651	652	652	652	652	652	651	651	652	652	652	653	653	653	654	654	654	652	654	651
10	654	654	654	654	654	654	654	654	654	654	655	654	653	653	652	652	652	652	652	652	652	652	653	652	653	655	652
11	652	652	652	652	652	652	653	653	653	654	654	653	653	652	652	652	652	652	652	652	652	653	653	653	653	654	652
12	653	653	652	652	652	652	652	653	653	653	653	653	653	652	652	651	651	651	651	651	651	651	651	651	652	653	651
13	652	651	651	651	651	651	651	651	651	651	651	651	650	650	649	649	649	648	648	647	647	647	646	646	650	652	646
14	646	645	645	646	645	645	646	646	647	648	649	649	649	649	650	650	651	651	651	652	652	652	652	651	649	652	645
15	651	651	651	651	651	650	651	651	651	651	652	651	650	650	650	650	649	649	650	650	650	650	651	651	650	652	649
16	651	651	651	651	651	652	652	652	653	653	654	654	654	653	653	653	653	653	654	654	654	655	655	655	653	655	651
17	655	654	654	654	654	654	654	655	655	655	655	655	654	654	653	653	653	652	652	652	653	652	652	652	654	655	652
18	651	651	651	651	650	650	650	650	650	651	650	650	648	648	647	648	647	647	647	647	646	646	646	646	649	651	646
19	645	645	646	646	647	648	648	650	651	652	653	653	653	653	654	654	654	655	656	656	657	657	657	658	652	658	645
20	657	657	657	657	657	657	658	658	658	658	658	658	657	657	656	656	656	656	656	656	656	656	656	656	657	658	656
21	656	655	655	655	655	655	655	655	655	656	656	655	655	654	654	654	654	654	655	655	655	655	655	655	655	656	654
22	654	654	654	654	654	654	654	654	655	655	655	655	655	654	654	654	654	654	654	654	654	655	655	655	654	655	654
23	654	654	654	654	654	654	654	654	655	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	654	655	653
24	653	652	652	652	651	651	651	652	652	652	652	652	651	650	650	649	649	649	649	649	650	650	650	651	651	653	649
25	651	651	651	651	651	651	651	652	652	653	653	653	653	652	652	652	651	652	652	652	652	652	651	651	652	653	651
26	651	651	651	650	650	649	649	650	650	650	650	650	649	648	648	648	648	648	648	648	648	649	649	649	649	651	648
27	649	649	649	648	648	648	648	648	648	649	649	649	648	648	648	648	648	649	649	650	650	650	651	651	649	651	648
28	651	652	652	652	652	652	652	653	653	654	654	654	653	653	653	653	653	653	654	654	654	654	654	654	653	654	651
29	654	654	654	653	653	653	653	653	654	654	654	653	652	652	651	652	651	651	651	651	651	651	651	651	652	654	651
30	650	650	650	650	649	649	649	649	649	650	650	649	648	648	647	647	647	647	648	648	648	649	649	649	649	650	647
31	649	649	650	650	650	650	651	651	652	652	653	653	653	652	653	653	653	653	654	654	654	654	655	655	652	655	649
Avg	652	652	652	652	652	652	652	652	653	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	--	--
Max	657	657	657	657	657	657	658	658	658	658	659	658	657	657	657	657	657	657	657	657	657	657	657	658	--	659	--
Min	645	645	645	646	645	645	646	646	647	648	649	649	648	648	647	647	647	647	647	647	646	646	646	646	--	--	645

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.3	4.4	1.7	3.9	3.2	2.6	4.3	3.5	4.6	4.9	5.3	2.8	3.0	2.9	2.8	2.3	2.4	2.3	1.8	1.3	1.9	0.8	1.8	4.3	3.1	6.3	0.8
2	3.5	4.9	3.1	2.9	2.5	2.8	3.3	3.3	3.1	2.5	1.8	3.4	2.3	4.5	4.8	4.9	5.2	4.0	1.2	0.2	0.3	0.4	0.4	0.6	2.8	5.2	0.2
3	0.8	1.8	2.0	0.8	2.2	1.8	2.0	1.0	1.7	2.0	1.8	2.8	4.0	4.8	5.3	5.5	4.6	3.4	1.8	0.9	0.7	0.3	1.2	1.7	2.3	5.5	0.3
4	1.5	1.8	2.5	1.4	1.5	1.6	1.9	2.8	2.5	3.0	3.1	2.9	3.9	5.3	4.1	4.4	4.7	3.9	2.8	0.6	0.5	0.7	0.9	0.7	2.5	5.3	0.5
5	1.4	1.5	1.5	2.2	3.6	3.7	1.7	2.0	1.7	2.2	2.3	1.9	2.7	3.6	3.6	3.4	3.7	3.4	1.6	1.2	0.8	0.9	0.7	0.8	2.2	3.7	0.7
6	0.9	0.4	0.9	1.6	1.5	3.8	2.5	1.2	2.7	2.8	1.9	2.6	3.1	3.8	3.9	3.0	3.2	2.0	1.0	1.2	0.6	1.0	0.5	0.3	1.9	3.9	0.3
7	0.4	0.3	0.3	0.5	0.9	0.3	1.7	3.9	3.7	1.5	1.7	2.0	3.1	3.0	3.5	3.6	4.2	3.7	1.3	0.7	0.5	0.8	0.4	0.9	1.8	4.2	0.3
8	1.7	2.0	2.1	1.5	0.9	1.7	1.2	2.8	2.9	1.1	3.4	3.4	3.8	3.7	4.1	4.5	3.8	2.8	1.3	0.3	0.3	0.8	0.3	1.1	2.1	4.5	0.3
9	0.6	0.2	0.3	0.8	0.6	0.5	2.8	3.8	2.7	1.2	1.5	2.3	2.3	3.1	3.1	3.2	3.0	3.3	1.7	0.6	0.8	1.1	1.2	0.8	1.7	3.8	0.2
10	1.3	0.7	0.8	0.6	1.9	3.9	2.3	0.6	0.6	1.1	2.6	3.0	3.9	3.7	3.2	3.4	4.1	2.8	1.7	1.2	1.1	1.1	1.2	0.8	2.0	4.1	0.6
11	0.6	0.9	1.3	1.6	2.3	4.2	4.1	2.9	5.0	6.1	5.1	5.2	4.8	6.1	6.0	5.7	4.4	4.4	1.8	0.8	0.6	2.4	2.9	1.5	3.4	6.1	0.6
12	1.4	2.4	2.5	3.1	3.9	3.9	2.9	3.9	1.9	4.0	4.1	4.1	4.6	4.2	5.0	4.1	3.7	3.6	1.7	0.5	0.5	0.6	0.7	1.1	2.8	5.0	0.5
13	0.5	0.4	0.6	0.6	0.5	1.2	2.2	1.5	1.1	1.4	2.1	3.3	2.9	2.8	2.2	2.5	2.6	3.2	1.2	1.2	0.5	1.0	0.6	0.7	1.5	3.3	0.4
14	0.9	0.9	2.1	1.3	2.1	2.7	3.0	3.0	4.8	4.4	3.6	2.0	2.9	2.6	3.6	4.2	2.9	3.3	2.4	3.7	4.2	4.4	4.5	5.9	3.1	5.9	0.9
15	5.2	4.4	5.1	5.7	4.2	5.4	6.4	6.0	5.4	3.2	3.7	3.5	3.0	2.2	1.9	2.1	3.8	3.3	0.8	0.7	0.8	0.5	0.8	0.9	3.3	6.4	0.5
16	0.6	1.0	0.7	0.5	2.2	2.7	2.5	0.8	0.8	0.8	1.3	2.6	2.6	3.2	3.3	3.4	3.3	2.9	1.2	0.6	1.1	1.0	0.6	0.5	1.7	3.4	0.5
17	0.9	0.4	0.7	1.3	0.6	1.0	0.8	0.6	0.7	1.0	1.7	2.4	4.3	4.2	4.5	4.7	4.3	3.0	0.7	0.4	0.3	0.8	0.6	0.3	1.7	4.7	0.3
18	0.7	0.8	0.6	0.8	0.3	0.8	0.8	0.3	0.8	1.5	1.6	2.5	3.4	4.0	4.0	3.9	4.3	3.3	1.1	0.8	1.3	0.6	0.3	0.6	1.6	4.3	0.3
19	0.5	1.0	1.5	1.6	2.2	4.2	6.5	6.6	2.4	1.3	2.5	2.6	3.1	3.3	3.5	3.4	4.0	3.5	0.5	0.3	0.8	0.4	1.0	0.8	2.4	6.6	0.3
20	0.8	1.5	1.2	1.1	1.3	0.6	0.5	0.5	0.7	1.1	1.8	2.9	4.5	5.1	5.8	4.8	4.2	3.1	1.0	0.5	0.4	1.0	0.8	1.1	1.9	5.8	0.4
21	1.2	1.1	0.8	0.8	1.6	1.1	2.0	2.4	0.8	3.4	4.5	4.0	5.3	5.4	4.9	4.6	5.1	4.4	1.3	0.8	0.9	0.8	0.9	0.4	2.4	5.4	0.4
22	0.2	0.3	0.2	0.6	0.5	1.4	1.7	2.2	2.0	1.3	2.8	3.3	2.9	3.4	3.6	3.9	3.6	3.1	1.2	1.3	2.0	0.6	0.4	0.7	1.8	3.9	0.2
23	0.7	0.3	0.8	0.5	1.6	2.7	3.4	2.8	1.6	1.3	3.0	4.1	3.5	4.4	4.1	4.1	3.7	2.1	0.9	1.1	0.4	1.1	0.9	0.6	2.1	4.4	0.3
24	0.3	0.7	1.2	0.8	0.1	0.3	0.5	0.2	0.7	1.6	2.3	4.3	4.4	5.0	5.8	5.3	5.0	3.3	2.3	1.2	0.9	0.7	1.5	0.9	2.1	5.8	0.1
25	1.2	0.6	0.4	1.1	0.9	0.6	1.0	0.4	1.0	1.2	1.7	2.1	2.9	2.8	3.1	3.5	2.9	2.2	0.7	0.4	0.6	0.8	0.8	1.1	1.4	3.5	0.4
26	1.5	5.4	10.4	8.4	7.8	9.8	7.9	8.6	9.0	7.6	7.1	6.9	6.0	4.6	3.7	4.1	3.9	3.8	5.6	6.2	7.1	7.6	8.4	9.7	6.7	10.4	1.5
27	10.2	8.8	7.2	7.7	8.9	7.1	7.9	8.8	8.0	8.2	6.3	5.8	5.2	4.0	2.6	2.8	2.1	2.6	3.5	3.8	2.9	4.3	6.1	4.3	5.8	10.2	2.1
28	3.2	3.1	6.5	2.0	3.1	4.5	4.1	2.4	2.9	2.4	3.1	2.7	1.6	2.9	2.4	3.2	3.7	2.7	0.9	1.4	0.7	0.4	0.3	0.5	2.5	6.5	0.3
29	0.6	0.8	0.7	1.3	1.5	2.2	2.9	4.8	5.5	2.5	1.2	1.9	2.5	3.0	3.3	3.8	4.0	2.1	0.6	0.2	1.2	0.8	0.4	0.3	2.0	5.5	0.2
30	0.3	0.4	0.9	2.9	4.2	2.9	1.6	2.5	3.9	1.2	1.3	2.2	3.4	2.4	3.3	4.1	3.6	2.3	1.1	0.6	0.7	0.3	0.3	0.4	1.9	4.2	0.3
31	0.5	1.2	1.9	3.0	3.1	4.6	2.3	5.8	4.0	1.7	1.9	2.2	2.7	3.1	3.4	2.9	2.7	1.8	0.9	1.7	1.3	0.5	1.3	2.0	2.4	5.8	0.5
Avg	1.6	1.8	2.0	2.0	2.3	2.8	2.9	3.0	2.9	2.6	2.8	3.1	3.5	3.8	3.8	3.8	3.8	3.1	1.5	1.2	1.2	1.2	1.4	1.5	2.5	--	--
Max	10.2	8.8	10.4	8.4	8.9	9.8	7.9	8.8	9.0	8.2	7.1	6.9	6.0	6.1	6.0	5.7	5.2	4.4	5.6	6.2	7.1	7.6	8.4	9.7	--	10.4	--
Min	0.2	0.2	0.2	0.5	0.1	0.3	0.5	0.2	0.6	0.8	1.2	1.9	1.6	2.2	1.9	2.1	2.1	1.8	0.5	0.2	0.3	0.3	0.3	0.3	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.8	3.5	3.6	4.4	4.8	4.5	2.5	5.4	4.6	1.5	1.2	2.2	2.4	3.3	4.3	4.2	3.7	2.5	0.5	0.5	0.7	0.7	0.8	1.6	2.7	5.4	0.5
2	1.7	0.8	1.4	2.5	4.2	4.8	4.1	5.3	3.7	1.8	1.5	2.8	2.2	3.4	3.8	3.9	3.1	2.3	0.7	0.7	0.5	0.5	1.7	0.8	2.4	5.3	0.5
3	0.2	0.5	0.4	0.5	1.9	3.5	1.9	2.8	2.5	0.9	1.3	1.8	2.2	3.1	3.0	3.5	4.2	2.1	0.6	0.4	0.1	0.6	0.8	0.9	1.7	4.2	0.1
4	0.6	0.6	0.9	2.8	4.1	5.5	2.0	0.6	0.6	1.9	2.1	3.2	2.2	2.5	2.7	3.4	3.5	1.7	1.1	0.7	1.1	0.9	0.9	1.8	2.0	5.5	0.6
5	1.7	2.1	1.5	2.0	2.4	2.2	1.7	0.9	1.2	2.5	4.0	4.9	2.8	1.7	2.6	2.9	2.8	1.7	0.6	1.1	0.5	2.8	2.9	2.5	2.2	4.9	0.5
6	2.0	1.4	1.2	2.0	1.0	1.5	1.9	1.8	1.6	0.8	2.2	2.0	2.4	2.0	3.3	2.9	2.6	1.7	0.5	0.6	0.8	0.6	0.8	1.0	1.6	3.3	0.5
7	1.7	1.4	2.2	3.3	3.4	5.2	4.8	5.2	3.1	1.8	2.0	1.5	2.9	3.6	4.6	4.8	3.3	2.0	0.7	0.5	0.7	1.5	0.8	0.7	2.6	5.2	0.5
8	1.1	1.8	0.6	0.3	0.8	0.9	2.0	0.8	1.0	1.2	2.2	3.6	3.6	4.0	3.7	4.0	4.4	2.3	1.7	1.7	1.1	2.0	2.8	3.4	2.1	4.4	0.3
9	2.3	1.2	1.7	2.1	4.0	3.8	1.8	1.6	3.9	4.3	4.1	3.6	5.8	7.5	7.5	8.1	7.2	6.6	6.3	5.5	5.5	6.9	6.7	5.3	4.7	8.1	1.2
10	4.5	4.7	4.1	3.8	1.8	1.2	1.3	1.3	1.8	3.1	3.8	3.4	4.4	5.1	5.4	6.1	5.6	4.7	4.4	3.6	3.7	0.6	0.6	0.8	3.3	6.1	0.6
11	0.4	0.1	1.1	0.5	0.2	0.5	1.2	0.4	0.8	1.2	1.6	2.4	2.7	3.3	3.0	2.0	3.2	2.8	1.2	0.9	0.7	1.8	2.4	4.1	1.6	4.1	0.1
12	3.8	3.8	12.4	11.9	11.3	12.1	11.3	9.2	8.2	11.3	12.4	10.6	9.2	5.5	4.1	4.2	4.3	3.2	2.7	2.8	3.6	3.5	6.5	2.2	7.1	12.4	2.2
13	3.2	5.8	5.7	5.5	6.2	3.8	4.3	4.6	10.1	7.5	9.9	10.0	3.9	5.6	3.4	3.0	2.4	1.5	2.2	3.1	2.8	4.6	5.4	2.1	4.9	10.1	1.5
14	5.2	4.1	4.2	4.4	6.0	7.6	7.7	7.1	6.0	5.6	3.0	3.3	3.2	2.5	2.1	2.4	2.7	4.4	4.3	3.8	3.4	3.2	3.3	5.0	4.3	7.7	2.1
15	2.6	3.7	3.2	3.8	3.0	3.4	2.3	1.9	1.6	2.4	2.1	2.8	3.1	2.5	1.8	2.0	1.8	3.1	4.1	4.2	2.6	2.5	1.0	0.9	2.6	4.2	0.9
16	1.1	2.5	2.5	1.9	1.7	2.0	3.9	4.5	3.8	1.3	1.4	2.2	3.5	4.0	2.6	1.4	2.2	2.2	1.4	0.8	0.7	0.5	1.5	1.8	2.1	4.5	0.5
17	2.7	3.7	4.0	5.4	6.0	4.7	1.4	2.8	5.7	3.1	2.1	2.3	2.3	2.3	2.8	2.6	1.8	1.4	1.1	1.0	0.9	1.7	0.8	1.1	2.7	6.0	0.8
18	0.8	0.6	0.8	1.9	2.4	4.4	4.1	4.1	3.1	1.7	2.2	3.6	2.5	2.5	2.8	3.7	3.3	2.2	1.0	1.4	2.0	2.0	0.8	0.8	2.3	4.4	0.6
19	0.4	0.9	1.0	1.4	4.0	5.0	5.4	4.6	1.8	2.3	2.2	2.9	2.0	2.8	2.8	2.1	3.1	1.6	0.5	0.8	2.1	2.0	3.3	3.6	2.4	5.4	0.4
20	2.6	4.1	2.9	2.8	4.3	3.9	2.7	2.4	1.8	2.0	2.1	3.0	3.3	2.4	2.5	3.0	2.7	3.6	4.1	3.3	3.6	3.7	5.3	5.4	3.2	5.4	1.8
21	3.6	2.6	3.1	3.1	2.4	2.4	2.3	2.7	2.3	1.8	2.8	2.6	3.4	3.9	3.7	3.0	1.6	1.7	1.0	0.6	1.2	2.9	2.6	1.3	2.4	3.9	0.6
22	1.9	1.0	1.3	1.9	1.7	1.4	2.9	1.8	1.0	3.0	1.4	1.3	2.0	2.3	2.6	2.1	3.0	1.8	0.9	1.2	0.5	0.4	0.9	1.3	1.6	3.0	0.4
23	1.8	3.2	2.1	1.6	1.8	1.3	1.4	1.8	3.0	3.1	3.0	3.3	2.8	5.0	5.3	2.6	3.3	3.8	4.3	5.6	6.6	8.7	7.2	7.0	3.7	8.7	1.3
24	5.4	3.9	2.5	2.7	2.8	2.5	4.1	3.5	6.0	6.6	6.6	5.9	5.8	4.7	3.6	2.4	2.5	3.7	4.1	3.8	3.9	4.6	5.3	5.4	4.3	6.6	2.4
25	4.7	4.9	4.9	5.2	5.2	5.1	4.9	5.5	5.0	3.3	2.5	2.3	2.9	2.2	2.7	3.8	3.2	1.6	0.8	0.7	1.3	0.6	0.5	0.6	3.1	5.5	0.5
26	1.0	0.9	1.3	0.3	2.3	1.4	1.2	1.0	1.0	1.1	1.3	1.5	1.7	2.2	3.3	3.1	2.3	1.4	1.3	2.4	2.0	2.0	1.6	1.8	1.6	3.3	0.3
27	0.8	1.5	3.6	5.3	4.0	4.3	2.1	2.3	1.9	3.0	3.9	2.8	2.5	2.6	3.4	3.0	3.4	4.0	3.4	4.2	4.3	4.4	5.2	4.7	3.4	5.3	0.8
28	5.5	3.9	3.4	3.1	3.2	4.1	2.3	2.3	2.2	3.2	4.8	4.2	2.6	2.7	4.3	4.1	3.1	1.8	0.8	0.5	1.5	0.6	0.4	0.4	2.7	5.5	0.4
29	1.2	2.0	0.8	0.7	1.1	0.7	1.7	0.5	0.7	1.0	1.3	1.8	3.2	2.5	2.9	2.9	2.8	1.8	0.8	0.8	1.0	0.3	0.8	1.1	1.4	3.2	0.3
30	0.3	0.3	1.8	1.2	1.6	1.1	2.7	1.0	0.8	0.8	1.2	1.6	1.8	1.7	1.8	2.4	3.1	1.7	0.8	0.7	1.5	1.6	1.6	2.2	1.5	3.1	0.3
Avg	2.2	2.4	2.7	3.0	3.3	3.5	3.1	3.0	3.0	2.8	3.1	3.3	3.2	3.3	3.4	3.3	3.2	2.6	1.9	1.9	2.0	2.3	2.5	2.4	2.8	--	--
Max	5.5	5.8	12.4	11.9	11.3	12.1	11.3	9.2	10.1	11.3	12.4	10.6	9.2	7.5	7.5	8.1	7.2	6.6	6.3	5.6	6.6	8.7	7.2	7.0	--	12.4	--
Min	0.2	0.1	0.4	0.3	0.2	0.5	1.2	0.4	0.6	0.8	1.2	1.3	1.7	1.7	1.8	1.4	1.6	1.4	0.5	0.4	0.1	0.3	0.4	0.4	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.3	2.5	3.1	1.9	2.2	2.0	1.2	1.8	2.7	0.9	0.7	1.2	1.6	2.5	2.2	2.0	3.7	1.6	1.0	1.3	0.7	1.4	1.2	0.6	1.8	3.7	0.6
2	1.3	1.5	1.6	1.9	2.7	1.1	1.5	1.3	3.4	1.4	1.4	2.7	2.2	3.5	4.2	3.0	3.6	2.7	0.8	0.5	0.4	0.9	0.4	1.4	1.9	4.2	0.4
3	0.8	1.0	0.5	0.5	0.5	0.8	1.0	1.6	2.0	0.8	1.1	1.8	2.7	2.5	2.5	2.9	2.8	1.4	0.6	0.7	1.6	1.0	0.4	0.5	1.3	2.9	0.4
4	1.4	4.7	2.8	2.3	3.5	2.5	2.9	1.3	2.5	0.9	1.6	5.3	4.5	2.1	1.8	2.0	2.6	0.5	1.7	2.7	2.6	3.0	3.0	0.7	2.5	5.3	0.5
5	1.7	1.5	1.5	1.6	1.3	0.9	1.7	1.1	2.1	3.4	3.3	2.5	2.0	2.6	2.3	2.9	2.8	1.3	1.8	1.3	0.8	1.1	0.6	0.3	1.8	3.4	0.3
6	1.9	0.8	0.7	1.5	1.0	1.2	0.9	0.7	2.8	1.8	2.1	1.9	1.9	2.5	2.2	4.5	3.3	1.5	0.9	0.8	0.5	0.7	0.8	0.5	1.6	4.5	0.5
7	1.0	1.5	1.0	1.4	1.9	2.2	1.6	0.6	1.4	0.8	1.4	1.7	3.1	3.4	3.9	3.7	3.4	1.5	0.7	0.5	0.2	0.6	0.3	0.8	1.6	3.9	0.2
8	1.3	1.9	2.3	2.0	1.8	1.0	0.5	1.1	2.9	2.2	1.8	1.9	2.2	3.5	3.7	3.6	3.8	2.1	0.9	0.7	1.1	0.5	0.7	1.5	1.9	3.8	0.5
9	1.2	0.6	0.6	0.6	0.4	0.5	1.2	2.6	0.9	0.7	1.8	2.9	3.7	4.5	4.9	4.7	3.9	1.9	1.1	1.6	6.7	9.8	7.9	6.8	3.0	9.8	0.4
10	9.1	8.6	7.6	3.4	5.7	4.9	3.7	3.1	1.6	2.2	5.5	7.4	3.0	2.0	1.8	3.7	3.3	1.5	1.2	0.8	0.9	0.4	0.5	0.9	3.5	9.1	0.4
11	1.1	1.1	1.0	2.1	0.9	1.2	1.4	1.7	1.4	2.1	4.4	6.8	3.2	2.8	3.5	1.6	1.9	1.1	1.4	1.7	2.2	3.5	5.6	4.8	2.4	6.8	0.9
12	5.1	5.7	6.4	6.2	5.3	5.9	6.2	5.9	6.4	3.2	2.8	2.8	3.0	3.5	2.5	2.4	2.2	1.4	4.1	6.2	6.4	4.6	4.8	3.3	4.4	6.4	1.4
13	1.5	2.3	1.9	5.1	5.5	4.4	6.2	6.7	4.2	4.2	2.8	3.6	5.4	6.6	4.8	2.5	3.0	1.4	1.9	3.7	4.3	2.1	5.0	1.9	3.8	6.7	1.4
14	2.0	4.2	5.0	5.5	3.1	4.6	4.4	4.0	4.5	4.2	4.5	4.1	3.7	5.1	3.1	1.8	1.4	1.7	1.3	2.4	3.6	2.3	2.2	2.7	3.4	5.5	1.3
15	3.9	1.7	2.1	3.0	1.6	2.5	1.7	1.5	2.5	2.2	3.3	3.5	4.1	2.7	3.4	1.1	2.5	3.5	2.3	2.1	3.6	2.6	1.6	1.1	2.5	4.1	1.1
16	0.7	0.6	1.3	1.2	1.4	2.4	1.6	1.2	1.1	0.8	2.3	2.9	3.0	3.2	2.5	2.3	1.9	1.7	0.9	0.3	1.3	2.1	1.6	0.4	1.6	3.2	0.3
17	0.7	2.3	1.5	0.9	2.7	2.8	1.7	0.9	0.8	2.3	2.1	1.9	1.5	1.3	2.3	2.3	1.6	0.5	0.5	2.9	4.1	3.4	3.4	3.5	2.0	4.1	0.5
18	3.0	1.2	1.5	1.7	1.6	1.5	5.4	5.7	2.9	5.6	4.0	2.3	2.3	3.6	3.0	3.8	1.2	1.0	0.6	0.8	1.8	3.3	4.4	6.2	2.8	6.2	0.6
19	6.5	5.9	5.1	3.2	3.4	2.9	4.2	2.0	1.4	1.1	2.3	1.9	2.5	2.4	2.1	2.4	2.0	2.0	0.9	0.7	0.8	3.1	2.7	3.3	2.7	6.5	0.7
20	2.9	3.1	3.0	3.9	3.6	3.1	4.8	4.5	4.5	4.8	4.4	4.5	3.9	3.3	2.7	3.3	4.1	4.3	3.8	4.5	3.0	3.9	3.4	3.7	3.8	4.8	2.7
21	5.6	5.4	4.4	5.1	3.9	4.6	4.3	5.1	6.4	8.1	6.1	4.4	4.5	6.4	4.3	4.0	4.7	5.6	4.4	3.4	2.9	4.6	3.6	4.2	4.8	8.1	2.9
22	2.9	2.7	3.2	3.5	3.5	2.5	3.8	3.2	4.1	5.6	3.1	3.1	2.9	2.9	2.9	4.1	3.8	1.9	0.6	2.1	2.3	1.8	0.8	1.9	2.9	5.6	0.6
23	1.9	0.6	0.8	0.6	1.8	1.9	0.8	1.3	2.3	1.3	1.3	1.9	2.0	3.2	1.6	1.6	3.1	2.0	1.1	1.0	0.5	0.5	1.4	0.8	1.5	3.2	0.5
24	0.6	0.8	1.0	1.0	0.9	0.5	1.1	0.7	0.5	0.8	1.1	1.9	2.7	4.4	4.1	4.2	4.0	2.5	2.1	2.0	1.4	0.9	0.6	1.0	1.7	4.4	0.5
25	1.5	0.7	1.2	1.6	0.9	0.8	1.7	1.9	2.1	2.6	3.0	1.2	3.3	5.9	6.6	4.1	2.1	1.2	1.8	1.7	1.7	1.8	2.2	3.2	2.3	6.6	0.7
26	2.4	2.5	2.2	2.9	4.0	3.4	3.6	4.0	3.3	3.1	2.4	3.2	3.4	3.5	3.8	3.6	3.3	2.5	1.3	1.6	1.9	1.0	0.5	0.4	2.7	4.0	0.4
27	1.0	1.0	1.8	2.7	3.1	1.0	1.2	1.7	2.5	2.9	1.4	1.1	1.8	2.8	1.3	1.2	2.0	1.7	0.6	0.8	1.7	1.7	1.2	1.2	1.6	3.1	0.6
28	1.7	2.0	1.7	1.5	1.9	2.1	2.9	4.0	3.6	2.8	4.1	2.6	1.9	1.9	1.6	2.3	3.0	1.8	0.7	1.7	1.8	2.7	5.3	2.8	2.4	5.3	0.7
29	2.1	2.8	4.6	5.0	3.8	3.6	3.6	4.6	5.3	6.8	9.3	7.2	4.2	3.5	3.2	4.4	4.4	5.1	4.8	4.4	5.9	6.0	4.6	4.1	4.7	9.3	2.1
30	5.0	4.9	3.3	4.8	4.4	3.1	5.3	4.5	1.3	1.3	0.9	3.4	2.7	1.2	3.5	1.9	2.9	3.0	2.6	5.4	2.8	1.9	0.4	0.5	3.0	5.4	0.4
31	0.9	0.4	0.9	1.0	1.2	2.0	1.7	0.5	0.4	0.9	1.6	2.2	3.4	2.7	3.3	3.5	1.7	1.6	0.5	1.0	1.2	1.2	1.5	2.2	1.6	3.5	0.4
Avg	2.4	2.5	2.4	2.6	2.6	2.4	2.7	2.6	2.7	2.6	2.8	3.1	3.0	3.3	3.1	2.9	2.9	2.1	1.6	2.0	2.3	2.4	2.3	2.2	2.6	--	--
Max	9.1	8.6	7.6	6.2	5.7	5.9	6.2	6.7	6.4	8.1	9.3	7.4	5.4	6.6	6.6	4.7	4.7	5.6	4.8	6.2	6.7	9.8	7.9	6.8	--	9.8	--
Min	0.6	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.7	0.7	1.1	1.5	1.2	1.3	1.1	1.2	0.5	0.5	0.3	0.2	0.4	0.3	0.3	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26	22	49	47	47	44	35	80	83	44	52	69	132	127	179	229	281	97	55	22	24	49	29	60	56	281	22
2	54	72	110	164	125	96	119	95	66	93	76	188	206	254	258	261	247	252	287	12	328	345	320	278	108	345	12
3	90	32	39	45	79	20	59	87	100	146	165	198	258	249	244	257	245	266	302	342	23	29	45	50	37	342	20
4	43	40	39	51	48	50	56	66	89	157	158	164	197	234	217	198	221	204	244	240	199	160	43	104	135	244	39
5	43	50	31	39	56	58	14	42	111	170	155	125	246	226	240	239	248	260	300	342	293	276	349	341	342	349	14
6	37	7	352	21	42	43	94	12	66	168	176	183	226	237	231	249	245	275	339	347	254	334	268	319	315	352	7
7	300	319	326	312	341	334	34	56	62	145	159	134	193	235	213	220	242	241	240	347	300	290	321	15	293	347	15
8	31	31	34	28	300	24	344	2	81	115	160	167	205	233	236	246	245	260	287	301	273	286	342	9	313	344	2
9	307	296	355	58	348	342	47	65	73	190	217	234	290	243	274	239	272	255	282	348	44	20	39	16	324	355	16
10	58	37	99	39	45	54	47	113	124	214	184	173	148	203	174	187	242	238	301	356	8	51	46	61	92	356	8
11	84	24	24	35	51	61	70	54	66	73	98	132	136	115	114	111	133	165	170	15	117	283	293	272	84	293	15
12	283	273	249	235	218	211	200	232	182	200	205	231	244	242	265	262	255	263	284	334	261	50	11	352	251	352	11
13	72	250	254	286	287	36	36	69	165	209	242	257	257	209	225	218	259	268	289	310	26	26	277	322	273	322	26
14	299	320	328	268	287	258	292	259	359	16	25	49	48	27	59	55	65	56	59	79	70	66	73	64	22	359	16
15	74	95	55	56	70	43	38	30	34	49	54	68	91	216	176	245	251	271	313	347	246	325	11	358	31	358	11
16	342	360	282	17	45	43	30	272	145	199	211	231	251	259	247	231	243	253	291	2	19	306	331	278	292	360	2
17	295	233	319	2	244	2	341	308	200	166	164	214	245	243	231	234	261	276	278	18	23	292	265	306	273	341	2
18	338	242	196	348	317	286	285	67	127	185	189	227	226	241	254	253	246	250	289	328	346	254	323	252	264	348	67
19	36	13	23	48	32	54	56	64	138	130	96	176	236	259	247	251	254	259	285	356	350	320	321	10	356	356	10
20	16	34	307	17	355	245	341	269	127	184	219	188	228	226	231	240	254	264	306	18	323	38	15	65	296	355	15
21	62	61	9	20	31	357	41	55	148	143	146	138	162	187	217	223	222	225	265	287	285	293	323	258	246	357	9
22	323	292	322	333	50	43	31	42	66	162	139	175	192	208	208	219	235	254	302	38	44	77	51	37	24	333	31
23	321	58	51	0	44	45	61	85	176	156	167	166	221	239	238	234	240	253	320	32	277	294	29	43	339	321	0
24	16	342	32	23	348	295	29	13	134	218	233	252	235	232	241	255	258	249	259	283	27	44	45	55	310	348	13
25	38	343	11	20	99	284	59	53	219	190	135	15	290	260	253	230	229	229	297	21	353	2	308	312	322	353	2
26	174	19	44	21	32	50	43	34	46	45	58	60	62	69	71	58	27	30	40	50	49	48	55	59	49	174	19
27	60	57	51	62	54	60	64	61	59	55	47	47	51	53	33	41	59	89	71	75	78	51	64	43	58	89	33
28	354	345	60	352	43	63	59	297	344	358	98	109	140	222	268	263	258	271	336	11	336	327	341	287	344	358	11
29	349	346	343	12	12	22	22	54	67	141	171	192	245	243	255	246	247	255	333	338	45	23	346	307	335	349	12
30	301	357	8	30	48	32	27	29	79	168	224	209	259	250	240	251	246	268	315	7	30	303	288	304	315	357	7
31	346	358	24	35	45	54	16	62	67	126	177	189	206	256	267	229	265	291	329	36	40	335	23	27	8	358	16
Avg	13	5	13	20	29	27	37	45	97	149	155	172	215	231	233	236	249	255	302	358	358	350	356	358	349	--	--
Max	354	360	355	352	355	357	344	308	359	358	242	257	290	260	274	263	281	291	339	356	353	345	349	358	--	360	--
Min	16	7	8	0	12	2	14	2	34	16	25	15	48	27	33	41	27	30	40	2	8	2	11	9	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	38	39	41	53	51	51	35	63	69	161	208	147	170	245	252	250	256	260	360	320	261	352	39	33	21	360	33
2	35	12	46	39	49	64	52	64	60	159	172	183	200	221	224	223	238	278	304	25	233	353	32	307	20	353	12
3	305	341	69	287	44	46	41	66	105	154	171	196	235	274	230	242	254	260	322	12	307	10	93	48	335	341	10
4	282	30	52	44	76	49	318	330	137	216	51	83	34	234	218	238	270	273	330	12	234	307	307	272	325	330	12
5	302	255	235	350	355	271	295	1	252	224	67	51	43	263	219	255	254	294	324	336	248	40	54	55	307	355	1
6	197	277	307	38	274	103	242	292	245	134	153	188	175	184	260	247	241	274	329	1	21	261	347	335	262	347	1
7	26	18	30	44	39	53	58	65	106	158	183	179	181	163	241	233	248	280	340	177	45	32	23	40	64	340	18
8	42	32	9	309	22	49	19	297	105	154	165	173	223	236	233	233	229	191	147	273	226	77	71	70	161	309	9
9	142	143	125	135	125	142	146	128	136	139	143	156	206	211	209	198	205	191	193	206	199	187	199	232	170	232	125
10	235	238	234	263	205	135	107	139	146	158	181	206	220	224	227	223	242	242	234	250	308	82	70	242	210	308	70
11	65	56	32	296	278	35	10	21	170	186	213	190	229	217	207	240	288	332	79	275	36	52	38	354	336	354	10
12	296	3	49	47	48	45	47	38	22	43	52	53	55	38	24	48	67	99	175	270	313	10	46	307	33	313	3
13	359	54	59	53	59	54	68	54	49	61	47	45	73	50	28	20	89	228	16	65	63	41	85	5	50	359	5
14	65	333	4	35	34	39	33	34	31	24	52	339	113	77	106	67	79	69	77	66	69	62	68	71	52	339	4
15	73	67	61	64	69	69	65	105	184	212	112	96	74	55	229	259	165	70	62	74	79	64	178	109	92	259	55
16	314	67	98	187	216	199	54	64	87	168	188	204	261	267	288	236	264	300	319	41	324	319	32	17	289	324	17
17	34	46	53	63	60	66	310	357	64	74	166	131	48	47	183	190	230	329	354	26	342	42	329	17	38	357	17
18	268	295	358	50	59	61	65	70	86	135	147	174	184	172	236	237	256	282	329	34	35	18	325	338	19	358	18
19	29	19	331	49	53	66	67	67	96	93	86	154	179	201	243	306	239	172	302	15	39	87	77	63	65	331	15
20	75	62	42	40	77	83	52	306	238	230	259	113	69	107	60	148	91	74	58	79	88	66	47	41	71	306	40
21	19	347	340	29	324	282	324	333	226	182	118	133	210	257	273	279	213	286	322	326	322	52	37	1	315	347	1
22	33	10	13	26	24	49	50	4	358	94	185	228	231	252	243	259	254	298	336	30	315	5	50	258	343	358	4
23	357	36	44	309	325	304	332	321	279	320	279	216	237	32	43	62	43	57	49	49	49	45	42	38	7	357	32
24	44	64	81	261	239	242	280	312	16	34	42	45	42	38	39	35	59	70	69	72	74	74	69	70	45	312	16
25	78	76	74	74	74	70	74	78	84	73	93	177	158	168	198	234	247	288	329	351	26	14	11	20	68	351	11
26	2	345	35	1	34	32	7	29	167	176	196	219	208	255	252	227	231	292	7	35	30	98	46	34	1	345	1
27	282	21	42	57	52	64	60	51	271	286	27	107	148	112	110	67	56	57	51	58	47	45	32	36	53	286	21
28	43	31	29	333	351	20	82	249	201	76	62	28	108	190	227	249	252	291	319	321	40	343	316	320	349	351	20
29	49	40	51	40	47	11	27	306	215	136	176	197	230	262	247	236	243	273	307	346	327	5	348	277	315	348	5
30	299	8	37	7	34	7	37	329	207	139	190	195	205	206	223	250	255	294	296	232	36	18	30	48	316	329	7
Avg	14	23	38	25	38	52	35	23	124	141	142	156	176	212	232	241	240	286	347	10	7	33	37	13	31	--	--
Max	359	347	358	350	355	304	332	357	358	320	279	339	261	274	288	306	288	332	360	351	342	353	348	354	--	360	--
Min	2	3	4	1	22	7	7	1	16	24	27	28	34	32	24	20	43	57	7	1	21	5	11	1	--	--	1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	38	44	42	91	2	33	87	15	116	223	216	179	218	225	226	223	255	290	301	25	33	66	8	280	0	301	2
2	26	4	15	21	4	319	58	76	96	175	168	200	179	241	242	246	252	266	2	12	303	355	16	46	350	355	2
3	53	40	345	64	250	2	28	348	101	150	194	239	263	261	241	256	237	276	278	22	358	34	343	277	315	358	2
4	74	66	53	39	47	49	16	325	19	227	252	50	46	61	222	226	256	95	310	217	193	202	155	45	49	325	16
5	261	186	322	356	358	319	299	315	357	69	20	186	77	70	79	221	276	289	36	341	6	28	42	10	355	358	6
6	38	19	6	14	346	272	277	208	46	139	124	188	152	227	252	255	250	280	293	48	53	280	50	238	297	346	6
7	318	18	8	51	33	37	24	322	62	170	189	213	257	264	254	256	252	271	342	310	352	317	351	8	325	352	8
8	31	34	42	43	45	32	282	5	81	128	177	188	251	254	258	243	237	264	343	37	336	3	41	25	359	343	3
9	322	358	27	359	274	343	43	47	191	193	233	252	239	247	242	251	240	264	315	37	51	52	47	42	316	359	27
10	54	60	67	293	47	47	228	243	228	226	77	67	104	202	204	250	262	277	311	321	7	287	270	267	288	321	7
11	349	12	303	34	33	55	42	257	259	226	57	52	84	106	246	253	273	338	38	34	48	53	58	72	23	349	12
12	76	64	62	71	83	77	76	75	52	73	83	90	139	162	171	169	177	94	57	41	46	56	62	75	84	177	41
13	88	78	85	66	65	71	60	57	72	53	107	168	184	200	227	261	223	270	44	63	82	186	64	147	98	270	44
14	54	107	182	191	122	150	170	182	186	210	204	184	194	244	286	343	336	70	187	99	137	132	97	118	159	343	54
15	127	180	134	155	179	164	164	181	172	177	168	151	176	210	199	125	134	192	196	182	214	240	204	177	175	240	125
16	176	280	237	280	252	256	255	194	260	192	260	267	253	224	227	216	249	276	301	253	30	39	10	355	257	355	10
17	329	43	42	38	49	44	23	357	43	107	168	192	224	213	244	253	238	228	41	55	65	86	86	65	56	357	23
18	56	137	37	29	70	5	60	55	96	62	54	88	81	177	217	261	243	254	141	65	153	160	183	190	102	261	5
19	211	259	247	245	234	237	256	297	250	194	249	240	207	262	234	232	226	271	339	341	27	26	17	359	261	359	17
20	337	11	72	188	70	125	47	360	207	203	209	212	225	205	201	213	246	267	248	289	204	159	302	41	222	360	11
21	28	38	14	38	10	6	359	358	39	46	32	27	67	46	51	53	57	66	66	69	88	70	67	62	43	359	6
22	348	272	12	61	60	101	82	51	87	53	62	67	146	184	245	207	245	298	38	30	36	28	353	35	45	353	12
23	36	69	338	30	343	42	351	22	60	128	182	171	211	269	273	214	251	301	335	46	326	22	48	332	357	351	22
24	359	327	23	47	57	347	34	323	56	144	152	207	199	243	242	232	238	252	287	272	268	291	161	34	289	359	23
25	41	22	272	301	29	16	47	27	73	156	81	75	91	67	53	73	50	288	62	21	341	294	248	78	38	341	16
26	83	100	83	71	67	77	86	68	79	76	91	174	178	265	230	198	244	287	301	299	285	325	347	355	58	355	67
27	33	38	43	41	61	90	26	37	58	83	195	202	199	315	66	189	250	237	332	54	33	30	52	57	49	332	26
28	53	36	14	33	40	49	42	59	75	76	86	73	292	261	271	249	236	267	310	27	43	312	29	287	14	312	14
29	296	291	292	354	265	52	26	37	55	64	51	69	64	52	98	101	57	51	50	50	64	73	67	66	47	354	26
30	62	49	76	58	71	105	65	69	296	259	93	155	293	120	229	213	240	264	229	249	242	196	96	120	142	296	49
31	202	193	170	105	162	223	198	143	184	206	221	233	214	324	263	307	312	303	288	62	30	36	7	29	229	324	7
Avg	32	37	27	39	39	41	37	21	80	147	146	168	188	227	234	231	248	277	335	21	25	25	39	37	27	--	--
Max	359	358	345	359	358	347	359	360	357	259	260	267	293	324	286	343	336	338	343	341	358	355	353	359	--	360	--
Min	26	4	6	14	2	2	16	5	19	46	20	27	46	46	51	53	50	51	2	12	6	3	7	8	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.38	0.36	0.57	0.60	0.45	0.59	0.50	-0.10	-0.74	-1.12	-1.38	-1.56	-1.76	-1.65	-1.61	-0.98	-0.65	-0.26	0.22	1.59	2.06	1.26	1.33	0.66	-0.05	2.06	-1.76
2	0.73	0.50	0.49	0.21	0.41	0.26	0.29	-0.14	-0.56	-1.27	-1.35	-1.92	-1.40	-0.77	-0.75	-0.66	-0.45	-0.03	0.47	1.69	1.97	1.98	2.18	1.89	0.16	2.18	-1.92
3	2.02	2.05	1.23	0.74	0.78	1.42	0.86	0.20	-0.95	-1.53	-1.39	-1.58	-0.73	-0.91	-0.98	-0.64	-0.46	-0.05	0.24	1.02	1.42	1.79	1.96	1.55	0.33	2.05	-1.58
4	1.32	1.60	0.62	1.33	1.25	1.09	1.00	0.01	-0.94	-1.57	-1.81	-1.90	-1.94	-1.11	-1.28	-1.53	-0.78	-0.42	0.25	0.37	0.45	0.50	1.25	0.86	-0.06	1.60	-1.94
5	1.50	1.11	1.33	0.95	0.41	0.32	0.69	0.01	-1.04	-1.47	-1.54	-1.49	-1.16	-1.35	-1.05	-0.83	-0.56	-0.10	0.17	0.62	0.72	0.69	0.99	1.49	0.02	1.50	-1.54
6	1.75	1.67	1.72	1.00	1.12	0.58	0.39	0.11	-0.86	-1.43	-1.45	-1.67	-1.45	-1.14	-0.87	-0.68	-0.45	-0.23	0.07	0.49	0.36	0.65	0.58	1.04	0.05	1.75	-1.67
7	1.22	1.22	1.39	1.18	1.18	1.07	0.87	0.01	-0.54	-0.99	-1.43	-1.48	-1.62	-1.26	-1.49	-1.31	-0.63	-0.31	0.20	1.14	1.28	0.69	1.11	1.01	0.10	1.39	-1.62
8	1.37	1.47	1.09	1.34	1.04	1.03	0.86	0.11	-0.70	-0.81	-1.82	-2.01	-1.94	-1.28	-0.95	-0.86	-0.65	-0.18	0.33	0.68	1.33	0.79	1.36	1.51	0.13	1.51	-2.01
9	1.31	1.40	1.82	1.33	1.37	1.48	0.61	-0.12	-1.17	-1.00	-0.91	-1.18	-1.10	-1.23	-0.77	-0.86	-0.57	-0.16	0.10	0.68	1.16	1.13	0.79	1.06	0.21	1.82	-1.23
10	1.11	1.08	0.64	0.95	0.74	0.31	0.37	0.27	-0.81	-0.94	-1.57	-1.92	-2.00	-1.70	-1.62	-1.51	-0.59	-0.19	0.11	0.85	0.93	0.96	1.14	1.29	-0.09	1.29	-2.00
11	0.80	1.14	1.08	0.71	0.28	0.11	0.02	-0.17	-0.44	-0.81	-1.18	-1.79	-1.78	-1.57	-1.05	-0.94	-0.62	-0.42	-0.01	0.52	0.15	0.11	0.09	0.14	-0.23	1.14	-1.79
12	0.14	0.14	0.06	0.04	-0.01	-0.06	-0.09	-0.10	-0.71	-1.28	-1.03	-0.81	-0.65	-0.77	-0.69	-0.61	-0.49	-0.24	0.05	0.21	0.68	0.36	0.49	0.49	-0.20	0.68	-1.28
13	0.56	0.65	0.47	0.72	0.98	0.83	0.56	0.15	-0.80	-0.78	-0.77	-1.03	-0.97	-1.50	-1.19	-1.01	-0.61	-0.31	-0.03	0.18	0.50	0.96	0.73	1.03	-0.03	1.03	-1.50
14	1.08	0.83	0.45	0.59	0.50	0.74	0.32	0.34	-0.36	-0.70	-1.00	-1.21	-1.45	-1.20	-1.12	-0.85	-0.46	-0.01	0.46	0.42	0.37	0.39	0.39	0.33	-0.05	1.08	-1.45
15	0.30	0.29	0.20	0.23	0.29	0.21	0.20	0.10	-0.39	-0.75	-1.13	-1.40	-1.64	-1.10	-1.39	-0.84	-0.43	-0.05	0.62	1.37	0.87	0.99	1.70	1.56	-0.01	1.70	-1.64
16	1.91	2.41	1.82	1.78	1.43	0.85	0.81	0.91	-0.74	-0.76	-1.14	-1.11	-0.85	-0.71	-0.79	-0.78	-0.51	0.17	0.31	1.22	2.24	1.07	1.52	1.49	0.52	2.41	-1.14
17	1.45	1.51	2.25	2.29	1.62	1.50	1.49	1.05	-0.53	-1.02	-1.37	-1.38	-1.07	-0.89	-1.02	-0.77	-0.24	0.01	0.56	1.18	1.21	1.26	1.16	1.35	0.48	2.29	-1.38
18	1.96	1.24	0.99	1.81	1.72	1.51	0.77	0.76	-0.93	-0.91	-1.20	-1.25	-1.37	-0.96	-0.60	-0.50	-0.33	-0.03	0.13	0.38	0.48	0.51	1.06	1.18	0.27	1.96	-1.37
19	1.04	1.45	1.26	1.11	0.83	0.45	0.36	0.10	-0.72	-1.03	-1.23	-1.57	-0.82	-0.62	-0.64	-0.58	-0.28	0.09	0.35	1.14	1.51	1.38	1.10	0.66	0.22	1.51	-1.57
20	1.34	1.89	1.39	1.87	1.36	1.26	1.77	0.89	-0.74	-0.83	-0.71	-1.38	-1.08	-1.35	-1.12	-0.64	-0.40	-0.03	0.34	1.06	0.82	1.01	0.98	0.88	0.36	1.89	-1.38
21	0.90	1.00	0.81	1.08	1.65	1.46	0.83	0.24	-0.70	-1.47	-1.75	-1.86	-1.98	-1.97	-1.20	-1.18	-0.79	-0.34	0.05	0.15	0.16	0.45	0.69	0.73	-0.13	1.65	-1.98
22	1.03	0.93	1.00	0.80	1.04	0.95	0.36	0.11	-0.99	-1.03	-1.77	-1.93	-1.57	-1.44	-1.47	-1.15	-0.55	-0.02	0.10	0.72	0.46	0.78	0.91	1.16	-0.07	1.16	-1.93
23	0.89	1.22	1.68	1.24	1.21	0.67	0.37	0.14	-0.82	-1.10	-1.50	-1.57	-1.31	-0.87	-0.72	-0.92	-0.24	0.02	0.17	0.62	0.57	0.52	0.62	0.79	0.07	1.68	-1.57
24	0.72	0.64	0.68	1.36	1.09	0.82	1.26	0.81	-0.90	-0.76	-0.77	-0.70	-1.07	-1.06	-0.74	-0.57	-0.35	0.10	0.33	0.26	0.94	1.24	1.47	1.47	0.26	1.47	-1.07
25	1.57	1.34	1.16	1.16	0.72	1.17	1.52	0.90	-0.54	-0.88	-1.48	-1.10	-0.81	-0.69	-0.61	-0.79	-0.39	-0.17	0.31	1.27	1.73	1.93	1.63	1.08	0.42	1.93	-1.48
26	0.84	0.38	0.21	0.21	0.20	0.17	0.20	0.06	-0.71	-1.06	-1.38	-1.43	-1.35	-1.27	-1.06	-0.75	-0.33	0.07	0.21	0.23	0.19	0.18	0.20	0.17	-0.24	0.84	-1.43
27	0.16	0.17	0.18	0.16	0.09	0.10	0.11	0.03	-0.60	-0.87	-1.17	-1.38	-1.32	-1.18	-0.98	-0.74	-0.42	0.01	0.23	0.21	0.24	0.18	0.27	0.38	-0.26	0.38	-1.38
28	0.39	0.64	0.35	0.66	0.47	0.35	0.31	0.11	-0.27	-0.45	-0.83	-1.17	-1.12	-1.19	-0.89	-0.58	-0.32	0.13	0.68	1.61	1.26	1.65	1.81	1.42	0.21	1.81	-1.19
29	1.98	1.67	2.03	2.19	1.79	1.06	0.82	0.34	-0.71	-1.18	-1.02	-1.24	-0.62	-0.76	-0.53	-0.55	-0.14	0.17	0.79	1.51	2.20	1.98	1.79	1.92	0.65	2.20	-1.24
30	1.50	1.82	2.33	1.19	0.65	1.28	1.23	0.67	-0.70	-0.87	-0.75	-1.00	-0.51	-0.65	-0.72	-0.39	-0.13	0.26	0.58	1.62	2.04	1.32	1.87	1.84	0.60	2.33	-1.00
31	1.99	2.33	1.75	0.88	0.78	0.54	0.73	0.33	-0.70	-0.82	-1.39	-1.37	-1.30	-0.50	-0.70	-0.56	-0.10	0.28	0.95	1.90	1.78	1.32	1.94	1.18	0.47	2.33	-1.39
Avg	1.14	1.17	1.07	1.02	0.88	0.78	0.66	0.26	-0.72	-1.02	-1.27	-1.43	-1.28	-1.12	-0.99	-0.83	-0.45	-0.07	0.30	0.87	1.03	0.97	1.13	1.08	0.13	--	--
Max	2.02	2.41	2.33	2.29	1.79	1.51	1.77	1.05	-0.27	-0.45	-0.71	-0.70	-0.51	-0.50	-0.53	-0.39	-0.10	0.28	0.95	1.90	2.24	1.98	2.18	1.92	--	2.41	--
Min	0.14	0.14	0.06	0.04	-0.01	-0.06	-0.09	-0.17	-1.17	-1.57	-1.82	-2.01	-2.00	-1.97	-1.62	-1.53	-0.79	-0.42	-0.03	0.15	0.15	0.11	0.09	0.14	--	--	-2.01

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.38	0.93	0.70	0.66	0.56	0.59	0.72	0.37	-0.69	-0.99	-0.75	-1.43	-1.41	-0.75	-0.48	-0.39	-0.12	0.49	1.21	1.66	1.13	1.67	1.79	1.56	0.35	1.79	-1.43
2	2.32	1.94	2.28	1.47	0.62	0.41	0.42	0.06	-0.57	-0.52	-0.99	-1.45	-1.20	-0.97	-0.99	-0.99	-0.27	0.10	0.62	1.20	0.77	1.42	1.31	1.36	0.35	2.32	-1.45
3	1.68	1.50	1.46	1.56	1.38	0.66	0.64	0.43	-0.70	-0.83	-0.95	-1.36	-0.69	-0.71	-0.94	-0.74	-0.28	0.06	0.43	1.20	1.17	1.28	1.28	1.86	0.39	1.86	-1.36
4	1.08	1.55	2.05	0.83	0.64	0.42	0.88	0.95	-0.50	-0.58	-0.89	-1.49	-1.18	-0.76	-0.95	-0.68	-0.35	0.13	0.45	1.40	1.55	0.78	1.09	1.07	0.31	2.05	-1.49
5	0.96	0.71	0.77	0.84	0.85	0.99	0.66	1.10	-0.21	-0.55	-0.99	-1.38	-1.22	-0.58	-0.96	-0.46	0.00	0.25	1.13	1.51	1.42	0.83	0.69	0.77	0.30	1.51	-1.38
6	0.93	0.99	1.26	1.02	1.23	1.00	0.88	0.58	-0.34	-0.71	-1.09	-1.19	-1.45	-1.35	-0.47	-0.43	-0.08	0.35	1.16	1.92	2.12	1.34	1.66	1.89	0.47	2.12	-1.45
7	2.45	2.15	1.81	0.76	0.72	0.48	0.42	0.33	-0.55	-1.00	-1.34	-1.15	-1.40	-1.62	-0.76	-0.67	-0.13	0.40	0.86	1.04	1.96	2.40	1.91	1.89	0.46	2.45	-1.62
8	2.51	1.78	1.17	1.62	1.12	1.19	0.86	1.05	-0.50	-0.93	-1.36	-1.75	-1.14	-0.78	-0.84	-0.46	-0.28	-0.25	-0.19	0.17	0.21	0.39	0.42	0.26	0.18	2.51	-1.75
9	0.28	0.03	0.33	0.22	0.28	0.19	0.06	-0.07	-0.10	-0.58	-0.72	-0.88	-0.95	-1.31	-1.10	-0.92	-0.40	-0.03	0.07	0.02	-0.07	-0.09	-0.14	-0.18	-0.25	0.33	-1.31
10	-0.25	-0.25	-0.26	-0.23	-0.21	-0.30	-0.23	-0.22	-0.87	-0.98	-1.18	-1.02	-1.02	-0.77	-0.74	-0.71	-0.13	-0.03	0.04	0.08	-0.05	-0.24	-0.09	0.40	-0.39	0.40	-1.18
11	0.46	0.76	1.27	0.64	0.90	1.11	0.81	0.70	-0.64	-0.73	-0.80	-1.04	-0.76	-1.22	-1.17	-0.62	-0.40	-0.03	0.15	0.39	0.85	0.56	0.45	0.20	0.08	1.27	-1.22
12	0.30	0.41	0.26	0.32	0.32	0.28	0.28	0.24	-0.21	-0.60	-0.90	-1.05	-1.01	-0.89	-0.83	-0.55	-0.07	0.17	0.39	0.63	0.61	0.43	0.38	0.49	-0.02	0.63	-1.05
13	0.46	0.45	0.39	0.41	0.25	0.32	0.29	0.31	-0.41	-0.72	-1.01	-1.09	-0.93	-0.95	-0.67	-0.44	-0.25	0.43	0.62	0.73	0.67	0.55	0.43	0.78	0.03	0.78	-1.09
14	0.45	0.37	0.43	0.25	0.19	0.19	0.21	0.14	-0.11	-0.22	-0.61	-0.67	-0.79	-0.74	-0.89	-0.62	-0.20	0.23	0.38	0.33	0.36	0.51	0.52	0.58	0.01	0.58	-0.89
15	0.77	0.64	0.61	0.42	0.39	0.44	0.38	0.52	-0.15	-0.37	-0.79	-0.64	-0.46	-0.52	-0.25	-0.20	-0.06	0.03	0.14	0.16	0.35	0.32	0.52	0.60	0.12	0.77	-0.79
16	0.88	0.90	0.23	0.49	0.24	0.22	0.43	0.39	-0.19	-0.65	-0.90	-1.26	-0.54	-0.55	-0.55	-0.54	-0.17	0.09	0.41	1.68	1.29	1.10	1.35	1.23	0.23	1.68	-1.26
17	0.67	0.55	0.51	0.51	0.37	0.40	0.85	0.51	0.03	-0.22	-0.37	-0.43	-0.61	-0.80	-0.93	-0.67	-0.18	0.10	0.45	0.70	1.03	0.71	0.76	1.26	0.22	1.26	-0.93
18	0.75	0.60	0.48	0.40	0.45	0.23	0.20	0.30	-0.47	-1.02	-1.16	-1.88	-1.52	-1.40	-0.79	-0.83	-0.32	-0.02	0.28	0.57	0.39	0.55	0.77	1.09	-0.10	1.09	-1.88
19	1.36	1.33	1.11	1.04	0.46	0.31	0.21	0.15	-0.43	-0.77	-1.14	-1.41	-1.22	-1.20	-0.58	-0.56	-0.32	0.10	0.57	1.03	1.10	0.61	0.44	0.45	0.11	1.36	-1.41
20	0.59	0.44	0.41	0.41	0.51	0.52	0.51	0.41	-0.23	-0.49	-0.74	-1.12	-1.25	-1.17	-0.91	-0.92	-0.25	0.03	0.13	0.22	0.17	0.24	0.19	0.12	-0.09	0.59	-1.25
21	0.07	0.07	0.11	0.13	0.16	0.11	0.11	0.14	-0.32	-0.47	-1.18	-1.36	-1.07	-0.54	-0.60	-0.38	-0.41	0.28	0.60	1.17	0.91	0.49	0.80	1.50	0.01	1.50	-1.36
22	1.59	1.65	1.32	0.77	1.59	1.42	0.54	0.80	0.11	-0.89	-1.06	-0.69	-0.75	-0.55	-0.51	-0.48	-0.19	0.09	0.72	1.52	1.52	1.35	1.67	1.15	0.53	1.67	-1.06
23	1.18	1.04	1.28	1.15	1.02	1.17	1.48	1.18	0.27	-0.18	-0.66	-0.83	-0.63	-0.85	-0.76	-0.51	-0.17	0.09	0.25	0.16	0.19	0.19	0.14	0.11	0.26	1.48	-0.85
24	0.10	0.11	0.20	0.43	0.60	0.63	0.52	0.23	-0.14	-0.40	-0.71	-0.90	-0.99	-0.93	-0.81	-0.56	-0.20	0.14	0.22	0.25	0.38	0.40	0.37	0.40	-0.03	0.63	-0.99
25	0.45	0.43	0.42	0.43	0.43	0.35	0.38	0.37	-0.30	-0.56	-1.06	-1.35	-1.61	-1.22	-1.23	-0.67	-0.24	0.12	0.57	0.94	0.88	1.12	1.49	1.44	0.07	1.49	-1.61
26	1.64	1.31	1.63	1.49	1.16	0.92	1.13	1.38	0.04	-0.72	-0.85	-0.70	-0.85	-0.40	-0.43	-0.65	-0.22	0.40	0.62	0.92	0.76	0.74	0.90	1.14	0.47	1.64	-0.85
27	1.56	2.02	0.96	0.38	0.63	0.69	0.54	0.32	-0.09	-0.28	-0.61	-0.66	-0.79	-0.77	-0.76	-0.54	-0.13	0.09	0.14	0.17	0.16	0.14	0.13	0.09	0.14	2.02	-0.79
28	0.11	0.11	0.14	0.23	0.16	0.12	0.12	0.12	-0.13	-0.50	-0.87	-1.19	-1.31	-1.28	-0.63	-0.27	0.05	0.25	0.62	1.24	1.87	1.38	1.54	1.61	0.14	1.87	-1.31
29	1.41	1.13	2.03	1.62	1.61	1.56	1.39	1.20	0.02	-0.96	-0.94	-0.95	-0.86	-0.61	-0.52	-0.65	-0.26	0.15	0.39	0.99	0.84	1.15	1.09	0.83	0.48	2.03	-0.96
30	1.19	1.60	1.41	0.95	0.97	1.31	0.53	0.67	-0.11	-0.79	-0.84	-1.10	-1.09	-0.99	-0.83	-0.54	-0.12	0.10	0.44	0.92	1.03	1.22	1.10	0.74	0.32	1.60	-1.10
Avg	0.98	0.91	0.89	0.71	0.65	0.60	0.54	0.49	-0.28	-0.64	-0.92	-1.11	-1.02	-0.91	-0.76	-0.59	-0.21	0.14	0.46	0.83	0.85	0.78	0.83	0.89	0.17	--	--
Max	2.51	2.15	2.28	1.62	1.61	1.56	1.48	1.38	0.27	-0.18	-0.37	-0.43	-0.46	-0.40	-0.25	-0.20	0.05	0.49	1.21	1.92	2.12	2.40	1.91	1.89	--	2.51	--
Min	-0.25	-0.25	-0.26	-0.23	-0.21	-0.30	-0.23	-0.22	-0.87	-1.02	-1.36	-1.88	-1.61	-1.62	-1.23	-0.99	-0.41	-0.25	-0.19	0.02	-0.07	-0.24	-0.14	-0.18	--	--	-1.88

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.08	0.73	0.50	0.72	0.52	0.79	1.05	0.88	-0.23	-0.52	-0.82	-1.11	-0.83	-0.73	-0.60	-0.53	-0.17	0.08	0.53	0.64	0.75	0.95	0.94	1.36	0.25	1.36	-1.11
2	1.99	1.18	0.85	1.39	0.66	1.28	1.00	0.63	-0.12	-0.87	-1.04	-1.25	-1.11	-0.78	-0.62	-0.45	-0.23	0.08	0.45	1.20	0.99	1.12	1.50	1.58	0.39	1.99	-1.25
3	1.63	1.68	1.77	1.37	0.98	1.32	0.98	0.63	-0.24	-0.88	-0.77	-0.73	-0.47	-0.55	-0.58	-0.40	-0.30	0.20	0.46	1.02	0.63	1.02	1.05	0.98	0.45	1.77	-0.88
4	1.01	0.33	0.40	0.56	0.35	0.50	0.45	0.67	-0.04	-0.35	-0.30	-0.87	-0.99	-0.82	-0.51	-0.50	0.01	0.51	0.48	0.39	0.38	0.55	0.59	1.21	0.17	1.21	-0.99
5	0.97	0.46	0.95	1.37	1.08	1.25	1.09	0.80	0.56	-0.25	-0.53	-0.70	-0.88	-0.97	-0.79	-0.51	-0.12	0.45	1.60	1.03	1.51	2.28	1.49	1.88	0.58	2.28	-0.97
6	2.01	1.90	2.12	1.00	1.22	1.06	1.63	1.07	0.32	-0.26	-0.91	-1.13	-1.32	-0.68	-0.49	-0.25	0.07	0.26	0.51	1.08	1.29	1.20	1.70	0.80	0.59	2.12	-1.32
7	1.43	1.17	1.57	1.82	2.18	1.52	1.26	1.35	0.15	-0.68	-0.93	-0.80	-0.58	-0.54	-0.45	-0.36	-0.12	0.17	0.84	1.31	0.94	0.94	1.27	1.21	0.61	2.18	-0.93
8	1.29	1.44	1.01	1.21	0.88	1.07	1.21	1.09	-0.18	-0.85	-1.08	-1.19	-0.60	-0.60	-0.55	-0.50	-0.29	0.22	0.69	0.96	0.67	1.10	1.25	1.24	0.40	1.44	-1.19
9	0.78	1.23	1.84	1.70	1.37	1.50	1.86	0.93	0.23	-0.50	-0.62	-0.55	-0.59	-0.67	-0.64	-0.42	-0.24	0.07	0.24	0.65	0.10	0.04	0.10	0.13	0.36	1.86	-0.67
10	0.08	0.10	0.11	0.17	0.16	0.15	0.36	0.65	-0.11	-0.62	-1.07	-1.15	-1.05	-1.03	-0.71	-0.39	-0.22	0.13	0.32	1.02	1.57	1.04	1.21	1.17	0.08	1.57	-1.15
11	1.56	1.41	1.49	0.75	1.10	0.97	1.02	0.91	0.34	-0.35	-0.82	-1.11	-0.96	-1.08	-0.44	-0.58	-0.16	0.29	1.32	1.42	0.85	0.62	0.42	0.33	0.39	1.56	-1.11
12	0.23	0.22	0.30	0.26	0.20	0.24	0.24	0.15	-0.15	-0.52	-0.92	-1.28	-1.48	-1.50	-1.32	-1.13	-0.67	0.42	0.24	0.15	0.19	0.20	0.39	0.53	-0.21	0.53	-1.50
13	0.88	0.77	0.78	0.48	0.40	0.46	0.41	0.29	-0.09	-0.61	-1.08	-1.61	-1.52	-1.38	-0.46	-0.34	-0.56	-0.14	0.03	-0.02	0.14	-0.12	0.02	-0.03	-0.14	0.88	-1.61
14	0.01	0.15	-0.11	-0.15	-0.05	-0.09	-0.11	-0.15	-0.22	-0.23	-0.29	-0.48	-0.65	-0.57	-0.12	-0.26	-0.14	0.04	-0.04	0.06	0.06	-0.04	0.07	0.08	-0.14	0.15	-0.65
15	0.07	-0.03	-0.09	-0.09	-0.13	-0.09	-0.07	-0.12	-0.16	-0.25	-0.26	-0.18	-0.13	-0.20	-0.25	-0.26	-0.15	-0.13	-0.10	-0.12	-0.10	-0.14	-0.19	-0.22	-0.14	0.07	-0.26
16	-0.21	-0.11	-0.14	-0.12	-0.13	-0.14	-0.14	-0.17	-0.21	-0.52	-0.51	-0.61	-0.55	-0.89	-0.76	-0.92	-0.38	-0.10	0.05	0.39	0.86	0.46	0.42	0.61	-0.16	0.86	-0.92
17	0.74	0.52	0.73	1.30	0.62	0.50	1.11	1.00	0.37	-0.78	-0.94	-1.03	-0.66	-0.73	-0.47	-0.37	-0.28	0.01	0.65	0.57	0.36	0.44	0.48	0.56	0.20	1.30	-1.03
18	0.63	0.62	0.80	0.95	0.48	0.87	0.46	0.29	0.01	-0.35	-0.64	-0.90	-0.93	-1.18	-0.68	-0.15	-0.13	0.00	-0.10	0.03	-0.06	-0.01	0.12	0.11	0.01	0.95	-1.18
19	0.03	-0.14	-0.18	-0.14	-0.11	-0.09	-0.05	0.00	-0.15	-0.35	-0.39	-0.52	-1.02	-0.62	-0.81	-0.62	-0.50	-0.12	0.12	0.66	0.56	0.30	0.38	0.40	-0.14	0.66	-1.02
20	0.36	0.48	0.34	0.55	0.49	0.38	0.28	0.30	0.25	-0.24	-0.54	-0.76	-0.58	-0.81	-0.64	-0.56	-0.02	0.37	0.25	0.42	0.31	0.34	0.33	0.33	0.07	0.55	-0.81
21	0.34	0.32	0.33	0.27	0.25	0.31	0.34	0.29	0.07	-0.22	-0.40	-0.55	-0.72	-0.73	-0.45	-0.32	-0.06	0.13	0.20	0.17	0.15	0.22	0.21	0.23	0.02	0.34	-0.73
22	0.19	0.10	0.11	0.12	0.10	0.10	0.14	0.11	-0.12	-0.40	-0.72	-1.05	-1.53	-1.27	-0.79	-1.15	-0.26	0.23	1.50	1.22	0.46	1.07	1.58	1.40	0.05	1.58	-1.53
23	1.78	1.50	1.86	1.65	1.04	1.24	1.49	1.80	0.53	-0.60	-0.78	-1.23	-0.93	-0.68	-0.56	-0.76	-0.23	-0.06	0.42	1.25	1.22	1.32	1.00	1.00	0.55	1.86	-1.23
24	1.42	1.24	1.41	1.85	1.71	0.98	0.93	0.65	-0.01	-0.66	-0.99	-0.94	-1.05	-0.67	-0.68	-0.52	-0.29	-0.14	-0.13	-0.03	0.05	0.28	0.57	1.01	0.25	1.85	-1.05
25	0.93	0.90	0.62	0.49	0.91	0.78	0.54	0.47	0.04	-0.31	-0.46	-0.56	-0.61	-0.48	-0.51	-0.35	-0.14	0.04	0.01	0.15	0.16	0.21	0.12	0.13	0.13	0.93	-0.61
26	0.10	0.05	0.09	0.14	0.16	0.14	0.24	0.13	-0.06	-0.43	-0.92	-1.49	-1.35	-0.72	-0.62	-1.08	-0.36	0.01	0.25	0.47	0.54	0.51	1.62	1.69	-0.04	1.69	-1.49
27	1.63	1.48	0.98	0.58	0.46	0.61	1.31	0.67	0.01	-0.27	-0.51	-0.64	-0.64	-0.31	-0.71	-0.77	-0.34	-0.07	0.18	1.13	0.86	1.17	1.08	0.73	0.36	1.63	-0.77
28	0.47	0.55	0.78	1.11	0.80	0.51	0.52	0.35	0.02	-0.77	-0.97	-1.03	-0.58	-0.52	-0.59	-0.45	-0.38	-0.02	0.39	0.69	0.34	0.62	0.28	0.37	0.10	1.11	-1.03
29	0.54	0.57	0.29	0.25	0.32	0.18	0.15	0.13	-0.06	-0.40	-0.62	-0.77	-0.75	-0.81	-0.85	-0.55	-0.16	0.01	0.06	0.09	0.11	0.09	0.09	0.11	-0.08	0.57	-0.85
30	0.09	0.12	0.26	0.21	0.30	0.31	0.23	0.13	-0.05	-0.22	-0.50	-0.60	-0.67	-0.79	-0.56	-0.58	-0.26	-0.15	-0.19	-0.21	-0.28	-0.39	-0.36	-0.35	-0.19	0.31	-0.79
31	-0.33	-0.31	-0.22	-0.29	-0.21	-0.19	-0.25	-0.37	-0.36	-0.35	-0.38	-0.40	-0.86	-0.38	-0.49	-0.32	-0.27	-0.16	-0.17	0.18	1.32	0.91	1.12	0.55	-0.09	1.32	-0.86
Avg	0.77	0.67	0.69	0.69	0.58	0.59	0.63	0.50	0.01	-0.47	-0.70	-0.88	-0.86	-0.76	-0.60	-0.53	-0.24	0.09	0.36	0.58	0.55	0.59	0.67	0.68	0.15	--	--
Max	2.01	1.90	2.12	1.85	2.18	1.52	1.86	1.80	0.56	-0.22	-0.26	-0.18	-0.13	-0.20	-0.12	-0.15	0.07	0.51	1.60	1.42	1.57	2.28	1.70	1.88	--	2.28	--
Min	-0.33	-0.31	-0.22	-0.29	-0.21	-0.19	-0.25	-0.37	-0.36	-0.88	-1.08	-1.61	-1.53	-1.50	-1.32	-1.15	-0.67	-0.16	-0.19	-0.21	-0.28	-0.39	-0.36	-0.35	--	--	-1.61

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	29.7	28.7	26.1	25.4	24.5	23.8	26.3	26.9	28.8	30.8	32.0	33.3	34.3	34.8	35.0	34.8	34.4	33.8	32.1	29.4	28.2	27.4	27.4	29.0	29.9	35.0	23.8
2	28.5	28.4	28.1	27.5	27.0	27.2	26.7	27.4	29.2	31.4	32.7	34.2	34.4	34.6	34.7	34.4	33.8	32.8	31.1	29.3	28.1	27.4	26.7	26.1	30.1	34.7	26.1
3	25.3	25.7	25.3	24.9	24.6	23.3	23.9	24.9	27.8	29.9	31.2	32.7	32.4	33.2	33.6	33.4	32.8	31.9	30.8	29.5	27.8	26.9	26.3	26.3	28.5	33.6	23.3
4	25.9	25.0	25.2	24.4	24.2	23.9	23.4	24.6	27.1	29.2	30.3	31.2	32.4	31.9	32.4	32.9	32.0	31.1	29.2	28.1	27.3	26.3	25.1	24.8	27.8	32.9	23.4
5	23.9	23.6	22.8	22.4	22.9	23.1	21.0	22.5	25.3	27.1	28.2	29.1	29.7	30.6	30.2	30.2	29.8	28.6	27.5	26.7	25.5	24.2	23.5	23.3	25.9	30.6	21.0
6	23.2	22.8	22.6	22.0	22.2	23.1	21.9	22.4	25.3	27.0	27.9	29.0	29.1	29.0	28.2	28.1	27.7	27.3	26.6	26.1	24.6	24.2	23.9	23.0	25.3	29.1	21.9
7	22.9	22.5	22.2	21.8	21.1	21.1	21.1	23.1	24.5	26.1	27.7	28.6	29.5	29.8	30.3	30.2	29.1	28.1	26.4	25.4	24.4	23.6	23.1	22.6	25.2	30.3	21.1
8	22.3	21.9	21.9	21.6	21.0	21.4	20.6	22.3	24.7	26.3	28.9	29.8	30.2	29.8	29.9	29.5	29.1	28.2	27.1	26.1	24.9	23.8	23.1	22.6	25.3	30.2	20.6
9	22.6	22.1	21.5	21.1	20.5	19.9	20.7	22.5	24.7	26.1	27.1	28.1	28.7	29.4	29.4	29.4	29.1	28.0	26.7	25.6	24.3	23.8	23.7	23.1	24.9	29.4	19.9
10	22.7	22.3	21.8	20.6	20.1	20.7	20.3	20.4	23.6	25.0	27.1	28.3	29.3	29.6	30.0	30.2	29.2	28.1	26.6	25.7	23.9	24.1	23.4	22.6	24.8	30.2	20.1
11	22.3	21.3	20.6	20.3	20.9	21.3	21.6	21.9	23.3	24.6	25.9	27.6	28.0	28.2	27.1	27.4	27.0	24.8	22.9	21.0	21.1	20.1	19.5	18.9	23.2	28.2	18.9
12	18.5	17.6	17.2	16.9	16.4	15.9	15.3	14.9	15.9	17.6	17.6	18.0	18.2	19.0	18.9	19.2	19.1	18.3	17.2	16.7	15.9	15.2	14.9	14.4	17.0	19.2	14.4
13	14.1	13.6	13.0	12.9	12.8	12.8	13.2	13.7	16.4	17.9	18.9	19.9	20.8	22.5	23.2	23.8	23.7	22.5	21.1	20.0	19.0	18.2	17.5	16.9	17.9	23.8	12.8
14	16.7	16.9	18.8	17.8	18.0	18.0	18.5	19.2	22.9	24.3	25.8	27.4	28.6	29.0	29.6	29.7	29.4	28.6	27.0	26.0	25.7	25.6	25.3	25.2	23.9	29.7	16.7
15	25.4	24.4	23.5	23.9	24.2	24.0	23.3	23.7	25.0	26.8	28.0	29.1	30.5	30.7	31.3	30.9	30.2	28.9	27.0	25.5	24.8	23.3	23.1	23.0	26.3	31.3	23.0
16	22.0	21.5	20.9	20.3	20.4	20.4	20.3	19.8	23.1	25.3	27.3	28.3	28.8	29.2	29.6	29.6	29.1	27.2	26.0	24.7	23.5	22.8	22.2	21.8	24.3	29.6	19.8
17	21.6	20.8	20.9	20.7	20.1	19.7	19.2	19.8	22.6	25.2	26.7	27.9	28.5	28.5	29.1	28.8	27.7	26.7	25.6	24.2	23.9	22.6	22.9	21.9	24.0	29.1	19.2
18	22.4	21.9	21.5	20.9	20.5	20.0	19.9	19.8	22.1	22.8	24.3	25.8	26.9	26.4	26.3	26.4	26.3	25.1	24.0	23.5	23.4	21.9	21.3	20.4	23.1	26.9	19.8
19	20.3	20.1	20.0	19.8	20.2	20.9	20.9	21.3	24.1	26.1	28.6	29.9	29.8	29.7	30.0	30.0	28.8	27.2	26.0	24.4	23.4	22.7	22.5	22.1	24.5	30.0	19.8
20	22.0	21.3	21.1	20.7	21.1	20.0	19.7	19.4	23.8	25.3	26.2	28.1	28.4	28.9	28.6	28.1	27.5	26.3	25.2	24.0	23.3	22.8	22.6	22.7	24.0	28.9	19.4
21	21.7	21.3	21.0	20.0	19.3	18.8	19.3	19.8	21.7	24.6	25.6	26.3	27.7	28.1	27.2	27.2	26.6	24.9	23.3	22.4	21.7	21.0	20.4	19.1	22.9	28.1	18.8
22	18.9	18.5	18.2	17.7	17.5	17.1	17.3	18.1	20.8	21.9	23.9	24.9	25.5	26.1	26.7	26.4	25.3	23.8	22.8	21.7	21.8	21.2	20.4	20.3	21.5	26.7	17.1
23	19.3	19.2	18.6	18.2	17.9	18.1	19.0	18.9	20.6	23.2	24.7	25.8	26.1	26.2	26.0	26.4	24.8	23.8	22.8	21.9	21.2	20.8	20.6	20.5	21.9	26.4	17.9
24	20.1	19.9	19.3	18.4	18.3	17.7	17.3	17.6	20.7	21.6	22.7	23.1	24.0	24.4	24.1	23.8	23.1	21.9	20.4	19.3	18.2	17.2	16.5	16.1	20.2	24.4	16.1
25	15.5	15.5	14.9	14.9	14.4	13.7	13.6	13.8	16.7	19.4	21.9	22.9	23.7	24.4	24.7	25.1	24.4	23.0	21.2	19.5	18.5	18.0	17.8	17.3	19.0	25.1	13.6
26	17.1	19.3	19.9	19.4	18.5	18.3	18.0	17.7	19.1	20.4	21.3	22.3	23.2	24.4	25.0	25.3	25.1	24.2	23.3	23.5	23.1	22.9	22.3	21.7	21.5	25.3	17.1
27	20.9	20.5	20.1	19.0	18.3	17.7	16.8	17.1	18.4	19.3	20.8	22.1	23.8	24.5	25.5	25.5	25.3	24.1	22.9	22.3	22.2	22.1	22.1	21.8	21.4	25.5	16.8
28	20.9	20.1	20.6	19.2	19.8	20.2	19.5	19.7	21.3	22.5	24.0	25.9	27.6	28.7	28.9	28.6	27.8	26.1	24.7	22.9	22.1	21.2	20.9	20.8	23.1	28.9	19.2
29	20.0	20.0	19.8	19.3	19.5	20.1	19.6	20.5	23.0	25.2	26.7	27.9	27.8	28.1	28.3	28.1	27.1	25.7	24.2	22.7	21.3	21.2	20.8	20.3	23.2	28.3	19.3
30	19.9	19.2	18.9	19.5	20.0	19.0	18.4	19.1	22.4	24.0	25.7	27.2	26.9	27.6	28.1	27.3	26.5	24.9	23.8	22.0	20.8	20.4	19.9	19.4	22.5	28.1	18.4
31	19.1	18.4	19.0	19.7	19.3	19.0	18.2	19.2	22.2	24.4	26.6	27.4	27.9	27.2	27.7	27.2	26.2	24.6	23.0	21.2	20.6	19.6	19.6	19.8	22.4	27.9	18.2
Avg	21.5	21.1	20.8	20.4	20.2	20.0	19.8	20.4	22.8	24.6	26.0	27.2	27.8	28.2	28.4	28.3	27.7	26.5	25.1	23.9	23.1	22.3	21.9	21.5	23.7	--	--
Max	29.7	28.7	28.1	27.5	27.0	27.2	26.7	27.4	29.2	31.4	32.7	34.2	34.4	34.8	35.0	34.8	34.4	33.8	32.1	29.5	28.2	27.4	27.4	29.0	--	35.0	--
Min	14.1	13.6	13.0	12.9	12.8	12.8	13.2	13.7	15.9	17.6	17.6	18.0	18.2	19.0	18.9	19.2	19.1	18.3	17.2	16.7	15.9	15.2	14.9	14.4	--	--	12.8

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	19.6	20.4	20.4	20.7	20.2	20.8	19.7	20.7	23.2	24.4	26.2	28.2	28.8	28.4	28.0	27.7	26.7	25.0	23.5	22.4	21.6	21.0	20.5	20.1	23.3	28.8	19.6
2	19.4	19.1	18.4	18.5	19.9	19.9	19.3	19.6	22.0	22.4	24.5	26.0	26.3	26.3	26.3	26.3	25.2	23.9	22.7	21.3	20.4	19.7	19.5	19.2	21.9	26.3	18.4
3	18.8	18.7	17.9	17.1	17.6	18.5	18.1	17.8	20.5	22.0	24.1	25.6	25.6	25.5	26.2	26.0	25.0	23.5	22.2	21.1	20.5	19.7	19.3	19.1	21.3	26.2	17.1
4	19.0	18.4	18.2	19.6	20.2	20.4	19.6	19.2	21.7	24.1	26.5	27.9	28.0	28.0	28.3	28.2	27.1	25.6	24.3	22.5	21.4	21.1	21.3	20.8	23.0	28.3	18.2
5	21.6	21.1	21.0	21.2	21.1	20.3	19.6	19.4	22.0	24.5	26.5	27.7	28.7	28.7	29.7	29.2	28.1	26.4	24.5	23.1	22.7	23.9	23.0	23.1	24.1	29.7	19.4
6	22.5	21.8	21.5	22.0	21.2	21.8	21.6	21.1	22.7	24.6	26.9	28.2	29.6	29.9	29.1	29.1	28.4	26.8	25.1	23.4	22.7	21.5	21.7	21.1	24.3	29.9	21.1
7	21.1	20.9	21.0	21.4	20.9	21.0	21.0	21.4	23.3	25.2	27.6	28.9	30.2	30.7	29.8	29.4	28.0	26.1	24.8	23.0	21.8	21.4	21.0	20.6	24.2	30.7	20.6
8	20.0	19.9	19.7	19.4	19.6	19.4	19.5	18.6	21.9	23.7	25.3	26.1	25.8	25.6	25.6	25.0	22.5	21.2	20.9	20.3	20.0	19.6	19.6	19.7	21.6	26.1	18.6
9	19.0	19.7	19.1	18.1	17.0	17.0	17.0	17.1	17.6	18.8	19.5	20.1	21.7	23.2	22.8	22.5	21.3	19.8	18.4	17.0	16.6	16.1	14.9	12.1	18.6	23.2	12.1
10	10.2	8.9	8.1	7.3	7.1	6.8	6.8	7.0	8.3	9.0	9.8	10.1	11.1	11.2	11.4	11.4	10.3	9.8	9.6	8.7	8.0	7.9	8.0	7.0	8.9	11.4	6.8
11	6.4	5.8	5.3	5.3	5.1	4.5	4.5	4.6	6.9	8.8	9.8	10.8	11.0	12.0	12.4	12.0	11.9	11.1	9.6	9.0	8.2	8.6	8.5	9.2	8.4	12.4	4.5
12	8.9	9.8	11.5	12.2	12.7	12.4	12.4	12.1	12.5	13.7	14.5	15.6	16.7	17.8	18.7	18.7	18.0	16.3	15.3	14.2	14.6	15.3	15.7	13.9	14.3	18.7	8.9
13	13.9	14.4	14.1	14.0	14.0	13.4	13.5	12.8	13.6	15.0	16.1	17.7	19.5	20.3	21.3	21.3	21.6	19.5	18.5	18.5	18.0	18.5	17.6	16.0	16.8	21.6	12.8
14	17.3	17.2	16.9	17.5	17.4	17.3	17.1	17.1	17.8	18.6	20.0	21.0	21.9	22.9	23.7	23.7	22.7	21.1	20.3	20.2	19.8	19.1	18.8	18.8	19.5	23.7	16.9
15	18.3	18.8	18.7	18.7	18.2	17.9	18.0	17.5	18.9	20.1	21.4	21.5	21.0	21.5	21.9	21.9	21.6	21.1	20.8	20.7	20.3	19.9	18.5	17.8	19.8	21.9	17.5
16	17.4	18.1	19.2	18.4	19.0	18.5	18.0	17.3	18.5	20.0	21.8	23.2	22.5	22.5	22.8	23.1	22.6	21.0	19.7	17.8	17.1	16.4	16.4	16.6	19.5	23.2	16.4
17	17.4	17.3	17.3	18.0	18.6	18.1	16.3	16.2	18.1	19.3	20.5	21.2	22.1	23.1	23.3	22.6	21.1	19.2	17.4	16.8	16.1	16.3	15.5	16.2	18.7	23.3	15.5
18	15.2	15.8	15.6	15.5	15.3	15.9	16.0	15.7	17.1	18.9	20.3	21.7	21.9	22.4	22.1	21.9	20.7	19.5	18.9	17.7	17.5	16.8	16.0	15.6	18.1	22.4	15.2
19	15.4	15.4	14.6	14.4	15.3	15.5	15.4	15.1	16.7	19.0	20.8	21.8	22.1	22.7	22.3	22.5	21.9	20.1	19.0	17.7	17.1	17.6	17.8	17.5	18.2	22.7	14.4
20	17.0	17.3	17.0	16.4	16.4	16.4	15.9	14.9	16.7	18.8	20.3	22.0	23.4	24.0	24.2	24.4	23.0	22.1	21.6	21.0	20.8	20.6	20.6	20.6	19.8	24.4	14.9
21	20.6	20.5	20.4	20.4	19.9	19.8	19.6	19.6	20.6	21.7	23.9	24.5	24.9	24.1	24.0	23.0	23.2	21.3	20.1	18.9	17.5	17.9	17.2	15.8	20.8	24.9	15.8
22	15.8	15.6	15.6	16.2	15.3	15.4	15.3	14.7	16.9	19.8	21.6	22.6	23.8	23.9	24.1	24.0	22.9	21.2	19.7	17.8	16.9	16.6	16.7	16.7	18.7	24.1	14.7
23	17.7	18.0	17.4	16.5	17.9	17.2	16.7	17.3	19.3	21.7	23.3	23.9	24.5	25.3	25.7	26.0	25.2	24.1	23.2	22.9	22.6	22.0	21.3	20.5	21.3	26.0	16.5
24	19.2	18.5	18.2	17.0	16.7	16.5	16.5	17.9	19.0	20.1	20.9	21.8	22.8	23.7	24.2	24.3	23.5	22.2	21.6	21.3	20.6	20.0	19.5	19.2	20.2	24.3	16.5
25	19.2	19.1	18.9	18.8	18.6	18.7	18.2	17.9	19.3	21.0	22.7	24.3	24.9	25.1	25.3	24.5	23.1	21.6	20.5	18.8	17.8	17.2	17.0	16.6	20.4	25.3	16.6
26	16.4	15.2	15.2	15.3	15.5	14.9	14.4	13.9	16.3	18.6	20.2	21.1	22.1	22.0	22.4	22.6	21.8	20.2	19.1	18.2	17.9	17.1	16.9	16.9	18.1	22.6	13.9
27	16.0	15.8	16.5	16.6	17.0	17.5	17.5	17.6	18.5	19.8	20.9	21.6	23.1	23.8	24.1	24.1	23.2	22.2	21.9	21.6	21.5	21.2	21.0	20.6	20.1	24.1	15.8
28	20.4	19.8	19.3	18.9	18.9	19.0	18.6	18.3	18.8	20.3	21.7	23.2	24.4	24.9	24.3	23.2	22.0	20.8	19.8	18.3	17.2	17.3	16.7	16.1	20.1	24.9	16.1
29	15.2	15.6	14.7	14.2	13.6	13.6	13.7	13.4	14.4	17.7	19.2	20.5	20.9	20.8	21.2	21.1	20.3	18.9	18.1	17.2	15.9	15.3	15.5	14.6	16.9	21.2	13.4
30	14.5	14.3	14.1	14.1	14.0	13.4	14.4	13.9	15.0	17.2	19.2	20.4	21.2	21.5	21.8	21.6	20.5	19.0	17.7	16.2	15.5	14.9	14.7	15.0	16.9	21.8	13.4
Avg	17.1	17.0	16.8	16.8	16.8	16.7	16.5	16.3	17.9	19.6	21.2	22.3	23.0	23.4	23.6	23.4	22.5	21.0	20.0	18.9	18.3	18.0	17.7	17.2	19.3	--	--
Max	22.5	21.8	21.5	22.0	21.2	21.8	21.6	21.4	23.3	25.2	27.6	28.9	30.2	30.7	29.8	29.4	28.4	26.8	25.1	23.4	22.7	23.9	23.0	23.1	--	30.7	--
Min	6.4	5.8	5.3	5.3	5.1	4.5	4.5	4.6	6.9	8.8	9.8	10.1	11.0	11.2	11.4	11.4	10.3	9.8	9.6	8.7	8.0	7.9	8.0	7.0	--	--	4.5

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	14.5	14.8	15.1	13.8	14.1	13.3	12.9	12.9	14.5	16.1	18.4	20.5	21.3	21.9	22.3	22.2	20.7	18.9	17.6	16.5	15.1	15.0	15.0	14.7	16.7	22.3	12.9
2	14.1	14.1	14.4	13.9	14.5	13.2	13.7	13.5	15.9	17.1	19.4	21.1	21.7	21.7	21.8	21.2	20.5	18.7	17.4	16.7	15.9	15.0	15.1	14.9	16.9	21.8	13.2
3	14.8	14.8	14.5	13.6	13.3	13.0	13.3	13.3	14.9	17.2	18.7	19.1	19.2	19.9	20.2	20.1	19.5	18.1	17.4	16.2	15.7	14.6	14.2	14.1	16.2	20.2	13.0
4	14.2	15.2	15.3	14.6	14.6	14.4	14.1	13.7	15.5	15.9	18.4	21.2	22.5	23.2	23.6	23.7	22.3	20.6	20.3	20.0	20.4	19.6	19.3	18.1	18.4	23.7	13.7
5	17.5	18.2	17.3	16.3	16.3	15.9	15.9	16.5	17.6	19.4	20.8	22.4	23.7	24.9	25.3	25.1	23.5	21.4	19.2	18.5	17.5	17.2	17.0	16.7	19.3	25.3	15.9
6	16.2	16.2	15.6	16.1	15.4	14.8	14.0	14.2	16.5	17.7	20.3	21.8	22.6	22.5	22.4	21.8	20.2	19.0	18.3	17.0	16.3	15.8	15.0	14.7	17.7	22.6	14.0
7	14.3	14.3	13.1	12.9	12.5	12.7	12.8	12.4	14.4	17.1	18.5	19.2	19.6	19.7	19.7	19.4	18.7	17.4	16.3	15.3	14.6	13.7	13.4	12.9	15.6	19.7	12.4
8	12.7	12.4	12.9	12.5	12.5	11.6	10.9	10.9	13.6	15.5	17.2	18.3	18.4	18.7	18.7	18.4	17.7	16.0	14.9	14.0	13.0	12.7	12.4	12.2	14.5	18.7	10.9
9	12.4	11.0	10.8	10.6	9.9	9.5	9.3	10.1	10.8	13.5	15.0	15.5	16.4	16.7	16.6	16.3	15.8	14.4	13.8	12.7	12.3	11.1	10.4	10.2	12.7	16.7	9.3
10	9.7	9.3	8.8	7.9	8.3	7.9	6.1	5.3	7.1	9.4	11.0	11.7	13.7	15.2	15.8	14.8	13.4	11.8	11.1	9.7	8.7	8.0	8.3	8.0	10.0	15.8	5.3
11	8.1	8.3	7.9	8.9	7.7	7.4	8.2	8.5	9.4	12.3	14.0	14.8	16.0	16.8	15.8	16.1	15.3	13.8	12.2	11.5	11.6	11.9	12.3	12.3	11.7	16.8	7.4
12	12.0	11.8	12.1	11.6	11.2	11.1	10.9	10.7	11.6	13.7	15.7	17.4	18.9	19.5	19.9	19.8	19.3	17.3	16.7	16.1	16.1	15.8	15.4	14.8	15.0	19.9	10.7
13	13.6	14.3	13.1	13.8	13.5	13.1	13.1	13.1	13.6	15.3	17.1	18.5	19.3	19.2	17.2	16.5	16.5	15.6	15.4	15.4	13.6	11.1	11.4	10.6	14.8	19.3	10.6
14	10.8	11.7	9.6	8.0	7.2	7.1	6.6	6.4	6.2	6.4	6.5	6.7	7.9	7.0	5.2	6.5	6.7	6.7	6.5	7.3	7.7	7.0	7.6	8.2	7.4	11.7	5.2
15	8.2	7.0	6.5	6.5	6.2	6.5	6.9	7.0	7.0	7.7	8.2	8.3	8.7	8.0	8.1	8.4	8.5	8.2	8.2	8.2	8.1	7.1	6.9	6.8	7.5	8.7	6.2
16	6.9	6.9	6.8	6.7	6.5	6.3	6.0	6.0	5.9	6.8	7.5	8.2	8.7	9.4	9.5	9.9	9.1	8.2	7.6	6.8	6.1	6.1	5.9	5.1	7.2	9.9	5.1
17	5.3	6.0	5.5	5.0	5.5	5.7	4.9	4.8	6.1	8.7	10.2	11.4	11.7	12.6	12.7	12.6	12.2	11.2	9.7	9.7	10.0	9.6	9.8	10.2	8.8	12.7	4.8
18	10.1	8.9	8.8	8.6	8.2	7.8	9.4	10.1	9.6	10.9	12.3	13.9	15.2	16.2	15.4	13.9	13.3	12.8	12.4	12.3	12.5	12.4	11.9	11.4	11.6	16.2	7.8
19	9.8	7.6	6.2	5.9	4.9	4.1	3.0	2.2	2.4	3.1	3.8	4.8	6.5	6.5	7.2	7.5	7.4	6.4	5.9	5.0	4.4	5.6	5.1	4.8	5.4	9.8	2.2
20	4.5	4.1	4.6	4.3	4.8	5.4	6.5	6.7	6.4	7.6	9.2	10.5	11.9	12.9	13.5	13.6	12.9	11.7	12.2	12.4	12.8	12.8	12.6	12.8	9.4	13.6	4.1
21	12.7	12.5	12.1	11.3	11.2	10.9	10.2	10.1	11.1	12.5	13.3	14.2	15.1	15.8	16.1	16.4	15.5	14.5	14.1	14.4	14.0	14.0	14.2	14.2	13.3	16.4	10.1
22	14.4	14.2	14.1	14.0	13.7	13.6	13.4	13.2	13.4	14.6	16.4	17.7	19.3	19.4	18.9	19.1	17.1	15.3	13.7	13.0	13.0	12.4	11.5	11.3	14.9	19.4	11.3
23	11.4	10.4	9.8	9.0	9.4	9.1	8.7	8.1	10.0	12.5	14.7	16.0	16.4	16.0	16.1	16.8	15.5	13.8	12.5	11.1	10.3	9.7	9.9	11.0	12.0	16.8	8.1
24	9.8	8.9	8.3	7.8	8.1	8.1	8.3	7.3	8.5	10.0	11.4	12.1	12.9	12.5	12.4	12.0	11.6	11.4	11.1	10.6	10.0	9.6	8.8	8.3	10.0	12.9	7.3
25	8.3	8.2	8.0	7.2	6.0	5.5	5.5	5.4	6.2	7.0	7.6	8.4	8.7	8.5	8.9	9.2	8.8	8.3	8.5	8.4	8.6	8.1	8.9	9.3	7.8	9.3	5.4
26	8.9	8.6	8.5	8.7	8.6	8.5	8.3	8.0	8.4	10.2	12.4	14.2	13.9	12.6	13.1	13.2	11.5	10.1	9.6	8.9	8.0	7.4	6.1	5.7	9.7	14.2	5.7
27	5.2	5.0	4.7	5.3	5.4	4.3	3.5	4.6	6.1	6.8	6.8	7.6	7.6	5.1	5.6	7.3	7.4	6.6	5.9	4.7	4.5	4.1	3.9	4.2	5.5	7.6	3.5
28	4.5	4.4	3.9	3.4	3.5	3.5	3.4	3.5	3.7	6.5	7.8	8.5	9.0	9.5	10.4	10.6	10.0	8.5	7.3	6.5	6.1	6.2	7.6	6.4	6.4	10.6	3.4
29	5.7	5.4	7.0	7.9	7.1	7.6	7.6	7.1	7.3	8.4	9.9	11.1	12.1	13.3	14.2	13.8	13.1	12.7	12.3	12.1	12.1	12.0	11.7	11.4	10.1	14.2	5.4
30	10.9	10.2	9.2	9.2	9.0	7.7	9.2	9.0	7.4	8.1	9.0	11.2	8.9	10.4	10.6	10.3	9.7	8.3	7.6	5.3	3.4	2.6	1.6	2.3	8.0	11.2	1.6
31	2.4	2.6	3.2	3.4	3.7	3.4	3.0	3.2	3.6	3.8	4.2	4.8	5.8	4.7	6.0	5.6	5.8	5.6	5.5	4.9	3.7	3.2	3.2	3.1	4.1	6.0	2.4
Avg	10.4	10.2	9.9	9.6	9.5	9.1	9.0	9.0	9.8	11.3	12.8	13.9	14.6	14.9	14.9	14.9	14.2	13.0	12.3	11.7	11.2	10.7	10.5	10.3	11.6	--	--
Max	17.5	18.2	17.3	16.3	16.3	15.9	15.9	16.5	17.6	19.4	20.8	22.4	23.7	24.9	25.3	25.1	23.5	21.4	20.3	20.0	20.4	19.6	19.3	18.1	--	25.3	--
Min	2.4	2.6	3.2	3.4	3.5	3.4	3.0	2.2	2.4	3.1	3.8	4.8	5.8	4.7	5.2	5.6	5.8	5.6	5.5	4.7	3.4	2.6	1.6	2.3	--	--	1.6

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	6	173	421	617	764	840	863	802	682	510	297	83	0	0	0	0	0	0	252	863	0
2	0	0	0	0	0	0	7	166	407	601	742	827	839	791	677	508	301	82	0	0	0	0	0	0	248	839	0
3	0	0	0	0	0	0	7	156	401	596	730	826	828	783	673	493	257	67	0	0	0	0	0	0	242	828	0
4	0	0	0	0	0	0	9	149	366	567	724	806	836	786	661	474	271	46	0	0	0	0	0	0	237	836	0
5	0	0	0	0	0	0	6	149	399	593	739	816	840	772	659	489	278	62	0	0	0	0	0	0	242	840	0
6	0	0	0	0	0	0	9	140	346	523	686	821	745	606	335	333	174	33	0	0	0	0	0	0	198	821	0
7	0	0	0	0	0	0	11	106	284	434	696	807	824	759	653	484	275	65	0	0	0	0	0	0	225	824	0
8	0	0	0	0	0	0	16	116	292	551	722	805	821	765	649	478	265	59	0	0	0	0	0	0	231	821	0
9	0	0	0	0	0	0	6	122	381	566	712	799	814	757	637	466	260	57	0	0	0	0	0	0	232	814	0
10	0	0	0	0	0	0	5	118	373	563	710	796	816	757	635	464	258	52	0	0	0	0	0	0	231	816	0
11	0	0	0	0	0	0	9	90	215	417	569	795	687	681	418	456	166	37	0	0	0	1	0	0	189	795	0
12	0	0	0	0	0	0	5	34	333	477	449	549	436	644	445	398	255	49	0	0	0	0	0	0	170	644	0
13	0	0	0	0	0	0	4	113	376	567	711	795	808	747	629	458	246	46	0	0	0	0	0	0	229	808	0
14	0	0	0	0	0	0	4	110	381	572	714	790	805	744	627	455	242	45	0	0	0	0	0	0	229	805	0
15	0	0	0	0	0	0	3	109	384	576	720	800	811	746	627	449	238	42	0	0	0	0	0	0	229	811	0
16	0	0	0	0	0	0	3	105	370	559	704	787	801	741	620	447	197	18	0	0	0	0	0	0	223	801	0
17	0	0	0	0	0	0	3	99	358	550	695	778	792	727	600	371	149	27	0	0	0	0	0	0	215	792	0
18	0	0	0	0	0	0	3	96	354	539	724	818	733	641	570	350	231	32	0	0	0	0	0	0	212	818	0
19	0	0	0	0	0	0	2	98	368	558	704	783	791	729	608	430	217	31	0	0	0	0	0	0	222	791	0
20	0	0	0	0	0	0	3	90	345	527	685	650	765	726	587	410	204	25	0	0	0	0	0	0	209	765	0
21	0	0	0	0	0	0	3	85	344	536	679	755	789	649	449	456	187	28	0	0	0	0	0	0	207	789	0
22	0	0	0	0	0	0	3	82	337	523	670	746	754	695	579	407	200	24	0	0	0	0	0	0	209	754	0
23	0	0	0	0	0	0	2	78	345	522	536	716	742	723	504	474	101	16	0	0	0	0	0	0	198	742	0
24	0	0	0	0	0	0	3	74	334	523	663	747	760	697	578	404	195	23	0	0	0	0	0	0	208	760	0
25	0	0	0	0	0	0	2	74	343	534	677	757	768	703	581	405	196	21	0	0	0	0	0	0	211	768	0
26	0	0	0	0	0	0	2	72	353	547	688	766	773	707	583	403	189	17	0	0	0	0	0	0	212	773	0
27	0	0	0	0	0	0	2	69	340	532	672	749	758	695	571	395	184	18	0	0	0	0	0	0	208	758	0
28	0	0	0	0	0	0	1	64	332	521	660	737	742	683	560	390	181	17	0	0	0	0	0	0	204	742	0
29	0	0	0	0	0	0	1	63	325	511	646	724	735	675	558	385	178	15	0	0	0	0	0	0	201	735	0
30	0	0	0	0	0	0	1	61	328	512	651	730	742	678	561	386	177	14	0	0	0	0	0	0	202	742	0
31	0	0	0	0	0	0	1	60	325	512	647	703	647	673	544	268	129	11	0	0	0	0	0	0	188	703	0
Avg	0	0	0	0	0	0	5	101	350	539	680	768	770	719	583	429	216	38	0	0	0	0	0	0	217	--	--
Max	0	0	0	0	0	0	16	173	421	617	764	840	863	802	682	510	301	83	0	0	0	1	0	0	--	863	--
Min	0	0	0	0	0	0	1	34	215	417	449	549	436	606	335	268	101	11	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	1	54	314	496	631	711	719	660	541	370	163	12	0	0	0	0	0	0	195	719	0
2	0	0	0	0	0	0	2	89	253	310	485	547	641	604	544	356	153	11	0	0	0	0	0	0	166	641	0
3	0	0	0	0	0	0	1	48	293	477	603	684	594	644	524	350	150	11	0	0	0	0	0	0	182	684	0
4	0	0	0	0	0	0	1	45	292	479	618	696	704	639	523	353	150	11	0	0	0	0	0	0	188	704	0
5	0	0	0	0	0	0	0	40	293	483	625	702	706	643	524	352	148	10	0	0	0	0	0	0	189	706	0
6	0	0	0	0	0	0	0	35	292	473	615	690	697	636	523	350	145	10	0	0	0	0	0	0	186	697	0
7	0	0	0	0	0	0	0	35	284	467	603	678	690	630	514	342	140	9	0	0	0	0	0	0	183	690	0
8	0	0	0	0	0	0	0	42	258	433	604	681	689	629	476	191	30	1	0	0	0	0	0	0	168	689	0
9	0	0	0	0	0	0	0	17	86	339	257	293	445	608	474	292	110	5	0	0	0	0	0	0	122	608	0
10	0	0	0	0	0	0	0	41	266	356	370	511	617	497	495	289	49	3	0	0	0	0	0	0	146	617	0
11	0	0	0	0	0	0	0	27	281	470	610	686	692	640	516	340	125	8	0	0	0	0	0	0	183	692	0
12	0	0	0	0	0	0	0	23	286	481	624	701	710	644	522	350	81	2	0	0	0	0	0	0	184	710	0
13	0	0	0	0	0	0	0	22	283	472	615	694	699	638	518	345	106	6	0	0	0	0	0	0	183	699	0
14	0	0	0	0	0	0	0	41	217	430	606	673	691	617	507	335	104	3	0	0	0	0	0	0	176	691	0
15	0	0	0	0	0	0	0	21	246	323	474	337	237	283	240	126	39	1	0	0	0	0	0	0	97	474	0
16	0	0	0	0	0	0	0	38	227	300	571	648	676	601	485	314	98	6	0	0	0	0	0	0	165	676	0
17	0	0	0	0	0	0	0	29	102	190	262	314	408	378	244	139	46	2	0	0	0	0	0	0	88	408	0
18	0	0	0	0	0	0	0	29	213	420	556	637	653	581	481	311	87	2	0	0	0	0	0	0	165	653	0
19	0	0	0	0	0	0	0	17	240	423	555	633	645	591	475	310	96	5	0	0	0	0	0	0	166	645	0
20	0	0	0	0	0	0	0	12	242	435	571	645	656	602	485	306	76	3	0	0	0	0	0	0	168	656	0
21	0	0	0	0	0	0	0	23	243	357	508	489	568	612	461	163	96	4	0	0	0	0	0	0	147	612	0
22	0	0	0	0	0	0	0	12	228	421	555	631	610	591	474	310	97	4	0	0	0	0	0	0	164	631	0
23	0	0	0	0	0	0	0	12	221	408	541	618	629	579	463	298	92	3	0	0	0	0	0	0	161	629	0
24	0	0	0	0	0	0	0	11	220	411	548	626	638	583	464	301	93	3	0	0	0	0	0	0	162	638	0
25	0	0	0	0	0	0	0	12	211	398	534	610	625	572	457	299	93	3	0	0	0	0	0	0	159	625	0
26	0	0	0	0	0	0	0	12	204	391	528	611	451	369	455	294	92	3	0	0	0	0	0	0	142	611	0
27	0	0	0	0	0	0	0	11	204	395	537	581	635	446	439	227	76	2	0	0	0	0	0	0	148	635	0
28	0	0	0	0	0	0	0	15	196	400	528	562	584	564	445	184	85	2	0	0	0	0	0	0	148	584	0
29	0	0	0	0	0	0	0	10	187	374	510	592	611	559	451	287	99	5	0	0	0	0	0	0	154	611	0
30	0	0	0	0	0	0	0	20	188	365	511	598	615	554	444	295	91	2	0	0	0	0	0	0	154	615	0
Avg	0	0	0	0	0	0	0	28	236	406	539	603	618	573	472	293	100	5	0	0	0	0	0	0	161	--	--
Max	0	0	0	0	0	0	2	89	314	496	631	711	719	660	544	370	163	12	0	0	0	0	0	0	--	719	--
Min	0	0	0	0	0	0	0	10	86	190	257	293	237	283	240	126	30	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0	0	0	0	0	0	0	11	183	375	512	593	609	557	450	293	102	2	0	0	0	0	0	0	153	609	0
2	0	0	0	0	0	0	0	9	181	374	512	593	608	558	448	291	99	4	0	0	0	0	0	0	153	608	0
3	0	0	0	0	0	0	0	8	169	363	474	482	546	546	441	286	93	2	0	0	0	0	0	0	142	546	0
4	0	0	0	0	0	0	0	20	131	252	447	455	589	561	412	275	95	2	0	0	0	0	0	0	135	589	0
5	0	0	0	0	0	0	0	20	130	312	494	585	592	534	439	278	82	1	0	0	0	0	0	0	144	592	0
6	0	0	0	0	0	0	0	23	121	252	407	496	590	538	404	232	78	1	0	0	0	0	0	0	131	590	0
7	0	0	0	0	0	0	0	8	157	355	494	577	595	550	444	288	98	3	0	0	0	0	0	0	149	595	0
8	0	0	0	0	0	0	0	9	150	352	496	582	596	555	449	295	99	1	0	0	0	0	0	0	149	596	0
9	0	0	0	0	0	0	0	8	148	348	492	579	603	559	451	303	104	3	0	0	0	0	0	0	150	603	0
10	0	0	0	0	0	0	0	6	154	369	516	605	622	571	459	306	109	2	0	0	0	0	0	0	155	622	0
11	0	0	0	0	0	0	0	6	150	366	513	600	614	564	408	296	60	3	0	0	0	0	0	0	149	614	0
12	0	0	0	0	0	0	0	6	149	363	507	603	631	573	456	300	106	2	0	0	0	0	0	0	154	631	0
13	0	0	0	0	0	0	0	6	142	359	485	540	548	402	140	195	124	3	0	0	0	0	0	0	123	548	0
14	0	0	0	0	0	0	0	3	15	31	59	152	266	135	55	131	24	2	0	0	0	0	0	0	36	266	0
15	0	0	0	0	0	0	0	2	31	76	95	62	64	61	70	72	17	1	0	0	0	0	0	0	23	95	0
16	0	0	0	0	0	0	0	5	55	280	452	526	651	570	484	299	98	4	0	0	0	0	0	0	143	651	0
17	0	0	0	0	0	0	0	6	129	340	483	569	593	551	450	298	110	3	0	0	0	0	0	0	147	593	0
18	0	0	0	0	0	0	0	12	134	304	423	500	475	388	270	79	26	1	0	0	0	0	0	0	109	500	0
19	0	0	0	0	0	1	0	9	94	113	315	469	681	553	407	294	118	5	0	0	0	0	0	0	127	681	0
20	0	0	0	0	0	0	0	5	132	359	510	599	620	579	464	304	93	4	0	0	0	0	0	0	153	620	0
21	0	0	0	0	0	0	0	5	129	357	508	595	619	575	442	284	102	5	0	0	0	0	0	0	151	619	0
22	0	0	0	0	0	0	0	10	143	332	471	574	623	552	464	297	113	2	0	0	0	0	0	0	149	623	0
23	0	0	0	0	0	0	0	4	122	336	484	578	604	565	432	291	97	3	0	0	0	0	0	0	147	604	0
24	0	0	0	0	0	0	0	7	103	209	443	559	587	550	442	118	45	4	0	0	0	0	0	0	128	587	0
25	0	0	0	0	0	0	0	12	99	183	205	258	249	243	274	186	58	2	0	0	0	0	0	0	74	274	0
26	0	0	0	0	0	0	0	5	98	295	511	489	379	446	331	232	97	4	0	0	0	0	0	0	120	511	0
27	0	0	0	0	0	0	0	10	91	148	189	410	247	51	394	313	152	8	0	0	0	0	0	0	84	410	0
28	0	0	0	0	0	0	0	4	113	334	488	584	615	575	474	324	133	6	0	0	0	0	0	0	152	615	0
29	0	0	0	0	0	0	0	4	114	343	497	592	619	581	480	238	54	3	0	0	0	0	0	0	147	619	0
30	0	0	0	0	0	0	0	3	60	143	202	280	435	430	220	237	62	3	0	0	0	0	0	0	87	435	0
31	0	0	0	0	0	0	0	2	21	76	136	265	296	153	235	128	107	8	0	0	0	0	0	0	59	296	0
Avg	0	0	0	0	0	0	0	8	118	281	414	495	528	472	380	250	89	3	0	0	0	0	0	0	127	--	--
Max	0	0	0	0	0	1	0	23	183	375	516	605	681	581	484	324	152	8	0	0	0	0	0	0	--	681	--
Min	0	0	0	0	0	0	0	2	15	31	59	62	64	51	55	72	17	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	9	10	12	12	13	14	13	12	11	10	9	9	7	6	7	7	7	7	8	11	11	12	12	10	10	14	6
2	11	11	12	12	13	13	14	14	13	12	11	10	9	8	8	8	8	8	9	11	12	13	14	14	11	14	8
3	15	15	15	16	16	22	22	21	16	14	13	11	11	10	9	9	9	10	11	12	13	15	15	15	14	22	9
4	17	21	22	23	21	22	24	22	18	15	14	13	12	12	12	11	12	12	14	16	16	17	22	23	17	24	11
5	25	26	29	30	29	28	33	29	22	19	17	16	14	14	14	13	12	13	14	14	16	18	19	19	20	33	12
6	19	20	20	22	22	19	21	21	17	17	16	15	16	16	17	17	17	17	18	19	22	22	23	25	19	25	15
7	25	26	26	27	28	29	28	24	21	20	18	17	16	15	15	14	15	16	18	21	23	24	26	26	22	29	14
8	27	28	27	28	29	29	30	27	22	19	17	15	14	14	15	15	16	18	19	21	23	24	26	28	22	30	14
9	29	31	32	33	35	36	34	30	27	25	24	24	24	23	22	21	20	21	22	24	28	30	28	30	27	36	20
10	31	33	32	34	35	35	41	43	36	32	25	21	17	17	17	16	14	15	18	19	22	22	23	25	26	43	14
11	28	32	36	42	39	37	38	38	31	28	24	19	19	20	21	20	22	35	50	67	62	52	48	50	36	67	19
12	49	45	51	55	60	67	69	65	56	48	49	45	45	38	39	35	32	32	35	37	43	43	44	44	47	69	32
13	45	47	48	49	50	51	48	46	37	33	31	30	28	26	24	23	23	25	29	32	37	39	40	42	37	51	23
14	42	41	33	34	32	32	30	29	21	20	18	15	14	13	12	11	11	12	13	13	13	13	14	15	21	42	11
15	14	15	16	15	14	15	16	15	14	13	13	12	9	9	8	8	9	10	12	14	15	17	18	17	13	18	8
16	19	19	20	20	19	19	20	21	16	13	12	11	11	11	12	12	12	15	16	18	20	23	22	22	17	23	11
17	24	25	25	24	25	26	28	27	21	17	16	15	16	16	15	16	16	16	17	19	20	22	22	24	20	28	15
18	23	24	26	27	28	28	29	34	43	51	45	35	32	33	34	31	29	32	36	35	34	37	38	39	34	51	23
19	40	39	38	36	33	32	26	18	13	10	8	9	12	13	14	15	18	20	21	23	24	25	24	25	22	40	8
20	24	25	23	21	20	21	23	24	17	17	17	15	17	18	19	20	19	18	18	20	21	22	22	22	20	25	15
21	27	34	36	36	36	38	37	36	31	26	25	23	18	18	18	19	21	26	29	33	36	37	40	45	30	45	18
22	47	49	50	52	54	57	57	55	46	44	37	29	29	26	24	25	28	31	33	36	35	39	41	42	40	57	24
23	43	44	45	46	47	48	45	44	40	34	30	27	24	24	25	24	27	32	35	37	38	38	39	40	37	48	24
24	42	42	43	45	47	48	50	47	34	31	29	27	25	24	22	21	18	18	23	19	18	21	24	25	31	50	18
25	27	28	29	28	28	30	30	29	19	12	8	7	8	7	8	7	7	8	10	12	14	14	15	15	17	30	7
26	14	13	12	13	13	12	12	12	11	10	10	9	9	8	8	8	8	8	8	8	8	8	9	11	10	14	8
27	12	14	16	19	20	21	23	22	20	19	18	17	15	14	13	13	12	12	13	14	14	14	14	13	16	23	12
28	15	18	18	20	17	17	18	18	17	16	15	14	11	9	10	9	10	11	12	13	14	16	16	15	14	20	9
29	16	16	16	17	17	17	18	16	13	12	11	12	13	13	13	13	14	15	17	19	21	21	21	23	16	23	11
30	23	23	21	18	16	18	19	18	14	13	12	11	13	12	11	12	12	13	14	15	17	18	19	20	16	23	11
31	19	17	15	13	13	15	17	13	10	10	9	9	8	10	9	9	10	11	14	16	16	18	17	14	13	19	8
Avg	26	27	27	28	28	29	29	28	24	21	19	18	17	16	16	15	16	17	20	22	23	24	24	25	22	--	--
Max	49	49	51	55	60	67	69	65	56	51	49	45	45	38	39	35	32	35	50	67	62	52	48	50	--	69	--
Min	9	10	12	12	13	12	12	12	10	10	8	7	7	6	7	7	7	7	8	8	8	8	9	10	--	--	6

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	13	11	11	11	11	11	12	11	10	10	9	8	8	9	10	11	12	13	14	15	17	18	17	18	12	18	8
2	19	19	20	20	17	18	19	18	16	16	14	13	13	14	14	14	15	17	18	20	21	23	23	23	18	23	13
3	25	24	26	28	26	24	25	25	21	19	17	15	16	17	16	17	18	20	21	23	25	25	25	25	22	28	15
4	26	26	25	22	18	17	18	19	14	12	11	10	10	10	11	11	12	13	15	17	18	19	16	13	16	26	10
5	11	11	11	11	11	12	13	13	11	9	8	7	7	7	7	8	9	11	12	13	14	13	14	14	11	14	7
6	15	16	16	15	17	16	16	17	15	13	11	10	9	9	11	11	11	12	14	16	17	17	17	17	14	17	9
7	16	17	17	16	17	16	16	16	14	13	11	9	9	10	10	12	12	13	14	16	17	17	17	18	14	18	9
8	18	19	20	21	20	21	20	22	16	14	12	12	12	13	12	14	24	30	31	35	35	32	31	32	22	35	12
9	36	36	44	51	59	61	62	64	60	54	52	51	43	30	29	25	23	25	30	42	47	49	63	89	47	89	23
10	94	94	96	94	87	86	83	78	67	66	61	56	52	47	42	38	40	42	41	46	51	52	53	58	64	96	38
11	61	61	62	55	58	64	59	58	46	34	31	28	31	32	31	30	26	28	33	35	43	39	32	19	42	64	19
12	21	19	15	13	11	11	10	11	13	12	11	10	9	10	10	9	8	9	11	14	13	11	11	14	12	21	8
13	13	11	10	10	10	11	12	13	13	11	11	10	8	8	9	9	9	12	13	12	12	11	10	13	11	13	8
14	12	12	12	10	10	10	10	9	9	9	9	9	8	8	8	7	8	8	8	8	8	9	10	9	9	12	7
15	10	9	9	9	10	10	11	13	12	11	11	11	12	12	12	12	12	12	13	13	14	15	19	21	12	21	9
16	21	18	15	16	15	16	17	18	17	16	14	13	16	16	15	13	13	15	17	21	22	24	23	21	17	24	13
17	18	18	18	16	15	17	22	23	21	21	19	19	19	21	22	20	22	26	32	34	34	32	34	33	23	34	15
18	38	38	40	40	40	35	34	37	35	33	33	31	29	28	29	31	34	39	41	44	44	45	47	47	37	47	28
19	48	48	50	50	46	46	45	45	41	35	31	25	25	25	26	25	27	32	35	38	38	30	27	29	36	50	25
20	32	31	31	32	32	31	32	36	30	26	23	21	17	15	15	14	18	19	19	20	21	22	23	23	24	36	14
21	24	25	25	25	27	27	27	27	25	24	21	21	21	22	22	22	20	25	28	32	34	30	30	35	26	35	20
22	35	35	34	26	29	28	29	30	25	23	18	13	12	13	14	15	20	22	24	28	29	30	25	25	24	35	12
23	19	17	18	20	17	19	20	19	15	12	10	10	10	10	11	11	12	14	15	15	15	17	19	20	15	20	10
24	21	21	21	23	22	22	21	19	17	16	16	16	15	14	14	14	14	16	17	18	19	20	20	21	18	23	14
25	22	21	21	21	22	22	22	23	22	20	18	17	16	16	15	17	19	22	24	27	28	29	30	31	22	31	15
26	31	34	34	34	33	33	34	36	30	25	21	19	18	20	19	18	19	23	26	27	26	25	26	24	26	36	18
27	25	25	23	23	22	20	20	20	19	18	16	15	14	13	13	14	15	16	16	16	16	17	17	17	18	25	13
28	17	18	19	20	20	21	22	23	22	20	20	19	17	16	18	20	21	23	24	27	29	29	31	32	22	32	16
29	33	32	34	36	37	38	37	38	34	26	24	23	22	22	21	22	23	27	29	32	35	36	36	37	30	38	21
30	38	38	41	44	45	48	45	47	43	37	34	32	29	28	26	27	29	32	36	41	43	45	45	38	38	48	26
Avg	27	27	27	27	27	27	27	28	24	22	20	18	18	17	17	17	18	21	22	25	26	26	26	27	23	--	--
Max	94	94	96	94	87	86	83	78	67	66	61	56	52	47	42	38	40	42	41	46	51	52	63	89	--	96	--
Min	10	9	9	9	10	10	10	9	9	9	8	7	7	7	7	7	8	8	8	8	8	9	10	9	--	--	7

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	38	36	35	38	37	40	41	43	37	34	29	25	24	26	25	26	29	33	37	40	43	40	35	34	34	43	24
2	37	36	35	38	35	41	40	40	34	32	27	23	22	24	24	24	26	31	35	37	39	41	42	42	34	42	22
3	43	43	44	47	48	50	50	50	46	38	34	35	34	31	32	32	34	39	40	44	44	48	49	50	42	50	31
4	47	44	45	48	48	48	48	50	43	42	34	25	21	21	21	22	27	30	28	25	19	23	25	29	34	50	19
5	29	27	28	29	29	29	28	27	24	20	18	16	14	13	12	12	17	19	23	24	26	25	26	28	23	29	12
6	26	28	29	26	28	29	31	31	26	24	21	18	17	18	18	21	24	26	27	31	32	33	35	36	26	36	17
7	36	36	39	40	41	41	41	43	37	29	28	28	30	30	30	32	33	36	38	41	43	46	47	49	37	49	28
8	49	50	47	49	48	52	55	54	44	39	35	30	29	29	28	28	29	33	36	38	41	41	42	41	40	55	28
9	38	42	45	46	48	48	45	40	38	32	30	29	24	22	21	21	22	25	26	27	19	19	18	16	31	48	16
10	14	13	13	14	11	11	14	16	13	9	8	8	7	7	8	10	11	11	12	15	16	17	17	18	12	18	7
11	21	21	24	23	25	26	26	26	25	20	16	15	14	13	15	14	15	17	19	20	19	17	16	16	19	26	13
12	16	16	15	16	16	16	16	16	15	13	11	10	9	8	8	8	9	11	11	12	13	14	15	17	13	17	8
13	20	20	22	19	20	21	22	24	24	23	20	18	18	20	26	30	42	45	45	46	61	87	83	89	35	89	18
14	91	76	87	87	82	83	87	88	90	91	88	88	84	81	88	82	81	84	88	82	77	84	77	71	84	91	71
15	70	83	90	89	94	93	90	90	91	88	84	83	81	90	91	89	86	93	94	95	95	97	97	97	90	97	70
16	97	96	95	94	95	96	96	96	96	84	75	67	61	57	55	54	55	61	64	72	78	75	73	77	78	97	54
17	71	64	65	72	65	63	69	69	62	53	51	48	45	42	45	48	48	54	68	62	57	59	58	56	58	72	42
18	57	62	63	65	64	67	58	54	57	54	50	45	42	39	44	53	54	58	63	60	59	61	66	66	57	67	39
19	81	93	91	89	74	61	65	70	68	68	65	60	56	55	54	54	54	59	63	71	74	32	30	28	63	93	28
20	28	28	24	26	26	25	20	20	24	23	21	19	18	18	18	19	18	18	13	12	10	10	10	9	19	28	9
21	9	8	8	9	10	11	13	13	11	11	11	12	12	13	13	13	13	14	14	14	14	15	14	14	12	15	8
22	15	15	15	15	15	16	16	17	17	16	16	16	17	19	24	29	30	31	35	38	36	37	38	37	23	38	15
23	38	42	44	46	43	46	49	51	42	35	29	27	23	32	31	27	32	35	40	44	44	39	32	24	37	51	23
24	33	35	44	54	54	55	54	59	54	46	40	39	40	46	45	47	52	53	55	58	61	62	67	69	51	69	33
25	69	71	72	78	84	87	71	61	49	41	27	21	20	22	22	21	22	27	25	25	24	28	28	30	43	87	20
26	30	31	32	32	31	31	31	30	30	28	25	23	21	31	25	17	24	27	29	31	36	39	45	48	30	48	17
27	50	50	50	45	44	50	55	51	44	44	48	44	51	74	75	64	55	59	61	71	70	70	71	68	57	75	44
28	67	67	69	72	70	69	69	65	65	56	49	40	35	34	30	34	40	48	55	59	54	49	35	39	53	72	30
29	37	33	26	25	29	29	30	32	31	30	27	25	23	22	21	21	23	24	24	23	22	22	23	23	26	37	21
30	24	25	29	28	29	35	28	29	38	38	36	29	38	32	32	32	31	39	42	67	90	94	94	94	44	94	24
31	94	95	92	89	89	92	93	91	88	88	87	80	74	79	69	68	66	66	65	73	79	79	75	69	81	95	65
Avg	44	45	46	47	46	47	47	47	44	40	37	34	32	34	34	34	35	39	41	44	45	45	45	45	41	--	--
Max	97	96	95	94	95	96	96	96	96	91	88	88	84	90	91	89	86	93	94	95	95	97	97	97	--	97	--
Min	9	8	8	9	10	11	13	13	11	9	8	8	7	7	8	8	9	11	11	12	10	10	10	9	--	--	7

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012	0.012	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.087	0.043	0	0.004	0	0.008	0.142	0.087	0
12	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.004	0	0	0	0	0	0	0	0.012	0	0	0	0	0	0	0	0	0	0.087	0.043	0	0.004	0	0.008	0.158	--	--
Max	0.004	0	0	0	0	0	0	0	0.012	0	0	0	0	0	0	0	0	0	0.087	0.043	0	0.004	0	0.008	--	0.087	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0.032	0.012	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.04	0.096	0.04	0
10	0.165	0.13	0.172	0.115	0.036	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.658	0.172	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.165	0.13	0.204	0.127	0.04	0.044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.04	0.754	--	--
Max	0.165	0.13	0.172	0.115	0.036	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.04	--	0.172	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.016	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.032	0.08	0.075	0.24	0.427	0.24	0
14	0.146	0.016	0.115	0.138	0.047	0.012	0.024	0.008	0	0	0	0.008	0	0.118	0.162	0	0.079	0	0.016	0	0.004	0	0	0	0.893	0.162	0
15	0	0.052	0.064	0.044	0.151	0.052	0.004	0	0	0	0	0.012	0.004	0.063	0.04	0.008	0.008	0.04	0.016	0.056	0.103	0.08	0.012	0.008	0.817	0.151	0
16	0.008	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012	0.008	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0.067	0.224	0.202	0.016	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.513	0.224	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0.047	0.04	0	0	0	0	0	0	0	0	0	0	0.087	0.047	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.036	0.076	0.072	0.004	0.188	0.076	0
31	0	0.008	0	0.004	0	0.04	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064	0.04	0
Total	0.221	0.304	0.381	0.202	0.202	0.104	0.04	0.008	0	0.016	0	0.02	0.051	0.221	0.202	0.008	0.087	0.04	0.032	0.056	0.175	0.236	0.159	0.252	3.017	--	--
Max	0.146	0.224	0.202	0.138	0.151	0.052	0.024	0.008	0	0.016	0	0.012	0.047	0.118	0.162	0.008	0.079	0.04	0.016	0.056	0.103	0.08	0.075	0.24	--	0.24	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	682	682	682	682	682	683	683	683	683	683	683	683	683	682	682	681	681	681	681	681	682	682	682	682	682	683	681
2	682	682	682	682	682	682	682	682	683	683	683	682	682	681	681	681	681	681	681	681	681	681	681	681	682	683	681
3	681	682	682	682	682	682	682	683	684	684	684	684	683	683	683	682	683	683	683	683	683	683	684	684	683	684	681
4	684	684	684	684	684	685	685	685	686	686	686	686	685	684	684	684	684	683	683	684	684	684	684	684	684	686	683
5	684	684	684	684	684	684	685	685	685	685	685	684	684	683	683	682	682	682	682	682	682	682	682	682	683	685	682
6	682	682	682	682	682	682	682	683	683	683	682	682	682	681	681	681	680	680	680	680	681	681	681	681	681	683	680
7	681	681	681	680	681	681	681	682	682	682	682	682	681	681	680	680	680	681	681	681	681	681	681	681	681	682	680
8	682	682	682	681	682	682	682	683	683	683	683	683	682	682	681	681	681	681	681	681	682	682	682	682	682	683	681
9	682	682	682	682	682	683	683	683	683	683	683	683	682	682	681	681	681	681	681	682	682	682	682	682	682	683	681
10	683	683	683	683	683	683	683	684	684	684	683	683	682	681	681	680	680	680	680	680	681	681	681	681	682	684	680
11	681	681	681	681	681	681	681	682	682	682	682	681	681	680	680	680	679	680	680	681	681	681	681	681	681	682	679
12	681	681	682	682	682	683	683	684	684	685	685	685	685	684	684	684	684	684	684	684	684	685	685	685	684	685	681
13	685	685	685	685	685	685	686	686	687	687	687	686	686	685	684	684	684	684	684	684	685	685	685	685	685	687	684
14	685	685	685	684	684	685	685	685	685	685	685	685	685	684	683	683	683	683	683	683	684	684	684	684	684	685	683
15	683	683	683	683	683	683	683	683	684	683	683	683	682	682	681	681	681	681	681	681	681	682	681	681	682	684	681
16	681	681	681	681	681	681	681	681	682	682	681	681	680	680	679	679	679	679	679	679	680	680	680	680	680	682	679
17	680	680	680	680	680	680	681	681	682	682	682	681	681	680	680	680	680	681	681	682	682	682	682	683	681	683	680
18	683	683	683	683	683	684	684	685	685	685	685	685	684	684	683	683	683	683	683	683	683	683	683	683	684	685	683
19	683	683	683	682	682	682	682	683	683	683	683	682	681	680	680	680	680	680	680	680	680	680	681	680	681	683	680
20	680	680	680	680	680	680	680	681	681	681	681	680	680	679	679	679	679	679	679	679	679	679	679	679	680	681	679
21	680	680	680	680	680	680	680	681	681	681	681	681	680	679	679	679	679	679	680	680	680	680	680	680	680	681	679
22	680	680	680	681	681	681	681	682	682	682	682	682	682	681	681	681	681	681	681	681	681	681	681	681	681	682	680
23	681	681	681	681	681	681	681	681	682	682	682	681	681	680	680	680	680	680	680	680	680	680	680	680	681	682	680
24	680	680	680	680	680	680	680	681	681	682	681	681	681	681	680	680	681	681	681	682	682	682	682	682	681	682	680
25	682	682	682	682	683	683	683	684	684	684	684	683	683	682	682	682	682	682	682	682	682	683	683	683	683	684	682
26	683	682	682	682	683	683	683	684	684	684	684	684	683	682	682	682	681	682	682	682	682	682	682	682	683	684	681
27	682	682	681	682	682	682	682	683	683	683	683	683	682	681	681	681	681	681	681	682	682	683	683	682	682	683	681
28	683	683	682	682	683	683	683	683	684	684	684	684	683	683	682	682	682	683	683	683	684	684	684	684	683	684	682
29	684	684	684	684	684	685	685	685	686	686	686	686	685	685	684	684	684	684	684	685	685	685	685	685	685	686	684
30	684	685	684	684	684	684	685	685	685	685	685	685	684	683	683	683	683	683	683	683	683	683	683	683	684	685	683
31	683	684	683	683	683	683	684	684	684	684	684	684	683	683	682	682	682	682	683	683	683	683	683	683	683	684	682
Avg	682	682	682	682	682	682	683	683	683	683	683	683	682	682	682	681	681	681	682	682	682	682	682	682	682	--	--
Max	685	685	685	685	685	685	686	686	687	687	687	686	686	685	684	684	684	684	684	685	685	685	685	685	--	687	--
Min	680	680	680	680	680	680	680	681	681	681	681	680	680	679	679	679	679	679	679	679	679	679	679	679	--	--	679

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	683	683	683	683	683	683	683	683	683	683	683	683	682	682	681	681	681	681	681	681	681	681	682	682	682	683	681
2	682	682	682	681	681	681	682	682	683	683	683	682	682	681	681	681	681	681	681	681	682	682	682	682	682	683	681
3	682	682	683	683	683	683	683	684	684	685	684	684	684	683	683	683	683	683	684	684	684	684	684	685	684	685	682
4	685	685	685	685	685	685	685	685	686	686	686	686	685	685	684	684	684	685	685	685	685	686	686	686	685	686	684
5	686	685	685	685	685	685	686	686	686	686	686	686	685	685	684	684	684	684	685	685	685	685	685	685	685	686	684
6	685	685	685	685	685	685	685	686	686	686	686	686	685	684	684	684	684	684	684	684	684	684	685	685	685	686	684
7	685	685	684	684	684	684	684	685	685	685	685	684	683	682	682	682	682	682	682	682	682	682	682	682	683	685	682
8	682	682	681	681	681	681	681	682	682	682	682	682	681	681	681	681	681	681	681	681	681	681	681	681	681	682	681
9	681	680	680	680	680	680	680	680	681	680	680	680	679	678	678	678	677	677	678	678	678	678	678	678	679	681	677
10	678	678	679	679	680	680	680	681	682	682	682	682	681	681	681	681	681	681	681	682	682	683	683	683	681	683	678
11	684	684	684	685	685	685	686	687	687	688	688	688	688	687	687	687	687	688	688	689	689	690	689	689	687	690	684
12	689	688	686	686	686	687	687	688	688	688	688	687	686	686	686	685	685	686	686	686	686	686	686	686	687	689	685
13	686	686	686	686	686	686	686	686	686	686	686	686	685	685	684	684	684	684	685	685	685	685	685	685	685	686	684
14	685	685	685	685	685	685	685	685	686	686	686	686	685	684	684	684	684	684	684	684	684	685	685	684	685	686	684
15	684	684	684	684	684	684	684	685	686	686	686	686	685	685	685	684	685	685	685	685	685	685	685	685	685	686	684
16	685	684	684	684	684	684	684	685	685	686	686	686	685	685	684	684	684	684	685	685	685	685	685	685	685	686	684
17	685	685	685	684	684	684	685	685	685	686	686	685	685	684	684	684	684	684	684	684	684	684	685	685	685	686	684
18	685	685	685	684	684	684	685	685	685	686	686	685	685	684	684	684	684	685	685	685	685	685	686	686	685	686	684
19	686	686	686	686	686	686	687	687	688	688	688	688	687	687	686	686	686	687	687	687	687	687	687	687	687	688	686
20	687	687	687	686	686	686	686	687	687	687	687	686	685	684	684	684	684	684	684	684	684	684	684	684	685	687	684
21	684	684	684	683	683	683	684	684	684	685	685	684	683	683	683	683	683	683	683	683	683	683	684	684	684	685	683
22	684	684	684	684	684	684	684	685	685	686	686	685	685	684	684	684	684	685	685	685	686	686	686	686	685	686	684
23	686	686	686	686	686	686	687	687	688	688	688	688	687	687	686	686	686	686	686	687	687	687	687	687	687	688	686
24	687	687	687	687	686	686	686	686	687	687	686	686	685	684	684	683	683	683	683	683	683	683	683	683	685	687	683
25	682	682	682	682	682	682	682	682	683	683	683	682	681	681	680	680	680	680	680	681	681	681	682	682	681	683	680
26	682	682	682	682	682	682	683	684	684	685	685	684	684	683	683	683	684	684	684	685	685	685	686	686	684	686	682
27	686	686	686	686	686	686	686	687	687	688	688	687	687	686	685	685	685	685	685	685	685	686	686	686	686	688	685
28	686	686	686	686	686	686	686	686	687	687	687	687	686	685	685	685	685	685	686	686	686	686	686	686	686	687	685
29	686	686	686	686	686	686	686	687	687	687	688	687	687	686	686	686	686	686	686	686	686	686	686	686	686	688	686
30	686	686	686	686	685	686	686	686	687	687	687	686	686	685	684	684	684	685	685	685	685	685	685	685	685	687	684
Avg	684	684	684	684	684	684	685	685	685	685	685	685	684	684	684	684	684	684	684	684	684	684	684	684	684	--	--
Max	689	688	687	687	686	687	687	688	688	688	688	688	688	687	687	687	687	688	688	689	689	690	689	689	--	690	--
Min	678	678	679	679	680	680	680	680	681	680	680	680	679	678	678	678	677	677	678	678	678	678	678	678	--	--	677

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	685	685	685	685	685	685	685	685	686	686	686	685	685	684	684	684	684	684	684	684	684	684	684	684	685	686	684
2	684	684	684	684	684	684	685	685	685	685	685	685	684	684	684	683	684	684	684	684	684	684	684	684	684	685	683
3	684	684	684	684	684	685	685	685	685	686	686	686	685	685	685	685	685	685	685	686	686	686	687	687	685	687	684
4	687	687	687	687	687	687	688	688	688	689	689	688	687	687	686	686	686	687	687	687	687	687	687	687	687	689	686
5	686	686	686	686	686	686	686	686	686	686	686	685	684	684	683	683	683	683	683	683	683	683	683	683	684	686	683
6	682	682	682	682	681	681	681	681	681	682	682	681	681	680	679	679	679	679	680	680	680	680	680	680	681	682	679
7	680	680	680	680	680	680	681	681	681	682	682	681	681	680	680	680	680	680	681	681	681	681	681	681	681	682	680
8	681	681	681	681	681	681	681	681	682	682	682	682	681	680	680	680	680	681	681	681	681	681	681	681	681	682	680
9	681	681	681	681	681	681	682	682	682	683	683	683	682	682	682	682	682	683	683	683	684	684	684	685	682	685	681
10	685	685	685	685	685	685	685	685	685	686	685	685	684	683	683	683	683	683	683	683	683	683	683	683	684	686	683
11	683	683	683	683	683	683	683	683	684	684	684	684	683	683	682	682	682	682	683	683	683	683	683	683	683	684	682
12	683	683	683	682	682	682	683	683	683	684	684	683	683	682	682	681	681	681	681	681	681	681	681	681	682	684	681
13	682	681	681	681	681	681	681	681	681	681	682	681	680	680	680	679	679	678	678	677	677	678	676	676	680	682	676
14	676	675	676	677	676	676	677	678	679	680	681	681	681	681	681	681	682	682	682	683	683	683	683	682	680	683	675
15	682	682	682	682	682	682	682	682	683	683	683	682	682	681	681	681	680	681	681	681	681	682	682	682	682	683	680
16	682	682	683	683	683	683	683	683	684	685	685	685	685	685	684	684	684	685	685	685	686	686	686	686	684	686	682
17	686	685	686	686	685	685	686	686	686	686	686	686	685	684	684	684	684	683	683	683	683	683	683	682	685	686	682
18	682	681	681	681	681	681	681	681	681	681	681	680	679	678	677	678	677	677	677	677	677	677	677	676	679	682	676
19	676	677	677	678	679	679	680	682	683	684	685	685	685	685	685	685	686	686	687	688	688	689	689	689	684	689	676
20	689	689	689	689	689	689	689	689	689	689	689	689	688	688	687	687	687	686	686	686	686	686	686	686	688	689	686
21	686	685	685	685	685	685	685	685	686	686	686	685	685	684	684	684	684	684	685	685	685	685	685	685	685	686	684
22	684	684	684	684	684	684	684	684	685	685	686	685	685	684	684	684	684	684	685	685	685	685	685	685	685	686	684
23	685	685	685	685	685	684	685	685	685	686	686	686	685	684	684	683	683	683	683	684	684	684	683	683	684	686	683
24	683	683	683	682	682	682	682	683	683	683	683	683	682	681	681	680	680	680	680	680	680	681	681	681	682	683	680
25	681	681	682	682	682	682	682	683	683	684	685	685	684	683	683	683	683	683	683	683	682	682	682	682	683	685	681
26	682	682	681	681	680	680	680	680	680	681	681	680	680	679	679	679	679	679	679	679	679	680	680	680	680	682	679
27	680	680	680	679	679	679	679	679	679	680	680	680	679	680	679	679	680	680	681	681	681	682	682	683	680	683	679
28	683	683	683	683	683	683	684	684	685	685	685	685	685	684	684	684	684	685	685	685	685	685	685	685	684	685	683
29	685	685	684	684	684	683	684	684	684	685	685	684	683	682	682	682	682	681	681	681	681	681	681	681	683	685	681
30	681	681	680	680	680	680	679	679	680	680	680	679	679	679	678	678	678	678	679	680	680	680	681	681	680	681	678
31	681	681	681	681	681	682	682	683	683	684	685	685	684	684	684	684	685	685	685	686	686	686	686	686	684	686	681
Avg	683	683	683	683	683	683	683	683	684	684	684	684	683	683	682	682	682	682	683	683	683	683	683	683	683	--	--
Max	689	689	689	689	689	689	689	689	689	689	689	689	688	688	687	687	687	687	687	688	688	689	689	689	--	689	--
Min	676	675	676	677	676	676	677	678	679	680	680	679	679	678	677	678	677	677	677	677	677	677	676	676	--	--	675

Appendix D: PM_{10} and $PM_{2.5}$ Data – Hourly

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	17.0	8.0	9.0	11.0	12.0	27.0	34.0	19.0	24.0	25.0	36.0	128.0	23.0	15.0	30.0	44.0	19.0	22.0	20.0	12.0	15.0	15.0	14.0	17.0	24.8	128.0	8.0
2	8.0	9.0	9.0	11.0	12.0	11.0	24.0	24.0	47.0	59.0	37.0	12.0	27.0	48.0	25.0	30.0	21.0	9.0	11.0	34.0	12.0	15.0	19.0	12.0	21.9	59.0	8.0
3	18.0	18.0	14.0	19.0	19.0	17.0	18.0	56.0	34.0	47.0	26.0	40.0	28.0	31.0	37.0	31.0	22.0	19.0	18.0	18.0	23.0	13.0	18.0	20.0	25.2	56.0	13.0
4	22.0	17.0	18.0	24.0	22.0	16.0	33.0	30.0	39.0	42.0	44.0	33.0	17.0	56.0	18.0	38.0	39.0	43.0	34.0	30.0	21.0	33.0	26.0	27.0	30.1	56.0	16.0
5	27.0	25.0	26.0	19.0	16.0	16.0	18.0	42.0	22.0	22.0	50.0	20.0	21.0	38.0	17.0	16.0	19.0	17.0	23.0	12.0	17.0	17.0	17.0	15.0	22.2	50.0	12.0
6	12.0	10.0	16.0	8.0	11.0	200.0	22.0	20.0	31.0	22.0	26.0	26.0	31.0	17.0	23.0	18.0	26.0	16.0	30.0	26.0	19.0	12.0	13.0	17.0	27.2	200.0	8.0
7	20.0	19.0	21.0	10.0	15.0	16.0	21.0	19.0	29.0	19.0	22.0	15.0	19.0	23.0	39.0	17.0	9.0	17.0	19.0	15.0	17.0	11.0	13.0	14.0	18.3	39.0	9.0
8	13.0	13.0	19.0	13.0	18.0	12.0	17.0	55.0	31.0	22.0	26.0	37.0	21.0	17.0	17.0	31.0	27.0	24.0	37.0	24.0	23.0	21.0	21.0	22.0	23.4	55.0	12.0
9	18.0	17.0	17.0	15.0	19.0	17.0	18.0	38.0	34.0	18.0	--	--	17.0	24.0	47.0	27.0	23.0	24.0	23.0	22.0	21.0	22.0	17.0	19.0	22.6	47.0	15.0
10	19.0	22.0	21.0	21.0	19.0	19.0	22.0	54.0	79.0	27.0	33.0	27.0	31.0	17.0	20.0	16.0	24.0	13.0	25.0	17.0	25.0	23.0	27.0	22.0	26.0	79.0	13.0
11	23.0	22.0	21.0	21.0	24.0	23.0	36.0	39.0	27.0	25.0	21.0	32.0	30.0	29.0	25.0	14.0	16.0	24.0	20.0	22.0	41.0	31.0	22.0	26.0	25.6	41.0	14.0
12	17.0	13.0	11.0	11.0	17.0	11.0	13.0	13.0	12.0	13.0	16.0	17.0	22.0	24.0	26.0	19.0	20.0	12.0	16.0	12.0	12.0	11.0	7.0	6.0	14.6	26.0	6.0
13	9.0	7.0	5.0	5.0	5.0	6.0	8.0	8.0	8.0	6.0	5.0	7.0	9.0	9.0	9.0	9.0	8.0	8.0	9.0	10.0	12.0	27.0	7.0	6.0	8.4	27.0	5.0
14	2.0	2.0	4.0	17.0	8.0	10.0	16.0	25.0	31.0	22.0	30.0	13.0	12.0	13.0	17.0	10.0	11.0	12.0	24.0	12.0	13.0	10.0	7.0	10.0	13.8	31.0	2.0
15	24.0	8.0	9.0	9.0	11.0	14.0	17.0	16.0	21.0	21.0	24.0	15.0	8.0	16.0	22.0	16.0	12.0	12.0	12.0	18.0	16.0	12.0	12.0	11.0	14.8	24.0	8.0
16	9.0	8.0	9.0	12.0	8.0	4.0	9.0	19.0	21.0	16.0	26.0	31.0	23.0	31.0	24.0	23.0	17.0	17.0	26.0	19.0	19.0	8.0	8.0	19.0	16.9	31.0	4.0
17	9.0	23.0	7.0	8.0	11.0	19.0	7.0	29.0	32.0	22.0	22.0	32.0	29.0	29.0	33.0	30.0	26.0	16.0	13.0	17.0	22.0	18.0	17.0	15.0	20.3	33.0	7.0
18	19.0	11.0	13.0	13.0	17.0	14.0	21.0	40.0	30.0	17.0	24.0	26.0	28.0	29.0	28.0	28.0	25.0	32.0	30.0	31.0	29.0	28.0	24.0	23.0	24.2	40.0	11.0
19	20.0	20.0	20.0	21.0	18.0	22.0	15.0	18.0	23.0	17.0	12.0	12.0	27.0	51.0	24.0	39.0	42.0	32.0	27.0	27.0	25.0	24.0	24.0	16.0	24.0	51.0	12.0
20	16.0	18.0	15.0	13.0	10.0	10.0	17.0	16.0	30.0	22.0	24.0	40.0	33.0	22.0	71.0	28.0	30.0	24.0	22.0	20.0	21.0	18.0	16.0	25.0	23.4	71.0	10.0
21	17.0	15.0	14.0	12.0	10.0	7.0	8.0	16.0	13.0	13.0	11.0	10.0	8.0	16.0	17.0	19.0	24.0	31.0	15.0	16.0	10.0	9.0	8.0	11.0	13.8	31.0	7.0
22	12.0	11.0	12.0	14.0	16.0	13.0	13.0	18.0	16.0	10.0	25.0	36.0	26.0	19.0	12.0	13.0	22.0	25.0	31.0	22.0	19.0	11.0	17.0	11.0	17.7	36.0	10.0
23	13.0	16.0	19.0	15.0	21.0	13.0	20.0	42.0	26.0	27.0	19.0	16.0	23.0	21.0	24.0	28.0	21.0	16.0	20.0	25.0	15.0	16.0	19.0	17.0	20.5	42.0	13.0
24	18.0	15.0	14.0	16.0	13.0	19.0	14.0	84.0	38.0	24.0	30.0	33.0	22.0	47.0	86.0	64.0	43.0	32.0	36.0	25.0	28.0	25.0	29.0	27.0	32.6	86.0	13.0
25	17.0	18.0	19.0	36.0	19.0	20.0	31.0	27.0	15.0	13.0	17.0	14.0	13.0	13.0	27.0	21.0	8.0	11.0	20.0	19.0	15.0	17.0	13.0	17.0	18.3	36.0	8.0
26	21.0	95.0	117.0	71.0	13.0	48.0	90.0	114.0	54.0	24.0	33.0	13.0	13.0	28.0	--	26.0	9.0	16.0	9.0	7.0	7.0	11.0	23.0	28.0	37.8	117.0	7.0
27	26.0	36.0	39.0	44.0	32.0	46.0	37.0	38.0	42.0	31.0	40.0	35.0	34.0	46.0	67.0	55.0	52.0	32.0	27.0	28.0	23.0	19.0	20.0	21.0	36.3	67.0	19.0
28	23.0	20.0	25.0	24.0	21.0	22.0	26.0	30.0	29.0	38.0	31.0	41.0	24.0	16.0	26.0	18.0	12.0	19.0	29.0	15.0	14.0	17.0	11.0	13.0	22.7	41.0	11.0
29	11.0	7.0	6.0	6.0	6.0	17.0	16.0	35.0	28.0	12.0	30.0	40.0	53.0	23.0	23.0	27.0	22.0	17.0	25.0	20.0	18.0	29.0	16.0	11.0	20.8	53.0	6.0
30	10.0	7.0	6.0	8.0	8.0	9.0	27.0	18.0	18.0	21.0	29.0	27.0	30.0	25.0	32.0	31.0	28.0	21.0	23.0	22.0	19.0	23.0	22.0	14.0	19.9	32.0	6.0
31	13.0	9.0	6.0	7.0	9.0	18.0	21.0	14.0	22.0	21.0	24.0	20.0	17.0	18.0	32.0	24.0	22.0	15.0	22.0	20.0	17.0	13.0	10.0	10.0	16.8	32.0	6.0
Avg	16.2	17.4	18.1	17.2	14.8	23.1	22.2	32.8	29.2	23.2	26.4	28.3	23.2	26.2	29.9	26.1	22.5	20.3	22.5	19.9	19.0	18.0	16.7	16.8	22.1	--	--
Max	27.0	95.0	117.0	71.0	32.0	200.0	90.0	114.0	79.0	59.0	50.0	128.0	53.0	56.0	86.0	64.0	52.0	43.0	37.0	34.0	41.0	33.0	29.0	28.0	--	200.0	--
Min	2.0	2.0	4.0	5.0	5.0	4.0	7.0	8.0	8.0	6.0	5.0	7.0	8.0	9.0	9.0	9.0	8.0	8.0	9.0	7.0	7.0	8.0	7.0	6.0	--	--	2.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8.0	7.0	9.0	9.0	8.0	9.0	11.0	16.0	25.0	8.0	10.0	26.0	22.0	17.0	15.0	26.0	18.0	10.0	16.0	14.0	14.0	13.0	13.0	14.0	14.1	26.0	7.0
2	12.0	12.0	11.0	9.0	10.0	12.0	13.0	31.0	29.0	14.0	23.0	40.0	19.0	16.0	21.0	21.0	22.0	20.0	17.0	21.0	16.0	16.0	13.0	12.0	17.9	40.0	9.0
3	11.0	16.0	16.0	15.0	15.0	17.0	17.0	18.0	19.0	14.0	18.0	29.0	17.0	23.0	20.0	22.0	22.0	23.0	26.0	19.0	17.0	19.0	21.0	12.0	18.6	29.0	11.0
4	12.0	--	13.0	13.0	18.0	13.0	13.0	14.0	30.0	17.0	19.0	18.0	18.0	12.0	22.0	23.0	20.0	23.0	16.0	22.0	25.0	6.0	8.0	17.0	17.0	30.0	6.0
5	38.0	26.0	22.0	16.0	17.0	30.0	32.0	18.0	13.0	14.0	17.0	16.0	21.0	16.0	31.0	22.0	19.0	25.0	21.0	22.0	13.0	9.0	8.0	8.0	19.8	38.0	8.0
6	9.0	11.0	8.0	6.0	5.0	7.0	11.0	12.0	12.0	33.0	17.0	21.0	23.0	28.0	21.0	16.0	13.0	13.0	20.0	17.0	16.0	8.0	5.0	6.0	14.1	33.0	5.0
7	7.0	6.0	8.0	8.0	8.0	7.0	20.0	18.0	22.0	23.0	21.0	17.0	23.0	20.0	13.0	20.0	12.0	21.0	15.0	13.0	20.0	18.0	20.0	13.0	15.5	23.0	6.0
8	16.0	12.0	17.0	16.0	21.0	20.0	23.0	18.0	20.0	23.0	29.0	23.0	22.0	30.0	31.0	27.0	267.0	31.0	18.0	20.0	30.0	23.0	22.0	24.0	32.6	267.0	12.0
9	18.0	12.0	9.0	6.0	7.0	7.0	7.0	8.0	7.0	10.0	34.0	18.0	--	210.0	91.0	201.0	324.0	247.0	143.0	51.0	67.0	30.0	16.0	10.0	66.7	324.0	6.0
10	5.0	2.0	3.0	6.0	9.0	12.0	13.0	20.0	27.0	22.0	17.0	20.0	20.0	12.0	12.0	12.0	17.0	19.0	25.0	28.0	17.0	8.0	10.0	12.0	14.5	28.0	2.0
11	11.0	8.0	4.0	6.0	7.0	7.0	8.0	9.0	9.0	9.0	6.0	3.0	6.0	10.0	10.0	9.0	11.0	17.0	13.0	13.0	10.0	7.0	10.0	45.0	10.3	45.0	3.0
12	10.0	12.0	25.0	19.0	32.0	21.0	41.0	25.0	23.0	22.0	23.0	20.0	36.0	22.0	22.0	15.0	11.0	10.0	9.0	11.0	16.0	13.0	14.0	18.0	19.6	41.0	9.0
13	13.0	13.0	16.0	19.0	15.0	33.0	36.0	24.0	18.0	19.0	19.0	26.0	20.0	31.0	22.0	21.0	16.0	9.0	17.0	12.0	13.0	14.0	19.0	16.0	19.2	36.0	9.0
14	17.0	14.0	13.0	22.0	12.0	17.0	35.0	23.0	22.0	27.0	27.0	27.0	23.0	34.0	13.0	23.0	25.0	17.0	15.0	7.0	8.0	11.0	12.0	10.0	18.9	35.0	7.0
15	9.0	10.0	9.0	8.0	9.0	11.0	20.0	19.0	23.0	23.0	30.0	21.0	32.0	--	29.0	31.0	33.0	22.0	28.0	20.0	14.0	20.0	14.0	16.0	19.6	33.0	8.0
16	21.0	17.0	17.0	14.0	21.0	18.0	22.0	21.0	18.0	22.0	21.0	24.0	27.0	25.0	26.0	30.0	20.0	22.0	24.0	26.0	23.0	21.0	15.0	15.0	21.2	30.0	14.0
17	14.0	13.0	16.0	12.0	9.0	7.0	19.0	19.0	20.0	21.0	25.0	21.0	19.0	6.0	7.0	11.0	20.0	17.0	29.0	29.0	29.0	22.0	17.0	17.0	17.5	29.0	6.0
18	13.0	11.0	10.0	9.0	10.0	11.0	15.0	16.0	13.0	13.0	11.0	8.0	5.0	4.0	9.0	9.0	7.0	7.0	9.0	12.0	11.0	10.0	13.0	10.0	10.2	16.0	4.0
19	6.0	5.0	6.0	3.0	4.0	10.0	13.0	17.0	12.0	9.0	7.0	6.0	9.0	11.0	23.0	13.0	29.0	15.0	9.0	9.0	9.0	6.0	2.0	3.0	9.8	29.0	2.0
20	4.0	3.0	5.0	5.0	7.0	10.0	12.0	12.0	18.0	11.0	12.0	18.0	11.0	8.0	10.0	14.0	10.0	6.0	6.0	10.0	10.0	6.0	4.0	4.0	9.0	18.0	3.0
21	5.0	9.0	10.0	9.0	7.0	10.0	11.0	17.0	21.0	14.0	16.0	23.0	15.0	19.0	25.0	27.0	17.0	25.0	22.0	20.0	22.0	20.0	13.0	18.0	16.5	27.0	5.0
22	9.0	9.0	9.0	10.0	10.0	8.0	9.0	12.0	13.0	11.0	12.0	9.0	6.0	11.0	12.0	16.0	22.0	17.0	20.0	19.0	16.0	12.0	9.0	8.0	12.0	22.0	6.0
23	7.0	6.0	7.0	6.0	4.0	6.0	9.0	9.0	7.0	8.0	13.0	17.0	17.0	23.0	13.0	16.0	26.0	17.0	23.0	17.0	26.0	31.0	39.0	38.0	16.0	39.0	4.0
24	44.0	35.0	36.0	32.0	42.0	37.0	31.0	28.0	27.0	34.0	27.0	21.0	27.0	28.0	22.0	29.0	28.0	21.0	15.0	11.0	16.0	12.0	12.0	12.0	26.1	44.0	11.0
25	9.0	8.0	11.0	16.0	17.0	20.0	13.0	12.0	12.0	16.0	17.0	14.0	14.0	26.0	12.0	16.0	26.0	30.0	26.0	24.0	17.0	19.0	21.0	19.0	17.3	30.0	8.0
26	19.0	17.0	22.0	21.0	16.0	22.0	15.0	26.0	36.0	30.0	34.0	38.0	24.0	23.0	18.0	22.0	20.0	27.0	22.0	19.0	21.0	17.0	12.0	12.0	22.2	38.0	12.0
27	11.0	10.0	11.0	10.0	12.0	14.0	17.0	16.0	20.0	23.0	23.0	27.0	29.0	28.0	36.0	29.0	33.0	35.0	29.0	22.0	19.0	27.0	28.0	32.0	22.5	36.0	10.0
28	29.0	30.0	29.0	29.0	29.0	30.0	29.0	32.0	34.0	39.0	33.0	28.0	26.0	17.0	23.0	25.0	29.0	34.0	31.0	19.0	24.0	18.0	23.0	17.0	27.4	39.0	17.0
29	12.0	17.0	24.0	15.0	23.0	21.0	22.0	26.0	36.0	33.0	26.0	24.0	20.0	21.0	20.0	28.0	17.0	20.0	18.0	28.0	29.0	28.0	20.0	28.0	23.2	36.0	12.0
30	16.0	16.0	17.0	8.0	6.0	10.0	12.0	15.0	20.0	29.0	10.0	8.0	9.0	--	23.0	17.0	17.0	10.0	12.0	18.0	15.0	11.0	12.0	12.0	14.0	29.0	6.0
Avg	13.8	12.7	13.8	12.6	13.7	15.2	18.3	18.4	20.2	19.7	19.9	20.4	19.3	26.1	21.7	26.4	38.4	27.0	23.1	19.1	19.4	15.8	14.8	15.9	19.5	--	--
Max	44.0	35.0	36.0	32.0	42.0	37.0	41.0	32.0	36.0	39.0	34.0	40.0	36.0	210.0	91.0	201.0	324.0	247.0	143.0	51.0	67.0	31.0	39.0	45.0	--	324.0	--
Min	4.0	2.0	3.0	3.0	4.0	6.0	7.0	8.0	7.0	8.0	6.0	3.0	5.0	4.0	7.0	9.0	7.0	6.0	6.0	7.0	8.0	6.0	2.0	3.0	--	--	2.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8.0	5.0	6.0	9.0	8.0	5.0	11.0	14.0	12.0	11.0	14.0	12.0	11.0	11.0	26.0	25.0	16.0	31.0	30.0	29.0	32.0	30.0	13.0	15.0	16.0	32.0	5.0
2	11.0	9.0	10.0	12.0	15.0	13.0	12.0	10.0	17.0	18.0	11.0	25.0	10.0	10.0	12.0	14.0	20.0	18.0	25.0	20.0	16.0	8.0	11.0	9.0	14.0	25.0	8.0
3	4.0	6.0	9.0	10.0	11.0	13.0	9.0	9.0	24.0	28.0	18.0	24.0	27.0	25.0	32.0	20.0	18.0	18.0	19.0	13.0	17.0	13.0	12.0	10.0	16.2	32.0	4.0
4	8.0	9.0	9.0	9.0	20.0	15.0	7.0	27.0	26.0	20.0	15.0	19.0	15.0	15.0	21.0	21.0	36.0	13.0	12.0	10.0	7.0	8.0	15.0	11.0	15.3	36.0	7.0
5	10.0	11.0	11.0	10.0	11.0	24.0	22.0	13.0	17.0	18.0	19.0	19.0	23.0	13.0	11.0	20.0	21.0	11.0	22.0	16.0	14.0	12.0	9.0	6.0	15.1	24.0	6.0
6	5.0	3.0	3.0	6.0	6.0	6.0	10.0	11.0	31.0	23.0	19.0	17.0	29.0	--	19.0	25.0	28.0	23.0	21.0	27.0	31.0	29.0	24.0	29.0	18.5	31.0	3.0
7	22.0	23.0	23.0	19.0	21.0	21.0	19.0	17.0	19.0	33.0	16.0	17.0	23.0	24.0	27.0	25.0	21.0	15.0	20.0	22.0	17.0	13.0	13.0	20.0	20.4	33.0	13.0
8	14.0	15.0	19.0	25.0	20.0	20.0	24.0	24.0	23.0	22.0	20.0	17.0	6.0	18.0	13.0	13.0	13.0	13.0	21.0	12.0	19.0	15.0	14.0	14.0	17.2	25.0	6.0
9	12.0	8.0	9.0	12.0	17.0	11.0	12.0	12.0	19.0	19.0	21.0	15.0	21.0	19.0	21.0	21.0	13.0	15.0	22.0	30.0	125.0	77.0	62.0	60.0	27.2	125.0	8.0
10	34.0	24.0	18.0	19.0	22.0	50.0	21.0	18.0	21.0	7.0	9.0	9.0	9.0	8.0	6.0	7.0	10.0	13.0	17.0	17.0	20.0	7.0	6.0	6.0	15.8	50.0	6.0
11	3.0	1.0	3.0	3.0	3.0	8.0	9.0	4.0	4.0	7.0	16.0	12.0	13.0	14.0	13.0	15.0	31.0	5.0	15.0	18.0	9.0	8.0	5.0	3.0	9.3	31.0	1.0
12	2.0	3.0	6.0	6.0	6.0	9.0	12.0	20.0	22.0	14.0	13.0	10.0	9.0	10.0	9.0	24.0	15.0	5.0	15.0	14.0	12.0	10.0	10.0	8.0	11.0	24.0	2.0
13	7.0	10.0	10.0	8.0	7.0	8.0	16.0	10.0	27.0	13.0	16.0	24.0	18.0	47.0	104.0	106.0	53.0	21.0	19.0	21.0	17.0	9.0	5.0	1.0	24.0	106.0	1.0
14	3.0	6.0	5.0	6.0	3.0	1.0	3.0	3.0	0.0	1.0	3.0	3.0	3.0	3.0	3.0	1.0	1.0	4.0	3.0	0.0	3.0	2.0	3.0	7.0	2.9	7.0	0.0
15	6.0	5.0	4.0	2.0	2.0	0.0	3.0	4.0	2.0	3.0	1.0	1.0	3.0	5.0	2.0	-1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	2.0	2.0	6.0	-1.0
16	1.0	0.0	-1.0	2.0	4.0	2.0	2.0	5.0	6.0	4.0	5.0	3.0	5.0	7.0	3.0	5.0	9.0	7.0	6.0	7.0	7.0	8.0	7.0	6.0	4.6	9.0	-1.0
17	7.0	6.0	6.0	6.0	4.0	6.0	4.0	1.0	6.0	10.0	10.0	9.0	8.0	9.0	12.0	18.0	24.0	51.0	16.0	19.0	5.0	6.0	8.0	7.0	10.7	51.0	1.0
18	2.0	3.0	5.0	4.0	4.0	4.0	5.0	7.0	6.0	20.0	21.0	18.0	16.0	41.0	34.0	42.0	54.0	17.0	10.0	7.0	5.0	4.0	4.0	4.0	14.0	54.0	2.0
19	3.0	2.0	2.0	2.0	7.0	9.0	19.0	17.0	17.0	13.0	17.0	11.0	10.0	10.0	12.0	22.0	17.0	11.0	11.0	12.0	13.0	10.0	6.0	6.0	10.8	22.0	2.0
20	6.0	5.0	3.0	3.0	4.0	2.0	37.0	16.0	44.0	16.0	9.0	22.0	46.0	70.0	115.0	71.0	59.0	47.0	13.0	22.0	16.0	18.0	14.0	14.0	28.0	115.0	2.0
21	14.0	13.0	11.0	9.0	6.0	7.0	20.0	10.0	26.0	24.0	--	67.0	10.0	12.0	20.0	19.0	18.0	13.0	13.0	10.0	10.0	12.0	9.0	9.0	15.7	67.0	6.0
22	11.0	15.0	7.0	10.0	11.0	10.0	11.0	16.0	15.0	12.0	12.0	9.0	10.0	12.0	12.0	14.0	12.0	10.0	9.0	7.0	6.0	8.0	9.0	6.0	10.6	16.0	6.0
23	4.0	6.0	8.0	9.0	8.0	9.0	8.0	6.0	8.0	9.0	8.0	8.0	7.0	8.0	10.0	8.0	15.0	11.0	12.0	9.0	4.0	4.0	6.0	6.0	8.0	15.0	4.0
24	5.0	6.0	10.0	11.0	16.0	15.0	14.0	11.0	11.0	13.0	17.0	12.0	8.0	7.0	10.0	9.0	10.0	11.0	17.0	13.0	14.0	12.0	16.0	10.0	11.6	17.0	5.0
25	12.0	13.0	12.0	12.0	21.0	5.0	3.0	3.0	5.0	4.0	6.0	7.0	5.0	6.0	7.0	6.0	6.0	7.0	5.0	2.0	2.0	4.0	6.0	5.0	6.8	21.0	2.0
26	3.0	5.0	4.0	3.0	3.0	4.0	6.0	7.0	28.0	9.0	9.0	8.0	6.0	7.0	8.0	7.0	9.0	10.0	10.0	10.0	11.0	11.0	9.0	10.0	8.2	28.0	3.0
27	11.0	9.0	8.0	8.0	5.0	4.0	8.0	9.0	7.0	26.0	11.0	17.0	14.0	17.0	6.0	7.0	7.0	6.0	9.0	12.0	12.0	11.0	9.0	8.0	10.0	26.0	4.0
28	11.0	13.0	12.0	8.0	8.0	10.0	10.0	10.0	11.0	12.0	9.0	6.0	8.0	10.0	7.0	5.0	7.0	9.0	10.0	10.0	3.0	0.0	5.0	4.0	8.2	13.0	0.0
29	3.0	4.0	3.0	6.0	6.0	5.0	4.0	3.0	6.0	6.0	1.0	2.0	7.0	7.0	6.0	3.0	4.0	8.0	7.0	4.0	5.0	7.0	17.0	8.0	5.5	17.0	1.0
30	9.0	6.0	4.0	7.0	8.0	--	3.0	4.0	5.0	7.0	11.0	10.0	16.0	12.0	16.0	8.0	7.0	8.0	--	17.0	4.0	6.0	7.0	5.0	8.2	17.0	3.0
31	2.0	2.0	6.0	6.0	3.0	4.0	3.0	4.0	3.0	1.0	5.0	8.0	8.0	9.0	10.0	10.0	10.0	9.0	9.0	11.0	10.0	9.0	9.0	9.0	6.7	11.0	1.0
Avg	8.2	7.9	7.9	8.5	9.4	10.0	11.2	10.5	15.1	13.6	12.1	14.2	13.0	15.5	19.6	19.0	18.2	14.2	14.0	13.6	15.1	12.0	11.1	10.3	12.7	--	--
Max	34.0	24.0	23.0	25.0	22.0	50.0	37.0	27.0	44.0	33.0	21.0	67.0	46.0	70.0	115.0	106.0	59.0	51.0	30.0	30.0	125.0	77.0	62.0	60.0	--	125.0	--
Min	1.0	0.0	-1.0	2.0	2.0	0.0	2.0	1.0	0.0	1.0	1.0	1.0	3.0	3.0	2.0	-1.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM2.5_µg/m^3 Actual"

Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.0	4.0	4.0	4.0	6.0	7.0	6.0	3.0	3.0	4.0	6.0	7.0	6.0	3.0	1.0	3.0	6.0	3.0	2.0	3.0	3.0	6.0	5.0	4.0	4.3	7.0	1.0
2	4.0	5.0	5.0	4.0	3.0	2.0	2.0	5.0	7.0	8.0	7.0	6.0	5.0	5.0	6.0	5.0	5.0	4.0	6.0	7.0	6.0	5.0	6.0	7.0	5.2	8.0	2.0
3	6.0	7.0	8.0	9.0	8.0	8.0	7.0	7.0	8.0	8.0	6.0	6.0	6.0	5.0	7.0	8.0	7.0	3.0	4.0	6.0	6.0	6.0	6.0	6.0	6.6	9.0	3.0
4	7.0	6.0	5.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	7.0	9.0	7.0	6.0	6.0	6.0	8.0	6.0	4.0	7.0	7.0	5.0	5.0	4.0	6.0	9.0	4.0
5	6.0	6.0	5.0	6.0	5.0	5.0	5.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	3.0	3.0	4.0	3.0	5.0	5.0	2.0	3.0	6.0	5.0	5.1	7.0	2.0
6	5.0	5.0	4.0	4.0	4.0	3.0	3.0	4.0	6.0	7.0	6.0	7.0	4.0	2.0	5.0	6.0	4.0	4.0	5.0	6.0	5.0	4.0	5.0	6.0	4.8	7.0	2.0
7	5.0	4.0	4.0	3.0	3.0	6.0	6.0	6.0	5.0	6.0	4.0	3.0	5.0	6.0	8.0	7.0	5.0	2.0	4.0	4.0	4.0	7.0	6.0	3.0	4.8	8.0	2.0
8	0.0	2.0	4.0	5.0	6.0	5.0	6.0	8.0	8.0	6.0	4.0	5.0	5.0	3.0	3.0	5.0	5.0	4.0	7.0	8.0	7.0	6.0	4.0	5.0	5.0	8.0	0.0
9	6.0	5.0	6.0	7.0	5.0	3.0	6.0	8.0	8.0	6.0	--	--	9.0	8.0	8.0	8.0	8.0	7.0	6.0	5.0	5.0	8.0	8.0	5.0	6.6	9.0	3.0
10	4.0	9.0	10.0	8.0	5.0	7.0	10.0	9.0	9.0	8.0	6.0	7.0	7.0	6.0	5.0	5.0	5.0	6.0	6.0	5.0	6.0	7.0	7.0	8.0	6.9	10.0	4.0
11	8.0	9.0	9.0	8.0	8.0	6.0	7.0	9.0	8.0	9.0	6.0	3.0	5.0	5.0	4.0	1.0	2.0	4.0	5.0	7.0	6.0	6.0	7.0	6.0	6.2	9.0	1.0
12	5.0	3.0	2.0	2.0	5.0	4.0	3.0	5.0	5.0	6.0	4.0	3.0	4.0	5.0	2.0	2.0	3.0	3.0	5.0	4.0	5.0	6.0	5.0	3.0	3.9	6.0	2.0
13	3.0	4.0	4.0	6.0	4.0	3.0	3.0	3.0	2.0	2.0	1.0	2.0	3.0	0.0	-1.0	-2.0	1.0	5.0	3.0	1.0	1.0	5.0	6.0	3.0	2.6	6.0	-2.0
14	0.0	1.0	5.0	6.0	5.0	2.0	2.0	2.0	4.0	5.0	4.0	5.0	5.0	3.0	2.0	4.0	7.0	7.0	2.0	3.0	5.0	3.0	1.0	1.0	3.5	7.0	0.0
15	4.0	4.0	-1.0	-1.0	2.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	3.0	2.0	1.0	3.0	2.0	1.0	3.0	3.0	3.0	2.0	0.0	3.0	2.5	5.0	-1.0
16	4.0	4.0	3.0	2.0	1.0	1.0	3.0	4.0	6.0	7.0	7.0	6.0	6.0	7.0	7.0	7.0	5.0	4.0	6.0	6.0	6.0	5.0	5.0	3.0	4.8	7.0	1.0
17	4.0	6.0	6.0	2.0	1.0	3.0	3.0	4.0	7.0	4.0	6.0	7.0	6.0	7.0	7.0	6.0	5.0	4.0	3.0	3.0	1.0	2.0	6.0	7.0	4.6	7.0	1.0
18	4.0	2.0	1.0	3.0	5.0	4.0	5.0	8.0	8.0	6.0	7.0	8.0	6.0	5.0	5.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	4.9	8.0	1.0
19	4.0	3.0	4.0	4.0	5.0	7.0	8.0	6.0	5.0	5.0	2.0	2.0	3.0	5.0	8.0	8.0	10.0	7.0	5.0	7.0	7.0	8.0	8.0	8.0	5.8	10.0	2.0
20	8.0	7.0	6.0	5.0	4.0	4.0	8.0	10.0	7.0	4.0	4.0	5.0	5.0	4.0	7.0	7.0	5.0	6.0	8.0	5.0	3.0	4.0	5.0	5.0	5.7	10.0	3.0
21	6.0	6.0	4.0	2.0	2.0	2.0	3.0	4.0	4.0	2.0	2.0	4.0	1.0	3.0	6.0	6.0	6.0	4.0	2.0	2.0	5.0	2.0	1.0	6.0	3.5	6.0	1.0
22	7.0	4.0	3.0	5.0	3.0	1.0	4.0	5.0	7.0	6.0	5.0	6.0	6.0	7.0	8.0	5.0	4.0	3.0	4.0	6.0	4.0	3.0	3.0	4.0	4.7	8.0	1.0
23	5.0	5.0	4.0	3.0	6.0	7.0	4.0	5.0	6.0	5.0	5.0	3.0	2.0	5.0	6.0	5.0	5.0	4.0	3.0	5.0	7.0	6.0	5.0	7.0	4.9	7.0	2.0
24	4.0	3.0	6.0	5.0	5.0	6.0	5.0	7.0	9.0	7.0	5.0	6.0	6.0	6.0	8.0	8.0	7.0	7.0	8.0	7.0	5.0	6.0	9.0	9.0	6.4	9.0	3.0
25	9.0	9.0	7.0	5.0	4.0	5.0	6.0	7.0	3.0	3.0	4.0	4.0	4.0	3.0	5.0	7.0	4.0	1.0	2.0	3.0	4.0	5.0	6.0	5.0	4.8	9.0	1.0
26	5.0	6.0	6.0	4.0	6.0	5.0	6.0	9.0	7.0	2.0	1.0	2.0	1.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	3.0	2.0	3.0	4.3	9.0	1.0
27	4.0	4.0	4.0	5.0	7.0	6.0	6.0	5.0	4.0	7.0	7.0	3.0	5.0	7.0	7.0	6.0	6.0	7.0	7.0	7.0	5.0	5.0	5.0	6.0	5.6	7.0	3.0
28	8.0	6.0	5.0	6.0	2.0	4.0	7.0	7.0	9.0	8.0	8.0	7.0	4.0	4.0	4.0	5.0	4.0	4.0	6.0	5.0	3.0	5.0	9.0	8.0	5.8	9.0	2.0
29	4.0	6.0	4.0	1.0	1.0	3.0	5.0	6.0	6.0	4.0	7.0	9.0	8.0	4.0	2.0	4.0	5.0	7.0	6.0	4.0	5.0	11.0	10.0	6.0	5.3	11.0	1.0
30	6.0	5.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	1.0	4.0	6.0	4.0	5.0	8.0	7.0	8.0	6.0	5.0	5.0	7.0	6.0	6.0	7.0	5.1	8.0	1.0
31	6.0	5.0	4.0	3.0	4.0	4.0	4.0	6.0	6.0	4.0	3.0	3.0	5.0	6.0	7.0	8.0	6.0	5.0	7.0	9.0	8.0	6.0	6.0	6.0	5.5	9.0	3.0
Avg	5.0	5.0	4.7	4.4	4.4	4.5	5.1	5.9	6.0	5.3	4.9	5.1	4.9	4.6	5.1	5.2	5.2	4.5	4.8	5.1	4.8	5.2	5.5	5.3	5.0	--	--
Max	9.0	9.0	10.0	9.0	8.0	8.0	10.0	10.0	9.0	9.0	8.0	9.0	9.0	8.0	8.0	8.0	10.0	7.0	8.0	9.0	8.0	11.0	10.0	9.0	--	11.0	--
Min	0.0	1.0	-1.0	-1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	2.0	1.0	0.0	-1.0	-2.0	1.0	1.0	2.0	1.0	1.0	2.0	0.0	1.0	--	--	-2.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM2.5_µg/m^3 Actual"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	5.0	3.0	4.0	4.0	2.0	3.0	2.0	1.0	3.0	4.0	3.0	3.0	5.0	3.0	4.0	8.0	7.0	4.0	6.0	6.0	5.0	5.0	3.0	5.0	4.1	8.0	1.0
2	7.0	6.0	4.0	2.0	2.0	7.0	8.0	6.0	6.0	6.0	7.0	5.0	5.0	5.0	6.0	6.0	5.0	7.0	8.0	6.0	5.0	7.0	6.0	3.0	5.6	8.0	2.0
3	4.0	6.0	7.0	8.0	7.0	6.0	6.0	6.0	6.0	7.0	5.0	3.0	4.0	4.0	5.0	4.0	5.0	8.0	8.0	7.0	10.0	11.0	8.0	8.0	6.4	11.0	3.0
4	7.0	6.0	6.0	5.0	6.0	5.0	6.0	7.0	7.0	6.0	3.0	2.0	4.0	6.0	5.0	2.0	5.0	7.0	6.0	6.0	8.0	8.0	3.0	1.0	5.3	8.0	1.0
5	3.0	4.0	4.0	4.0	5.0	6.0	5.0	5.0	2.0	2.0	5.0	4.0	2.0	3.0	4.0	4.0	5.0	7.0	7.0	5.0	3.0	1.0	1.0	1.0	3.8	7.0	1.0
6	3.0	6.0	5.0	3.0	5.0	7.0	4.0	4.0	4.0	6.0	5.0	4.0	4.0	7.0	9.0	5.0	5.0	5.0	1.0	1.0	4.0	4.0	3.0	5.0	4.5	9.0	1.0
7	3.0	3.0	6.0	5.0	3.0	5.0	5.0	4.0	6.0	7.0	7.0	5.0	3.0	3.0	5.0	6.0	5.0	5.0	6.0	5.0	4.0	6.0	6.0	5.0	4.9	7.0	3.0
8	5.0	7.0	6.0	6.0	8.0	9.0	9.0	9.0	7.0	5.0	4.0	4.0	6.0	7.0	8.0	6.0	7.0	7.0	4.0	6.0	7.0	5.0	6.0	7.0	6.5	9.0	4.0
9	3.0	2.0	4.0	6.0	5.0	4.0	3.0	4.0	4.0	3.0	5.0	7.0	8.0	20.0	9.0	28.0	27.0	23.0	12.0	10.0	7.0	5.0	3.0	3.0	8.5	28.0	2.0
10	2.0	1.0	2.0	4.0	4.0	3.0	4.0	6.0	7.0	9.0	9.0	7.0	4.0	5.0	6.0	6.0	4.0	5.0	6.0	5.0	5.0	3.0	1.0	4.0	4.7	9.0	1.0
11	7.0	5.0	4.0	4.0	3.0	3.0	4.0	4.0	3.0	2.0	2.0	2.0	1.0	4.0	5.0	5.0	6.0	5.0	6.0	8.0	6.0	7.0	8.0	7.0	4.6	8.0	1.0
12	7.0	5.0	7.0	7.0	6.0	8.0	8.0	6.0	6.0	8.0	6.0	3.0	5.0	4.0	6.0	6.0	4.0	3.0	4.0	6.0	5.0	6.0	6.0	4.0	5.7	8.0	3.0
13	2.0	3.0	4.0	4.0	3.0	4.0	6.0	6.0	8.0	8.0	5.0	4.0	5.0	5.0	6.0	3.0	6.0	7.0	6.0	6.0	5.0	6.0	7.0	5.0	5.2	8.0	2.0
14	2.0	2.0	4.0	5.0	3.0	2.0	3.0	3.0	3.0	8.0	8.0	4.0	1.0	0.0	2.0	4.0	3.0	2.0	5.0	6.0	3.0	3.0	2.0	3.0	3.4	8.0	0.0
15	5.0	3.0	3.0	4.0	3.0	5.0	5.0	4.0	7.0	9.0	7.0	4.0	4.0	6.0	7.0	7.0	8.0	7.0	4.0	5.0	6.0	6.0	6.0	5.0	5.4	9.0	3.0
16	6.0	7.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	5.0	6.0	8.0	8.0	6.0	6.0	8.0	7.0	7.0	6.0	5.0	5.0	6.3	8.0	5.0
17	3.0	3.0	4.0	2.0	2.0	2.0	3.0	5.0	6.0	6.0	6.0	4.0	3.0	3.0	0.0	1.0	4.0	3.0	6.0	10.0	9.0	8.0	6.0	4.0	4.3	10.0	0.0
18	3.0	4.0	6.0	6.0	6.0	5.0	3.0	5.0	6.0	4.0	4.0	3.0	1.0	1.0	1.0	1.0	0.0	1.0	2.0	3.0	4.0	3.0	3.0	4.0	3.3	6.0	0.0
19	3.0	0.0	1.0	1.0	3.0	3.0	4.0	6.0	7.0	5.0	2.0	1.0	0.0	0.0	1.0	5.0	6.0	6.0	4.0	2.0	4.0	4.0	1.0	2.0	3.0	7.0	0.0
20	3.0	3.0	1.0	0.0	-1.0	1.0	5.0	7.0	6.0	4.0	5.0	4.0	4.0	5.0	5.0	4.0	4.0	3.0	2.0	3.0	5.0	3.0	2.0	4.0	3.4	7.0	-1.0
21	2.0	2.0	4.0	3.0	3.0	3.0	3.0	5.0	5.0	5.0	3.0	3.0	4.0	5.0	6.0	7.0	6.0	3.0	4.0	5.0	6.0	6.0	5.0	3.0	4.2	7.0	2.0
22	2.0	4.0	5.0	4.0	3.0	4.0	5.0	5.0	9.0	8.0	7.0	4.0	2.0	3.0	4.0	2.0	3.0	6.0	7.0	8.0	5.0	4.0	4.0	1.0	4.5	9.0	1.0
23	2.0	4.0	2.0	3.0	5.0	3.0	2.0	4.0	4.0	4.0	4.0	3.0	3.0	2.0	0.0	-1.0	2.0	4.0	3.0	5.0	5.0	6.0	6.0	6.0	3.4	6.0	-1.0
24	5.0	3.0	4.0	5.0	4.0	3.0	6.0	5.0	4.0	8.0	5.0	3.0	4.0	6.0	6.0	5.0	6.0	7.0	6.0	6.0	5.0	5.0	5.0	7.0	5.1	8.0	3.0
25	5.0	4.0	3.0	2.0	2.0	3.0	4.0	4.0	5.0	5.0	6.0	4.0	3.0	5.0	6.0	5.0	5.0	6.0	6.0	7.0	6.0	6.0	7.0	6.0	4.8	7.0	2.0
26	8.0	8.0	10.0	10.0	7.0	6.0	8.0	8.0	8.0	7.0	6.0	7.0	8.0	8.0	8.0	7.0	6.0	7.0	9.0	9.0	8.0	8.0	8.0	8.0	7.8	10.0	6.0
27	7.0	5.0	3.0	4.0	6.0	5.0	7.0	8.0	8.0	11.0	8.0	6.0	6.0	5.0	6.0	7.0	6.0	4.0	5.0	6.0	6.0	6.0	6.0	7.0	6.2	11.0	3.0
28	6.0	4.0	2.0	5.0	5.0	4.0	5.0	5.0	8.0	10.0	7.0	7.0	8.0	6.0	3.0	6.0	7.0	8.0	9.0	8.0	7.0	5.0	6.0	8.0	6.2	10.0	2.0
29	7.0	6.0	7.0	7.0	6.0	7.0	9.0	10.0	10.0	12.0	11.0	11.0	13.0	--	--	--	--	--	--	--	--	--	--	--	--	13.0	6.0
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.0	1.0	-5.0	-15.0	9.0	7.0	6.0	2.0	-2.0	-2.0	--	9.0	-15.0
Avg	4.4	4.1	4.4	4.4	4.2	4.6	5.1	5.4	5.9	6.4	5.6	4.4	4.3	4.9	5.1	5.4	5.4	5.2	5.8	6.0	5.7	5.3	4.5	4.4	5.0	--	--
Max	8.0	8.0	10.0	10.0	8.0	9.0	9.0	10.0	10.0	12.0	11.0	11.0	13.0	20.0	9.0	28.0	27.0	23.0	12.0	10.0	10.0	11.0	8.0	8.0	--	28.0	--
Min	2.0	0.0	1.0	0.0	-1.0	1.0	2.0	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	-1.0	-5.0	-15.0	1.0	1.0	3.0	1.0	-2.0	-2.0	--	--	-15.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM2.5_µg/m^3 Actual"

Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-4.0	-5.0	-4.0	-6.0	-4.0	-5.0	2.0	20.0	4.0	1.0	2.0	7.0	6.0	6.0	7.0	6.0	9.0	9.0	5.0	5.0	8.0	9.0	6.0	3.0	3.6	20.0	-6.0
2	4.0	6.0	6.0	6.0	7.0	6.0	4.0	3.0	7.0	6.0	5.0	6.0	6.0	4.0	4.0	4.0	5.0	4.0	5.0	5.0	6.0	7.0	5.0	5.0	5.3	7.0	3.0
3	5.0	4.0	1.0	1.0	3.0	5.0	4.0	4.0	4.0	5.0	5.0	6.0	8.0	9.0	7.0	4.0	5.0	4.0	4.0	4.0	5.0	7.0	5.0	4.0	4.7	9.0	1.0
4	5.0	3.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	6.0	6.0	7.0	8.0	5.0	4.0	2.0	6.0	7.0	2.0	2.0	0.0	1.0	4.0	3.0	4.1	8.0	0.0
5	3.0	4.0	5.0	1.0	0.0	6.0	6.0	4.0	6.0	5.0	2.0	1.0	3.0	4.0	2.0	2.0	4.0	4.0	3.0	2.0	1.0	3.0	1.0	2.0	3.1	6.0	0.0
6	6.0	4.0	1.0	2.0	3.0	4.0	4.0	4.0	5.0	3.0	1.0	3.0	4.0	--	4.0	6.0	7.0	7.0	5.0	6.0	7.0	5.0	5.0	6.0	4.4	7.0	1.0
7	6.0	5.0	5.0	7.0	8.0	9.0	8.0	10.0	10.0	9.0	7.0	6.0	9.0	9.0	8.0	7.0	10.0	8.0	6.0	6.0	5.0	4.0	5.0	5.0	7.2	10.0	4.0
8	5.0	7.0	7.0	5.0	6.0	9.0	11.0	11.0	7.0	7.0	9.0	6.0	1.0	2.0	5.0	5.0	2.0	1.0	5.0	5.0	5.0	6.0	6.0	6.0	5.8	11.0	1.0
9	4.0	6.0	5.0	3.0	4.0	3.0	3.0	5.0	5.0	4.0	5.0	5.0	5.0	7.0	4.0	0.0	0.0	3.0	6.0	5.0	5.0	6.0	5.0	6.0	4.3	7.0	0.0
10	6.0	6.0	6.0	4.0	3.0	2.0	5.0	7.0	8.0	5.0	3.0	3.0	2.0	1.0	2.0	3.0	1.0	1.0	3.0	6.0	4.0	3.0	2.0	1.0	3.6	8.0	1.0
11	1.0	2.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	0.0	0.0	1.0	3.0	7.0	5.0	3.0	5.0	3.0	2.0	0.0	0.0	2.0	7.0	0.0
12	1.0	3.0	3.0	4.0	4.0	4.0	5.0	6.0	7.0	4.0	2.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	4.0	3.0	4.0	5.0	4.0	3.5	7.0	1.0
13	2.0	4.0	5.0	2.0	1.0	6.0	8.0	6.0	4.0	4.0	3.0	2.0	3.0	6.0	9.0	8.0	6.0	5.0	6.0	5.0	4.0	6.0	6.0	6.0	4.9	9.0	1.0
14	6.0	4.0	5.0	4.0	0.0	1.0	2.0	0.0	3.0	--	1.0	0.0	3.0	1.0	2.0	4.0	3.0	2.0	1.0	1.0	2.0	1.0	3.0	4.0	2.3	6.0	0.0
15	1.0	3.0	5.0	5.0	2.0	0.0	1.0	2.0	2.0	0.0	2.0	5.0	4.0	3.0	4.0	5.0	3.0	1.0	1.0	1.0	2.0	3.0	2.0	2.0	2.5	5.0	0.0
16	3.0	4.0	1.0	3.0	3.0	2.0	1.0	0.0	1.0	2.0	4.0	4.0	3.0	5.0	6.0	5.0	4.0	4.0	5.0	6.0	5.0	4.0	7.0	6.0	3.7	7.0	0.0
17	6.0	7.0	6.0	5.0	6.0	9.0	9.0	8.0	5.0	5.0	5.0	5.0	3.0	5.0	6.0	2.0	1.0	4.0	4.0	5.0	4.0	3.0	6.0	7.0	5.3	9.0	1.0
18	6.0	5.0	4.0	3.0	5.0	3.0	1.0	4.0	5.0	5.0	3.0	2.0	4.0	4.0	3.0	5.0	6.0	3.0	4.0	5.0	4.0	3.0	1.0	1.0	3.7	6.0	1.0
19	2.0	3.0	4.0	2.0	2.0	3.0	3.0	6.0	6.0	6.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	6.0	8.0	6.0	2.0	2.0	0.0	4.5	8.0	0.0
20	0.0	0.0	-1.0	1.0	3.0	1.0	-1.0	0.0	2.0	3.0	3.0	2.0	1.0	5.0	6.0	5.0	5.0	7.0	5.0	0.0	1.0	6.0	5.0	1.0	2.5	7.0	-1.0
21	1.0	2.0	4.0	4.0	3.0	3.0	18.0	3.0	3.0	3.0	--	4.0	4.0	1.0	3.0	3.0	2.0	4.0	3.0	1.0	2.0	2.0	2.0	1.0	3.3	18.0	1.0
22	1.0	2.0	4.0	2.0	2.0	4.0	3.0	3.0	5.0	6.0	6.0	4.0	4.0	4.0	3.0	5.0	4.0	5.0	4.0	3.0	7.0	7.0	4.0	4.0	4.0	7.0	1.0
23	4.0	4.0	4.0	6.0	5.0	2.0	3.0	5.0	6.0	5.0	6.0	6.0	6.0	6.0	4.0	3.0	5.0	6.0	7.0	8.0	6.0	4.0	4.0	2.0	4.9	8.0	2.0
24	3.0	2.0	5.0	9.0	10.0	10.0	9.0	10.0	10.0	10.0	10.0	7.0	6.0	8.0	6.0	3.0	6.0	6.0	5.0	4.0	6.0	6.0	6.0	6.0	6.8	10.0	2.0
25	6.0	8.0	8.0	9.0	10.0	8.0	6.0	3.0	-1.0	0.0	4.0	4.0	2.0	2.0	1.0	1.0	2.0	3.0	4.0	1.0	0.0	2.0	2.0	1.0	3.6	10.0	-1.0
26	2.0	3.0	-1.0	1.0	1.0	0.0	2.0	3.0	2.0	4.0	4.0	1.0	2.0	4.0	1.0	1.0	3.0	2.0	2.0	1.0	4.0	7.0	6.0	7.0	2.6	7.0	-1.0
27	6.0	3.0	3.0	6.0	4.0	3.0	6.0	5.0	2.0	4.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	3.0	7.0	8.0	5.0	7.0	8.0	4.9	8.0	2.0
28	7.0	5.0	4.0	5.0	3.0	2.0	4.0	5.0	5.0	6.0	7.0	5.0	5.0	5.0	2.0	2.0	2.0	5.0	6.0	4.0	3.0	3.0	1.0	1.0	4.0	7.0	1.0
29	3.0	2.0	4.0	3.0	-1.0	2.0	4.0	4.0	3.0	3.0	4.0	2.0	1.0	3.0	3.0	-1.0	-2.0	0.0	2.0	2.0	3.0	3.0	3.0	2.0	2.2	4.0	-2.0
30	1.0	3.0	2.0	1.0	1.0	--	5.0	6.0	6.0	5.0	2.0	0.0	4.0	7.0	7.0	5.0	2.0	6.0	--	8.0	7.0	5.0	0.0	2.0	3.9	8.0	0.0
31	5.0	5.0	5.0	2.0	1.0	3.0	5.0	5.0	4.0	5.0	6.0	--	5.0	5.0	5.0	7.0	10.0	12.0	11.0	10.0	11.0	8.0	8.0	7.0	6.3	12.0	1.0
Avg	3.5	3.7	3.5	3.3	3.2	3.7	4.7	5.1	4.6	4.4	4.4	3.9	4.0	4.5	4.3	3.8	4.3	4.5	4.3	4.4	4.4	4.4	4.0	3.6	4.1	--	--
Max	7.0	8.0	8.0	9.0	10.0	10.0	18.0	20.0	10.0	10.0	10.0	7.0	9.0	9.0	9.0	8.0	10.0	12.0	11.0	10.0	11.0	9.0	8.0	8.0	--	20.0	--
Min	-4.0	-5.0	-4.0	-6.0	-4.0	-5.0	-1.0	0.0	-1.0	0.0	1.0	0.0	0.0	0.0	1.0	-1.0	-2.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	--	--	-6.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.0	19.0	12.0	8.0	7.0	16.0	15.0	13.0	10.0	17.0	11.0	17.0	11.0	12.0	74.0	17.0	18.0	11.0	12.0	265.0	18.0	19.0	12.0	12.0	26.7	265.0	7.0
2	7.0	15.0	6.0	9.0	11.0	9.0	10.0	13.0	12.0	12.0	14.0	18.0	15.0	39.0	32.0	18.0	16.0	12.0	12.0	40.0	15.0	13.0	10.0	18.0	15.7	40.0	6.0
3	19.0	20.0	20.0	22.0	17.0	17.0	17.0	24.0	21.0	14.0	19.0	18.0	28.0	37.0	57.0	52.0	16.0	16.0	20.0	28.0	19.0	18.0	18.0	19.0	23.2	57.0	14.0
4	23.0	25.0	20.0	15.0	16.0	22.0	36.0	33.0	19.0	10.0	27.0	52.0	29.0	49.0	45.0	30.0	42.0	25.0	27.0	40.0	19.0	35.0	21.0	24.0	28.5	52.0	10.0
5	33.0	18.0	13.0	12.0	20.0	12.0	25.0	15.0	22.0	11.0	11.0	12.0	15.0	13.0	22.0	9.0	15.0	11.0	16.0	13.0	11.0	10.0	17.0	10.0	15.2	33.0	9.0
6	9.0	17.0	15.0	17.0	12.0	11.0	16.0	61.0	13.0	13.0	18.0	35.0	22.0	11.0	13.0	24.0	16.0	29.0	30.0	11.0	13.0	15.0	13.0	21.0	19.0	61.0	9.0
7	24.0	17.0	15.0	28.0	14.0	40.0	30.0	18.0	20.0	18.0	19.0	11.0	19.0	26.0	22.0	9.0	10.0	10.0	24.0	6.0	76.0	15.0	19.0	34.0	21.8	76.0	6.0
8	21.0	15.0	4.0	7.0	11.0	24.0	29.0	20.0	14.0	25.0	19.0	33.0	14.0	25.0	42.0	61.0	155.0	72.0	155.0	255.0	112.0	176.0	156.0	105.0	64.6	255.0	4.0
9	63.0	51.0	48.0	27.0	49.0	20.0	42.0	27.0	20.0	--	33.0	28.0	30.0	26.0	25.0	35.0	35.0	120.0	228.0	588.0	480.0	429.0	217.0	315.0	127.7	588.0	20.0
10	73.0	116.0	16.0	22.0	24.0	26.0	27.0	43.0	19.0	23.0	15.0	21.0	12.0	23.0	53.0	46.0	300.0	95.0	145.0	27.0	30.0	21.0	21.0	41.0	51.6	300.0	12.0
11	53.0	18.0	23.0	23.0	27.0	25.0	27.0	25.0	38.0	22.0	15.0	13.0	10.0	22.0	15.0	13.0	13.0	50.0	12.0	29.0	35.0	36.0	29.0	27.0	25.0	53.0	10.0
12	19.0	13.0	11.0	9.0	9.0	15.0	15.0	13.0	15.0	10.0	29.0	24.0	15.0	19.0	30.0	33.0	21.0	9.0	16.0	3.0	5.0	8.0	6.0	5.0	14.7	33.0	3.0
13	7.0	8.0	8.0	7.0	7.0	5.0	3.0	2.0	3.0	4.0	3.0	6.0	8.0	7.0	5.0	9.0	8.0	5.0	5.0	9.0	6.0	4.0	16.0	10.0	6.5	16.0	2.0
14	10.0	9.0	7.0	4.0	2.0	3.0	16.0	4.0	9.0	14.0	9.0	4.0	6.0	6.0	4.0	5.0	6.0	5.0	5.0	5.0	5.0	3.0	2.0	8.0	6.3	16.0	2.0
15	7.0	3.0	5.0	10.0	14.0	14.0	10.0	17.0	21.0	17.0	12.0	17.0	14.0	32.0	8.0	5.0	5.0	10.0	17.0	10.0	10.0	12.0	12.0	12.0	12.3	32.0	3.0
16	22.0	18.0	17.0	18.0	5.0	8.0	48.0	45.0	8.0	8.0	10.0	23.0	32.0	29.0	38.0	12.0	11.0	25.0	18.0	23.0	24.0	26.0	19.0	18.0	21.0	48.0	5.0
17	21.0	31.0	25.0	14.0	17.0	9.0	82.0	98.0	26.0	19.0	14.0	20.0	24.0	27.0	41.0	19.0	17.0	8.0	9.0	9.0	8.0	45.0	18.0	17.0	25.8	98.0	8.0
18	16.0	12.0	11.0	17.0	13.0	13.0	27.0	38.0	18.0	18.0	13.0	22.0	28.0	40.0	29.0	31.0	29.0	26.0	26.0	34.0	28.0	22.0	24.0	35.0	23.8	40.0	11.0
19	22.0	25.0	22.0	19.0	18.0	17.0	17.0	9.0	7.0	2.0	0.0	15.0	16.0	22.0	40.0	21.0	22.0	27.0	23.0	24.0	27.0	27.0	39.0	25.0	20.3	40.0	0.0
20	27.0	21.0	20.0	20.0	16.0	15.0	34.0	19.0	15.0	26.0	25.0	17.0	26.0	14.0	22.0	28.0	26.0	25.0	32.0	47.0	18.0	22.0	16.0	21.0	23.0	47.0	14.0
21	18.0	10.0	16.0	14.0	10.0	27.0	6.0	4.0	7.0	7.0	7.0	11.0	9.0	16.0	16.0	13.0	18.0	24.0	15.0	12.0	11.0	9.0	11.0	15.0	12.8	27.0	4.0
22	30.0	17.0	22.0	16.0	8.0	10.0	20.0	35.0	9.0	12.0	16.0	15.0	15.0	10.0	24.0	9.0	11.0	15.0	29.0	20.0	22.0	15.0	14.0	20.0	17.2	35.0	8.0
23	19.0	17.0	13.0	21.0	17.0	19.0	19.0	24.0	19.0	13.0	11.0	10.0	12.0	14.0	27.0	23.0	15.0	13.0	19.0	22.0	17.0	14.0	14.0	20.0	17.2	27.0	10.0
24	17.0	16.0	13.0	17.0	20.0	22.0	38.0	40.0	12.0	16.0	16.0	37.0	15.0	27.0	31.0	27.0	30.0	28.0	29.0	26.0	29.0	27.0	22.0	21.0	24.0	40.0	12.0
25	22.0	28.0	16.0	19.0	19.0	15.0	30.0	34.0	23.0	--	17.0	15.0	13.0	19.0	36.0	17.0	12.0	13.0	21.0	24.0	20.0	27.0	15.0	11.0	20.3	36.0	11.0
26	19.0	76.0	96.0	56.0	16.0	41.0	14.0	77.0	28.0	9.0	10.0	7.0	9.0	14.0	18.0	12.0	12.0	11.0	10.0	12.0	20.0	21.0	25.0	27.0	26.7	96.0	7.0
27	29.0	27.0	25.0	30.0	29.0	27.0	29.0	23.0	28.0	26.0	18.0	21.0	19.0	30.0	19.0	21.0	21.0	21.0	22.0	20.0	16.0	19.0	17.0	15.0	23.0	30.0	15.0
28	20.0	20.0	17.0	17.0	17.0	13.0	20.0	32.0	17.0	21.0	27.0	18.0	16.0	10.0	22.0	24.0	13.0	12.0	44.0	45.0	37.0	40.0	37.0	8.0	22.8	45.0	8.0
29	49.0	15.0	7.0	10.0	10.0	8.0	83.0	19.0	15.0	12.0	24.0	15.0	27.0	27.0	29.0	17.0	17.0	17.0	37.0	22.0	25.0	12.0	14.0	27.0	22.4	83.0	7.0
30	16.0	10.0	8.0	10.0	10.0	7.0	48.0	25.0	13.0	14.0	13.0	52.0	50.0	42.0	58.0	23.0	25.0	21.0	23.0	20.0	18.0	26.0	18.0	27.0	24.0	58.0	7.0
31	12.0	17.0	10.0	11.0	10.0	9.0	27.0	15.0	13.0	10.0	16.0	12.0	13.0	28.0	25.0	15.0	24.0	18.0	27.0	28.0	20.0	19.0	22.0	15.0	17.3	28.0	9.0
Avg	24.0	23.4	18.1	17.1	15.3	16.7	27.7	27.9	16.6	14.6	15.8	20.0	18.5	23.1	29.7	21.9	31.6	25.3	35.7	55.4	38.5	38.2	28.8	31.7	25.8	--	--
Max	73.0	116.0	96.0	56.0	49.0	41.0	83.0	98.0	38.0	26.0	33.0	52.0	50.0	49.0	74.0	61.0	300.0	120.0	228.0	588.0	480.0	429.0	217.0	315.0	--	588.0	--
Min	7.0	3.0	4.0	4.0	2.0	3.0	3.0	2.0	3.0	2.0	0.0	4.0	6.0	6.0	4.0	5.0	5.0	5.0	5.0	3.0	5.0	3.0	2.0	5.0	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	15.0	12.0	7.0	5.0	6.0	7.0	17.0	16.0	10.0	16.0	10.0	19.0	11.0	24.0	26.0	23.0	17.0	16.0	31.0	15.0	34.0	12.0	18.0	16.0	16.0	34.0	5.0
2	15.0	15.0	13.0	13.0	16.0	17.0	15.0	21.0	17.0	23.0	26.0	20.0	15.0	24.0	18.0	21.0	18.0	25.0	14.0	14.0	36.0	24.0	13.0	14.0	18.6	36.0	13.0
3	33.0	21.0	20.0	14.0	24.0	17.0	14.0	21.0	13.0	15.0	13.0	16.0	17.0	20.0	16.0	27.0	27.0	42.0	30.0	35.0	158.0	23.0	28.0	32.0	28.2	158.0	13.0
4	18.0	15.0	25.0	11.0	12.0	13.0	15.0	64.0	8.0	11.0	19.0	11.0	10.0	22.0	31.0	21.0	26.0	22.0	30.0	17.0	66.0	28.0	16.0	8.0	21.6	66.0	8.0
5	34.0	8.0	6.0	15.0	22.0	11.0	39.0	55.0	38.0	25.0	15.0	8.0	11.0	18.0	20.0	30.0	17.0	23.0	40.0	18.0	26.0	9.0	6.0	2.0	20.7	55.0	2.0
6	1.0	29.0	7.0	7.0	10.0	8.0	15.0	19.0	17.0	19.0	11.0	11.0	11.0	10.0	36.0	13.0	12.0	22.0	21.0	19.0	34.0	13.0	34.0	6.0	16.0	36.0	1.0
7	15.0	8.0	6.0	5.0	8.0	11.0	11.0	9.0	11.0	17.0	19.0	17.0	14.0	17.0	94.0	24.0	25.0	30.0	39.0	17.0	19.0	19.0	15.0	17.0	19.5	94.0	5.0
8	17.0	18.0	27.0	22.0	19.0	27.0	29.0	42.0	32.0	23.0	15.0	31.0	17.0	21.0	39.0	15.0	240.0	37.0	19.0	19.0	15.0	24.0	17.0	17.0	32.6	240.0	15.0
9	7.0	9.0	19.0	8.0	9.0	8.0	6.0	8.0	8.0	9.0	8.0	6.0	16.0	226.0	148.0	174.0	271.0	221.0	110.0	49.0	58.0	25.0	10.0	15.0	59.5	271.0	6.0
10	25.0	29.0	14.0	17.0	15.0	14.0	12.0	18.0	17.0	18.0	15.0	17.0	15.0	13.0	10.0	9.0	17.0	17.0	18.0	27.0	9.0	10.0	8.0	9.0	15.5	29.0	8.0
11	11.0	8.0	7.0	7.0	2.0	6.0	11.0	9.0	11.0	9.0	5.0	5.0	7.0	8.0	6.0	5.0	5.0	8.0	10.0	9.0	7.0	6.0	7.0	30.0	8.3	30.0	2.0
12	16.0	10.0	48.0	14.0	12.0	9.0	12.0	22.0	32.0	9.0	11.0	13.0	9.0	7.0	11.0	12.0	8.0	7.0	9.0	10.0	12.0	8.0	7.0	12.0	13.3	48.0	7.0
13	11.0	10.0	10.0	10.0	11.0	10.0	10.0	16.0	18.0	22.0	20.0	22.0	7.0	20.0	13.0	12.0	11.0	9.0	7.0	5.0	6.0	16.0	13.0	15.0	12.7	22.0	5.0
14	12.0	10.0	11.0	15.0	17.0	14.0	11.0	32.0	25.0	28.0	56.0	41.0	16.0	11.0	11.0	8.0	8.0	11.0	10.0	6.0	7.0	8.0	5.0	7.0	15.8	56.0	5.0
15	10.0	8.0	9.0	10.0	8.0	8.0	10.0	23.0	25.0	20.0	20.0	16.0	22.0	19.0	17.0	24.0	21.0	17.0	21.0	18.0	13.0	14.0	13.0	24.0	16.3	25.0	8.0
16	13.0	17.0	11.0	12.0	17.0	15.0	15.0	20.0	12.0	25.0	22.0	18.0	21.0	34.0	43.0	24.0	25.0	17.0	23.0	29.0	29.0	26.0	28.0	18.0	21.4	43.0	11.0
17	5.0	9.0	12.0	10.0	11.0	7.0	4.0	23.0	9.0	8.0	10.0	12.0	8.0	5.0	5.0	10.0	22.0	24.0	45.0	36.0	25.0	25.0	21.0	15.0	15.0	45.0	4.0
18	23.0	13.0	17.0	5.0	9.0	15.0	16.0	8.0	8.0	10.0	10.0	11.0	10.0	6.0	6.0	9.0	8.0	5.0	24.0	12.0	10.0	7.0	2.0	2.0	10.3	24.0	2.0
19	28.0	4.0	4.0	4.0	6.0	6.0	8.0	7.0	4.0	4.0	2.0	2.0	2.0	4.0	34.0	10.0	10.0	11.0	--	9.0	10.0	8.0	3.0	2.0	7.9	34.0	2.0
20	6.0	7.0	4.0	2.0	3.0	4.0	3.0	17.0	21.0	10.0	11.0	10.0	6.0	4.0	4.0	7.0	7.0	7.0	7.0	5.0	4.0	6.0	8.0	6.0	7.0	21.0	2.0
21	6.0	5.0	6.0	9.0	11.0	7.0	5.0	10.0	10.0	7.0	9.0	10.0	15.0	14.0	19.0	17.0	16.0	17.0	596.0	62.0	22.0	21.0	13.0	18.0	38.5	596.0	5.0
22	30.0	27.0	17.0	6.0	6.0	9.0	13.0	8.0	4.0	7.0	7.0	5.0	5.0	7.0	8.0	10.0	26.0	20.0	19.0	22.0	11.0	10.0	9.0	9.0	12.3	30.0	4.0
23	6.0	4.0	5.0	4.0	4.0	4.0	9.0	17.0	16.0	13.0	11.0	8.0	16.0	15.0	17.0	12.0	11.0	13.0	14.0	19.0	24.0	35.0	40.0	37.0	14.8	40.0	4.0
24	34.0	29.0	24.0	22.0	16.0	19.0	19.0	29.0	90.0	44.0	22.0	20.0	17.0	9.0	18.0	17.0	20.0	17.0	16.0	7.0	8.0	10.0	11.0	11.0	22.0	90.0	7.0
25	10.0	11.0	11.0	11.0	11.0	12.0	13.0	17.0	13.0	12.0	16.0	12.0	13.0	16.0	20.0	14.0	24.0	20.0	44.0	35.0	32.0	50.0	23.0	29.0	19.5	50.0	10.0
26	22.0	32.0	25.0	25.0	22.0	17.0	43.0	56.0	76.0	24.0	--	--	25.0	30.0	26.0	20.0	20.0	23.0	27.0	19.0	17.0	16.0	15.0	15.0	27.0	76.0	15.0
27	22.0	18.0	8.0	10.0	12.0	9.0	8.0	11.0	18.0	17.0	36.0	15.0	18.0	13.0	21.0	20.0	16.0	17.0	13.0	16.0	16.0	18.0	22.0	35.0	17.0	36.0	8.0
28	22.0	25.0	27.0	24.0	26.0	28.0	24.0	27.0	21.0	23.0	--	--	24.0	19.0	97.0	33.0	33.0	37.0	36.0	32.0	33.0	27.0	26.0	27.0	30.5	97.0	19.0
29	25.0	23.0	27.0	21.0	22.0	24.0	27.0	36.0	35.0	27.0	24.0	23.0	46.0	27.0	27.0	20.0	16.0	18.0	20.0	32.0	37.0	33.0	26.0	27.0	26.8	46.0	16.0
30	24.0	46.0	21.0	13.0	10.0	9.0	11.0	16.0	13.0	16.0	11.0	11.0	8.0	9.0	15.0	15.0	13.0	11.0	12.0	21.0	17.0	21.0	23.0	8.0	15.6	46.0	8.0
Avg	17.2	16.0	14.9	11.7	12.6	12.2	14.8	22.6	21.1	17.0	16.2	14.6	14.4	22.4	28.5	21.9	33.0	25.5	45.0	21.1	26.5	18.4	16.0	16.1	20.0	--	--
Max	34.0	46.0	48.0	25.0	26.0	28.0	43.0	64.0	90.0	44.0	56.0	41.0	46.0	226.0	148.0	174.0	271.0	221.0	596.0	62.0	158.0	50.0	40.0	37.0	--	596.0	--
Min	1.0	4.0	4.0	2.0	2.0	4.0	3.0	7.0	4.0	4.0	2.0	2.0	2.0	4.0	4.0	5.0	5.0	5.0	7.0	5.0	4.0	6.0	2.0	2.0	--	--	1.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table125, conc_PM10_µg/m^3_STP"

Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10.0	12.0	11.0	8.0	7.0	7.0	7.0	7.0	6.0	7.0	8.0	10.0	9.0	10.0	18.0	20.0	23.0	30.0	28.0	29.0	25.0	27.0	19.0	18.0	14.8	30.0	6.0
2	11.0	13.0	18.0	17.0	17.0	14.0	19.0	13.0	17.0	19.0	19.0	14.0	17.0	21.0	15.0	14.0	20.0	15.0	44.0	26.0	21.0	25.0	13.0	11.0	18.0	44.0	11.0
3	9.0	9.0	11.0	13.0	11.0	11.0	27.0	18.0	23.0	17.0	18.0	20.0	26.0	39.0	12.0	22.0	13.0	17.0	18.0	17.0	22.0	21.0	17.0	18.0	17.9	39.0	9.0
4	1.0	4.0	9.0	11.0	11.0	9.0	7.0	10.0	12.0	22.0	20.0	12.0	12.0	10.0	11.0	17.0	18.0	20.0	20.0	9.0	9.0	9.0	8.0	4.0	11.5	22.0	1.0
5	4.0	6.0	8.0	11.0	18.0	8.0	9.0	18.0	18.0	19.0	43.0	16.0	15.0	23.0	16.0	20.0	16.0	22.0	22.0	23.0	20.0	17.0	17.0	15.0	16.8	43.0	4.0
6	19.0	24.0	10.0	9.0	9.0	8.0	19.0	24.0	18.0	25.0	12.0	18.0	15.0	14.0	20.0	19.0	23.0	24.0	23.0	29.0	30.0	30.0	23.0	21.0	19.4	30.0	8.0
7	31.0	26.0	23.0	21.0	26.0	25.0	27.0	48.0	24.0	14.0	16.0	23.0	30.0	16.0	22.0	24.0	24.0	15.0	19.0	24.0	23.0	14.0	21.0	15.0	23.0	48.0	14.0
8	15.0	25.0	24.0	29.0	28.0	25.0	27.0	40.0	20.0	24.0	22.0	12.0	12.0	13.0	14.0	11.0	8.0	10.0	20.0	22.0	20.0	17.0	23.0	24.0	20.2	40.0	8.0
9	10.0	16.0	19.0	13.0	12.0	12.0	23.0	17.0	27.0	14.0	20.0	21.0	30.0	30.0	97.0	49.0	13.0	16.0	14.0	15.0	120.0	94.0	51.0	31.0	31.8	120.0	10.0
10	32.0	25.0	14.0	11.0	7.0	6.0	23.0	22.0	20.0	--	9.0	10.0	9.0	30.0	13.0	15.0	14.0	12.0	19.0	16.0	30.0	13.0	16.0	10.0	16.3	32.0	6.0
11	10.0	8.0	6.0	3.0	2.0	1.0	7.0	14.0	16.0	22.0	11.0	11.0	9.0	6.0	35.0	12.0	18.0	24.0	16.0	31.0	8.0	8.0	4.0	2.0	11.8	35.0	1.0
12	4.0	3.0	6.0	7.0	5.0	7.0	8.0	7.0	8.0	16.0	10.0	9.0	8.0	5.0	5.0	8.0	8.0	10.0	9.0	22.0	16.0	9.0	9.0	8.0	8.6	22.0	3.0
13	15.0	16.0	10.0	10.0	18.0	7.0	8.0	11.0	13.0	21.0	13.0	10.0	24.0	77.0	95.0	133.0	47.0	19.0	17.0	17.0	18.0	10.0	9.0	7.0	26.0	133.0	7.0
14	5.0	0.0	0.0	0.0	-2.0	0.0	1.0	-1.0	-2.0	2.0	3.0	2.0	3.0	3.0	3.0	1.0	2.0	3.0	2.0	1.0	2.0	1.0	-1.0	1.0	1.2	5.0	-2.0
15	6.0	8.0	6.0	2.0	1.0	1.0	1.0	2.0	0.0	2.0	3.0	2.0	5.0	4.0	1.0	5.0	4.0	1.0	0.0	1.0	3.0	3.0	0.0	0.0	2.5	8.0	0.0
16	4.0	3.0	1.0	1.0	1.0	-1.0	0.0	3.0	4.0	4.0	4.0	4.0	3.0	1.0	1.0	0.0	2.0	4.0	2.0	2.0	6.0	11.0	10.0	8.0	3.3	11.0	-1.0
17	9.0	7.0	3.0	5.0	5.0	4.0	3.0	3.0	3.0	4.0	5.0	3.0	3.0	3.0	3.0	3.0	4.0	6.0	9.0	8.0	8.0	9.0	7.0	6.0	5.1	9.0	3.0
18	6.0	6.0	5.0	1.0	-2.0	0.0	3.0	2.0	0.0	1.0	2.0	2.0	2.0	3.0	1.0	5.0	8.0	5.0	6.0	8.0	4.0	1.0	1.0	2.0	3.0	8.0	-2.0
19	4.0	7.0	6.0	5.0	7.0	6.0	8.0	15.0	15.0	17.0	18.0	12.0	12.0	8.0	9.0	10.0	10.0	11.0	10.0	10.0	7.0	6.0	4.0	3.0	9.2	18.0	3.0
20	5.0	5.0	6.0	7.0	3.0	3.0	4.0	4.0	6.0	6.0	8.0	10.0	8.0	--	6.0	3.0	5.0	5.0	7.0	8.0	5.0	16.0	8.0	7.0	6.3	16.0	3.0
21	7.0	9.0	8.0	5.0	4.0	6.0	15.0	22.0	16.0	10.0	8.0	7.0	10.0	10.0	9.0	9.0	9.0	9.0	8.0	9.0	10.0	8.0	8.0	9.0	9.4	22.0	4.0
22	8.0	7.0	7.0	8.0	7.0	10.0	12.0	12.0	13.0	12.0	11.0	10.0	7.0	6.0	9.0	11.0	9.0	11.0	29.0	26.0	4.0	8.0	13.0	9.0	10.8	29.0	4.0
23	7.0	8.0	6.0	6.0	8.0	8.0	10.0	14.0	13.0	9.0	10.0	10.0	7.0	9.0	12.0	13.0	12.0	13.0	18.0	8.0	16.0	25.0	11.0	13.0	11.1	25.0	6.0
24	9.0	34.0	7.0	10.0	20.0	16.0	21.0	15.0	14.0	13.0	12.0	13.0	11.0	11.0	11.0	7.0	10.0	13.0	12.0	17.0	21.0	13.0	21.0	15.0	14.4	34.0	7.0
25	7.0	16.0	9.0	11.0	13.0	21.0	9.0	8.0	4.0	2.0	3.0	-1.0	-3.0	15.0	6.0	6.0	3.0	3.0	5.0	3.0	0.0	0.0	2.0	7.0	6.2	21.0	-3.0
26	9.0	5.0	4.0	3.0	3.0	2.0	1.0	4.0	4.0	6.0	6.0	5.0	6.0	7.0	7.0	4.0	4.0	7.0	11.0	10.0	6.0	7.0	9.0	16.0	6.1	16.0	1.0
27	17.0	6.0	6.0	5.0	5.0	5.0	15.0	16.0	8.0	9.0	10.0	12.0	10.0	17.0	10.0	10.0	7.0	7.0	10.0	10.0	16.0	16.0	15.0	12.0	10.6	17.0	5.0
28	10.0	10.0	9.0	8.0	6.0	5.0	5.0	5.0	10.0	11.0	9.0	5.0	2.0	6.0	8.0	6.0	7.0	12.0	11.0	7.0	7.0	5.0	5.0	6.0	7.3	12.0	2.0
29	3.0	2.0	15.0	12.0	8.0	3.0	4.0	34.0	10.0	10.0	15.0	7.0	7.0	5.0	3.0	6.0	9.0	6.0	6.0	10.0	9.0	7.0	8.0	7.0	8.6	34.0	2.0
30	5.0	3.0	5.0	8.0	6.0	7.0	8.0	8.0	10.0	11.0	10.0	10.0	18.0	14.0	13.0	12.0	8.0	15.0	18.0	13.0	10.0	6.0	5.0	4.0	9.5	18.0	3.0
31	5.0	6.0	1.0	1.0	6.0	6.0	3.0	3.0	3.0	5.0	6.0	6.0	5.0	4.0	5.0	5.0	6.0	9.0	9.0	11.0	12.0	8.0	5.0	3.0	5.5	12.0	1.0
Avg	9.6	10.6	8.8	8.4	8.7	7.8	10.8	13.5	11.4	11.8	11.7	9.8	10.7	14.0	15.8	15.5	11.7	12.1	14.3	14.3	16.4	14.3	11.6	10.1	11.8	--	--
Max	32.0	34.0	24.0	29.0	28.0	25.0	27.0	48.0	27.0	25.0	43.0	23.0	30.0	77.0	97.0	133.0	47.0	30.0	44.0	31.0	120.0	94.0	51.0	31.0	--	133.0	--
Min	1.0	0.0	0.0	0.0	-2.0	-1.0	0.0	-1.0	-2.0	1.0	2.0	-1.0	-3.0	1.0	1.0	0.0	2.0	1.0	0.0	1.0	0.0	0.0	-1.0	0.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"

Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-5.0	-3.0	0.0	1.0	1.0	5.0	1.0	-4.0	-4.0	-4.0	-4.0	-5.0	-8.0	-3.0	0.0	-2.0	-3.0	0.0	0.0	-2.0	0.0	0.0	1.0	-2.0	-1.7	5.0	-8.0
2	-1.0	0.0	-1.0	-1.0	-3.0	1.0	3.0	-1.0	0.0	0.0	-4.0	-5.0	-4.0	-7.0	-5.0	-4.0	-1.0	0.0	-2.0	-2.0	-3.0	-3.0	-4.0	0.0	-2.0	3.0	-7.0
3	3.0	3.0	2.0	-1.0	-1.0	2.0	1.0	0.0	-2.0	-3.0	-2.0	-2.0	0.0	2.0	-1.0	-2.0	-3.0	-4.0	-2.0	2.0	1.0	0.0	-2.0	-2.0	-0.5	3.0	-4.0
4	1.0	3.0	4.0	3.0	0.0	1.0	5.0	3.0	1.0	0.0	0.0	2.0	2.0	2.0	2.0	-1.0	0.0	0.0	-1.0	0.0	1.0	2.0	1.0	3.0	1.4	5.0	-1.0
5	3.0	1.0	0.0	-1.0	1.0	-1.0	-4.0	-1.0	0.0	-4.0	-4.0	-2.0	-3.0	-4.0	-4.0	-4.0	-5.0	-3.0	1.0	-2.0	-3.0	-1.0	-3.0	-3.0	-1.9	3.0	-5.0
6	-4.0	-1.0	2.0	0.0	-1.0	-1.0	-2.0	0.0	-1.0	-4.0	-4.0	-2.0	0.0	-3.0	-4.0	-3.0	-2.0	-1.0	1.0	0.0	1.0	0.0	-2.0	-3.0	-1.4	2.0	-4.0
7	-1.0	-1.0	-4.0	-3.0	0.0	2.0	0.0	-1.0	-1.0	-4.0	-5.0	-3.0	0.0	2.0	2.0	-4.0	-6.0	-2.0	-1.0	2.0	1.0	-3.0	-4.0	-4.0	-1.6	2.0	-6.0
8	-1.0	-1.0	-1.0	1.0	0.0	0.0	0.0	-3.0	-4.0	-3.0	-4.0	-6.0	-7.0	-4.0	-3.0	-2.0	2.0	2.0	3.0	10.0	8.0	5.0	7.0	6.0	0.2	10.0	-7.0
9	0.0	0.0	1.0	0.0	0.0	0.0	1.0	-1.0	--	-4.0	-5.0	-4.0	0.0	-2.0	-4.0	-1.0	1.0	3.0	5.0	28.0	19.0	12.0	9.0	16.0	3.2	28.0	-5.0
10	6.0	6.0	1.0	-3.0	0.0	1.0	-1.0	-2.0	-2.0	-1.0	1.0	-3.0	-4.0	-3.0	-2.0	-3.0	3.0	7.0	5.0	4.0	5.0	6.0	4.0	1.0	1.1	7.0	-4.0
11	-1.0	3.0	3.0	1.0	3.0	6.0	4.0	3.0	3.0	0.0	-2.0	-2.0	-2.0	-1.0	-3.0	-3.0	-1.0	2.0	1.0	1.0	1.0	-3.0	-2.0	1.0	0.5	6.0	-3.0
12	-1.0	-2.0	-3.0	0.0	1.0	-2.0	-1.0	1.0	1.0	-2.0	-3.0	-2.0	-3.0	-3.0	-3.0	-3.0	-1.0	-1.0	-2.0	-3.0	-3.0	0.0	1.0	-2.0	-1.5	1.0	-3.0
13	-2.0	-1.0	1.0	1.0	0.0	0.0	-2.0	-1.0	-3.0	-6.0	-5.0	-4.0	-3.0	-4.0	-7.0	-6.0	-1.0	-2.0	-2.0	-1.0	-3.0	-5.0	-2.0	0.0	-2.4	1.0	-7.0
14	-1.0	-1.0	0.0	-3.0	-4.0	-2.0	-3.0	-3.0	-3.0	-1.0	-1.0	-6.0	-9.0	-8.0	-6.0	-7.0	-4.0	-4.0	-5.0	-5.0	-5.0	-6.0	-6.0	-4.0	-4.0	0.0	-9.0
15	1.0	2.0	-4.0	-4.0	-2.0	-3.0	-2.0	2.0	-1.0	-2.0	1.0	0.0	-3.0	-6.0	-5.0	-5.0	-6.0	-4.0	0.0	-1.0	-2.0	1.0	2.0	1.0	-1.7	2.0	-6.0
16	1.0	1.0	1.0	0.0	1.0	0.0	-1.0	0.0	-3.0	-3.0	-5.0	-5.0	0.0	0.0	-2.0	-1.0	-1.0	1.0	2.0	2.0	1.0	1.0	-2.0	-1.0	-0.5	2.0	-5.0
17	2.0	0.0	-4.0	-3.0	1.0	2.0	3.0	5.0	2.0	-2.0	-3.0	-5.0	-4.0	-2.0	-2.0	-2.0	-3.0	-3.0	0.0	-4.0	-4.0	1.0	1.0	0.0	-1.0	5.0	-5.0
18	-1.0	-3.0	-3.0	1.0	0.0	-3.0	0.0	3.0	2.0	-1.0	-4.0	-2.0	-1.0	-3.0	-5.0	0.0	1.0	1.0	2.0	-2.0	-3.0	-2.0	-2.0	1.0	-1.0	3.0	-5.0
19	0.0	-1.0	-1.0	-1.0	-1.0	0.0	-1.0	-3.0	-2.0	-4.0	-2.0	1.0	0.0	-3.0	-1.0	-1.0	-2.0	-2.0	-3.0	0.0	1.0	0.0	2.0	2.0	-0.9	2.0	-4.0
20	3.0	3.0	1.0	-1.0	-1.0	1.0	0.0	0.0	0.0	0.0	1.0	-1.0	-1.0	-2.0	-4.0	-5.0	-3.0	-1.0	-4.0	-3.0	0.0	0.0	0.0	-1.0	-0.8	3.0	-5.0
21	0.0	-1.0	-4.0	-1.0	0.0	-3.0	-3.0	-2.0	-2.0	-3.0	-6.0	-5.0	-4.0	-6.0	-5.0	-4.0	-3.0	-2.0	-1.0	-1.0	-1.0	-2.0	-3.0	0.0	-2.6	0.0	-6.0
22	-1.0	-3.0	-2.0	-3.0	-3.0	-1.0	-1.0	0.0	-2.0	-4.0	-6.0	-7.0	-5.0	-3.0	-3.0	-3.0	-3.0	-2.0	0.0	0.0	0.0	0.0	-2.0	-2.0	-2.3	0.0	-7.0
23	0.0	1.0	0.0	-2.0	0.0	3.0	-2.0	-2.0	1.0	-4.0	-6.0	-6.0	-4.0	-4.0	-5.0	-4.0	-3.0	0.0	4.0	1.0	0.0	2.0	-1.0	-5.0	-1.5	4.0	-6.0
24	-3.0	0.0	-2.0	0.0	0.0	2.0	2.0	2.0	5.0	3.0	2.0	0.0	-3.0	-2.0	1.0	1.0	2.0	1.0	2.0	4.0	2.0	3.0	3.0	3.0	1.2	5.0	-3.0
25	4.0	5.0	2.0	1.0	0.0	2.0	4.0	-1.0	-3.0	--	--	-6.0	-6.0	-1.0	0.0	1.0	-3.0	-4.0	3.0	5.0	5.0	4.0	1.0	1.0	0.6	5.0	-6.0
26	-1.0	3.0	5.0	0.0	-2.0	-1.0	2.0	3.0	1.0	0.0	1.0	0.0	-2.0	-1.0	2.0	2.0	5.0	3.0	0.0	-2.0	-2.0	0.0	-1.0	0.0	0.6	5.0	-2.0
27	3.0	3.0	1.0	3.0	4.0	2.0	0.0	0.0	0.0	-2.0	-3.0	-1.0	-1.0	0.0	-2.0	-2.0	0.0	2.0	4.0	4.0	4.0	3.0	1.0	-1.0	0.9	4.0	-3.0
28	1.0	5.0	5.0	3.0	3.0	3.0	2.0	4.0	3.0	0.0	1.0	0.0	1.0	-3.0	-5.0	-3.0	-3.0	-2.0	-2.0	0.0	1.0	3.0	3.0	-1.0	0.8	5.0	-5.0
29	-1.0	0.0	-1.0	-1.0	0.0	2.0	2.0	0.0	-3.0	-2.0	0.0	-3.0	-2.0	-1.0	-2.0	-2.0	0.0	3.0	4.0	5.0	1.0	1.0	3.0	0.0	0.1	5.0	-3.0
30	0.0	0.0	2.0	1.0	0.0	3.0	3.0	2.0	2.0	0.0	-4.0	-3.0	-1.0	-2.0	-2.0	2.0	2.0	0.0	-1.0	0.0	1.0	-1.0	0.0	2.0	0.3	3.0	-4.0
31	3.0	2.0	-1.0	-1.0	0.0	-3.0	1.0	4.0	3.0	1.0	-1.0	-2.0	-3.0	-1.0	1.0	3.0	-1.0	-2.0	1.0	3.0	2.0	0.0	1.0	1.0	0.5	4.0	-3.0
Avg	0.2	0.7	0.0	-0.4	-0.1	0.6	0.4	0.2	-0.4	-2.0	-2.5	-2.9	-2.6	-2.5	-2.5	-2.2	-1.4	-0.5	0.4	1.4	0.8	0.6	0.1	0.2	-0.6	--	--
Max	6.0	6.0	5.0	3.0	4.0	6.0	5.0	5.0	5.0	3.0	2.0	2.0	2.0	2.0	2.0	3.0	5.0	7.0	5.0	28.0	19.0	12.0	9.0	16.0	--	28.0	--
Min	-5.0	-3.0	-4.0	-4.0	-4.0	-3.0	-4.0	-4.0	-4.0	-6.0	-6.0	-7.0	-9.0	-8.0	-7.0	-7.0	-6.0	-4.0	-5.0	-5.0	-5.0	-6.0	-6.0	-5.0	--	--	-9.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"

Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.0	1.0	0.0	-4.0	-4.0	0.0	0.0	-4.0	-5.0	-2.0	-1.0	-4.0	-4.0	-2.0	-3.0	-3.0	-1.0	-2.0	1.0	4.0	3.0	1.0	0.0	0.0	-1.2	4.0	-5.0
2	1.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	4.0	3.0	0.0	-2.0	-1.0	0.0	1.0	0.0	-2.0	-1.0	-1.0	1.0	1.0	0.0	1.0	0.8	4.0	-2.0
3	1.0	3.0	4.0	3.0	1.0	0.0	1.0	3.0	4.0	0.0	2.0	0.0	-1.0	3.0	2.0	0.0	0.0	1.0	2.0	4.0	7.0	5.0	0.0	-1.0	1.8	7.0	-1.0
4	1.0	1.0	1.0	3.0	3.0	0.0	2.0	5.0	2.0	0.0	1.0	0.0	-1.0	0.0	2.0	1.0	2.0	4.0	3.0	3.0	6.0	5.0	1.0	1.0	1.9	6.0	-1.0
5	0.0	3.0	1.0	0.0	1.0	2.0	2.0	2.0	1.0	1.0	-3.0	-4.0	-1.0	0.0	0.0	-1.0	-1.0	5.0	6.0	2.0	4.0	2.0	-1.0	-3.0	0.8	6.0	-4.0
6	-4.0	-3.0	-1.0	1.0	0.0	0.0	0.0	1.0	0.0	-2.0	-2.0	-5.0	-4.0	1.0	2.0	2.0	3.0	4.0	5.0	5.0	2.0	1.0	4.0	1.0	0.5	5.0	-5.0
7	-3.0	-3.0	-2.0	-4.0	-4.0	-2.0	1.0	2.0	0.0	-1.0	-1.0	-4.0	-4.0	0.0	3.0	2.0	2.0	3.0	3.0	6.0	3.0	1.0	2.0	1.0	0.0	6.0	-4.0
8	4.0	5.0	4.0	5.0	6.0	4.0	3.0	5.0	2.0	1.0	3.0	3.0	2.0	-2.0	-3.0	1.0	6.0	5.0	2.0	3.0	1.0	0.0	0.0	0.0	2.5	6.0	-3.0
9	0.0	-3.0	-1.0	3.0	1.0	-1.0	-2.0	0.0	-1.0	-4.0	-3.0	-1.0	-2.0	17.0	4.0	7.0	17.0	21.0	8.0	6.0	2.0	2.0	2.0	-1.0	3.0	21.0	-4.0
10	1.0	6.0	8.0	8.0	7.0	0.0	-1.0	2.0	2.0	1.0	1.0	1.0	0.0	1.0	2.0	-1.0	1.0	2.0	-1.0	-1.0	-1.0	0.0	2.0	4.0	1.8	8.0	-1.0
11	4.0	3.0	0.0	0.0	2.0	1.0	1.0	2.0	1.0	-3.0	-4.0	-3.0	-4.0	-4.0	1.0	2.0	0.0	3.0	4.0	4.0	5.0	5.0	2.0	2.0	1.0	5.0	-4.0
12	4.0	3.0	2.0	6.0	6.0	3.0	3.0	3.0	1.0	-1.0	-1.0	-1.0	-2.0	-1.0	-1.0	-2.0	-3.0	0.0	2.0	1.0	1.0	--	--	--	1.1	6.0	-3.0
13	--	--	--	--	--	--	--	--	2.0	-2.0	-5.0	-1.0	2.0	0.0	-3.0	0.0	0.0	-2.0	0.0	1.0	0.0	0.0	2.0	2.0	--	2.0	-5.0
14	-1.0	-2.0	0.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	0.0	0.0	1.0	1.0	-1.0	-3.0	0.0	-1.0	-2.0	-1.0	0.0	-1.0	-1.0	1.0	0.0	2.0	-3.0
15	3.0	0.0	-1.0	0.0	0.0	0.0	-1.0	0.0	-1.0	0.0	0.0	-3.0	-4.0	-2.0	-1.0	1.0	1.0	2.0	2.0	1.0	-1.0	-1.0	-1.0	0.0	-0.3	3.0	-4.0
16	1.0	1.0	-1.0	-1.0	0.0	1.0	1.0	5.0	6.0	3.0	1.0	0.0	3.0	2.0	2.0	1.0	0.0	2.0	3.0	6.0	5.0	4.0	4.0	3.0	2.2	6.0	-1.0
17	2.0	0.0	-1.0	1.0	5.0	1.0	-3.0	2.0	3.0	0.0	1.0	-1.0	-2.0	-1.0	-1.0	1.0	1.0	2.0	5.0	6.0	7.0	6.0	5.0	2.0	1.7	7.0	-3.0
18	2.0	2.0	-1.0	1.0	3.0	3.0	0.0	0.0	0.0	0.0	-3.0	-5.0	-2.0	-2.0	-4.0	-2.0	-1.0	-2.0	-3.0	-4.0	-2.0	-2.0	-3.0	-2.0	-1.1	3.0	-5.0
19	1.0	0.0	-1.0	1.0	0.0	0.0	0.0	-3.0	-1.0	-1.0	-4.0	-5.0	-4.0	-4.0	-2.0	-2.0	-4.0	-1.0	147.0	-1.0	1.0	1.0	-2.0	-2.0	4.7	147.0	-5.0
20	-3.0	-3.0	-1.0	1.0	-1.0	-4.0	-1.0	-1.0	-2.0	-4.0	-2.0	0.0	-3.0	-4.0	-4.0	-4.0	-4.0	-3.0	-3.0	-4.0	-4.0	-4.0	-1.0	-4.0	-2.6	1.0	-4.0
21	-7.0	-4.0	0.0	-1.0	-2.0	-1.0	-3.0	0.0	0.0	-2.0	-1.0	-3.0	-4.0	-2.0	-3.0	-2.0	-1.0	0.0	56.0	2.0	1.0	2.0	0.0	1.0	1.1	56.0	-7.0
22	3.0	3.0	3.0	1.0	3.0	2.0	1.0	1.0	-2.0	-1.0	-1.0	-4.0	-4.0	-4.0	-5.0	-1.0	1.0	2.0	3.0	2.0	0.0	1.0	2.0	1.0	0.3	3.0	-5.0
23	0.0	-1.0	-1.0	-2.0	-3.0	-3.0	-2.0	-3.0	-3.0	-1.0	-2.0	-3.0	-3.0	-1.0	1.0	0.0	-2.0	0.0	0.0	1.0	0.0	-2.0	1.0	3.0	-1.1	3.0	-3.0
24	0.0	1.0	1.0	0.0	2.0	0.0	0.0	3.0	3.0	0.0	-2.0	-1.0	-2.0	-1.0	-1.0	-2.0	-1.0	0.0	0.0	0.0	0.0	1.0	-1.0	-1.0	0.0	3.0	-2.0
25	1.0	0.0	-2.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	0.0	-4.0	-1.0	0.0	-2.0	-3.0	-3.0	2.0	5.0	3.0	2.0	3.0	3.0	1.0	2.0	0.3	5.0	-4.0
26	3.0	2.0	3.0	3.0	2.0	3.0	5.0	6.0	8.0	5.0	4.0	--	6.0	2.0	--	-1.0	0.0	1.0	1.0	0.0	5.0	7.0	3.0	1.0	3.1	8.0	-1.0
27	2.0	2.0	-4.0	-4.0	0.0	-1.0	-3.0	1.0	2.0	2.0	3.0	1.0	0.0	-1.0	-1.0	-1.0	0.0	2.0	-1.0	-2.0	3.0	5.0	5.0	4.0	0.6	5.0	-4.0
28	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	4.0	2.0	2.0	--	-2.0	-4.0	-1.0	0.0	1.0	3.0	4.0	4.0	3.0	2.0	3.0	3.0	1.4	4.0	-4.0
29	4.0	4.0	3.0	4.0	6.0	7.0	8.0	6.0	7.0	6.0	5.0	6.0	4.0	1.0	2.0	2.0	0.0	2.0	5.0	4.0	3.0	2.0	2.0	4.0	4.0	8.0	0.0
30	5.0	5.0	1.0	0.0	1.0	0.0	0.0	2.0	1.0	0.0	-1.0	-2.0	-2.0	-3.0	-2.0	1.0	0.0	-1.0	2.0	2.0	1.0	1.0	1.0	1.0	0.5	5.0	-3.0
Avg	1.0	1.0	0.6	0.9	1.3	0.7	0.6	1.5	1.3	0.1	-0.5	-1.4	-1.3	-0.4	-0.6	-0.2	0.6	1.8	8.5	1.8	2.0	1.7	1.1	0.8	1.0	--	--
Max	5.0	6.0	8.0	8.0	7.0	7.0	8.0	6.0	8.0	6.0	5.0	6.0	6.0	17.0	4.0	7.0	17.0	21.0	147.0	6.0	7.0	7.0	5.0	4.0	--	147.0	--
Min	-7.0	-4.0	-4.0	-4.0	-4.0	-4.0	-3.0	-4.0	-5.0	-4.0	-5.0	-5.0	-4.0	-4.0	-5.0	-4.0	-4.0	-3.0	-3.0	-4.0	-4.0	-4.0	-3.0	-4.0	--	--	-7.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"

Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-2.0	-5.0	-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.0	-5.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	1.0	-5.0	-1.0	4.0	0.0	0.0	6.0	3.0	1.0	2.0	3.0	1.0	2.0	2.0	--	6.0	-5.0
8	1.0	5.0	7.0	10.0	11.0	11.0	13.0	11.0	6.0	2.0	2.0	-1.0	-2.0	0.0	-4.0	-3.0	1.0	1.0	1.0	0.0	-1.0	2.0	3.0	-1.0	3.1	13.0	-4.0
9	-2.0	0.0	1.0	3.0	2.0	-1.0	1.0	3.0	1.0	-3.0	-1.0	0.0	0.0	1.0	-1.0	-1.0	0.0	1.0	4.0	5.0	5.0	4.0	2.0	-1.0	1.0	5.0	-3.0
10	-1.0	1.0	0.0	-3.0	-4.0	-1.0	1.0	--	--	--	--	-1.0	-4.0	-5.0	-3.0	1.0	-1.0	-2.0	-2.0	-1.0	0.0	-1.0	2.0	3.0	-1.1	3.0	-5.0
11	4.0	6.0	3.0	0.0	-1.0	-1.0	-3.0	-1.0	2.0	1.0	-1.0	-3.0	-1.0	-1.0	-1.0	0.0	2.0	3.0	3.0	3.0	1.0	0.0	-2.0	-2.0	0.5	6.0	-3.0
12	-2.0	-1.0	1.0	1.0	1.0	0.0	0.0	2.0	2.0	-1.0	-4.0	-4.0	-3.0	-3.0	--	-2.0	-3.0	-4.0	-1.0	2.0	3.0	1.0	0.0	0.0	-0.7	3.0	-4.0
13	1.0	2.0	0.0	-1.0	0.0	1.0	3.0	2.0	0.0	-1.0	1.0	2.0	1.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0	0.0	2.0	0.0	1.0	1.2	3.0	-1.0
14	0.0	-3.0	-1.0	-1.0	-3.0	-1.0	2.0	0.0	-1.0	-2.0	-1.0	0.0	-2.0	-3.0	-1.0	-2.0	-1.0	-1.0	-3.0	-3.0	-2.0	-2.0	-3.0	-4.0	-1.6	2.0	-4.0
15	-1.0	3.0	3.0	1.0	1.0	1.0	-1.0	-2.0	-2.0	-3.0	-4.0	-2.0	0.0	-1.0	-1.0	-1.0	0.0	-4.0	-2.0	2.0	0.0	-2.0	-4.0	-3.0	-0.9	3.0	-4.0
16	0.0	1.0	1.0	-2.0	-2.0	0.0	1.0	1.0	-1.0	-1.0	-2.0	-2.0	-2.0	-2.0	-3.0	-5.0	-3.0	-2.0	-1.0	0.0	3.0	5.0	1.0	0.0	-0.6	5.0	-5.0
17	1.0	0.0	1.0	3.0	3.0	0.0	2.0	4.0	4.0	2.0	-1.0	-3.0	-4.0	-4.0	-2.0	-4.0	-5.0	-4.0	-1.0	2.0	1.0	2.0	4.0	1.0	0.1	4.0	-5.0
18	0.0	-1.0	0.0	-2.0	-4.0	-2.0	-2.0	2.0	4.0	1.0	0.0	-3.0	-5.0	-4.0	-3.0	0.0	1.0	-2.0	1.0	4.0	2.0	2.0	-1.0	0.0	-0.5	4.0	-5.0
19	1.0	3.0	3.0	0.0	1.0	2.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	3.0	4.0	5.0	6.0	5.0	4.0	3.0	1.0	-1.0	-1.0	1.9	6.0	-1.0
20	-3.0	-2.0	0.0	1.0	0.0	0.0	-1.0	-1.0	2.0	-1.0	-5.0	-3.0	-4.0	--	-7.0	-7.0	-3.0	-2.0	-4.0	-3.0	-2.0	-1.0	0.0	-1.0	-2.0	2.0	-7.0
21	-2.0	0.0	-2.0	-2.0	1.0	1.0	-1.0	-2.0	-1.0	-1.0	0.0	-1.0	-3.0	-3.0	-1.0	-2.0	-1.0	-2.0	-1.0	2.0	0.0	-2.0	-3.0	-2.0	-1.2	2.0	-3.0
22	-2.0	-1.0	0.0	-1.0	-2.0	-2.0	-3.0	-3.0	-1.0	-2.0	-4.0	-5.0	-4.0	-2.0	0.0	0.0	-1.0	-2.0	-1.0	1.0	1.0	1.0	1.0	-1.0	-1.4	1.0	-5.0
23	0.0	3.0	2.0	0.0	3.0	1.0	0.0	3.0	2.0	1.0	-3.0	-4.0	0.0	-2.0	-2.0	1.0	2.0	1.0	1.0	4.0	3.0	1.0	3.0	1.0	0.9	4.0	-4.0
24	1.0	2.0	0.0	3.0	5.0	5.0	6.0	5.0	3.0	3.0	4.0	3.0	2.0	1.0	1.0	3.0	0.0	-1.0	-1.0	0.0	0.0	2.0	7.0	6.0	2.5	7.0	-1.0
25	2.0	0.0	-1.0	0.0	6.0	6.0	4.0	0.0	-1.0	-2.0	-3.0	-4.0	-4.0	0.0	-1.0	-4.0	0.0	-1.0	-2.0	-1.0	0.0	0.0	-2.0	0.0	-0.3	6.0	-4.0
26	0.0	-1.0	0.0	-4.0	-4.0	-1.0	-3.0	-4.0	-1.0	-1.0	-3.0	-2.0	-3.0	-3.0	-3.0	-4.0	-3.0	-1.0	1.0	1.0	2.0	-1.0	0.0	4.0	-1.4	4.0	-4.0
27	3.0	2.0	2.0	1.0	-1.0	0.0	2.0	3.0	2.0	2.0	2.0	-1.0	-3.0	-2.0	0.0	-1.0	0.0	3.0	2.0	0.0	1.0	2.0	3.0	3.0	1.0	3.0	-3.0
28	1.0	3.0	3.0	-1.0	0.0	1.0	1.0	2.0	3.0	2.0	2.0	0.0	-4.0	-3.0	0.0	1.0	3.0	4.0	5.0	4.0	3.0	2.0	0.0	-2.0	1.3	5.0	-4.0
29	-3.0	0.0	2.0	0.0	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-4.0	-2.0	0.0	-1.0	-4.0	-5.0	-1.0	-2.0	-2.0	-1.0	-4.0	-3.0	0.0	1.0	-1.4	2.0	-5.0
30	0.0	1.0	2.0	0.0	0.0	1.0	1.0	0.0	2.0	3.0	-1.0	-3.0	0.0	1.0	1.0	1.0	0.0	2.0	4.0	8.0	11.0	8.0	6.0	6.0	2.3	11.0	-3.0
31	5.0	2.0	1.0	2.0	-1.0	-2.0	0.0	1.0	1.0	0.0	-1.0	0.0	-1.0	0.0	2.0	2.0	4.0	4.0	5.0	7.0	6.0	5.0	4.0	3.0	2.0	7.0	-2.0
Avg	0.1	0.8	1.0	0.3	0.5	0.7	1.1	1.2	1.1	0.0	-1.1	-1.8	-1.9	-1.3	-1.2	-1.0	0.2	0.0	0.6	1.7	1.6	1.2	0.9	0.5	0.2	--	--
Max	5.0	6.0	7.0	10.0	11.0	11.0	13.0	11.0	6.0	3.0	4.0	3.0	2.0	4.0	3.0	4.0	6.0	6.0	5.0	8.0	11.0	8.0	7.0	6.0	--	13.0	--
Min	-3.0	-5.0	-3.0	-4.0	-4.0	-2.0	-3.0	-4.0	-2.0	-3.0	-5.0	-5.0	-5.0	-5.0	-7.0	-7.0	-5.0	-4.0	-4.0	-3.0	-4.0	-3.0	-4.0	-4.0	--	--	-7.0

-- Indicates Invalid Data

Appendix E: NO_2, SO_2, O_3 Data – East Plant - Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-1.2	--	-0.4	-0.4	0.5	1.5	-0.2	-0.5	-0.3	1.0	2.8	3.1	0.9	0.3	-0.8	0.4	-0.2	-0.6	-0.2	4.4	2.1	8.6	3.5	2.7	1.2	8.6	-1.2
2	3.0	--	-0.9	0.4	1.3	2.0	3.8	10.6	0.5	0.1	0.5	-0.3	-0.2	-0.5	-0.8	-0.9	-1.1	-1.3	-0.6	0.6	2.0	-0.8	0.1	1.2	0.8	10.6	-1.3
3	4.0	--	4.8	7.7	11.5	3.2	10.0	8.8	4.6	2.3	0.8	0.2	0.1	-1.2	-1.3	-1.3	-1.4	-1.1	-1.3	0.9	3.9	5.7	2.3	2.8	2.9	11.5	-1.4
4	5.4	--	5.9	5.1	3.2	0.7	8.8	3.2	1.6	0.7	1.9	0.6	-0.8	-1.2	-1.3	-1.1	-1.4	-1.5	-1.4	-1.3	-1.7	0.2	3.1	3.5	1.4	8.8	-1.7
5	4.5	--	4.2	5.0	5.3	3.3	8.1	5.5	0.4	-0.1	1.1	0.2	1.4	-0.4	-0.5	-1.4	-1.4	-1.3	-0.5	1.6	4.2	12.5	9.2	0.9	2.7	12.5	-1.4
6	5.5	--	16.5	10.3	9.9	7.7	11.8	4.2	4.6	-0.5	-0.1	-0.4	-1.2	-1.2	-1.3	-1.1	-1.2	-0.9	-0.2	1.7	4.7	6.1	7.0	3.6	3.7	16.5	-1.3
7	2.7	--	3.4	0.8	1.7	5.7	7.0	4.8	1.8	1.8	-0.8	-1.2	-0.9	-0.3	-0.3	-1.2	-1.7	-1.4	-1.3	0.2	0.6	8.8	8.5	9.7	2.1	9.7	-1.7
8	8.6	--	8.4	8.7	12.5	3.3	7.6	6.4	2.6	0.9	0.3	-0.2	-1.3	-0.9	-1.0	-1.1	-1.5	-1.6	-0.9	1.4	4.3	7.2	6.8	4.0	3.2	12.5	-1.6
9	0.1	--	24.4	10.9	7.2	6.8	6.0	6.5	2.7	0.6	0.0	3.7	1.2	0.6	0.4	0.5	--	--	--	--	--	--	--	--	--	--	--
10	--	--	1.0	3.5	4.4	3.3	3.4	6.4	2.6	-1.0	-0.9	-1.9	-1.1	-3.2	-2.6	-2.7	-3.2	-3.6	-3.3	-1.6	-1.5	-2.4	-1.6	-3.2	-0.4	6.4	-3.6
11	-2.0	--	1.5	2.3	6.3	3.5	6.0	2.5	1.7	-2.2	-3.0	-1.0	2.2	1.7	-1.1	-3.0	-2.9	-1.9	-1.8	-2.5	-2.9	-2.6	-2.5	-2.8	-0.2	6.3	-3.0
12	-2.3	--	-3.2	-3.3	-3.2	-2.9	-3.1	-2.7	-2.7	-2.6	-2.6	-2.3	-2.7	-2.0	-2.6	-2.1	-3.0	-3.2	-3.0	-3.0	-0.6	-2.4	-1.8	-2.2	-2.6	-0.6	-3.3
13	-2.1	--	0.9	7.1	6.9	4.0	3.9	-0.6	-2.1	-1.1	-1.9	-1.8	-1.9	-1.2	-1.8	-2.3	-1.9	-2.7	-2.7	-2.1	-1.9	4.4	2.7	3.2	0.2	7.1	-2.7
14	-2.0	--	-2.3	-2.7	-2.8	-2.5	-2.1	-2.4	-2.2	-0.6	-1.7	-1.7	-1.9	-2.5	-3.1	-3.2	-3.2	-3.1	-1.5	-1.0	-2.4	-2.7	-0.7	-2.7	-2.2	-0.6	-3.2
15	-1.7	--	-1.7	-2.5	-2.9	-1.7	0.8	0.1	0.7	0.7	-0.1	-1.7	-2.1	-2.5	-2.9	-1.1	-1.7	-2.4	-2.9	-2.4	2.2	6.5	4.7	7.0	-0.3	7.0	-2.9
16	7.9	--	-0.5	1.1	0.3	1.6	2.0	5.4	2.2	1.8	5.5	2.8	1.0	0.2	-0.6	-0.6	-1.5	-0.9	-0.8	1.3	3.9	1.3	-0.5	3.5	1.6	7.9	-1.5
17	0.4	--	4.8	5.9	11.4	11.9	7.4	8.3	4.6	-0.3	1.2	1.6	3.2	0.5	0.1	-0.8	-2.6	-2.7	-1.3	0.1	0.2	1.3	0.7	0.0	2.4	11.9	-2.7
18	-1.1	--	-3.1	-2.9	-1.2	3.3	8.7	9.7	3.4	3.3	2.1	0.8	-0.5	-1.0	-0.7	0.9	-0.5	-0.3	-0.7	-1.0	-1.7	-1.4	-2.2	-2.2	0.5	9.7	-3.1
19	0.6	--	-1.0	3.5	4.6	-0.3	-1.4	-1.6	-2.1	-2.8	-1.6	-0.6	0.3	-0.7	-1.3	-1.3	-1.5	-1.7	-1.0	0.1	3.3	9.2	6.1	5.1	0.6	9.2	-2.8
20	4.2	--	7.8	4.7	8.6	-0.3	4.5	0.8	-0.6	-1.9	-1.4	-0.6	-2.3	-3.0	-3.0	-2.8	-2.6	-2.9	-1.3	-2.5	4.2	13.9	7.6	2.0	1.4	13.9	-3.0
21	-1.2	--	-0.6	-2.0	-0.7	2.7	5.3	2.6	-0.5	-2.7	-1.7	-2.8	-2.9	-2.6	-3.1	-3.0	-3.3	-3.2	-2.9	-3.1	-3.1	-3.0	-2.2	-1.5	-1.5	5.3	-3.3
22	-1.2	--	-2.0	-1.8	0.0	3.5	6.3	6.6	0.3	-2.2	-1.7	-0.6	-0.8	-1.8	-1.8	-1.5	-2.6	-2.1	-2.2	-2.2	2.6	-1.1	0.9	6.1	0.0	6.6	-2.6
23	-0.2	--	2.8	-0.7	1.0	6.4	14.5	9.0	-0.1	-1.9	-1.4	-1.5	-1.5	-2.0	-1.6	-1.5	-3.1	-2.1	-0.7	1.2	2.7	3.6	-0.2	-0.6	1.0	14.5	-3.1
24	-1.5	--	1.6	0.3	0.9	1.5	6.5	12.7	2.1	0.2	0.3	-0.6	-1.5	-1.2	-1.3	-1.3	-1.6	-1.8	-1.1	-1.6	5.3	0.9	3.0	11.7	1.5	12.7	-1.8
25	6.0	--	11.1	3.9	-1.1	-1.6	3.0	0.4	-1.7	-2.2	-2.7	-1.9	-0.5	0.9	2.2	1.8	-1.7	-0.5	4.8	4.7	3.4	7.1	4.0	-2.0	1.6	11.1	-2.7
26	-2.9	--	-3.4	-3.6	-3.4	-3.1	-2.6	-2.5	-3.0	-3.0	-2.8	-2.4	-1.7	-1.5	--	--	-2.4	-2.2	-2.4	-2.8	-2.8	-2.7	-2.5	-2.3	-2.7	-1.5	-3.6
27	-1.9	--	-1.6	-1.5	-1.6	-1.3	-1.3	-1.5	-1.5	-1.5	-1.7	-1.5	-1.6	-1.6	-1.0	-1.1	-1.0	0.6	0.9	-0.1	-1.4	-1.5	-1.2	-0.7	-1.2	0.9	-1.9
28	-0.7	--	-1.3	-2.0	-1.7	-1.3	-1.2	-0.1	11.5	1.7	0.1	-0.5	-0.7	-0.9	0.3	1.1	1.3	0.8	6.3	3.8	5.4	5.6	4.4	7.1	1.7	11.5	-2.0
29	6.9	--	1.5	2.4	4.3	4.8	5.4	4.7	3.6	2.9	3.0	5.6	3.5	3.0	3.0	2.0	0.7	0.8	1.1	1.9	4.9	4.3	6.0	1.1	3.4	6.9	0.7
30	1.2	--	10.1	5.1	3.4	2.6	2.6	2.6	2.8	1.4	1.7	5.0	5.4	4.7	5.6	4.8	2.2	1.9	1.4	2.2	8.2	8.9	13.3	7.8	4.6	13.3	1.2
31	10.8	--	9.9	5.5	3.8	5.1	3.6	3.1	3.0	2.3	2.2	2.7	7.1	5.5	5.6	4.9	3.1	1.8	2.4	6.7	11.3	12.8	6.9	14.3	5.9	14.3	1.8
Avg	1.7	--	3.2	2.3	2.9	2.4	4.4	3.6	1.3	-0.2	-0.1	0.0	-0.1	-0.5	-0.6	-0.7	-1.4	-1.4	-0.6	0.2	2.0	3.6	2.8	2.6	1.1	--	--
Max	10.8	--	24.4	10.9	12.5	11.9	14.5	12.7	11.5	3.3	5.5	5.6	7.1	5.5	5.6	4.9	3.1	1.9	6.3	6.7	11.3	13.9	13.3	14.3	--	16.5	--
Min	-2.9	--	-3.4	-3.6	-3.4	-3.1	-3.1	-2.7	-3.0	-3.0	-3.0	-2.8	-2.9	-3.2	-3.1	-3.2	-3.3	-3.6	-3.3	-3.1	-3.1	-3.0	-2.5	-3.2	--	--	-3.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	9.6	--	11.4	12.9	12.6	10.5	6.7	5.6	4.0	2.9	1.8	2.0	3.7	1.7	2.1	2.0	1.1	3.8	3.3	3.4	5.7	7.3	10.0	9.9	5.8	12.9	1.1
2	9.6	--	6.7	5.3	4.4	4.3	3.6	5.3	10.1	5.6	3.4	2.7	2.4	2.0	1.5	1.5	2.5	1.2	1.4	2.0	4.2	9.7	10.2	4.3	4.5	10.2	1.2
3	6.3	--	6.9	11.0	6.1	2.9	3.0	2.1	1.8	1.2	1.6	3.5	2.5	1.2	1.3	1.4	1.7	2.4	2.2	7.4	5.4	6.6	3.3	1.7	3.6	11.0	1.2
4	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	1.9	2.1	2.8	2.9	2.0	2.6	0.8	2.1	2.2	5.2	7.2	2.0	1.4	0.7	--	--	--
6	0.2	0.3	--	0.0	0.0	1.0	1.9	2.1	2.6	1.6	3.8	5.8	3.3	4.7	10.0	3.3	0.9	0.6	0.6	1.3	3.9	4.0	7.5	6.2	2.9	10.0	0.0
7	6.8	7.3	--	1.9	1.8	3.4	3.9	4.0	2.8	3.8	4.3	4.1	3.1	1.0	0.9	1.5	0.6	1.2	3.0	5.7	3.8	4.9	7.7	6.1	3.6	7.7	0.6
8	5.5	7.1	--	5.8	4.8	7.5	10.4	16.4	12.4	7.3	5.1	1.9	1.0	1.7	3.8	2.2	1.4	2.4	0.8	0.9	1.1	2.4	2.5	3.2	4.7	16.4	0.8
9	2.5	1.7	--	1.1	1.2	1.5	1.3	1.6	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	0.9	1.4	-0.1	1.0	0.6	0.3	0.6	0.4	0.5	0.5	0.6	0.4	-0.1	-0.2	-0.2	-0.4	-0.1	0.0	-0.1	0.4	0.4	0.3	1.4	-0.4
11	0.4	1.4	--	--	-1.0	1.9	12.4	9.4	2.3	0.2	-0.3	-0.2	0.0	0.4	0.3	-0.4	-0.1	0.2	0.6	0.9	0.5	1.3	3.8	0.9	1.6	12.4	-1.0
12	-0.6	-0.8	--	-0.5	-0.6	-0.6	-0.1	1.0	1.8	2.1	0.8	0.1	0.0	0.9	1.0	0.7	-0.3	0.0	0.2	0.5	0.8	0.3	-0.1	-0.3	0.3	2.1	-0.8
13	0.5	0.6	--	0.4	0.4	0.9	1.4	1.0	1.0	2.9	2.7	2.2	1.1	1.8	1.2	1.9	1.2	3.9	3.1	0.6	1.0	1.6	1.9	2.5	1.6	3.9	0.4
14	2.8	1.0	--	1.2	1.4	1.6	3.1	2.5	2.4	3.3	4.0	2.3	1.8	1.5	0.9	3.2	1.8	2.9	2.8	1.3	1.7	1.6	1.2	1.0	2.1	4.0	0.9
15	0.5	-0.1	--	0.0	0.0	0.8	2.3	1.9	1.2	2.3	4.5	5.8	6.4	6.8	7.8	8.1	6.2	9.7	5.3	2.4	1.0	1.5	2.0	5.0	3.5	9.7	-0.1
16	1.4	1.1	--	2.5	1.5	2.4	4.9	5.3	2.8	5.2	3.4	1.8	1.5	3.7	2.3	1.7	1.0	0.7	1.0	1.6	4.9	5.6	7.8	4.3	3.0	7.8	0.7
17	5.2	6.9	--	7.4	3.9	1.1	1.2	1.5	2.7	3.8	4.0	2.1	3.4	1.0	0.6	3.2	5.2	4.5	6.3	6.3	6.3	10.4	7.2	2.1	4.2	10.4	0.6
18	2.0	6.2	--	9.1	7.1	3.3	3.1	5.0	2.0	1.2	0.7	1.3	0.7	0.1	0.2	-0.2	0.1	-0.1	2.0	5.5	6.8	12.4	10.8	6.8	3.7	12.4	-0.2
19	17.6	17.6	--	9.0	1.6	1.9	5.0	4.8	2.3	2.9	0.8	0.2	0.8	0.8	2.5	1.5	3.5	4.9	3.0	8.4	1.9	3.3	0.8	2.3	4.2	17.6	0.2
20	1.8	-0.3	--	-0.1	-0.3	0.6	1.7	1.8	1.8	1.8	3.5	4.5	1.5	0.7	1.8	-0.1	-0.5	0.2	0.6	0.7	1.6	0.4	0.6	1.1	1.1	4.5	-0.5
21	1.0	0.1	--	1.0	0.3	0.9	1.4	2.6	2.7	3.4	0.7	0.8	--	--	6.6	9.7	1.3	3.7	4.1	2.9	6.0	7.3	7.4	7.3	3.4	9.7	0.1
22	7.2	17.4	--	11.8	9.3	12.2	0.7	1.3	0.5	0.4	0.6	-0.1	0.5	0.1	0.2	1.3	4.5	0.7	1.9	6.8	3.1	5.0	-0.4	-0.7	3.7	17.4	-0.7
23	-0.1	-0.1	--	0.5	1.4	0.5	1.1	1.1	0.3	0.0	2.1	2.6	0.6	0.6	0.2	-0.4	-0.2	0.1	0.2	0.2	0.3	0.1	0.9	2.5	0.6	2.6	-0.4
24	0.6	0.2	--	0.2	0.1	0.1	0.2	0.5	1.5	0.9	0.8	0.9	0.5	0.7	0.5	0.6	1.3	3.1	3.7	1.3	0.2	1.2	1.5	1.4	1.0	3.7	0.1
25	0.7	0.0	--	0.3	0.0	3.1	1.5	0.5	1.2	3.9	1.9	0.2	0.6	0.9	1.2	0.1	1.0	3.0	3.1	3.7	10.5	8.0	2.3	9.0	2.5	10.5	0.0
26	9.6	2.5	--	10.2	3.2	7.2	14.3	13.4	9.4	3.7	3.4	4.1	4.0	2.2	1.4	1.2	4.6	2.9	5.8	6.2	4.7	2.5	1.4	0.8	5.2	14.3	0.8
27	1.2	0.2	--	-0.4	0.0	0.5	1.1	1.3	2.7	2.0	3.8	4.0	2.1	1.9	2.4	2.6	3.4	4.1	2.8	2.4	4.7	6.7	2.5	2.9	2.4	6.7	-0.4
28	1.7	1.2	--	1.2	1.0	1.2	1.5	3.9	2.4	4.8	5.6	7.6	1.7	0.5	0.1	1.6	1.2	2.0	2.1	2.2	2.5	4.3	9.4	15.5	3.3	15.5	0.1
29	15.0	10.3	--	7.9	6.7	11.7	9.8	20.8	12.4	6.0	2.7	2.3	1.7	2.2	1.6	1.0	2.5	2.8	0.1	0.5	2.3	9.2	1.5	4.7	5.9	20.8	0.1
30	1.7	10.0	--	5.1	5.8	6.3	6.7	8.1	5.7	3.2	1.0	0.1	1.5	6.3	7.8	1.2	0.9	1.8	-0.5	-0.5	2.7	6.0	9.4	5.5	4.2	10.0	-0.5
Avg	4.0	3.8	8.3	3.9	2.6	3.2	3.8	4.5	3.4	2.9	2.5	2.3	1.8	1.8	2.2	1.9	1.7	2.3	2.2	2.8	3.4	4.5	4.1	3.8	3.1	--	--
Max	17.6	17.6	11.4	12.9	12.6	12.2	14.3	20.8	12.4	7.3	5.6	7.6	6.4	6.8	10.0	9.7	6.2	9.7	6.3	8.4	10.5	12.4	10.8	15.5	--	20.8	--
Min	-0.6	-0.8	6.7	-0.5	-1.0	-0.6	-0.1	0.5	0.3	0.0	-0.3	-0.2	0.0	0.1	0.1	-0.4	-0.5	-0.2	-0.5	-0.5	0.0	-0.1	-0.4	-0.7	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.9	6.3	--	3.8	2.8	1.9	2.1	1.0	0.4	0.2	0.7	-0.1	0.9	1.5	1.5	1.7	1.2	0.6	1.0	3.9	10.7	18.7	3.6	4.8	3.2	18.7	-0.1
2	7.2	10.2	--	9.1	12.4	8.2	7.6	7.0	2.9	0.6	0.3	2.5	1.8	0.5	0.0	0.3	-0.1	0.4	1.3	2.6	5.8	1.6	1.0	6.2	3.9	12.4	-0.1
3	3.9	2.1	--	3.2	3.2	4.1	4.4	5.9	7.8	7.9	1.9	2.4	2.0	2.2	4.2	0.8	-0.3	0.6	3.2	4.8	7.6	4.5	7.3	9.0	4.0	9.0	-0.3
4	4.2	1.6	--	0.7	1.6	3.7	2.5	3.4	3.8	2.9	0.7	1.7	2.7	2.4	3.0	3.2	3.2	1.8	0.3	-0.1	0.4	3.6	2.0	3.9	2.3	4.2	-0.1
5	4.1	4.7	--	1.1	0.6	0.8	1.2	1.3	1.4	2.1	3.2	2.5	3.2	2.2	3.0	1.3	3.9	2.4	4.3	8.8	5.7	11.8	7.4	9.7	3.8	11.8	0.6
6	12.6	5.7	--	9.6	6.4	13.6	15.1	17.1	7.6	7.4	2.0	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.3	3.3	7.9	10.2	7.9	8.6	11.8	--	--	--
8	15.4	13.1	--	14.4	9.0	9.0	11.7	17.0	8.3	3.9	2.4	3.2	1.0	1.1	0.6	0.3	0.8	0.3	0.6	3.8	6.0	8.1	9.4	25.6	7.2	25.6	0.3
9	16.2	9.7	--	14.3	10.9	14.3	8.0	6.1	9.1	4.6	1.8	1.4	0.9	1.1	0.6	0.2	1.4	1.0	2.8	2.3	-0.6	-0.7	-0.2	-0.8	4.5	16.2	-0.8
10	-0.9	-0.9	--	-1.0	-1.1	-0.2	-0.1	1.0	0.3	0.8	0.5	0.8	1.1	1.2	1.2	2.9	1.1	0.1	1.1	4.4	10.4	8.4	6.0	0.9	1.6	10.4	-1.1
11	0.7	-0.8	--	-0.7	-0.6	-0.6	0.6	0.5	0.1	0.6	3.8	2.8	2.2	2.8	3.1	2.2	2.0	2.0	9.5	8.8	7.0	4.0	1.2	2.2	2.3	9.5	-0.8
12	1.1	0.7	--	0.4	1.3	4.0	7.2	4.8	4.6	3.8	0.6	0.1	1.1	-0.2	-0.4	-0.3	0.0	3.5	2.7	1.6	4.3	0.3	3.5	2.7	2.1	7.2	-0.4
13	1.2	4.6	--	2.8	2.7	2.6	1.5	4.7	5.0	3.4	0.3	0.7	0.6	1.4	0.0	0.9	0.3	1.1	2.2	2.9	2.0	2.3	1.3	-0.1	1.9	5.0	-0.1
14	0.0	-0.6	--	-1.1	-0.5	-0.5	-0.8	-0.2	-0.9	-0.7	-0.3	-0.5	-0.6	-0.1	0.3	6.1	2.6	2.2	0.6	1.3	0.0	-0.8	0.2	-0.3	0.2	6.1	-1.1
15	0.1	0.1	--	0.5	-0.3	-0.8	-0.7	-0.9	-0.8	-1.0	-0.5	-0.3	0.2	-0.3	-0.8	-0.8	0.0	-0.2	-0.9	-1.0	-0.6	0.9	0.0	1.3	-0.3	1.3	-1.0
16	1.5	0.2	--	-0.7	-0.6	-0.5	-0.6	0.9	1.1	0.3	0.4	0.3	0.2	0.7	1.1	2.1	1.4	1.8	3.6	2.5	5.5	4.5	4.6	5.5	1.6	5.5	-0.7
17	5.4	5.9	--	5.2	3.7	4.3	2.5	2.1	6.4	3.7	0.7	0.7	3.2	3.8	1.7	1.3	2.8	8.7	3.6	6.2	4.8	2.4	1.6	1.0	3.6	8.7	0.7
18	0.6	1.7	--	-0.2	1.1	1.8	2.4	5.5	3.7	2.0	0.7	0.7	0.5	1.3	1.7	1.0	2.6	1.5	-0.1	-0.4	-0.6	-0.6	-0.4	-0.4	1.1	5.5	-0.6
19	-0.4	0.8	--	-0.4	-0.1	0.3	0.7	2.2	2.0	3.1	1.5	1.2	1.6	2.0	1.8	2.0	2.1	2.5	2.7	3.4	3.3	1.6	-0.4	-0.7	1.4	3.4	-0.7
20	0.6	-0.5	--	-1.0	-0.9	-0.8	-0.3	0.1	0.1	1.2	1.7	1.8	2.1	0.8	0.4	0.3	0.6	0.4	0.2	-0.5	-0.3	-0.3	-0.5	-0.5	0.2	2.1	-1.0
21	-0.1	-0.2	--	-0.1	0.4	0.4	1.2	0.8	2.8	2.1	0.8	1.0	1.7	2.1	1.3	1.5	2.3	2.6	2.1	0.8	1.6	1.9	1.2	0.9	1.3	2.8	-0.2
22	0.2	0.4	--	0.9	0.4	1.2	0.5	0.3	1.6	1.7	1.5	-0.3	-0.1	0.1	0.1	-0.4	-0.2	-0.2	-0.1	1.2	-0.5	-0.8	-0.8	-0.5	0.3	1.7	-0.8
23	-0.6	-0.7	--	-0.7	-0.8	-0.7	-0.7	-0.6	0.0	0.6	-0.1	-0.4	--	--	--	--	--	--	--	0.1	0.4	-0.1	0.0	0.3	--	--	--
24	0.0	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	6.0	--	--	2.1	3.1	1.1	0.5	0.3	0.1	0.9	1.2	1.6	1.6	2.2	3.3	--	--	--
28	2.5	1.2	1.0	0.3	0.0	0.0	1.2	5.6	4.4	2.9	5.0	2.7	2.7	2.8	1.6	1.2	1.0	0.3	0.9	0.8	0.4	3.3	0.9	-0.4	1.8	5.6	-0.4
29	-0.6	-0.1	0.4	-0.2	0.2	0.9	1.5	0.7	0.9	0.7	0.4	1.4	1.7	-0.4	-0.7	-0.8	-0.9	-0.4	0.0	0.0	0.4	0.4	0.8	0.8	0.3	1.7	-0.9
30	1.0	1.1	1.5	0.8	0.3	--	--	0.7	0.3	1.0	0.2	0.5	1.6	1.9	1.5	0.3	0.0	--	--	4.2	2.7	2.6	0.3	-0.5	1.1	4.2	-0.5
31	-0.5	-0.8	-0.2	-0.8	-0.8	-0.7	-0.7	-0.2	-0.1	0.0	-0.3	0.0	-0.1	-0.1	0.0	0.3	0.9	2.1	2.7	1.8	0.8	0.4	0.8	0.5	0.2	2.7	-0.8
Avg	3.0	2.4	0.7	2.3	2.0	2.7	2.7	3.3	2.8	2.3	1.2	1.1	1.4	1.4	1.1	1.1	1.2	1.5	1.9	2.7	3.3	3.2	2.3	3.2	2.1	--	--
Max	16.2	13.1	1.5	14.4	12.4	14.3	15.1	17.1	9.1	7.9	5.0	3.2	3.2	3.8	4.2	6.1	3.9	8.7	9.5	8.8	10.7	18.7	9.4	25.6	--	25.6	--
Min	-0.9	-0.9	-0.2	-1.1	-1.1	-0.8	-0.8	-0.9	-0.9	-1.0	-0.5	-0.5	-0.6	-0.4	-0.8	-0.8	-0.9	-0.4	-0.9	-1.0	-0.6	-0.8	-0.8	-0.8	--	--	-1.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	-0.3	-0.2	-0.2	0.2	-0.1	-0.2	-0.2	-0.1	0.0	0.1	0.5	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	0.2	-0.1	0.5	-0.3
2	--	0.3	-0.1	0.2	0.5	0.8	0.7	0.6	0.1	0.0	-0.1	0.0	0.5	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.8	-0.1
3	--	0.0	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.1	0.1	0.2	0.0	-0.1	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	0.2	-0.3
4	--	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	0.9	1.3	3.6	2.0	0.0	-0.2	-0.2	-0.2	-0.2	-0.3	-0.2	-0.1	-0.1	-0.1	-0.1	0.2	3.6	-0.3
5	--	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	2.6	5.6	2.0	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	0.3	5.6	-0.3
6	--	-0.3	-0.2	-0.2	-0.2	-0.1	0.5	0.2	1.0	3.8	4.4	3.7	1.3	0.4	0.1	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.6	4.4	-0.3
7	--	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	5.3	4.9	1.0	0.9	1.9	3.9	3.8	2.0	0.5	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	1.0	5.3	-0.1
8	--	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	1.4	2.1	0.7	2.1	1.3	0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	2.1	-0.1
9	--	-0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.9	0.7	0.6	1.5	2.2	2.1	1.3	--	--	--	--	--	--	--	--	--	--	--	--
10	--	0.1	0.0	0.1	0.2	0.6	0.4	0.3	0.3	0.2	0.3	0.9	1.1	1.6	1.8	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.4	1.8	0.0
11	--	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	1.8	1.0	0.4	1.0	0.7	1.7	21.3	19.7	0.7	2.1	0.5	0.4	0.4	0.4	0.4	0.5	2.3	21.3	-0.1
12	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.2
13	--	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.2
14	--	0.2	0.4	0.6	0.6	1.9	2.5	1.7	3.2	2.0	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.8	3.2	0.2
15	--	0.4	0.3	0.3	0.3	0.3	0.7	1.8	1.4	0.4	0.3	0.3	0.5	0.6	0.6	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	1.8	0.3
16	--	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.9	2.4	5.0	3.7	1.9	1.0	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.5	1.0	5.0	0.4
17	--	0.4	0.4	0.4	0.5	0.4	0.4	0.5	4.0	4.1	3.4	4.4	1.6	1.0	0.5	0.4	0.5	0.5	0.4	0.4	0.6	0.5	0.5	0.5	1.1	4.4	0.4
18	--	0.3	0.4	0.4	0.4	0.4	0.5	0.6	20.7	0.6	0.7	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	1.3	20.7	0.3
19	--	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.3	2.4	1.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	2.4	0.3
20	--	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.5	2.5	1.9	0.8	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.6	2.5	0.4
21	--	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.7	2.1	1.8	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.7	0.6	2.1	0.3
22	--	0.5	0.5	0.3	0.4	0.4	0.5	0.5	0.5	1.3	1.7	3.8	2.5	2.1	1.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.9	3.8	0.3
23	--	0.5	0.5	0.4	0.4	0.4	0.5	1.5	2.9	1.7	1.0	1.4	1.6	1.8	1.2	0.6	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.9	2.9	0.4
24	--	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.5	0.5	0.5	0.6	0.6	0.8	0.7	0.8	0.8	0.7	0.6	0.6	0.7	0.6	0.8	0.4
25	--	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.4
26	--	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.8	--	--	0.4	0.4	0.3	0.4	0.5	1.2	0.9	1.4	0.5	1.4	0.3
27	--	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.8	1.4	0.5	1.4	0.4
28	--	2.0	2.2	1.9	2.7	1.5	1.6	1.3	2.3	0.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	1.0	2.7	0.4
29	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	1.1	1.0	0.8	0.7	0.7	0.7	0.7	0.6	0.5	0.6	0.6	1.1	0.4
30	--	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.9	1.8	1.1	1.5	2.0	1.2	1.0	0.8	0.7	0.6	0.6	0.6	0.8	0.6	0.8	2.0	0.4
31	--	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.4	0.6	1.1	1.2	3.6	2.2	2.4	2.3	1.7	1.5	1.4	1.3	1.2	1.1	0.8	0.7	1.2	3.6	0.4
Avg	--	0.3	0.3	0.3	0.3	0.4	0.4	0.4	1.6	1.0	1.0	1.4	1.1	1.0	1.5	1.2	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.7	--	--
Max	--	2.0	2.2	1.9	2.7	1.9	2.5	1.8	20.7	4.9	4.4	5.6	5.0	3.9	21.3	19.7	1.8	2.1	1.4	1.3	1.2	1.2	0.9	1.4	--	21.3	--
Min	--	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	-0.1	0.0	0.0	-0.1	-0.3	-0.2	-0.2	-0.2	-0.3	-0.2	-0.3	-0.3	-0.2	-0.2	--	--	-0.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.5	0.5	0.4	0.5	0.5	0.4	0.6	0.8	2.6	1.0	0.5	0.7	0.8	0.9	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.8	0.7	2.6	0.4
2	--	0.6	0.5	0.6	0.5	0.6	0.6	0.6	1.2	0.9	0.7	1.1	1.1	1.1	1.5	1.6	1.6	1.3	1.2	1.1	0.9	0.9	0.8	0.8	0.9	1.6	0.5
3	--	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	1.2	2.3	1.3	2.5	1.8	1.3	1.3	0.9	0.8	0.8	0.7	0.6	0.6	0.6	1.0	2.5	0.6
4	--	0.4	0.5	0.6	0.5	0.6	0.5	0.5	0.7	0.5	0.5	0.7	0.8	0.8	1.1	1.1	0.9	0.8	0.6	0.6	0.6	0.4	0.3	0.4	0.6	1.1	0.3
5	0.5	--	0.5	0.5	0.4	0.4	0.5	0.3	0.4	0.4	0.5	0.8	1.1	1.3	1.0	0.9	0.8	0.6	0.5	0.5	0.4	0.3	0.4	0.4	0.6	1.3	0.3
6	0.6	--	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	1.5	1.1	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	1.5	0.3
7	0.6	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.6	2.4	0.9	0.7	0.8	0.8	0.8	0.9	1.3	1.4	1.0	1.3	1.3	1.0	0.9	0.9	2.4	0.4
8	1.3	--	0.8	0.8	0.8	0.8	0.8	0.9	1.2	2.2	3.8	2.3	0.8	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.9	3.8	0.4
9	0.8	--	0.9	0.8	0.6	0.5	0.5	0.5	0.6	--	--	0.4	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.9	0.2
10	0.4	--	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.2
11	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.6	2.1	0.7	0.3	2.1	0.1
12	0.7	--	1.7	2.0	2.1	1.1	1.1	2.7	1.9	0.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.9	0.5	0.4	0.4	0.9	2.7	0.3
13	0.6	--	0.5	0.8	1.9	2.7	2.9	2.7	1.6	2.0	2.5	1.5	0.5	0.7	0.7	0.8	1.0	0.7	0.8	0.4	0.4	1.2	2.4	4.0	1.4	4.0	0.4
14	2.6	--	3.6	2.8	3.8	4.7	1.7	1.8	2.5	1.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.1	1.4	4.7	0.3
15	0.9	--	1.5	2.2	2.2	1.5	2.3	2.7	2.6	1.7	0.9	0.9	0.9	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.8	1.2	2.7	0.5
16	2.3	--	0.7	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.7	0.9	2.1	4.4	4.1	2.4	1.3	1.6	1.9	1.6	1.3	1.1	1.1	1.1	1.4	4.4	0.5
17	1.0	--	0.7	0.6	0.6	0.7	0.8	0.8	1.0	1.0	1.4	1.2	1.3	0.9	0.6	0.7	1.1	2.0	1.1	1.2	1.8	1.9	1.7	1.2	1.1	2.0	0.6
18	0.9	--	0.7	0.7	0.8	0.9	1.3	1.8	1.3	2.2	2.1	2.3	2.3	2.1	1.1	1.2	0.7	0.6	0.4	0.5	0.4	0.3	0.4	0.4	1.1	2.3	0.3
19	0.5	--	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.7	0.5	0.8	0.9	1.4	1.6	1.6	1.4	1.2	1.2	2.1	1.5	1.1	2.2	1.0	2.2	0.4
20	5.9	--	0.9	0.8	0.6	1.9	4.1	6.3	3.2	1.4	1.2	1.0	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.8	0.8	1.5	6.3	0.4
21	0.8	--	2.7	2.0	3.6	4.4	3.3	2.7	2.6	2.5	0.9	0.6	0.8	12.7	0.9	0.9	0.9	0.9	0.8	0.9	0.7	0.7	0.7	0.7	2.1	12.7	0.6
22	0.8	--	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.7	0.6	0.5	0.3	0.4	0.4	0.5	0.5	0.8	0.3
23	0.9	--	0.9	0.8	1.0	0.9	0.7	0.7	0.9	1.6	3.0	2.3	1.0	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.9	3.0	0.4
24	0.6	--	0.4	0.4	0.5	0.4	0.2	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.8	0.5	0.8	0.2
25	0.9	--	1.1	0.8	0.6	0.8	0.8	0.9	1.1	2.0	2.2	0.9	0.9	2.0	1.8	1.7	1.5	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.2	2.2	0.6
26	1.2	--	1.3	1.3	1.2	1.1	1.1	1.0	0.9	2.0	2.8	2.6	3.1	2.4	3.0	3.3	2.7	2.2	1.9	1.7	1.5	1.3	1.0	1.0	1.8	3.3	0.9
27	1.0	--	0.6	0.6	0.7	1.0	1.5	3.5	4.0	5.1	1.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	1.0	2.3	1.3	5.1	0.6
28	2.4	--	1.3	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.9	1.5	2.2	2.1	1.7	1.1	1.0	0.7	0.7	0.6	1.0	2.4	0.6
29	0.7	--	0.9	0.6	0.8	0.8	0.8	1.0	0.8	1.0	0.9	1.0	1.0	1.0	1.1	1.4	1.4	1.1	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.4	0.6
30	0.9	--	0.6	0.2	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.9	1.5	2.3	1.6	1.1	1.3	1.3	1.1	1.2	1.0	0.9	0.9	2.3	0.2
Avg	1.2	0.6	0.9	0.8	0.9	1.0	1.0	1.2	1.2	1.3	1.2	1.0	0.9	1.4	1.0	1.0	0.9	0.9	0.8	0.7	0.8	0.7	0.8	0.9	1.0	--	--
Max	5.9	0.7	3.6	2.8	3.8	4.7	4.1	6.3	4.0	5.1	3.8	2.6	3.1	12.7	4.1	3.3	2.7	2.2	1.9	1.7	2.1	1.9	2.4	4.0	--	12.7	--
Min	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	--	--	0.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.8	--	0.7	0.6	0.4	0.6	0.7	0.7	0.7	0.8	0.8	1.0	1.1	1.6	1.7	2.6	3.0	1.9	1.5	1.3	1.6	1.9	1.8	1.4	1.3	3.0	0.4
2	1.4	--	0.8	0.7	1.0	1.4	1.3	1.5	2.0	4.8	5.6	5.6	2.8	3.2	3.1	3.9	3.7	2.5	2.1	2.0	2.0	1.2	0.7	0.7	2.3	5.6	0.7
3	0.7	--	0.7	0.6	0.8	0.9	0.8	0.7	0.8	0.9	2.4	7.2	7.8	7.8	4.1	1.8	0.9	0.8	0.8	0.7	0.6	0.7	0.7	0.6	1.9	7.8	0.6
4	0.8	--	0.8	0.7	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.5
5	0.7	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	1.0	0.5
6	0.8	--	0.7	0.8	0.9	0.9	0.9	0.8	0.7	0.7	2.8	3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	0.7	0.6	0.6	0.6	0.6	0.3	0.4	0.6	0.6	0.6	0.5	0.5	0.6	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	0.5	0.5	0.8	1.4	2.1	2.3	1.9	1.6	1.0	0.7	0.6	0.5	--	--	--
12	0.5	--	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.5	0.6	0.8	1.1	1.2	0.9	1.0	1.5	1.9	1.9	1.3	0.9	0.7	0.9	1.9	0.5
13	1.2	--	1.5	1.6	1.4	1.1	1.0	1.1	1.2	1.5	1.7	1.6	2.5	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	1.1	2.5	0.6
14	0.8	--	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.8	0.5
15	0.9	--	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	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	0.9	0.6
16	0.7	--	0.6	0.6	0.6	0.6	0.7	0.7	0.6	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	0.5	0.6	0.7	0.5
17	0.6	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	1.0	1.0	2.5	2.7	1.8	1.2	1.3	1.0	1.1	1.0	1.3	3.0	4.4	3.6	1.4	4.4	0.5
18	2.4	--	1.3	0.9	0.8	0.7	0.8	0.9	1.5	1.1	1.0	0.9	0.8	0.9	1.2	1.4	1.3	1.1	1.0	0.9	1.0	0.9	0.8	0.7	1.1	2.4	0.7
19	0.7	--	0.8	0.8	0.7	0.7	0.7	0.8	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	0.6	0.6	0.8	0.5
20	0.9	--	0.7	0.6	0.9	0.6	0.4	0.5	0.6	1.1	1.2	0.7	0.6	0.5	0.4	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2	0.4
21	0.5	--	0.4	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.1	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.1
22	0.5	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.8	0.9	1.0	1.3	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.6	1.3	0.4
23	0.6	--	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.7	--	--	--	--	--	--	--	1.6	1.4	0.8	0.6	0.7	--	--	--
24	1.1	--	1.7	1.4	1.3	1.0	0.9	0.8	0.8	0.8	1.4	1.8	1.5	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.8	0.7
25	0.7	--	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	2.3	1.3	1.5	1.5	1.8	1.2	2.1	2.4	1.9	1.1	2.4	0.6
26	1.4	--	1.3	1.8	1.8	1.2	0.8	0.7	0.8	0.7	0.6	0.7	0.8	1.4	1.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	1.0	1.8	0.6
27	0.7	--	0.6	0.6	0.7	0.7	0.7	0.7	0.7	1.0	1.4	2.5	1.3	0.9	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.9	2.5	0.6
28	0.7	1.4	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.9	1.5	1.1	1.7	2.4	2.2	1.4	0.8	1.6	1.3	1.2	1.1	2.4	0.6
29	1.2	3.1	3.9	3.8	4.8	3.5	2.3	1.3	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.6	1.4	4.8	0.6
30	0.7	0.8	0.7	0.8	0.9	--	--	0.9	1.5	1.6	1.3	1.4	3.4	4.7	2.7	1.0	0.8	--	--	0.8	0.7	0.7	0.7	0.7	1.3	4.7	0.7
31	0.7	--	0.7	0.7	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	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.8	0.6
Avg	0.9	1.8	0.9	0.9	0.9	0.8	0.8	0.7	0.8	0.9	1.1	1.4	1.3	1.3	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	--	--
Max	2.4	3.1	3.9	3.8	4.8	3.5	2.3	1.5	2.0	4.8	5.6	7.2	7.8	7.8	4.1	3.9	3.7	2.5	2.2	2.0	2.0	3.0	4.4	3.6	--	7.8	--
Min	0.5	0.8	0.4	0.5	0.4	0.5	0.4	0.3	0.4	0.4	0.1	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	0.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.041	0.041	0.041	0.041	0.042	0.043	0.044	0.046	0.047	0.049	0.050	0.050	0.050	0.049	0.048	0.046	0.045	0.044	0.042	0.042	0.042	0.041	0.042	0.042	0.044	0.050	0.041
2	0.041	0.041	0.042	0.043	0.044	0.046	0.048	0.050	0.052	0.054	0.055	0.056	0.056	0.056	0.057	0.057	0.057	0.057	0.055	0.055	0.053	0.051	0.049	0.046	0.051	0.057	0.041
3	0.043	0.041	0.041	0.042	0.043	0.044	0.046	0.048	0.050	0.052	0.053	0.053	0.053	0.052	0.050	0.049	0.048	0.046	0.045	0.043	0.042	0.041	0.041	0.040	0.046	0.053	0.040
4	0.039	0.039	0.040	0.041	0.042	0.044	0.045	0.047	0.048	0.049	0.049	0.049	0.048	0.047	0.047	0.046	0.044	0.042	0.041	0.041	0.039	0.037	0.035	0.033	0.043	0.049	0.033
5	0.032	0.032	0.032	0.033	0.035	0.036	0.037	0.039	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.039	0.038	0.037	0.035	0.033	0.031	0.030	0.030	0.029	0.036	0.042	0.029
6	0.028	0.028	0.030	0.031	0.033	0.035	0.037	0.039	0.041	0.042	0.043	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.033	0.034	0.034	0.035	0.035	0.036	0.043	0.028
7	0.035	0.036	0.036	0.037	0.037	0.038	0.040	0.041	0.043	0.043	0.044	0.044	0.043	0.042	0.040	0.038	0.036	0.035	0.033	0.032	0.031	0.030	0.031	0.032	0.037	0.044	0.030
8	0.032	0.033	0.034	0.035	0.036	0.038	0.039	0.040	0.042	0.043	0.044	0.044	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.035	0.033	0.031	0.030	0.029	0.037	0.044	0.029
9	0.027	0.027	0.027	0.029	0.031	0.033	0.033	0.035	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	0.027	0.028	0.029	0.030	0.031	0.033	0.035	0.037	0.040	0.042	0.043	0.044	0.044	0.043	0.043	0.043	0.040	0.038	0.037	0.034	0.032	0.029	0.026	0.036	0.044	0.026
11	0.024	0.023	0.024	0.025	0.026	0.027	0.028	0.030	0.032	0.033	0.033	0.032	0.031	0.030	0.029	0.029	0.028	0.028	0.028	0.028	0.030	0.031	0.031	0.032	0.029	0.033	0.023
12	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.035	0.036	0.037	0.037	0.038	0.038	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.034	0.033	0.031	0.030	0.035	0.038	0.030
13	0.029	0.029	0.030	0.031	0.033	0.035	0.037	0.039	0.040	0.041	0.041	0.042	0.042	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.037	0.036	0.036	0.036	0.037	0.043	0.029
14	0.037	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.041	0.042	0.043	0.043	0.042	0.042	0.041	0.040	0.040	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.043	0.037
15	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.046	0.045	0.044	0.043	0.042	0.041	0.040	0.039	0.039	0.039	0.038	0.041	0.046	0.037
16	0.037	0.037	0.037	0.038	0.038	0.040	0.041	0.043	0.046	0.048	0.049	0.050	0.051	0.050	0.050	0.049	0.049	0.048	0.047	0.047	0.045	0.043	0.040	0.038	0.044	0.051	0.037
17	0.036	0.034	0.034	0.035	0.036	0.038	0.040	0.042	0.044	0.046	0.047	0.047	0.048	0.048	0.048	0.049	0.048	0.048	0.047	0.047	0.047	0.046	0.045	0.043	0.044	0.049	0.034
18	0.040	0.037	0.035	0.035	0.034	0.034	0.034	0.036	0.038	0.041	0.045	0.047	0.048	0.049	0.050	0.051	0.050	0.049	0.047	0.046	0.045	0.043	0.042	0.041	0.042	0.051	0.034
19	0.040	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.042	0.044	0.046	0.048	0.050	0.051	0.051	0.050	0.049	0.048	0.046	0.044	0.041	0.039	0.039	0.037	0.043	0.051	0.037
20	0.038	0.038	0.040	0.041	0.042	0.044	0.044	0.045	0.046	0.046	0.046	0.046	0.046	0.045	0.043	0.043	0.042	0.041	0.038	0.037	0.034	0.032	0.031	0.029	0.041	0.046	0.029
21	0.025	0.024	0.024	0.024	0.025	0.026	0.027	0.029	0.030	0.031	0.031	0.030	0.030	0.029	0.028	0.028	0.027	0.027	0.026	0.026	0.026	0.025	0.024	0.022	0.027	0.031	0.022
22	0.021	0.020	0.020	0.021	0.022	0.023	0.024	0.026	0.029	0.031	0.032	0.034	0.035	0.035	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025	0.024	0.022	0.027	0.035	0.020
23	0.022	0.022	0.023	0.024	0.024	0.026	0.028	0.031	0.034	0.035	0.037	0.038	0.038	0.038	0.037	0.038	0.037	0.037	0.036	0.036	0.036	0.036	0.035	0.034	0.032	0.038	0.022
24	0.032	0.031	0.031	0.032	0.033	0.034	0.035	0.038	0.042	0.044	0.047	0.049	0.050	0.050	0.051	0.050	0.047	0.045	0.042	0.040	0.038	0.038	0.038	0.038	0.041	0.051	0.031
25	0.039	0.041	0.043	0.043	0.045	0.045	0.045	0.046	0.047	0.048	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.043	0.042	0.041	0.041	0.041	0.041	0.041	0.044	0.048	0.039
26	0.041	0.041	0.041	0.041	0.041	0.041	0.042	0.042	0.043	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.044	0.043	0.042	0.042	0.041	0.040	0.038	0.037	0.042	0.045	0.037
27	0.036	0.035	0.035	0.035	0.036	0.037	0.038	0.039	0.041	0.042	0.043	0.043	0.044	0.044	0.044	0.043	0.043	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.044	0.035
28	0.039	0.038	0.038	0.038	0.039	0.039	0.040	0.042	0.043	0.045	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.041	0.041	0.040	0.039	0.038	0.038	0.042	0.046	0.038
29	0.038	0.038	0.038	0.039	0.039	0.040	0.041	0.041	0.042	0.043	0.044	0.045	0.046	0.046	0.046	0.046	0.047	0.046	0.044	0.043	0.041	0.040	0.040	0.039	0.042	0.047	0.038
30	0.038	0.037	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.047	0.048	0.050	0.051	0.050	0.049	0.048	0.047	0.044	0.041	0.039	0.038	0.038	0.038	0.038	0.043	0.051	0.037
31	0.038	0.039	0.040	0.041	0.041	0.041	0.041	0.042	0.043	0.045	0.046	0.046	0.047	0.046	0.045	0.043	0.040	0.038	0.035	0.032	0.029	0.028	0.027	0.026	0.039	0.047	0.026
Avg	0.035	0.034	0.034	0.035	0.036	0.037	0.038	0.040	0.041	0.043	0.044	0.045	0.045	0.044	0.044	0.043	0.042	0.041	0.040	0.039	0.037	0.037	0.036	0.035	0.039	--	--
Max	0.043	0.041	0.043	0.043	0.045	0.046	0.048	0.050	0.052	0.054	0.055	0.056	0.056	0.056	0.057	0.057	0.057	0.057	0.055	0.055	0.053	0.051	0.049	0.046	--	0.057	--
Min	0.021	0.020	0.020	0.021	0.022	0.023	0.024	0.026	0.029	0.031	0.031	0.030	0.030	0.029	0.028	0.028	0.027	0.027	0.026	0.026	0.026	0.025	0.024	0.022	--	--	0.020

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.027	0.028	0.030	0.031	0.033	0.035	0.036	0.037	0.038	0.039	0.039	0.040	0.040	0.039	0.038	0.037	0.036	0.034	0.034	0.033	0.032	0.032	0.033	0.033	0.035	0.040	0.027
2	0.034	0.034	0.034	0.035	0.036	0.037	0.038	0.039	0.041	0.042	0.043	0.044	0.044	0.043	0.041	0.039	0.038	0.037	0.035	0.034	0.032	0.032	0.032	0.033	0.037	0.044	0.032
3	0.032	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.041	0.042	0.043	0.043	0.043	0.041	0.040	0.040	0.039	0.038	0.037	0.036	0.036	0.037	0.037	0.038	0.043	0.032
4	0.037	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.041	0.043	0.044	0.044	0.045	0.044	0.044	0.043	0.042	0.041	0.040	0.039	0.039	0.038	0.038	0.038	0.040	0.045	0.035
5	0.039	0.039	0.039	0.039	0.039	0.040	0.041	0.042	0.044	0.045	0.045	0.046	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.037	0.038	0.038	0.038	0.041	0.046	0.037
6	0.038	0.038	0.038	0.039	0.039	0.039	0.040	0.040	0.041	0.043	0.043	0.044	0.045	0.044	0.043	0.042	0.041	0.040	0.038	0.038	0.037	0.037	0.036	0.036	0.040	0.045	0.036
7	0.036	0.036	0.036	0.037	0.037	0.038	0.039	0.040	0.042	0.043	0.044	0.045	0.045	0.045	0.045	0.044	0.043	0.043	0.041	0.040	0.039	0.038	0.037	0.037	0.041	0.045	0.036
8	0.035	0.034	0.034	0.035	0.037	0.038	0.040	0.041	0.044	0.045	0.045	0.045	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.035	0.035	0.034	0.034	0.034	0.039	0.045	0.034
9	0.034	0.035	0.035	--	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.034	0.033	0.033	0.032	0.032	0.032	0.032	0.032	0.034	0.035	0.037	0.034	0.037	0.032
10	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.042	0.041	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.036	0.040	0.042	0.036
11	0.035	0.034	0.034	0.034	0.035	0.035	0.036	0.038	0.040	0.041	0.041	0.041	0.040	0.039	0.037	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.038	0.039	0.037	0.041	0.034
12	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.041	0.042	0.043	0.043	0.043	0.042	0.042	0.041	0.041	0.040	0.039	0.039	0.039	0.038	0.038	0.038	0.040	0.043	0.038
13	0.037	0.037	0.036	0.036	0.037	0.038	0.038	0.039	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.038	0.038	0.037	0.037	0.036	0.036	0.039	0.041	0.036
14	0.036	0.036	0.035	0.036	0.036	0.036	0.037	0.038	0.038	0.039	0.040	0.040	0.040	0.041	0.041	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.039	0.039	0.041	0.035
15	0.039	0.039	0.038	0.037	0.037	0.036	0.035	0.035	0.034	0.034	0.033	0.033	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.033	0.035	0.039	0.033
16	0.033	0.032	0.032	0.032	0.033	0.034	0.035	0.037	0.039	0.040	0.042	0.043	0.043	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.036	0.036	0.036	0.036	0.038	0.043	0.032
17	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.033	0.032	0.032	0.032	0.031	0.031	0.030	0.029	0.029	0.028	0.033	0.036	0.028
18	0.027	0.027	0.028	0.029	0.029	0.031	0.032	0.033	0.035	0.036	0.036	0.036	0.035	0.034	0.032	0.031	0.029	0.027	0.025	0.023	0.023	0.023	0.024	0.024	0.030	0.036	0.023
19	0.024	0.026	0.028	0.030	0.031	0.032	0.033	0.035	0.037	0.038	0.038	0.038	0.037	0.036	0.036	0.035	0.034	0.034	0.033	0.033	0.034	0.034	0.034	0.034	0.033	0.038	0.024
20	0.034	0.034	0.034	0.034	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.037	0.041	0.034
21	0.035	0.034	0.034	0.035	0.035	0.035	0.035	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.033	0.033	0.034	--	--	--
22	0.034	0.034	0.035	0.036	0.037	0.039	0.041	0.042	0.044	0.046	0.047	0.048	0.047	0.047	0.045	0.044	0.043	0.043	0.041	0.040	0.040	0.040	0.040	0.039	0.041	0.048	0.034
23	0.039	0.039	0.039	0.040	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.043	0.042	0.042	0.041	0.041	0.040	0.039	0.039	0.038	0.037	0.037	0.037	0.037	0.040	0.043	0.037
24	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.039	0.038	0.038	0.037	0.037	0.038	0.037	0.037	0.037	0.037	0.038	0.040	0.037
25	0.037	0.037	0.037	0.037	0.037	0.038	0.039	0.040	0.041	0.042	0.044	0.044	0.044	0.043	0.042	0.042	0.040	0.039	0.038	0.037	0.037	0.038	0.037	0.036	0.039	0.044	0.036
26	0.035	0.034	0.034	0.035	0.035	0.036	0.037	0.039	0.042	0.044	0.045	0.045	0.045	0.045	0.044	0.043	0.042	0.041	0.040	0.040	0.040	0.040	0.039	0.039	0.040	0.045	0.034
27	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.039	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.038	0.037	0.038	0.040	0.037
28	0.037	0.036	0.036	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.040	0.041	0.041	0.041	0.041	0.040	0.038	0.035	0.033	0.030	0.029	0.027	0.026	0.025	0.035	0.041	0.025
29	0.025	0.025	0.026	0.029	0.031	0.033	0.035	0.038	0.041	0.044	0.045	0.046	0.046	0.045	0.044	0.043	0.042	0.041	0.039	0.037	0.036	0.034	0.033	0.031	0.037	0.046	0.025
30	0.030	0.028	0.029	0.030	0.031	0.032	0.032	0.033	0.035	0.036	0.037	0.038	0.038	0.038	0.037	0.036	0.035	0.034	0.033	0.032	0.030	0.030	0.030	0.031	0.033	0.038	0.028
Avg	0.035	0.034	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.037	0.037	0.036	0.035	0.035	0.035	0.035	0.037	--	--
Max	0.039	0.039	0.039	0.040	0.040	0.040	0.041	0.042	0.044	0.046	0.047	0.048	0.047	0.047	0.045	0.044	0.043	0.043	0.041	0.040	0.040	0.040	0.040	0.039	--	0.048	--
Min	0.024	0.025	0.026	0.029	0.029	0.031	0.032	0.033	0.034	0.034	0.033	0.033	0.034	0.034	0.032	0.031	0.029	0.027	0.025	0.023	0.023	0.023	0.024	0.024	--	--	0.023

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.031	0.031	0.032	0.033	0.033	0.034	0.035	0.037	0.038	0.040	0.041	0.042	0.041	0.040	0.038	0.038	0.037	0.035	0.034	0.032	0.031	0.031	0.032	0.031	0.035	0.042	0.031
2	0.031	0.031	0.032	0.033	0.034	0.035	0.036	0.038	0.039	0.040	0.041	0.041	0.042	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.037	0.038	0.037	0.036	0.037	0.042	0.031
3	0.036	0.035	0.034	0.034	0.035	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.038	0.037	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.036	0.041	0.033
4	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.035	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.038	0.037	0.036	0.035	0.034	0.034	0.033	0.034	0.034	0.035	0.039	0.033
5	0.034	0.035	0.036	0.036	0.036	0.037	0.037	0.038	0.038	0.039	0.039	0.039	0.038	0.038	0.037	0.036	0.034	0.033	0.033	0.032	0.032	0.032	0.032	0.031	0.036	0.039	0.031
6	0.029	0.029	0.029	0.030	0.032	0.032	0.034	0.035	0.038	0.039	0.040	0.040	0.040	0.039	0.039	0.039	0.039	0.038	0.037	0.036	0.036	0.036	0.035	0.034	0.036	0.040	0.029
7	0.034	0.033	0.034	0.035	0.035	0.037	0.038	0.039	0.040	0.042	0.043	0.042	0.041	0.040	0.039	0.037	0.035	0.033	0.031	0.030	0.029	0.029	0.029	0.028	0.036	0.043	0.028
8	0.027	0.028	0.029	0.030	0.031	0.033	0.035	0.037	0.040	0.042	0.043	0.043	0.043	0.042	0.041	0.039	0.036	0.034	0.032	0.031	0.030	0.029	0.028	0.028	0.035	0.043	0.027
9	0.030	0.031	0.031	0.032	0.034	0.035	0.038	0.039	0.041	0.042	0.043	0.043	0.043	0.042	0.041	0.041	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.039	0.043	0.030
10	0.041	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.043	0.042	0.042	0.040	0.039	0.038	0.037	0.037	0.036	0.035	0.035	0.036	0.037	0.038	0.040	0.043	0.035
11	0.038	0.038	0.039	0.038	0.038	0.038	0.038	0.039	0.039	0.038	0.038	0.037	0.036	0.035	0.034	0.033	0.033	0.033	0.033	0.034	0.034	0.035	0.035	0.034	0.036	0.039	0.033
12	0.034	0.033	0.033	0.034	0.035	0.036	0.037	0.039	0.041	0.042	0.043	0.043	0.042	0.042	0.041	0.040	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.038	0.043	0.033
13	0.036	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.039	0.038	0.037	0.036	0.034	0.033	0.033	0.032	0.032	0.033	0.033	0.036	0.037	0.039	0.036	0.039	0.032
14	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.042	0.038
15	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.038	0.039	0.040	0.038
16	0.038	0.037	0.037	0.036	0.036	0.037	0.037	0.037	0.038	0.039	0.039	0.040	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.030	0.029	0.028	0.028	--	0.035	0.040	0.028
17	--	--	--	--	--	--	--	0.037	0.038	0.038	0.038	0.037	0.035	0.034	0.034	0.033	0.032	0.031	0.031	0.032	0.033	0.033	0.033	0.032	--	--	--
18	0.031	0.031	0.030	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.037	0.030
19	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.036	0.038	0.039	0.040	0.035	0.040	0.033
20	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.042	0.042	0.041	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.042	0.039
21	0.039	0.039	0.038	0.037	0.038	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.038	0.039	0.036
22	0.036	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.039	0.040	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.040	0.035
23	0.038	0.037	0.037	0.037	0.038	0.038	0.038	--	--	--	--	--	--	--	--	--	--	0.042	0.042	0.042	0.042	0.041	0.041	0.041	--	--	--
24	0.040	0.039	0.038	0.037	0.038	0.038	0.038	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.040	0.040	0.039	0.038	0.037	0.037	0.035	0.034	0.032	0.038	0.041	0.032
25	0.032	0.032	0.032	0.033	0.034	0.035	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.035	0.034	0.036	0.038	0.032
26	0.033	0.033	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.037	0.035	0.034	0.034	0.033	0.032	0.031	0.036	0.041	0.031
27	0.030	0.030	0.029	0.029	0.030	0.031	0.031	0.033	0.034	0.036	0.037	0.038	0.038	0.037	0.036	0.035	0.033	0.031	0.030	0.029	0.028	0.028	0.029	0.029	0.032	0.038	0.028
28	0.029	0.029	0.029	0.029	0.029	0.030	0.030	0.031	0.033	0.034	0.035	0.036	0.035	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.035	0.035	0.033	0.036	0.029
29	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.035	0.036	0.037	0.038	0.038	0.038	0.038	0.037	0.036	0.036	0.035	0.034	0.033	0.032	0.032	0.032	0.031	0.035	0.038	0.031
30	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.033	0.034	0.035	0.036	0.036	0.036	0.036	0.037	0.037	0.036	0.037	0.037	0.038	0.038	0.039	0.039	0.035	0.039	0.031
31	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.035	0.035	0.034	0.033	0.032	0.032	0.031	0.031	0.036	0.038	0.031
Avg	0.035	0.034	0.034	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.039	0.039	0.039	0.038	0.038	0.037	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.036	--	--
Max	0.041	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.042	0.041	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	--	0.043	--
Min	0.027	0.028	0.029	0.029	0.029	0.030	0.030	0.031	0.033	0.034	0.035	0.035	0.035	0.033	0.033	0.033	0.032	0.031	0.030	0.029	0.028	0.028	0.028	0.028	--	--	0.027

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.044	0.042	--	0.042	0.039	0.038	0.040	0.041	0.041	0.042	0.044	0.046	0.049	0.051	0.053	0.052	0.053	0.051	0.048	0.044	0.043	0.037	0.041	0.042	0.045	0.053	0.037
2	0.043	0.043	--	0.043	0.041	0.041	0.039	0.035	0.044	0.049	0.050	0.054	0.056	0.055	0.055	0.057	0.058	0.058	0.058	0.056	0.055	0.058	0.059	0.056	0.050	0.059	0.035
3	0.053	0.047	--	0.044	0.039	0.042	0.038	0.037	0.040	0.044	0.050	0.053	0.052	0.052	0.053	0.054	0.055	0.054	0.053	0.050	0.043	0.041	0.044	0.045	0.047	0.055	0.037
4	0.040	0.040	--	0.038	0.039	0.042	0.035	0.037	0.041	0.046	0.047	0.051	0.051	0.050	0.050	0.050	0.048	0.046	0.044	0.044	0.045	0.045	0.042	0.038	0.044	0.051	0.035
5	0.035	0.035	--	0.032	0.031	0.032	0.029	0.028	0.036	0.038	0.040	0.042	0.041	0.041	0.042	0.042	0.042	0.042	0.045	0.043	0.036	0.028	0.031	0.037	0.037	0.045	0.028
6	0.032	0.026	--	0.029	0.028	0.029	0.026	0.030	0.032	0.037	0.040	0.044	0.043	0.042	0.042	0.044	0.044	0.042	0.041	0.038	0.031	0.031	0.029	0.033	0.035	0.044	0.026
7	0.035	0.037	--	0.040	0.037	0.034	0.031	0.033	0.036	0.038	0.043	0.042	0.046	0.048	0.045	0.042	0.042	0.042	0.042	0.040	0.037	0.029	0.028	0.029	0.038	0.048	0.028
8	0.029	0.031	--	0.032	0.029	0.037	0.034	0.032	0.035	0.039	0.043	0.043	0.043	0.042	0.044	0.046	0.047	0.044	0.042	0.040	0.036	0.031	0.033	0.035	0.038	0.047	0.029
9	0.036	0.031	--	0.026	0.024	0.026	0.026	0.023	0.031	0.037	0.039	0.039	0.040	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	0.031	0.027	0.027	0.025	0.022	0.027	0.034	0.035	0.039	0.039	0.041	0.040	0.041	0.050	0.049	0.046	0.043	0.040	0.039	0.037	0.037	0.037	0.050	0.022
11	0.033	0.030	--	0.024	0.022	0.021	0.019	0.023	0.025	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.031	0.026	0.023	0.026	0.027	0.029	0.030	0.028	0.034	0.019
12	0.030	0.032	--	0.033	0.032	0.031	0.032	0.032	0.033	0.034	0.035	0.036	0.037	0.037	0.039	0.039	0.039	0.038	0.037	0.037	0.032	0.036	0.037	0.037	0.035	0.039	0.030
13	0.035	0.035	--	0.024	0.024	0.025	0.028	0.032	0.036	0.038	0.039	0.040	0.041	0.042	0.043	0.043	0.042	0.043	0.043	0.043	0.044	0.036	0.034	0.033	0.037	0.044	0.024
14	0.036	0.035	--	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.039	0.041	0.043	0.044	0.044	0.044	0.044	0.043	0.039	0.037	0.039	0.040	0.038	0.039	0.039	0.044	0.035
15	0.037	0.035	--	0.037	0.040	0.039	0.036	0.037	0.037	0.039	0.041	0.043	0.043	0.045	0.046	0.044	0.046	0.047	0.048	0.048	0.041	0.038	0.040	0.037	0.041	0.048	0.035
16	0.036	0.040	--	0.042	0.039	0.036	0.036	0.033	0.035	0.041	0.041	0.047	0.049	0.050	0.052	0.051	0.051	0.052	0.052	0.048	0.045	0.047	0.049	0.046	0.044	0.052	0.033
17	0.046	0.045	--	0.036	0.030	0.028	0.033	0.030	0.035	0.043	0.044	0.045	0.044	0.046	0.046	0.049	0.051	0.051	0.048	0.048	0.048	0.047	0.048	0.048	0.043	0.051	0.028
18	0.048	0.046	--	0.046	0.044	0.038	0.031	0.028	0.029	0.029	0.033	0.038	0.041	0.043	0.045	0.048	0.053	0.055	0.053	0.050	0.049	0.049	0.048	0.047	0.043	0.055	0.028
19	0.044	0.039	--	0.037	0.037	0.041	0.041	0.039	0.038	0.038	0.038	0.038	0.039	0.045	0.048	0.050	0.052	0.055	0.056	0.055	0.049	0.042	0.045	0.040	0.044	0.056	0.037
20	0.043	0.037	--	0.034	0.032	0.039	0.035	0.043	0.046	0.048	0.049	0.047	0.045	0.043	0.043	0.046	0.048	0.048	0.048	0.046	0.038	0.030	0.036	0.044	0.042	0.049	0.030
21	0.036	0.029	--	0.027	0.025	0.021	0.018	0.021	0.025	0.029	0.030	0.031	0.031	0.035	0.032	0.030	0.030	0.028	0.027	0.027	0.027	0.027	0.026	0.025	0.028	0.036	0.018
22	0.025	0.024	--	0.025	0.022	0.017	0.016	0.015	0.021	0.026	0.027	0.029	0.030	0.031	0.032	0.035	0.035	0.038	0.039	0.038	0.030	0.028	0.026	0.021	0.027	0.039	0.015
23	0.026	0.027	--	0.026	0.024	0.019	0.013	0.019	0.027	0.030	0.031	0.033	0.035	0.036	0.037	0.039	0.042	0.041	0.038	0.034	0.034	0.035	0.037	0.038	0.031	0.042	0.013
24	0.038	0.035	--	0.033	0.035	0.032	0.027	0.021	0.033	0.037	0.038	0.040	0.041	0.042	0.048	0.053	0.056	0.056	0.055	0.051	0.043	0.045	0.041	0.033	0.041	0.056	0.021
25	0.036	0.029	--	0.039	0.042	0.045	0.041	0.043	0.045	0.045	0.047	0.048	0.047	0.046	0.048	0.049	0.052	0.049	0.046	0.044	0.043	0.039	0.039	0.041	0.044	0.052	0.029
26	0.042	0.040	--	0.042	0.042	0.040	0.040	0.040	0.041	0.041	0.042	0.042	0.043	0.046	--	--	0.047	0.047	0.044	0.044	0.044	0.044	0.043	0.042	0.043	0.047	0.040
27	0.040	0.038	--	0.036	0.035	0.035	0.034	0.034	0.035	0.036	0.039	0.040	0.042	0.044	0.044	0.045	0.045	0.042	0.041	0.043	0.044	0.043	0.042	0.040	0.040	0.045	0.034
28	0.040	0.039	--	0.041	0.040	0.040	0.038	0.037	0.031	0.038	0.041	0.044	0.046	0.047	0.048	0.048	0.046	0.049	0.042	0.046	0.042	0.042	0.043	0.039	0.042	0.049	0.031
29	0.038	0.040	--	0.038	0.035	0.036	0.038	0.039	0.040	0.041	0.040	0.040	0.044	0.044	0.043	0.044	0.047	0.049	0.050	0.049	0.044	0.044	0.044	0.047	0.042	0.050	0.035
30	0.041	0.033	--	0.037	0.038	0.039	0.040	0.038	0.038	0.043	0.043	0.042	0.046	0.049	0.047	0.050	0.055	0.055	0.055	0.050	0.041	0.040	0.039	0.040	0.043	0.055	0.033
31	0.034	0.032	--	0.041	0.042	0.040	0.040	0.038	0.039	0.042	0.043	0.042	0.040	0.046	0.047	0.048	0.049	0.049	0.051	0.045	0.035	0.032	0.036	0.025	0.041	0.051	0.025
Avg	0.038	0.036	--	0.035	0.034	0.034	0.032	0.032	0.035	0.038	0.040	0.042	0.043	0.044	0.044	0.045	0.047	0.047	0.045	0.043	0.040	0.038	0.039	0.038	0.040	--	--
Max	0.053	0.047	--	0.046	0.044	0.045	0.041	0.043	0.046	0.049	0.050	0.054	0.056	0.055	0.055	0.057	0.058	0.058	0.058	0.056	0.055	0.058	0.059	0.056	--	0.059	--
Min	0.025	0.024	--	0.024	0.022	0.017	0.013	0.015	0.021	0.026	0.027	0.029	0.030	0.031	0.032	0.030	0.030	0.028	0.026	0.023	0.026	0.027	0.026	0.021	--	--	0.013

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Nov 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.029	0.022	--	0.022	0.026	0.028	0.030	0.032	0.036	0.037	0.038	0.038	0.037	0.040	0.040	0.041	0.042	0.039	0.040	0.039	0.033	0.032	0.030	0.031	0.034	0.042	0.022
2	0.029	0.033	--	0.036	0.035	0.034	0.035	0.033	0.030	0.038	0.040	0.041	0.042	0.043	0.045	0.046	0.045	0.044	0.044	0.040	0.035	0.030	0.030	0.038	0.038	0.046	0.029
3	0.032	0.029	--	0.028	0.033	0.034	0.033	0.034	0.034	0.036	0.038	0.037	0.039	0.043	0.043	0.044	0.045	0.044	0.045	0.038	0.039	0.033	0.036	0.038	0.037	0.045	0.028
4	0.038	0.038	--	0.034	0.037	0.037	0.036	0.037	0.030	0.039	0.040	0.041	0.044	0.043	0.045	0.045	0.045	0.045	0.047	0.045	0.039	0.038	0.037	0.037	0.040	0.047	0.030
5	0.040	0.041	0.039	--	0.037	0.036	0.039	0.040	0.040	0.041	0.040	0.042	0.043	0.046	0.047	0.048	0.049	0.046	0.046	0.039	0.036	0.038	0.037	0.037	0.041	0.049	0.036
6	0.038	0.038	0.038	--	0.039	0.039	0.038	0.037	0.038	0.040	0.039	0.039	0.043	0.042	0.043	0.047	0.048	0.046	0.044	0.043	0.038	0.038	0.035	0.037	0.040	0.048	0.035
7	0.035	0.036	0.039	--	0.038	0.035	0.034	0.034	0.036	0.038	0.040	0.041	0.043	0.045	0.045	0.045	0.047	0.048	0.047	0.041	0.045	0.042	0.037	0.040	0.041	0.048	0.034
8	0.042	0.035	0.035	--	0.038	0.036	0.032	0.027	0.033	0.038	0.044	0.046	0.048	0.049	0.047	0.047	0.044	0.039	0.040	0.039	0.039	0.036	0.035	0.032	0.039	0.049	0.027
9	0.033	0.034	0.034	--	0.034	0.036	0.035	0.035	0.034	--	--	0.032	0.034	0.035	0.037	0.036	0.035	0.035	0.034	0.032	0.031	0.029	0.029	0.028	0.033	0.037	0.028
10	0.035	0.036	0.037	--	0.040	0.040	0.040	0.040	0.039	0.038	0.037	0.037	0.040	0.043	0.044	0.043	0.042	0.041	0.042	0.041	0.040	0.040	0.038	0.039	0.040	0.044	0.035
11	0.039	0.039	0.037	--	0.041	0.034	0.024	0.027	0.032	0.039	0.041	0.041	0.042	0.042	0.042	0.042	0.042	0.040	0.035	0.034	0.032	0.031	0.031	0.038	0.037	0.042	0.024
12	0.038	0.039	0.038	--	0.040	0.040	0.039	0.038	0.037	0.038	0.040	0.042	0.043	0.043	0.043	0.044	0.044	0.043	0.042	0.040	0.040	0.039	0.039	0.039	0.040	0.044	0.037
13	0.038	0.038	0.037	--	0.038	0.037	0.036	0.036	0.036	0.035	0.036	0.040	0.043	0.043	0.044	0.043	0.042	0.039	0.038	0.040	0.040	0.039	0.039	0.037	0.039	0.044	0.035
14	0.035	0.037	0.034	--	0.036	0.036	0.035	0.036	0.036	0.035	0.035	0.037	0.039	0.041	0.042	0.041	0.042	0.040	0.039	0.040	0.041	0.040	0.039	0.039	0.038	0.042	0.034
15	0.040	0.041	0.039	--	0.039	0.039	0.037	0.037	0.037	0.036	0.034	0.033	0.033	0.034	0.033	0.033	0.036	0.032	0.034	0.036	0.037	0.036	0.035	0.034	0.036	0.041	0.032
16	0.035	0.035	0.033	--	0.034	0.032	0.030	0.030	0.032	0.033	0.036	0.040	0.042	0.040	0.042	0.044	0.046	0.045	0.044	0.042	0.037	0.037	0.035	0.037	0.037	0.046	0.030
17	0.037	0.035	0.035	--	0.037	0.037	0.038	0.036	0.034	0.032	0.035	0.036	0.035	0.038	0.036	0.034	0.032	0.032	0.032	0.033	0.032	0.029	0.030	0.035	0.034	0.038	0.029
18	0.031	0.027	0.027	--	0.023	0.027	0.028	0.027	0.029	0.033	0.034	0.034	0.036	0.036	0.037	0.038	0.037	0.036	0.034	0.027	0.027	0.022	0.025	0.026	0.031	0.038	0.022
19	0.017	0.018	0.024	--	0.029	0.029	0.026	0.027	0.028	0.032	0.036	0.038	0.039	0.040	0.040	0.040	0.038	0.037	0.035	0.029	0.034	0.033	0.035	0.033	0.032	0.040	0.017
20	0.033	0.035	0.033	--	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.035	0.042	0.043	0.043	0.043	0.042	0.040	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.043	0.033
21	0.036	0.037	0.035	--	0.035	0.034	0.034	0.033	0.033	0.033	0.039	0.040	--	--	--	--	--	--	--	--	--	--	0.027	0.036	--	- -	--
22	0.037	0.028	0.036	--	0.036	0.032	0.036	0.034	0.035	0.038	0.042	0.046	0.047	0.048	0.049	0.049	0.047	0.050	0.047	0.041	0.041	0.038	0.042	0.042	0.041	0.050	0.028
23	0.041	0.039	0.038	--	0.038	0.039	0.038	0.038	0.040	0.042	0.040	0.041	0.043	0.043	0.043	0.043	0.043	0.042	0.041	0.041	0.039	0.038	0.037	0.037	0.040	0.043	0.037
24	0.038	0.037	0.035	--	0.037	0.037	0.038	0.038	0.037	0.037	0.038	0.039	0.040	0.042	0.042	0.042	0.041	0.038	0.036	0.039	0.039	0.037	0.036	0.035	0.038	0.042	0.035
25	0.037	0.039	0.038	--	0.038	0.035	0.037	0.037	0.035	0.035	0.037	0.041	0.044	0.045	0.046	0.045	0.046	0.044	0.044	0.041	0.034	0.037	0.041	0.033	0.040	0.046	0.033
26	0.036	0.041	0.036	--	0.040	0.035	0.030	0.029	0.031	0.038	0.041	0.041	0.042	0.046	0.048	0.049	0.046	0.047	0.042	0.040	0.039	0.039	0.041	0.041	0.040	0.049	0.029
27	0.040	0.040	0.037	--	0.038	0.038	0.039	0.038	0.037	0.037	0.035	0.035	0.039	0.040	0.040	0.041	0.040	0.039	0.039	0.039	0.035	0.034	0.038	0.038	0.038	0.041	0.034
28	0.039	0.039	0.036	--	0.037	0.036	0.036	0.034	0.036	0.034	0.035	0.035	0.040	0.040	0.040	0.040	0.043	0.044	0.044	0.042	0.040	0.036	0.029	0.023	0.037	0.044	0.023
29	0.023	0.027	0.023	--	0.029	0.025	0.026	0.020	0.025	0.035	0.042	0.044	0.046	0.046	0.047	0.047	0.045	0.044	0.046	0.045	0.040	0.036	0.041	0.039	0.037	0.047	0.020
30	0.039	0.028	0.027	--	0.029	0.029	0.027	0.026	0.029	0.032	0.034	0.036	0.037	0.036	0.036	0.040	0.039	0.038	0.040	0.039	0.035	0.031	0.027	0.031	0.033	0.040	0.026
Avg	0.035	0.035	0.035	0.030	0.036	0.035	0.034	0.034	0.034	0.036	0.038	0.039	0.041	0.042	0.042	0.043	0.042	0.041	0.041	0.039	0.037	0.035	0.035	0.036	0.038	--	--
Max	0.042	0.041	0.039	0.036	0.041	0.040	0.040	0.040	0.040	0.042	0.044	0.046	0.048	0.049	0.049	0.049	0.049	0.050	0.047	0.045	0.045	0.042	0.042	0.042	--	0.050	--
Min	0.017	0.018	0.023	0.022	0.023	0.025	0.024	0.020	0.025	0.032	0.033	0.032	0.033	0.034	0.033	0.033	0.032	0.032	0.032	0.027	0.027	0.022	0.025	0.023	--	--	0.017

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Dec 2012

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.030	0.030	0.030	--	0.032	0.032	0.031	0.031	0.030	0.034	0.037	0.040	0.039	0.040	0.042	0.043	0.043	0.043	0.042	0.038	0.031	0.024	0.038	0.035	0.036	0.043	0.024
2	0.033	0.030	0.030	--	0.029	0.031	0.031	0.031	0.034	0.038	0.039	0.037	0.040	0.043	0.042	0.041	0.042	0.042	0.042	0.041	0.036	0.041	0.039	0.033	0.037	0.043	0.029
3	0.037	0.039	0.035	--	0.039	0.035	0.034	0.031	0.030	0.031	0.039	0.040	0.042	0.042	0.040	0.041	0.042	0.041	0.038	0.035	0.031	0.034	0.030	0.029	0.036	0.042	0.029
4	0.034	0.036	0.035	--	0.035	0.033	0.032	0.030	0.029	0.034	0.036	0.035	0.038	0.040	0.041	0.040	0.038	0.038	0.040	0.039	0.038	0.034	0.035	0.033	0.036	0.041	0.029
5	0.032	0.032	0.032	--	0.036	0.037	0.037	0.036	0.037	0.036	0.036	0.037	0.038	0.040	0.040	0.042	0.039	0.040	0.036	0.032	0.034	0.029	0.034	0.032	0.036	0.042	0.029
6	0.029	0.035	0.030	--	0.034	0.028	0.026	0.023	0.030	0.031	0.038	0.042	0.040	0.038	0.040	0.043	0.040	0.041	0.041	0.036	0.034	0.037	0.043	0.037	0.035	0.043	0.023
7	0.037	0.030	0.034	--	0.032	0.032	0.033	0.038	0.031	0.035	0.042	0.041	0.041	0.041	0.044	0.044	0.044	0.042	0.040	0.034	0.030	0.032	0.033	0.028	0.037	0.044	0.028
8	0.023	0.028	0.031	--	0.030	0.029	0.027	0.022	0.030	0.035	0.039	0.040	0.043	0.044	0.045	0.044	0.044	0.044	0.043	0.038	0.035	0.033	0.032	0.018	0.035	0.045	0.018
9	0.026	0.033	0.033	--	0.029	0.026	0.032	0.032	0.030	0.036	0.041	0.043	0.044	0.044	0.044	0.044	0.043	0.043	0.041	0.039	0.038	0.039	0.039	0.041	0.037	0.044	0.026
10	0.041	0.041	0.041	--	0.041	0.041	0.042	0.042	0.043	0.042	0.043	0.042	0.042	0.043	0.042	0.041	0.043	0.044	0.042	0.038	0.030	0.032	0.033	0.037	0.040	0.044	0.030
11	0.037	0.037	0.037	--	0.039	0.041	0.038	0.038	0.039	0.039	0.037	0.038	0.040	0.040	0.039	0.038	0.038	0.036	0.028	0.029	0.030	0.033	0.035	0.034	0.036	0.041	0.028
12	0.036	0.035	0.036	--	0.035	0.033	0.030	0.032	0.033	0.035	0.041	0.042	0.042	0.044	0.045	0.045	0.045	0.040	0.039	0.038	0.037	0.040	0.038	0.039	0.038	0.045	0.030
13	0.041	0.038	0.037	--	0.036	0.036	0.035	0.032	0.032	0.034	0.037	0.039	0.040	0.040	0.040	0.041	0.037	0.035	0.033	0.029	0.029	0.031	0.033	0.034	0.036	0.041	0.029
14	0.034	0.035	0.038	--	0.045	0.043	0.043	0.042	0.042	0.040	0.040	0.040	0.039	0.039	0.040	0.036	0.037	0.037	0.039	0.037	0.039	0.040	0.040	0.038	0.039	0.045	0.034
15	0.038	0.037	0.036	--	0.040	0.040	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.039	0.039	0.038	0.037	0.037	0.038	0.036	0.037	0.039	0.039	0.039	0.041	0.036
16	0.039	0.039	0.039	--	0.038	0.038	0.038	0.035	0.035	0.036	0.035	0.037	0.040	0.041	0.041	0.040	0.041	0.040	0.038	0.038	0.034	0.026	0.027	0.026	0.036	0.041	0.026
17	0.029	0.030	0.030	--	0.028	--	--	--	--	0.030	0.038	0.039	0.036	0.037	0.041	0.042	0.040	0.032	0.030	0.025	0.027	0.032	0.034	0.035	0.033	0.042	0.025
18	0.034	0.033	0.033	--	0.031	0.029	0.029	0.028	0.032	0.029	0.034	0.037	0.039	0.037	0.037	0.037	0.036	0.036	0.038	0.039	0.037	0.037	0.036	0.036	0.035	0.039	0.028
19	0.034	0.033	0.038	--	0.036	0.036	0.034	0.033	0.033	0.032	0.034	0.035	0.035	0.035	0.036	0.036	0.036	0.035	0.034	0.030	0.026	0.034	0.039	0.040	0.034	0.040	0.026
20	0.038	0.039	0.039	--	0.041	0.041	0.040	0.040	0.039	0.036	0.038	0.039	0.040	0.041	0.037	0.041	0.044	0.042	0.042	0.043	0.042	0.041	0.041	0.041	0.040	0.044	0.036
21	0.040	0.041	0.041	--	0.039	0.039	0.037	0.037	0.036	0.037	0.036	0.038	0.038	0.037	0.040	0.041	0.040	0.039	0.038	0.039	0.038	0.037	0.038	0.038	0.038	0.041	0.036
22	0.038	0.037	0.037	--	0.036	0.034	0.035	0.035	0.034	0.033	0.035	0.039	0.039	0.042	0.039	0.039	0.039	0.042	0.041	0.037	0.038	0.039	0.038	0.038	0.038	0.042	0.033
23	0.039	0.039	0.039	--	0.038	0.037	0.038	0.037	0.034	0.035	0.040	0.044	--	--	--	--	--	--	--	0.042	0.040	0.042	0.041	0.041	--	--	--
24	0.044	0.043	0.040	--	0.039	0.039	0.038	0.037	0.035	0.036	0.038	0.040	0.040	0.041	0.041	0.042	0.041	0.041	0.041	0.041	0.039	0.038	0.038	0.037	0.039	0.044	0.035
25	0.035	0.035	0.034	--	0.029	0.026	0.030	0.034	0.035	0.037	0.039	0.040	0.039	0.039	0.039	0.038	0.037	0.036	0.037	0.037	0.037	0.038	0.037	0.036	0.036	0.040	0.026
26	0.034	0.033	0.033	--	0.035	0.034	0.033	0.031	0.032	0.035	0.038	0.040	0.044	0.040	0.039	0.043	0.041	0.040	0.039	0.038	0.037	0.036	0.036	0.035	0.037	0.044	0.031
27	0.032	0.031	0.031	--	0.030	0.031	0.027	0.028	0.028	0.029	0.032	0.033	0.037	0.035	0.038	0.040	0.041	0.040	0.038	0.036	0.029	0.029	0.025	0.025	0.032	0.041	0.025
28	0.027	0.030	0.031	0.027	0.032	0.032	0.028	0.024	0.026	0.031	0.031	0.033	0.034	0.035	0.037	0.038	0.037	0.037	0.034	0.030	0.029	0.027	0.032	0.037	0.032	0.038	0.024
29	0.038	0.036	0.035	0.035	0.035	0.033	0.032	0.031	0.031	0.032	0.033	0.036	0.037	0.039	0.040	0.040	0.039	0.037	0.036	0.036	0.036	0.034	0.033	0.033	0.035	0.040	0.031
30	0.031	0.031	0.031	0.029	0.032	--	--	0.031	0.033	0.030	0.032	0.033	0.031	0.032	0.036	0.041	0.041	--	--	0.033	0.034	0.033	0.039	0.040	0.034	0.041	0.029
31	0.039	0.041	0.038	0.037	0.039	0.037	0.038	0.038	0.038	0.037	0.036	0.036	0.037	0.037	0.038	0.040	0.038	0.036	0.034	0.036	0.038	0.037	0.033	0.031	0.037	0.041	0.031
Avg	0.035	0.035	0.035	0.032	0.035	0.035	0.034	0.033	0.034	0.035	0.037	0.038	0.039	0.040	0.040	0.041	0.040	0.039	0.038	0.036	0.035	0.035	0.036	0.035	0.036	--	--
Max	0.044	0.043	0.041	0.037	0.045	0.043	0.043	0.042	0.043	0.042	0.043	0.044	0.044	0.044	0.045	0.045	0.045	0.044	0.043	0.043	0.042	0.042	0.043	0.041	--	0.045	--
Min	0.023	0.028	0.030	0.027	0.028	0.026	0.026	0.022	0.026	0.029	0.031	0.033	0.031	0.032	0.036	0.036	0.036	0.032	0.028	0.025	0.026	0.024	0.025	0.018	--	--	0.018

-- Indicates Invalid Data

Appendix F: West Plant Meteorological Site Check Forms

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/12/2012 Time: 9:23 Operator: Karen BaClard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER - PORTLAND

REVIEWED BY RPA DATE 10/16/12

AUDITED BY RMH DATE 10/15/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3m/s	3.7m/s	3.397
Direction* 10m (deg)	SW	182.64	197
Ambient Temperature (°C)	20°	18.66	18.43
Relative Humidity (%)	35%	47%	47.21
Aspirated Temp 2m	20°	17.8	17.8
Aspirated Temp 10m	18°	16.5	16.37
Delta Temperature (°C)	N/A	-1.3	-1.433
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	~~69~~ 519.69	526.6
Barometric Pressure (mmHg)	N/A	684.5	684.6
Battery Voltage (V)	N/A	12.88	12.89
Time (MST)	N/A	9:26	9:30
Date	N/A	10/12/2012	10/12/2012

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. pan & tipped precip. guage *

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen BaClard

* RMH INVALIDATED PRECIP DUE TO SITE OPERATOR TIPPING PRECIP GAUGE.

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/19/2012 Time: 1:21 Operator: Kane BeClard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

RPA — REVIEWED BY — DATE 10/28/12

KJD — AUDITED BY — DATE 10/23/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	3.9	3.431
Direction* 10m (deg)	West	275.2	266.6
Ambient Temperature (°C)	30°	30.1	30.07
Relative Humidity (%)	15%	13.9	13.26
Aspirated Temp 2m	30°	29.6	29.75
Aspirated Temp 10m	28°	28.9	29.07
Delta Temperature (°C)	N/A	-0.6	-0.684
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	742.5	744.8
Barometric Pressure (mmHg)	N/A	680.7	680.5
Battery Voltage (V)	N/A	12.7	12.72
Time (MST)	N/A	1:24	10/19/12
Date	N/A	10/19/2012	13:30 L.T.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge

Invalidated precip. at 13:30 hrs L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: [signature]

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/25/2012 Time: 9:25 Operator: K. Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

RPA 11/8/12
REVIEWED BY DATE

RMH DATE 11/1/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.2	0.803
Direction* 10m (deg)		215.9	226.4
Ambient Temperature (°C)	20°	20.4°	20.16
Relative Humidity (%)	12%	13.4%	12.48
Aspirated Temp 2m	20°	19.4°	18.91
Aspirated Temp 10m	18°	18.8°	18.23
Delta Temperature (°C)	N/A	-0.46	-0.68
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	533.6	513.2
Barometric Pressure (mmHg)	N/A	683.9	683.9
Battery Voltage (V)	N/A	12.87	12.88
Time (MST)	N/A	9:29 am	9:30 AM
Date	N/A	10/25/2012	10/25/2012

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip guage. Reficed evap pan.*

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen Ballard

* RMH INVALIDATED PRECIP DUE TO SITE OPERATOR TIPPING PRECIP GAUGE.

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11/02/2012 Time: 9:46 Operator: Kane BaClark

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

RPA 11-8-12
REVIEWED BY DATE

BR 11-5-12
AUDITED BY DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.02	1.002_WS (m/s)
Direction* 10m (deg)	BR	210.36	206.2_WD (deg)
Ambient Temperature (°C)	22°	23.2	22.24_°C
Relative Humidity (%)	20%	15.4	17.09_%
Aspirated Temp 2m	22°	22.4	21.78_°C
Aspirated Temp 10m	21°	21.8	21.49_°C
Delta Temperature (°C)	N/A	-.61	-0.282_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	563.4	223.6_W/m²
Barometric Pressure (mmHg)	N/A	682.7	682.7_mmHG
Battery Voltage (V)	N/A	12.8	12.84_V
Time (MST)	N/A	9:49	9:45_LT
Date	N/A	11.2.2012	307_JD

302.7_W/m² 9:15
238.4_W/m² 9:30
474.5_W/m² 10:00
450.7_W/m² 10:15

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip guage.
* Invalidated 0.008" precipitation data from the 9:45 data set. BR

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kane BaClark

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11.9.12 Time: 8:50 Operator: K. Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 11/12/12

AUDITED BY RMH DATE 11/12/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	5.1	5.62
Direction* 10m (deg)	SW	120.9	129.9
Ambient Temperature (°C)	15°	17.7	17.84
Relative Humidity (%)	45%	58.7	57.46
Aspirated Temp 2m	15°	17.7	17.84
Aspirated Temp 10m	13°	17.5	17.74
Delta Temperature (°C)	N/A	-0.2	-0.104
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	72.4	118
Barometric Pressure (mmHg)	N/A	680.6	680.6
Battery Voltage (V)	N/A	12.6	12.68
Time (MST)	N/A	8:52	8:45
Date	N/A	11-9-2012	11/9/12

*Direction wind is from

Comments/Unusual Occurrences or Weather: Dipped precip guage. Filled evap pan

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: [signature]

* INVALIDATED THE 0.02" PRECIP DATA FOR THE 09:00 DATA SET. RMH

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11·15·2012 Time: 1:15 Operator: Kanu Bacon

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND

REVIEWED BY RPA DATE 11/20/12

AUDITED BY RMH DATE 11/19/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.5	2.556
Direction* 10m (deg)	NE	44.8	65.86
Ambient Temperature (°C)	21°	21.4	21.44
Relative Humidity (%)	15%	11.5	11.68
Aspirated Temp 2m	21°	21.4	21.54
Aspirated Temp 10m	20°	20.7	20.81
Delta Temperature (°C)	N/A	-0.79	-0.73
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	283.7	290.7
Barometric Pressure (mmHg)	N/A	685.1	685
Battery Voltage (V)	N/A	12.8	12.85
Time (MST)	N/A	1:19	1:30
Date	N/A	11.15.2012	11/15/2012

13:00 - 79.03
13:15 - 72.85
13:45 - 48.09
14:00 - 33.19

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. guage*

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kanu Bacon

*INVALIDATED 0.02" PRECIPITATION DATA FROM THE 13:30 DATA SET [RMH]

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11/20/2012 Time: 2:49 Operator: Kami Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER · PORTLAND
REVIEWED BY RPA DATE 11/27/12
AUDITED BY RMH DATE 11/26/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	3.4	2.894
Direction* 10m (deg)	SE	117.7	139.9
Ambient Temperature (°C)	23°	24.2	24.22
Relative Humidity (%)	15%	14.7%	14.63
Aspirated Temp 2m	23°	24.7	24.55
Aspirated Temp 10m	21°	23.5	23.49
Delta Temperature (°C)	N/A	-1.2	-1.058
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	439.2	434.5
Barometric Pressure (mmHg)	N/A	683.8	683.8
Battery Voltage (V)	N/A	12.8	12.78
Time (MST)	N/A	2:51	3:00 PM (15:00)
Date	N/A	11.20.2012	11/20/2012

14:30 - 17.53
14:45 - 56.23
15:15 - 156.5
15:30 - 161

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. guage & filled sump pan.

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

* INVALIDATED THE 0.004" PRECIP DATA FOR THE 15:00 DATA SET. (RMH)

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11·28·2012 Time: 10:37 Operator: K. Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — 12/6/12 DATE
KJD — AUDITED BY — 12/3/12 DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	7.7 m/s	5.553
Direction* 10m (deg)	NE	83.7	68.97
Ambient Temperature (°C)	20°	22°	21.99
Relative Humidity (%)	20%	19%	19.27
Aspirated Temp 2m	20°	21.9°	22.02
Aspirated Temp 10m	19°	20.9°	20.97
Delta Temperature (°C)	N/A	-1.05	-1.054
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	558.2	552.0
Barometric Pressure (mmHg)	N/A	686.5	686.9
Battery Voltage (V)	N/A	12.8	12.83
Time (MST)	N/A	10:39	10:45 L.T.
Date	N/A	11·28·2012	11-28-12

*Direction wind is from

Comments/Unusual Occurrences or Weather: Topped precip. guage; cleaned algae out of evap. tank. Invalidated site operator precip. tip at 10:45 L.T. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12·06·2012 Time: 9:29 Operator: Kane Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/13/12
AUDITED BY BR DATE 12/13/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1m/s	.8 m/s	0.909_WS (m/s)
Direction* 10m (deg)	SW	188.8	193.3_WD (deg
Ambient Temperature (°C)	20°	18.2	17.72_°C
Relative Humidity (%)	10%	29%	26_%
Aspirated Temp 2m	20°	17.1	16.9_°C
Aspirated Temp 10m	19.5°	16.3	16.89_°C
Delta Temperature (°C)	N/A	-.86	-0.012_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	374.6	201.7_W/m²
Barometric Pressure (mmHg)	N/A	681.6	681.7_mmHG
Battery Voltage (V)	N/A	12.9	12.94_V
Time (MST)	N/A	9:37	09:30_LT
Date	N/A	12/07/2012	341_JD

0.136_°C 09:00
-0.019_°C 09:15
-0.26_°C 09:45
-0.63_°C 10:00

134.6_W/m² 09:00
166_W/m² 09:15
298.3_W/m² 09:45
341.6_W/m² 10:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Topped precip. gauge
* No precipitation recorded by data Logger (BR)

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

+ REQUESTED CONFIRMATION FROM SITE OPERATOR THAT PRECIP WAS TRIGGERED — RPA

Site Operator Signature: Kane Ballard

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12·14·2012 Time: 12:25 Operator: Kane Bellard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND

RPA — REVIEWED BY — DATE 12-20-12

KJD — AUDITED BY — DATE 12/18/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2	2.3	3.409
Direction* 10m (deg)	SW	201.2	190.2
Ambient Temperature (°C)	9°	7.7	7.447
Relative Humidity (%)	90%	87%	86.4
Aspirated Temp 2m	9°	7.6	7.433
Aspirated Temp 10m	8°	7.0	6.824
Delta Temperature (°C)	N/A	-.58	-0.608
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	247.3	146.1
Barometric Pressure (mmHg)	N/A	680.5	680.5
Battery Voltage (V)	N/A	13.2	13.0
Time (MST)	N/A	12:30	12:30 L.T.
Date	N/A	12·14·2012	12/14/12

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: _____

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12/20 Time: 1:18 pm Operator: Mary Morrissette

YES	NO **	
X		1. The tower is intact and upright.
X		2. The anemometer propeller and the wind direction vane are turning freely.
X		3. All temperature shields are intact, and the probes are inside their shields.
X		4. The aspirator fans are operating.
X		5. The solar radiation sensor is level and has been cleaned.
X		6. The solar panel is facing south and is clean.
X		7. The precipitation gauge is clean and free of bugs and dust.
		8. The data logger is reading the correct time and day.
		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/31/12
AUDITED BY BR DATE 12/27/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2.5	3.2	3.438_WS (m/s)
Direction* 10m (deg)	210	211.8	220.7_WD (deg)
Ambient Temperature (°C)	11	14.1	13.41_°C
Relative Humidity (%)	20	19.4	19.1_%
Aspirated Temp 2m	11	13.3	12.85_°C
Aspirated Temp 10m	9	12.6	12.17_°C
Delta Temperature (°C)	N/A	-.51	-.679_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	576	593.7_w/m²
Barometric Pressure (mmHg)	N/A	687.5	687.6_mmHG
Battery Voltage (V)	N/A	12.9	12.98_V
Time (MST)	N/A	1:25 pm	13:30_LT
Date	N/A	12/20/2012	355_JD

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: K. Ball

AIR SCIENCES INC.

WEST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12/27/2012 Time: 12:11pm Operator: Mary Morissette

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND
RPA — REVIEWED BY — 1/9/13 DATE
KJD — AUDITED BY — 1/3/13 DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1.5	1.536	1.755
Direction* 10m (deg)	SE	141	198
Ambient Temperature (°C)	10	8.41	8.64
Relative Humidity (%)	35	42.1	43.4
Aspirated Temp 2m	10	8.1	8.25
Aspirated Temp 10m	9	7.37	7.509
Delta Temperature (°C)	N/A	-.697	-0.742
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	~~679.43~~ 124.11	334.7
Barometric Pressure (mmHg)	N/A	679.43	679.5
Battery Voltage (V)	N/A	13.08	13.08
Time (MST)	N/A	12:18	12:15 L.T.
Date	N/A	12/27/2012	12/27/12

11:45 - 172.1
12:00 - 235.8
12:30 - 205.6
12:45 - 337.8

11:45 427.8
12:00 462.7
12:30 98.8
12:45 326

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge
Invalidated precip at 12:15 L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Mary Morissette

Appendix G: West Plant PM_{10} and $PM_{2.5}$ Site Check Forms and Flow Audits

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/12/2012 Time: 9:24 Operator: K. McClard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/9 -> Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER · PORTLAND
RPA 10/16/12
REVIEWED BY DATE
INITIED BY RMH DATE 10/15/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen McClard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/19/2012 Time: 1:24 Operator: Kane Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Inlet Flow check Performed
		✓	2. Visual Inspection and dust removal
		✓	3. Leak check performed
		✓	4. PM10 particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 10/28/12
AUDITED BY KJD DATE 10/23/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kane Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/25/2012 Time: 9:35 Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 11/8/12

AUDITED BY RMH DATE 11/1/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RMH

YES	NO	
		1. Filter tape replaced
		2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RMH

YES	NO	
		1. Replaced muffler on the pump (*Work performed by Air Sciences)
		2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RMH

YES	NO	
		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: Karen Ballard

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 PM_{10}: S/N:

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 10/26/2012

Time of Flow Audit: 9:40

AIR SCIENCES INC. DENVER · PORTLAND

REVIEWED BY RPA DATE 11/8/12

AUDITED BY RMH DATE 11/1/12

	BAM	STD
Ambient Temperature (AT) °c	21.5	22.0
Berometric Pressure mmHg	684	684.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15	0.000	15.02	-0.133
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.000	18.45	-0.271
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.000	16.64	0.361
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	.1

Should be < 1.0 LPM

Comments/Abnormalities:

Signature: Kami Ballard

Upon completion of this form, fax to Air Sciences at 303-279-3796

RMH

* INVALIDATED CONC. @ 10:00 HOUR DUE TO SITE OPERATOR MAINTENANCE.

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11-2-2012 Time: 9:50 Operator: Kami

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/20 ⇒ Delta Pressure
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — 11-8-12
REVIEWED BY — DATE

BR — 11-5-12
AUDITED BY — DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function.

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Delta-Pressure error caused by operator maintenance. (BR)

Signature: Kami Bac

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11-9-2012 Time: 8:53 Operator: Kane Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 11/12/12
AUDITED BY RMH DATE 11/12/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kane Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11.15.2012 Time: 1:20 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
	✓	6. Error log was checked (F3), and errors followed up on (see manual). 10/25 → Delta Pressure
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 11/20/12
AUDITED BY RMH DATE 11/19/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO RMH	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11·20·2012 Time: 2:53 pm Operator: Karri Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/27/12
AUDITED BY RMH DATE 11/26/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karri Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·28·2012 Time: 11:22 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/28 - Delta Pressure 11/26 - Maintenance / Tape Latch
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual Inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned (11·26·2012)

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 12/6/12

AUDITED BY KJD DATE 12/3/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Filter tape replaced
✓		2. Ran the Self-Test function

11·26·2012

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
		1. Replaced muffler on the pump (*Work performed by Air Sciences)
		2. Complete calibration of flow system (*Work performed by Air Sciences)

KJD

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2. Inlet system cleaned (*Work performed by Air Sciences)

KJD

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 — PM_{10}: 8236-06 — S/N: M8712

Firmware: V3.6.3

Calibrator: Delta Cal — S/N: 1034

Date of Flow Audit: 11.28.2012

Time of Flow Audit: 11:22

	BAM	STD
Ambient Temperature (AT) °c	23.0	23.7
Berometric Pressure mmHg	684	687.5

Slight difference

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.93	0.469
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.0	18.39	0.054
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.58	0.724
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.1	**Should be < 1.0 LPM**

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA — DATE: 12/6/12

AUDITED BY: KJD — DATE: 12/3/12

Comments/Abnormalities:

Signature: Ram Bell

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12/07/2012 Time: 9:38 Operator: [signature]

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
REVIEWED BY RPA DATE 12/13/12
AUDITED BY BR DATE 12/13/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function (12/10/2012)

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Replaced Reference Membrane. 12/10/2012
NO ISSUES WITH OPERATION NOTED AFTER MAINT. – RPA

Signature: [signature]

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12·14·12 Time: 12:33 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/10 Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — DATE 12·20·12
REVIEWED BY

KJD — DATE 12/18/12
AUDITED BY

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12/20/2012 Time: 1:25pm Operator: Mary Morissette

I. BAM SAMPLER – Weekly Checks.

YES	NO	
/		1. The sampler is intact and the inlet head is unobstructed.
/		2. The vacuum pump is running and sounds normal.
/		3. The temperature shield is intact, and the sensor is inside of it.
/		4. The BAM is reading the correct time and day.
/		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
/		6. Error log was checked (F3), and errors followed up on (see manual).
/		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
/		1. Inlet Flow check Performed
/		2. Visual inspection and dust removal
/		3. Leak check performed
/		4. PM10 particle trap cleaned
/		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 12/31/12
REVIEWED BY DATE
BR 12/27/12
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Bolland

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 PM_{10}: S/N:

Firmware:

Calibrator: Delta Cal Calibrator S/N:

Date of Flow Audit: 12/20/2012

Time of Flow Audit: 1:40 PM

	BAM	STD
Ambient Temperature (AT) °c	13.3	14.5
Berometric Pressure mmHg	684	688

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 12/31/12

AUDITED BY BR DATE 12/27/12

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15	0 BR	14.94	0.4 BR
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.41	0 BR	18.48	.43 BR
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 BR	16.67	.18 BR
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	0.1

Should be < 1.0 LPM

Comments/Abnormalities: * 1400 hr concentration data has been invalidated BR

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date 12/27/2012 Time: 12:78 Operator: Mary Morissette

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — DATE 1/9/13
KJD — AUDITED BY — DATE 1/3/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: 12/20 Delta Pressure error
REQUESTED VERIFICATION OF BP BY SITE OPERATOR USING THE DELTA-CAL – RPA

Signature: Mary Morissette

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/12/2012 Time: 9:23 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/09 → Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY KPA DATE 10/10/12
AUDITED BY RMH DATE 10/15/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: FLOW CALIBRATION BY ASI ON 10/9/12 – RPA

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/19/2012 Time: 1:23 Operator: Kyme Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 10/28/12
AUDITED BY KJD DATE 10/23/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kyme Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/25/2012 Time: 9:32 Operator: Kami Bollard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER · PORTLAND
REVIEWED BY RPA DATE 11/8/12
AUDITED BY RMH DATE 11/1/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was perfomed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Bollard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N:

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 10/25/2012

Time of Flow Audit: 9:48

AIR SCIENCES INC. DENVER · PORTLAND

REVIEWED BY RPA DATE 11/8/12

AUDITED BY RMH DATE 11/1/12

	BAM	STD
Ambient Temperature (AT) °c	22.4	23.2
Berometric Pressure mmHg	686	685.0

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.667	15.14	-0.264
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.000	18.4	0.000
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.000	16.78	-0.477
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	.2

Should be < 1.0 LPM

Comments/Abnormalities:

Signature: Karen Bacon

Upon completion of this form, fax to Air Sciences at 303-279-3796

* RMH INVALIDATED CONC. @ 10:00 – 11:00 HOURS DUE TO SITE OPERATOR MAINTENANCE

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: ~~9-5~~ 11/2/2012 Time: 9:07 Operator: Kami

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/25 → Delta-Pressure
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND

RPA — 11-8-12
REVIEWED BY — DATE
BR — 11-5-12
AUDITED BY — DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: * Delta-Pressure error caused by operator maintenance BR

Signature: Kami Bell

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11-9-2012 Time: 8:55 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Inlet Flow check Performed
		✓	2. Visual inspection and dust removal
		✓	3. Leak check performed
		✓	4. PM10 and 2.5 cyclone particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 11/12/12
AUDITED BY RMH DATE 11/12/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·15·2012 Time: 1:21 Operator: Kame Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/13 → Tape Tension
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO (RMH)	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER · PORTLAND
REVIEWED BY RPA DATE 11/20/12
AUDITED BY RMH DATE 11/19/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO (RMH)	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO (RMH)	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO (RMH)	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kame Ballard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11.20.2012 Time: 2:55 Operator: Kami BaCLard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/13 → Tape Tension
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Inlet Flow check Performed
		✓	2. Visual inspection and dust removal
		✓	3. Leak check performed
		✓	4. PM10 and 2.5 cyclone particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 11/27/12
AUDITED BY RMH DATE 11/26/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami BaCLard

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·28·2012 Time: 10:41 Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5% 11-24 through 11-28
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned – 11/24/2012

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — DATE 12/6/12
KJD — AUDITED BY — DATE 12/3/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function (11·26 & 11·28)

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
		KJD	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Removed & Cleaned reference membrane (11·26·2012) Did not resolve issue. Replaced reference membrane w/ new one (6979 – 0.797) on 11·28·2012.

Signature: Ka Ba

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 — $PM_{2.5}$: — S/N: M8193

Firmware: 3236-06 — V3.6.3

Calibrator: — S/N: 1034

Date of Flow Audit: 11.28.2012

Time of Flow Audit: 11:12 am

	BAM	STD
Ambient Temperature (AT) °c	24.0	23.8
Berometric Pressure mmHg	689	687.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	15.00	0.0
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.0	18.29	0.601
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.63	0.421
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.2	**Should be < 1.0 LPM**

AIR SCIENCES INC. DENVER · PORTLAND

RPA — REVIEWED BY — 12/6/12 DATE

KJD — AUDITED BY — 12/3/12 DATE

Comments/Abnormalities:

Signature: Kam Bell

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/07/12 Time: 9:33 Operator: Kanui Ba Chad

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). (Count Membrane)
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/13/12
AUDITED BY BR DATE 12/13/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Filter tape replaced
✓		2. Ran the Self-Test function

12/10/2012

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: [signature]

**Fax completed form to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12.14.12 Time: 12:35 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/12 → Count failed
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	KJD	1. Inlet Flow check Performed
	✓		2. Visual inspection and dust removal
	✓		3. Leak check performed
	✓		4. PM10 and 2.5 cyclone particle trap cleaned
	✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND

RPA — REVIEWED BY — DATE 12.20.12

KJD — AUDITED BY — DATE 12/18/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	KJD	1. Filter tape replaced
	✓		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	KJD	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓		2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO		
	✓	KJD	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: [signature]

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: M8193

Firmware:

Calibrator: DeltaCal Calibrator S/N:

Date of Flow Audit: 12/20/2012

Time of Flow Audit: 1:35 PM

AIR SCIENCES INC. DENVER · PORTLAND

REVIEWED BY: RPA DATE: 12/31/12

APPROVED BY: BR DATE: 12/27/12

	BAM	STD
Ambient Temperature (AT) °c	14.7	15.8
Berometric Pressure mmHg	689	688

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15	0 BR	15.2	1.33 BR
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 BR	18.45	.27 BR
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 BR	16.76	.36 BR
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	0.2

Should be < 1.0 LPM

Comments/Abnormalities: 1900 hr concentration data has been invalidated. BR

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

WEST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12/27/2012 Time: 12:15 Operator: Mary Morissette

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Inlet Flow check Performed
		✓	2. Visual inspection and dust removal
		✓	3. Leak check performed
		✓	4. PM10 and 2.5 cyclone particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA DATE: 1/9/13

AUDITED BY: KJD DATE: 1/3/13

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
		✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: 12/20 – Delta Pressure error
* REQUESTED VERIFICATION OF BP DURING NEXT VISIT USING THE CERTIFIED Delta Calibrator – RPA

Signature: Mary Morissette

**Fax completed form to Air Sciences at 303-279-3796

Appendix H: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/12/2012 Time: 11:21 Operator: K. Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC
DENVER PORTLAND
REVIEWED BY RPA DATE 10/16/12
AUDITED BY RMH DATE 10/16/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.2 m/s	2.524
Direction* 10m (deg)		209	222.4
Ambient Temperature (°C)	18°	13.8	14.33
Relative Humidity (%)	45%	56.2	54.08
Aspirated Temp 2m	18°	13.3	13.61
Aspirated Temp 10m	16°	13.0	13.22
Delta Temperature (°C)	N/A	-.21	-0.394
Solar Radiation (w/m²)	Sunny / Partly cloudy / Cloudy	175.1	373.8
Barometric Pressure (mmHg)	N/A	654.6	654.6
Battery Voltage (V)	N/A	12.88	12.88
Time (MST)	N/A	11:24	11:30
Date	N/A	10/12/2012	10/12/2012

* 11:00 - 294
11:15 - 519.5
11:45 - 585.5
12:00 - 478.8

*Direction wind is from

Comments/Unusual Occurrences or Weather: * Partly cloudy to cloudy conditions reported - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/19/2012 Time: 2:00 Operator: Kami BaClard

YES	NO**	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

RPA — REVIEWED BY — DATE 10/28/12

KJD — AUDITED BY — DATE 10/23/12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4 m/s	4.5	3.213
Direction* 10m (deg)	West	240.48	248.2
Ambient Temperature (°C)	28°	26.9	27.41
Relative Humidity (%)	15%	14.7	14.24
Aspirated Temp 2m	28°	26.8	26.88
Aspirated Temp 10m	26°	25.9	26.05
Delta Temperature (°C)	N/A	-0.8	-0.83
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	669.6	695.1
Barometric Pressure (mmHg)	N/A	651.6	651.7
Battery Voltage (V)	N/A	12.7	12.7
Time (MST)	N/A	2:04 pm	10/19/12
Date	N/A	10/19/2012	14:00 L.T.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Dumped precip. guage & re-filled evap. pan
Invalidated precip. at 14:00 hrs L.T. due to site operator maintenance. -KJD

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami BaClard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 10/26/2012 Time: 2:36 Operator: Kami Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 11/8/12

AUDITED BY BR DATE 11/5/2012

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	8 m/s	9.1 m/s	7.125_WS (mps)
Direction* 10m (deg)	N	26.04	39.66_WD (deg)
Ambient Temperature (°C)	24°	20.8°	20.99_°C
Relative Humidity (%)	12%	10.9%	10.92_%
Aspirated Temp 2m	24°	20.9°	21.07_°C
Aspirated Temp 10m	22°	20°	20.03_°C
Delta Temperature (°C)	N/A	-0.9	-1.036_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	549.2	597.7_W/m²
Barometric Pressure (mmHg)	N/A	652.7	652.7_mmHG
Battery Voltage (V)	N/A	12.79	12.81_V
Time (MST)	N/A	2:40	14:30_LT
Date	N/A	10/26/2012	300_JD

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip guage

*Invalidated 0.02" precipitation data for the 15:45 data set

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Bal

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11.2.2012 Time: 10:25 Operator: Karen BaCl d

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 11/8/12

AUDITED BY BR DATE 11-5-12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.3	2.273_WS (m/s)
Direction* 10m (deg)	BR	31.6	59.44_WD (deg)
Ambient Temperature (°C)	20°	21.7	21.3_°C
Relative Humidity (%)	15%	16.7	16.88_%
Aspirated Temp 2m	20°	21.2	20.92_°C
Aspirated Temp 10m	19°	20.2	20.16_°C
Delta Temperature (°C)	N/A	-.79	-.761_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	362.6	361.9_W/m²
Barometric Pressure (mmHg)	N/A	653.3	653.2_mmHG
Battery Voltage (V)	N/A	12.8	12.8_V
Time (MST)	N/A	10:27	10:30_LT
Date	N/A	11/2/2012	307_JD

87.4_WD(deg) 10:00
84.0_WD(deg) 10:15
49.33_WD(deg) 10:45
86.5_WD(deg) 11:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge
* invalidated .008" precipitation from the 10:30 data set. BR

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Ka Ba

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11.9.2012 Time: 9:58 Operator: Kane Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND
REVIEWED BY RPA DATE 11/12/12
AUDITED BY BR DATE 11/12/2012

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	4.7	4.988_WS (m/s)
Direction* 10m (deg)	BR	191	182.4_ WD (deg)
Ambient Temperature (°C)	15°	16.3	16.23_ °C
Relative Humidity (%)	50%	60.4	60.55_ %
Aspirated Temp 2m	16°	16.2	15.98_°C
Aspirated Temp 10m	13°	15.5	15.45_ °C
Delta Temperature (°C)	N/A	-0.62	-0.527_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	241.57	444.1_ W/m²
Barometric Pressure (mmHg)	N/A	650.6	650.6_ mmHG
Battery Voltage (V)	N/A	12.8	12.86_ V
Time (MST)	N/A	10:00 am	10:00_LT
Date	N/A	11-9-2012	314_JD

-0.226_°C 9:30
-0.445_°C 9:45
-0.597_°C 10:15
-0.554_°C 10:30

204.1_W/m² 9:30
368_W/m² 9:45
400.5_W/m² 10:15
299.8_W/m² 10:30

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled evap pan.
* Invalidated Evap Total 11:00 hr table 109 for operator maintenance BR

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kane Ballard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11.15.2012 Time: 1:43 Operator: K. Ballard

YES	NO**	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
DENVER · PORTLAND
REVIEWED BY: [signature] DATE 11-26-12
AUDITED BY: BR DATE 11-19-12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2m/s	3.2	3.266_WS (m/s)
Direction* 10m (deg)	NE	55.6	37.68_WD(deg)
Ambient Temperature (°C)	19	17.5	17.4_°C
Relative Humidity (%)	15%	17.3	17.68_%
Aspirated Temp 2m	19°	17.3	17.25_°C
Aspirated Temp 10m	18°	16.8	16.71_°C
Delta Temperature (°C)	N/A	-.47	-0.545_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	229.5	253.9_w/m²
Barometric Pressure (mmHg)	N/A	655.3	655.3_mmHG
Battery Voltage (V)	N/A	12.8	12.85_V
Time (MST)	N/A	1:47	13.45_LT
Date	N/A	11-15-2012	320_JD

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11·21·2012 Time: 12:34 Operator: Kami Bellard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 11/27/12

AUDITED BY BR DATE 11-26-12

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2m/s	1.4 m/s	1.587_WS (m/S)
Direction* 10m (deg)		172.6°	144.3_WD (deg
Ambient Temperature (°C)	23°	22.9	21.98_°C
Relative Humidity (%)	20%	26%	25.14_%
Aspirated Temp 2m	23°	22.1°	21.29_°C
Aspirated Temp 10m	21°	21.1°	20.27_°C
Delta Temperature (°C)	N/A	-1.1	-1.013_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	536.4	569.6_w/m²
Barometric Pressure (mmHg)	N/A	654.1	654.2_mmHG
Battery Voltage (V)	N/A	12.8	12.76_V
Time (MST)	N/A	12:37	12:30_LT
Date	N/A	11·21·2012	355_JD

129.7_WD(deg) 12:00
98_WD(deg) 12:15
125.9_WD(deg) 12:45
113_WD(deg) 13:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. guage; Attempted to clean moss and algae out of evap tank.

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

*. Invalidated 0.012 inches precipitation from the 12:45 Data set BR

Site Operator Signature: Kami Bellard

AIR SCIENCES INC.

12/5/12 DATE

RPA 12/3/12 DATE

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 11.30.2012 Time: 12:25 Operator: Kam Ball

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.2	2.5
Direction* 10m (deg)	W	224	244.0
Ambient Temperature (°C)	21°	18.2	18.3
Relative Humidity (%)	30%	32.3	33.6
Aspirated Temp 2m	21°	17°	16.9
Aspirated Temp 10m	20°	16.4°	16.27
Delta Temperature (°C)	N/A	-0.69	-0.65
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	654.5	642.7
Barometric Pressure (mmHg)	N/A	655.7	655.7
Battery Voltage (V)	N/A	12.8	12.82
Time (MST)	N/A	12:28	1230 HRS LT
Date	N/A	11.30.2012	11/30/12

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: K. Ball

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12.6.2012 Time: 11:50 Operator: Karen Bell

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC.
RPA PORTLAND 12/13/12 DATE
BR 12/13/12 DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	2.6	2.338_WS (m/s)
Direction* 10m (deg)	SW	231.4	217_WD (deg)
Ambient Temperature (°C)	19.5	19.6	19.09_°C
Relative Humidity (%)	20%	21.6	22.48_%
Aspirated Temp 2m	19.5	18.0	18.18_°C
Aspirated Temp 10m	18.0	17.4	17.41_°C
Delta Temperature (°C)	N/A	-0.64	-0.768_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	522.6	525.5_W/m²
Barometric Pressure (mmHg)	N/A	651.5	651.5_mmHG
Battery Voltage (V)	N/A	12.8	12.82_V
Time (MST)	N/A	12:03	12:00_LT
Date	N/A	12.06.2012	341_JD

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. guage
★ No precipitation recorded by data Logger (BR)

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

★ REQUEST CONFIRMATION FROM site operator THAT PRECIP WAS ACTUALLY TRIGGERED. RPA

Site Operator Signature: Karen Bell

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 12-31-12
AUDITED BY DATE 12-17-12

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12/14/2012 Time: 8:40 am Operator: Kami Ballard

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	6 m/s	4.9	6.5
Direction* 10m (deg)		212.9	196.5
Ambient Temperature (°C)	10°	3.2	3.23
Relative Humidity (%)	92%	97.5%	97.4
Aspirated Temp 2m	10°	3.2	3.18
Aspirated Temp 10m	8°	3.0	3.08
Delta Temperature (°C)	N/A	-0.12	-0.1
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	10.8	9.99
Barometric Pressure (mmHg)	N/A	647.1	647.3
Battery Voltage (V)	N/A	11.8	11.74
Time (MST)	N/A	8:43 am	0845 HRS
Date	N/A	12/14/2012	12-14-12

*Direction wind is from

Comments/Unusual Occurrences or Weather: 1.052 in rain since 11pm 12/13/2012 ← VALID - RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12/20/2012 Time: 3:34 pm Operator: Mary Moussetb

YES	NO **	
✓		1. The tower is intact and upright.
✓		2. The anemometer propeller and the wind direction vane are turning freely.
✓		3. All temperature shields are intact, and the probes are inside their shields.
✓		4. The aspirator fans are operating.
✓		5. The solar radiation sensor is level and has been cleaned.
✓		6. The solar panel is facing south and is clean.
✓		7. The precipitation gauge is clean and free of bugs and dust.
✓		8. The data logger is reading the correct time and day.
✓		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		10. Estimate and document the parameters below.

AIR SCIENCES INC. DENVER · PORTLAND
REVIEWED BY RPA DATE 12-3-12
AUDITED BY BR DATE 12/27/2012

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	6.2 m/s	8.9	9.45_ws(m/s)
Direction* 10m (deg)	* 125.9 (BR)	31.8	35.66_wd(deg)
Ambient Temperature (°C)	7	8.1	7.838_°C
Relative Humidity (%)	20	24.5	25.56_%
Aspirated Temp 2m	7	7.9	7.674_°C
Aspirated Temp 10m	8	7.7	7.367_°C
Delta Temperature (°C)	N/A	-.2	-0.257_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	398.3	337_w/m²
Barometric Pressure (mmHg)	N/A	656.2	656.2_mmHG
Battery Voltage (V)	N/A	13.03	13.04_V
Time (MST)	N/A	3:34	15:30_LT
Date	N/A	12/20/12	355_JD

*Direction wind is from

Comments/Unusual Occurrences or Weather: * High Substained winds with comparable wind direction data observed. (BR)
* VISUAL INSPECTION OF WINDS MONITOR ON 12-23-12 BY ASI FOUND THE SENSOR FUNCTIONING AND INSTALLED CORRECTLY-RPA

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature:

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 12-31-12
AUDITED BY DATE 1-2-13

AIR SCIENCES INC.

EAST PLANT
MET SITE CHECK FORM
Resolution
PROJECT NO. 262-1

Date: 12/27/2012 Time: 12:42 Operator: Mary Morissette

YES	NO **	
/		1. The tower is intact and upright.
/		2. The anemometer propeller and the wind direction vane are turning freely.
/		3. All temperature shields are intact, and the probes are inside their shields.
/		4. The aspirator fans are operating.
/		5. The solar radiation sensor is level and has been cleaned.
/		6. The solar panel is facing south and is clean.
/		7. The precipitation gauge is clean and free of bugs and dust.
/		8. The data logger is reading the correct time and day.
/		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
/		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1	.4096	2.34
Direction* 10m (deg)	SE	208.6	241.9
Ambient Temperature (°C)	4	3.77	3.386
Relative Humidity (%)	80	72.8	69.3
Aspirated Temp 2m	4	2.98	2.913
Aspirated Temp 10m	3	2.66	2.668
Delta Temperature (°C)	N/A	-.267	-0.245
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	314.8	235.5
Barometric Pressure (mmHg)	N/A	648.15	648.1
Battery Voltage (V)	N/A	13.09	13.08
Time (MST)	N/A	12:45	1245 HRS LT
Date	N/A	12/27/2012	12-27-12

1215 - 1.683
1230 - 1.792
1300 - 0.767
1315 - 1.953

1215 - 256.8
1230 - 241.9
1300 - 211.4
1315 - 276.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: snowing/raining didn't tip precip gauge*
* ALL RECORDED PRECIP VALID - RPA (1345-1415 HRS) ON 12/27/12

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary).

Site Operator Signature: Mary Morissette

Appendix I: East Plant PM_{10} and $PM_{2.5}$ Site Check Forms and Flow Audits

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/12/2012 Time: 11:33 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/09 → Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Inlet Flow check Performed
		✓	2. Visual inspection and dust removal
		✓	3. Leak check performed
		✓	4. PM10 particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND

RPA 10/16/12
REVIEWED BY DATE

AUDITED BY RMH DATE 10/15/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
		✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: FLOW CALIBRATION BY ASI ON 10/9/12 – RPA

Signature: Karen Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/19/2012 Time: 2:04 Operator: K. BaChard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 10/28/12
REVIEWED BY DATE

KJD 10/23/12
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	KJD	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: Karen BaChard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/26/2012 Time: 2:41 Operator: Kam BaCard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/8/12
AUDITED BY BR DATE 11-5-12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: Kam BaC

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One PM_{10}: S/N: M8714
Firmware: 3236-04 V3 6.3
Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 10/26/2012
Time of Flow Audit: 2:51 pm

AIR SCIENCES INC.
REVIEWED BY RPA DATE 11/8/12
AUDITED BY BR DATE 11-5-12

	BAM	STD
Ambient Temperature (AT) °c	20.7	21.1
Berometric Pressure mmHg	657	655.3

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15	0 BR	15.1	BR 0.6796
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 BR	18.5	BR 0.54
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 BR	16.7	BR 0
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.2	**Should be < 1.0 LPM**

Comments/Abnormalities: Invalidated 15:00 hrs Concentration data BR

Signature: Ruth Ballard

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11/2/2012 Time: 10:28 Operator: [illegible]

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11-8-12
AUDITED BY BR DATE 11-5-12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: _____

Signature: [illegible]

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·8·2012 Time: 10:05 Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
RPA 11/12/12
DATE
BR 11-12-12
DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11.15.2012 Time: 1:48 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/15 - Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY 11/26/12 DATE
AUDITED BY BR 11/19/12 DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Invalidated table 125 11/15/12 concentration 14:00 hr for site operator maintenance. (BR)

Signature: Karen Ballard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11/21/2012 Time: 12:40 Operator: Ken Bell

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/17 & 11/18 → BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
RPA DENVER • PORTLAND
REVIEWED BY 11/27/12
BR DATE 11-26-12
AUDITED BY

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: ASI is aware of the BAM cal error and is currently working on a resolution (BR)

Signature: Ken Bell

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 12-5-12
AUDITED BY DATE 12/3/12

EAST PLANT
BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11-30-2012 Time: 1:10 Operator: Karen Bacon

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5% 11-16 — 11/30
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Filter tape replaced
✓		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
		1. Replaced muffler on the pump (*Work performed by Air Sciences)
		2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: Membrane Density ERROR WILL BE ADDRESSED DURING THE QAPP FLOW AUDIT IN DEC 2012 – RPA

Signature: Karen

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 12-5-12
AUDITED BY DATE 12/3/12

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One PM_{10}: S/N: M9714
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 11-30-2012
Time of Flow Audit: 1:18

	BAM	STD	Calibrated
Ambient Temperature (AT) °c	18.0	19.1	19.1
Berometric Pressure mmHg	671	655	655

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	14.95	0.3
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.5	0.5	18.41	0.5
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.0	16.58	0.7
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.3	**Should be < 1.0 LPM**

Comments/Abnormalities:

Signature: Kam Bell

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12·06·2012 Time: 12:04 Operator: Kane Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/13/12
AUDITED BY BR DATE 12/13/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Removed & Cleaned reference membrane / ran Self-Test. Everything - "OK" — INSTRUMENT IS OPERATIONAL AFTER MAINT. - RMA

Signature: Kane Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [illegible] DATE 12-31-12
AUDITED BY RPA DATE 12-17-12

EAST PLANT
BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/14/2012 Time: 8:44 Operator: Kane Bellard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/06 Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

*Comments/Unusual Occurrences: DATA ON 12/06/12 @ 1400 HRS INVALIDATED DUE TO MAINT. – RPA

Signature: Kane Bellard

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12/20/2012 Time: 3:34 Operator: Mary Morissette

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 12-31-12
AUDITED BY BR DATE 12/27/12

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

> 12/21/2012 *

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: * 12/21/12 @ 1100 HRS INVALID DUE TO MONTHLY FLOW VERIFICATIONS - RPA

Signature: [signature]

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One PM_{10}: S/N: M4714

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/21/2012

Time of Flow Audit: 16:00

AIR SCIENCES INC

REVIEWED BY RPA DATE 12/31/12

AUDITED BY BR DATE 12/27/12

	BAM	STD	After Cal
Ambient Temperature (AT) °c	7.3	8.1	8.0
Berometric Pressure mmHg	661	656	655

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0 (BR)	15.01	-0.0667 (BR)
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 (BR)	18.47	-0.38 (BR)
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 (BR)	16.66	0.24 (BR)
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	.3

Should be < 1.0 LPM

Comments/Abnormalities: Invalidated 11:00 hour concentration data for maintenance. (BR)

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY [illegible] DATE 1-2-13
AUDITED BY RPA DATE 12-31-12

EAST PLANT

BAM PM10 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/27/2012 Time: 12:50 Operator: Mary Morissette

I. BAM SAMPLER – Weekly Checks.

YES	NO	
/		1. The sampler is intact and the inlet head is unobstructed.
/		2. The vacuum pump is running and sounds normal.
/		3. The temperature shield is intact, and the sensor is inside of it.
/		4. The BAM is reading the correct time and day.
/		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
/		6. Error log was checked (F3), and errors followed up on (see manual).
/		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RPA

YES	NO	
	/	1. Inlet Flow check Performed
	/	2. Visual inspection and dust removal
	/	3. Leak check performed
	/	4. PM10 particle trap cleaned
	/	5. Inlet nozzle and nozzle are cleaned

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RPA

YES	NO	
	/	1. Filter tape replaced
	/	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RPA

YES	NO	
	/	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	/	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

RPA

YES	NO	
	/	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	/	2. Inlet system cleaned (*Work performed by Air Sciences)

Comments/Unusual Occurrences: 12/21 - maintenance (error)
12-21-12 @ 1100HRS INVALIDATED DUE TO MONTHLY FLOW VERIFICATIONS - RPA

Signature: Mary Morissette

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/12/2012 Time: 11:29 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/02 – 10/09 → BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 10/10/12
REVIEWED BY DATE

AUDITED BY RMH DATE 10/15/12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RMH	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: 10/9/12 – Serviced 2.5 BAM REF. MEMBRANE 15% AS I CORRECTED BAM CAL ERRORS — RPA

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/19/2012 Time: 2:06 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Inlet Flow check Performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — DATE 10/28/12
KJD — AUDITED BY — DATE 10/23/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Filter tape replaced
	✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

KJD

YES	NO	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 10/26/2012 Time: 14:43 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
RPA 11/8/12
REVIEWED BY DATE
BR 11-5-12
AUDITED BY DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES NO BR

	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: M6466

Firmware: 3236-06 V 3.6.3

Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 10/24/2012

Time of Flow Audit: 3:09 pm

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA DATE: 11/8/12

AUDITED BY: BR DATE: 11-5-12

	BAM	STD
Ambient Temperature (AT) °c	19.8	20.2
Berometric Pressure mmHg	652	654

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.	0 BR	15.2	1.33 BR
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 BR	18.6	1.09 BR
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 BR	16.8	0.60 BR
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 15.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.1	**Should be < 1.0 LPM**

Comments/Abnormalities: Invalidated the 15:00 hr conc + Flow data BR.

Signature: Kami Bell

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11/2/2012 Time: 10:30 Operator: Kara BcCod

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	BR	
		↓	1. Inlet Flow check Performed
		↓	2. Visual Inspection and dust removal
		↓	3. Leak check performed
		↓	4. PM10 and 2.5 cyclone particle trap cleaned
		✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 11-8-12
REVIEWED BY DATE

BR 11-5-12
AUDITED BY DATE

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	BR	
		↓	1. Filter tape replaced
		✓	2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	BR	
		↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
		✓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	BR	
		↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		✓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Ka Bc

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·9·2012 Time: 10:02 Operator: Kane Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/12/12
AUDITED BY BR DATE 11-12-12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kane Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11·15·2012 Time: 1:30 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
PORTLAND
11-26-12 DATE
BR 11/19/12 DATE

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 11/21/2012 Time: 12:38 Operator: Karen Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). N/A
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/27/12
AUDITED BY BR DATE 11-26-12

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Filter tape replaced
	↓	2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: _____

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 12/3/12
AUDITED BY DATE 12-5-12

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER · PORTLAND

Date: 11-30-2012 Time: 12:37 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/28 - BAM Cal Membrane 5% 11/29 - Tape Tension
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Filter tape replaced
✓		2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Replaced muffler on the pump (*Work performed by Air Sciences)
		2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA
		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Membrane Density ERROR WILL BE ADDRESSED DURING THE QRTLY FLOW AUDIT DEC 2012 BY ASI - RPA

Signature: K. Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 12/3/12 12-5-12
AUDITED BY DATE

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: M6464
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 11·30·2012
Time of Flow Audit: 11:22

	BAM	STD
Ambient Temperature (AT) °c	19.7	18.3
Berometric Pressure mmHg	655	656

Calibrated 18.3

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	15.13	-0.9
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.0	18.46	-0.3
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.6	-0.6	16.78	-1.1
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM
(2) Leak Test	.3

Should be < 1.0 LPM

Comments/Abnormalities:

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 12/06/2012 Time: 12:12 Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Inlet Flow check Performed
	↓	2. Visual inspection and dust removal
	↓	3. Leak check performed
	↓	4. PM10 and 2.5 cyclone particle trap cleaned
	↓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 12/13/12
AUDITED BY BR DATE 12/13/12

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Removed & Cleaned reference membrane / Ran Self-Test Everything – "ok"
INTERMITTENT REF. MEMBRANE DENSITY ERRORS NOTED. REQUEST REPLACEMENT OF THE REFERENCE MEMBRANE — RPA

Signature: Karen Ballard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/14/2012 Time: 8:47 Operator: Kane Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Replaced Reference Membrane w/ # 6978 C.821
INVALIDATED PM2.5 DATA COLLECTED @ 1000HRS ON 12/14/12 AS A RESULT FROM MAINT. — RPA

Signature: Kane B

**Fax completed form to Air Sciences at 303-279-3796

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/20/2012 Time: 3:30 Operator: Kane BaClard

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA 12-31-12
AUDITED BY BR 12/27/12

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. **BAM SAMPLER** – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

12/21/2012 *

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	
	✓	1. Filter tape replaced
✓		2. Ran the Self-Test function

III. **BAM SAMPLER** – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	↓	2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. **BAM SAMPLER** – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO BR	
	↓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	↓	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: *12-21-12 @ 1100 HRS INVALID DUE TO MONTHLY FLOW VERIFICATIONS – RPA

Signature: Kane BaClard

**Fax completed form to Air Sciences at 303-279-3796

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: 1466

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/21/2012

Time of Flow Audit: 10:30 am

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 12-31-12

AUDITED BY BR DATE 12/27/12

	BAM	STD
Ambient Temperature (AT) °c	7.7	8.1
Berometric Pressure mmHg	655	656

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0 BR	15.13	.087 BR
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 BR	18.53	.71 BR
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 BR	16.79	.54 BR
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)

(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	.4	**Should be < 1.0 LPM**

Comments/Abnormalities: Invalidated 11:00 hour concentration data for maintenance BR.

Signature: [signature]

Upon completion of this form, fax to Air Sciences at 303-279-3796

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 1-2-13
AUDITED BY DATE 12-31-12

EAST PLANT

BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/27/2012 Time: 12:20 Operator: Mary Morissette

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

II. BAM SAMPLER – Routine Maintenance (monthly). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Inlet Flow check Performed
			2. Visual inspection and dust removal
			3. Leak check performed
			4. PM10 and 2.5 cyclone particle trap cleaned
			5. Inlet nozzle and nozzle are cleaned

II. BAM SAMPLER – Routine Maintenance (every 2 months). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Filter tape replaced
			2. Ran the Self-Test function

III. BAM SAMPLER – Routine Maintenance (semiannual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Replaced muffler on the pump (*Work performed by Air Sciences)
			2. Complete calibration of flow system (*Work performed by Air Sciences)

IV. BAM SAMPLER – Routine Maintenance (annual). Check yes if maintenance was performed during this visit. *See page 56 of BAM manual.*

YES	NO	RPA	
			1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
			2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: 12/21 - maintenance (error) *
* 12-21-12 @ 1100 HRS INVALID DUE TO MONTHLY FLOW VERIFICATIONS -RPA

Signature: Mary Morissette

**Fax completed form to Air Sciences at 303-279-3796

Appendix J: East Plant SO_2, NO_x, and O_3 Site Check and Audit Forms

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REVIEWED BY RPA DATE 11-8-12
AUDITED BY DATE 11-26-12

AIR SCIENCES INC.
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Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 10/26/2012

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	~~[illegible]~~ 15:01 LT
Instrument Check Stop Time	15:11 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.3
Instrument Range	500 PPB
Source Gas Conc.	40% SO_2

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.3	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	100.7	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.3	0.5	± 2 PPB	N
100 PPB	100.7	101.2	± 2 PPB	N

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	478	*Sample Press. (Ambient ± 2 in-Hg)*	22.9
UV Lamp (1000 - 4800 mV)	3143.2	*Lamp Ratio (30 - 120%)*	87.6%
Slope (1 ± 0.3)	1.179	*BOX Temp. (Ambient ± 5°C)*	33.0
Offset (< 250 mV)	17.0	*HVPS (400 - 900 V)*	571

Operator comments/observations:

Operator Signature: Kami Ballard

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REVIEWED BY RPA DATE 11-26-12
AUDITED BY DATE 11-12-12

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Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 11·9·2012

Sampler Make/Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	10:23 LT
Instrument Check Stop Time	10:38 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	24.4
Instrument Range	500 PPB
Source Gas Conc.	40% SO2

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.005	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	101.6	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.005	.3	± 2 PPB	No
100 PPB	101.6	102.1	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	478	*Sample Press. (Ambient ± 2 in-Hg)*	22.8
UV Lamp (1000 - 4800 mV)	3122.2	*Lamp Ratio (30 - 120%)*	87
Slope (1 ± 0.3)	1.179	*BOX Temp. (Ambient ± 5°C)*	32.4
Offset (< 250 mV)	17.0	*HVPS (400 - 900 V)*	571

Operator comments/observations:

Operator Signature: Kami Ballard

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REVIEWED BY [signature] DATE 12-5-12
AUDITED BY RPA DATE 11/27/12

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Resolution EAST
SO_2 Monitoring Form

Site Operator: Kane Ballard Date: 11·21·2012

Sampler Make /Model		T100
Sampler SN		SN193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	1:00 LT
Instrument Check Stop Time	1:14 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	21.7
Instrument Range	500 PPB
Source Gas Conc.	40% SO_2

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.4	–	± 3% of Full Scale (-15 to 15 PPB)	NO
100	102.4	–	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.4	0.4	± 2 PPB	No
100 PPB	102.4	102.9	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	475	*Sample Press. (Ambient ± 2 in-Hg)*	22.7
UV Lamp (1000 - 4800 mV)	3106.8	*Lamp Ratio (30 - 120%)*	86.6
Slope (1 ± 0.3)	1.179	*BOX Temp. (Ambient ± 5°C)*	32.3
Offset (< 250 mV)	17.0	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED SO^2 DATA FOR THE 1400HRS DATA SET. – RPA

Operator Signature: Kane Ballard

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Resolution EAST

SO_2 Monitoring Form

Site Operator: Kami BeCard Date: 12/06/2012

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	1:20 LT
Instrument Check Stop Time	1:30 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	22.5
Instrument Range	500 PPB
Source Gas Conc.	40% 80%

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.37	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	103.01	—	≤ ± 10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.37	.69	± 2 PPB	No
100 PPB	103.01	103.4	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	472	*Sample Press. (Ambient ± 2 in-Hg)*	22.4
UV Lamp (1000 - 4800 mV)	3085.3	*Lamp Ratio (30 - 120%)*	86.1
Slope (1 ± 0.3)	1.179	*BOX Temp. (Ambient ± 5°C)*	32.2
Offset (< 250 mV)	17.0	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED THE 1600 HRS DATA SET FOR SO2 R. ATTRINGE

Operator Signature: Kami BeCard

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AUDITED BY DATE 12-31-12

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Resolution EAST
SO_2 Monitoring Form

Site Operator: RORY ATTRIDGE Date: 12-23-12

Sampler Make /Model		T 100
Sampler SN		193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	N/A

Instrument Check Start Time	1330
Instrument Check Stop Time	1815
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	21.6
Instrument Range	500 ppb
Source Gas Conc.	40 ppm

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO2 Response (PPB)	Final SO2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.2	—	± 3% of Full Scale (-15 to 15 PPB)	NO
100	99.2	—	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T100 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.2	0.3	± 2 PPB	NO
100 PPB	99.2	99.4	± 2 PPB	NO

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	415	*Sample Press. (Ambient ± 2 in-Hg)*	23.1
UV Lamp (1000 - 4800 mV)	3046.4	*Lamp Ratio (30 - 120%)*	84.9
Slope (1 ± 0.3)	1.127	*BOX Temp. (Ambient ± 5°C)*	30.7
Offset (< 250 mV)	17.2	*HVPS (400 - 900 V)*	571

Operator comments/observations:

DATA COLLECTED FROM 1300 - 1900 HRS INVALID DUE TO TESTING - RPA

Operator Signature: [signature]

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Bollard **Date:** 10/26/2012

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	14:44
Instrument Check Stop Time	15:01 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	73.4
Instrument Range	500 PPB
Source Gas Conc.	40% Nox

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0	-2.9	-2.9	—	±3% of full Scale (±15 PPB)	No
100 PPB	93.4	0.1	93.7	—	≤±10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	0.1	NO	-0.1	±2 PPB	No
	NO_2	-2.9	NO_2	-3.2		
	NO_x	-29	NO_x	-3.0		
100 PPB	NO	93.4	NO	93.1	±2 PPB	NO
	NO_2	0.1	NO_2	-0.03		
	NO_x	93.7	NO_x	93.4		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	502	*Moly Temp. (315 ± 5°C)*	316.9
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.131	*NO Slope (1 ± 0.3)*	1.116
NOx Offset (0 ± 100)	6.5	*NO Offset (0 ± 100)*	0.7

Operator comments/observations:

Operator Signature: Kami Bollard

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Ballard Date: 11.9.2012

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	10:00 LT
Instrument Check Stop Time	10:20 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	24.5
Instrument Range	500 PPB
Source Gas Conc.	40% NOx

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0	.3	.3	—	±3% of full Scale (±15 PPB)	No
* 100 PPB	99.84	0.619	100.4	—	≤±10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	0	NO	-0.2	±2 PPB	No
	NO_2	.3	NO_2	.2		
	NO_x	.3	NO_x	.5		
100 PPB	NO	99.7	NO	99.5	±2 PPB	No
	NO_2	.5	NO_2	0.2		
	NO_x	100.3	NO_x	100		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	488	*Moly Temp. (315 ± 5°C)*	317.2
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.229	*NO Slope (1 ± 0.3)*	1.241
NOx Offset (0 ± 100)	2.1	*NO Offset (0 ± 100)*	.7

Operator comments/observations:
Clock is 1 hr behind. (Daylight Savings)

Operator Signature: Kami Ballard

* Data Pulled from Table Nox SPAN @ 0919 hrs on 11/9/12 – RPA

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kane Ballard Date: 11·21·2012

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	12:42 LT
Instrument Check Stop Time	1:01 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.6
Instrument Range	500PPB
Source Gas Conc.	40% Nox

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.2	1.0	0.8	No	±3% of full Scale (±15 PPB)	No
100 PPB	95.5	0.6	96.1	No	≤±10% (90 to 110 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-0.2	NO	-0.2	±2 PPB	No
	NO_2	0.0	NO_2	0.8		
	NO_x	0.8	NO_x	0.8		
100 PPB	NO	95.5	NO	95.3	±2 PPB	No
	NO_2	0.6	NO_2	0.3		
	NO_x	96.1	NO_x	96.0		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	485	*Moly Temp. (315 ± 5°C)*	314.7
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.147	*NO Slope (1 ± 0.3)*	1.155
NOx Offset (0 ± 100)	2.1	*NO Offset (0 ± 100)*	0.7

Operator comments/observations:

INVALIDATED THE 1300-1400 HRS DATA SETS) FOR NOX - RPA

Operator Signature: Kane Ballard

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Resolution EAST

NO_x Monitoring Form

Site Operator: Kami Bollard Date: 12·06·2012

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	

Instrument Check Start Time	~~1092~~ 1102 LT
Instrument Check Stop Time	1:20 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	22.5
Instrument Range	500 PPB
Source Gas Conc.	40% Nox

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-.3	.5	.2	—	±3% of full Scale (±15 PPB)	No
100 PPB	99.3	0	99.3		≤±10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-.3	NO	-.5	±2 PPB	No
	NO_2	.5	NO_2	.3		
	NO_x	.2	NO_x	.2		
100 PPB	NO	99.3	NO	99.2	±2 PPB	No
	NO_2	0	NO_2	-0.3		
	NO_x	99.3	NO_x	99.1		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	492	*Moly Temp. (315 ± 5°C)*	314.8
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.147	*NO Slope (1 ± 0.3)*	1.155
NOx Offset (0 ± 100)	2.1	*NO Offset (0 ± 100)*	.7

Operator comments/observations:

INVALIDATED THE 1600 HRS DATA SETS FOR NO-NO2 AND NOX - R. ATTRINGER

Operator Signature: Kami Bollard

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AUDITED BY DATE 12-31-12

Resolution EAST
NO_x Monitoring Form

Site Operator: RORY ATTRIDGE Date: 12-23-12

Sampler Make /Model		T 200
Sampler SN		197
Dilution Calibrator Model/SN	Primary	T700/ SN 191
	Transfer	N/A

Instrument Check Start Time	1330
Instrument Check Stop Time	1815
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	21.6
Instrument Range	500 PPB
Source Gas Conc.	40 ppm

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/Span with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.8	-2.1	-2.8	0.0	± 3% of full Scale (±15 PPB)	NO
100 PPB	99.3	0.5	99.9	100.2	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria	Adjustment Required? Y/N
Zero Air	NO	-0.8	NO	-0.8	± 2 PPB	NO
	NO_2	-2.1	NO_2	-2.4		
	NO_x	-2.8	NO_x	-2.9		
100 PPB	NO	99.3	NO	99.2	± 2 PPB	NO
	NO_2	0.5	NO_2	0.3		
	NO_x	99.9	NO_x	99.8		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	485	*Moly Temp. (315 ± 5°C)*	314.6
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.137	*NO Slope (1 ± 0.3)*	1.138
NOx Offset (0 ± 100)	1.4	*NO Offset (0 ± 100)*	-2.2

Operator comments/observations:

DATA COLLECTED FROM 1300-1900 HRS INVALID DUE TO TESTING -RPA

Operator Signature: Rory Attridge

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11-26-12 DATE

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Resolution EAST
O_3 Monitoring Form

Site Operator: Kami Ballard Date: 10/26/2012

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700 / SN 191
	Transfer	—

Instrument Check Start Time	15:12 LT
Instrument Check Stop Time	15:33 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	25.8
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.2	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	99.8	—	≤ ± 7% (93 to 107 PPB)	NO

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0.2	.9	± 2 PPB	N
100 PPB	99.8	100.2	± 2 PPB	N

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	560	*Sample Temp. (10 - 50 °C)*	41.5
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	29.9
Slope (1 ± 0.15)	.921	*O3 Measure (2500 - 4800 mV)*	3938.6
Offset (0.0 ± 5 PPB)	0.7	*O3 Reference (2500 - 4800 mV)*	3942.2

Operator comments/observations:

Operator Signature: Kami Ballard

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REVIEWED BY RPA DATE 11-12-12
AUDITED BY DATE 11-26-12

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami Ballard Date: 11.9.2012

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/ SN191
	Transfer	—

Instrument Check Start Time	10:36 LT
Instrument Check Stop Time	10:50 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.8
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0	—	≤ ± 2% of Full Scale (±10 PPB)	No
100		—	≤ ± 7% (93 to 107 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	0	.6	± 2 PPB	No
100 PPB	100.2	100.9	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	559	*Sample Temp. (10 - 50 °C)*	40.9
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	27.7
Slope (1 ± 0.15)	.921	*O3 Measure (2500 - 4800 mV)*	3912.5
Offset (0.0 ± 5 PPB)	.7	*O3 Reference (2500 - 4800 mV)*	3916.2

Operator comments/observations:

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND
12-5-12 DATE
RPA
11/27/12 DATE

AIR SCIENCES INC.
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Resolution EAST

O_3 Monitoring Form

Site Operator: Kane Ballard Date: 11·21·2012

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	1:15 LT
Instrument Check Stop Time	1:26 LT
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	71.2
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3. Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.1	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	101.1	—	≤ ± 7% (93 to 107 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	-0.1	.5	± 2 PPB	No
100 PPB	101.1	101.6	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	551	*Sample Temp. (10 - 50 °C)*	39.6
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	27.5
Slope (1 ± 0.15)	0.921	*O3 Measure (2500 - 4800 mV)*	3886.1
Offset (0.0 ± 5 PPB)	0.7	*O3 Reference (2500 - 4800 mV)*	3889.5

Operator comments/observations:
INVALIDATED THE OZONE DATA FOR THE 14:00 HRS DATA SET - RPA

Operator Signature: Kane Ba

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REVIEWED BY [signature] DATE 12-31-12
AUDITED BY RPA DATE 12-11-12

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami Ballard Date: 12·16·2012

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN191
	Transfer	—

Instrument Check Start Time	1:31 LT
Instrument Check Stop Time	
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	21.5
Instrument Range	500 PPB

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	.2	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	101.1		≤ ± 7% (93 to 107 PPB)	No

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	.2	.1	± 2 PPB	No
100 PPB	101.1	101.5	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	557	*Sample Temp. (10 - 50 °C)*	40.1
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	27.5
Slope (1 ± 0.15)	.921	*O3 Measure (2500 - 4800 mV)*	3842.5
Offset (0.0 ± 5 PPB)	0.7	*O3 Reference (2500 - 4800 mV)*	3846.7

Operator comments/observations:
INVALIDATED THE 1600 HRS DATA SET FOR O_3 R. ATTRIDGE

Operator Signature: [signature]

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REVIEWED BY [signature] DATE 12-31-12
AUDITED BY RPA DATE 12-27-12

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Resolution EAST
O_3 Monitoring Form

Site Operator: Rory Attridge Date: 12-23-12

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	Primary	T700/191
	Transfer	N/A

Instrument Check Start Time	1330
Instrument Check Stop Time	1815
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	21.6
Instrument Range	500ppb

Level 1 Zero/Span (once every 2 weeks)
Check the Zero/Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O3 Response (PPB)	Final O3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.2	/	≤ ± 2% of Full Scale (±10 PPB)	NO
100	103.7	100.5	≤ ± 7% (93 to 107 PPB)	YES

Check the real time Analog vs. Digital converter.

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria	Adjustment Required? Y/N
Zero Air	-0.2	0.4	± 2 PPB	NO
100 PPB	100.5	100.8	± 2 PPB	NO

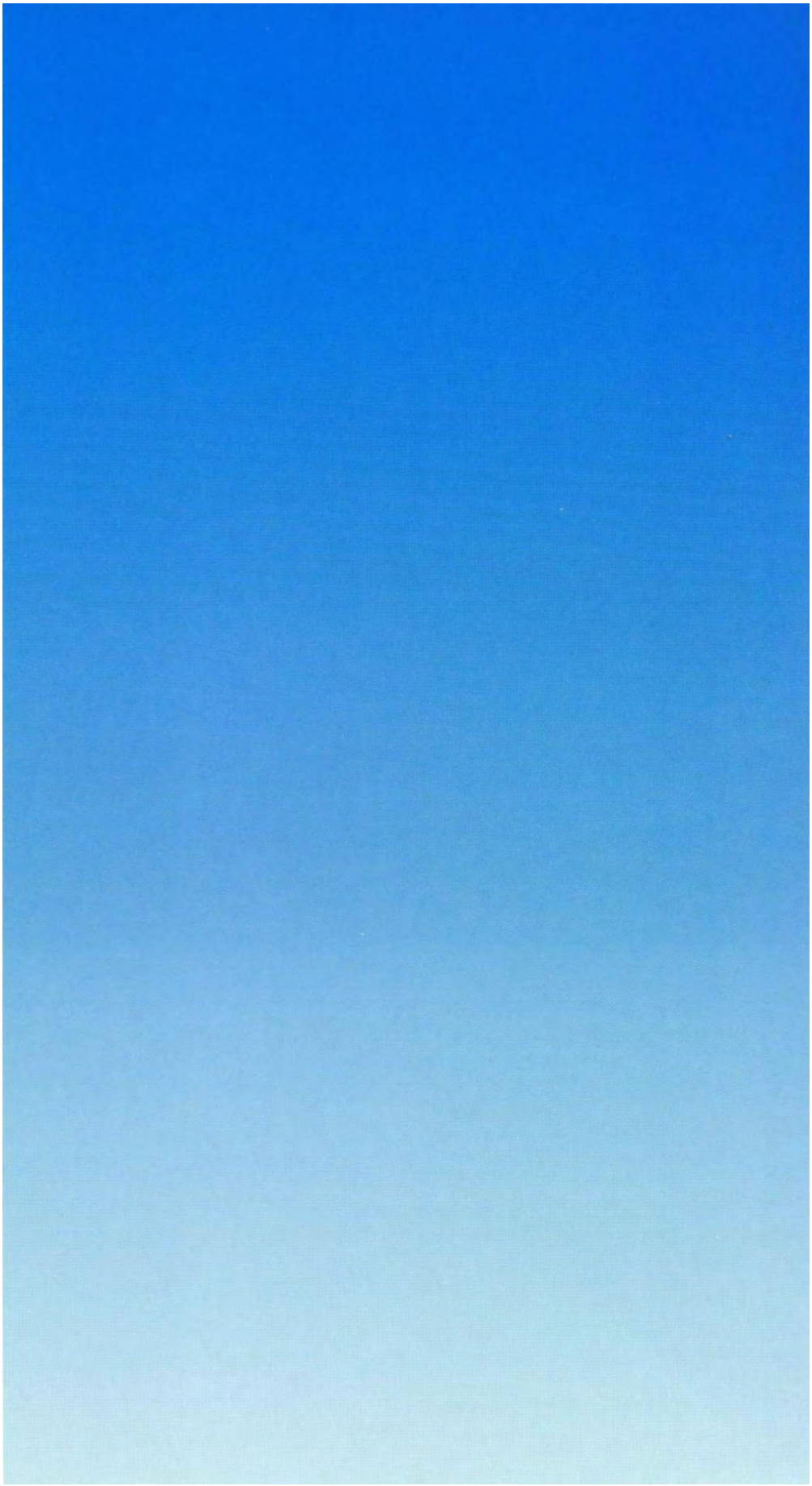
Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	561	*Sample Temp. (10 - 50 °C)*	37.5
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	23.7
Slope (1 ± 0.15)	.899	*O3 Measure (2500 - 4800 mV)*	3805.9
Offset (0.0 ± 5 PPB)	-0.7	*O3 Reference (2500 - 4800 mV)*	3807.6

Operator comments/observations:
DATA COLLECTED FROM 1300-1900 HRS INVALID DUE TO TESTING -RPA

Operator Signature: [signature]

Appendix K: Audits and Calibrations



Air Quality Calibration Report East Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
KEITH DEHENAU
AIR SCIENCES INC.

PROJECT 262-5
OCTOBER 2012

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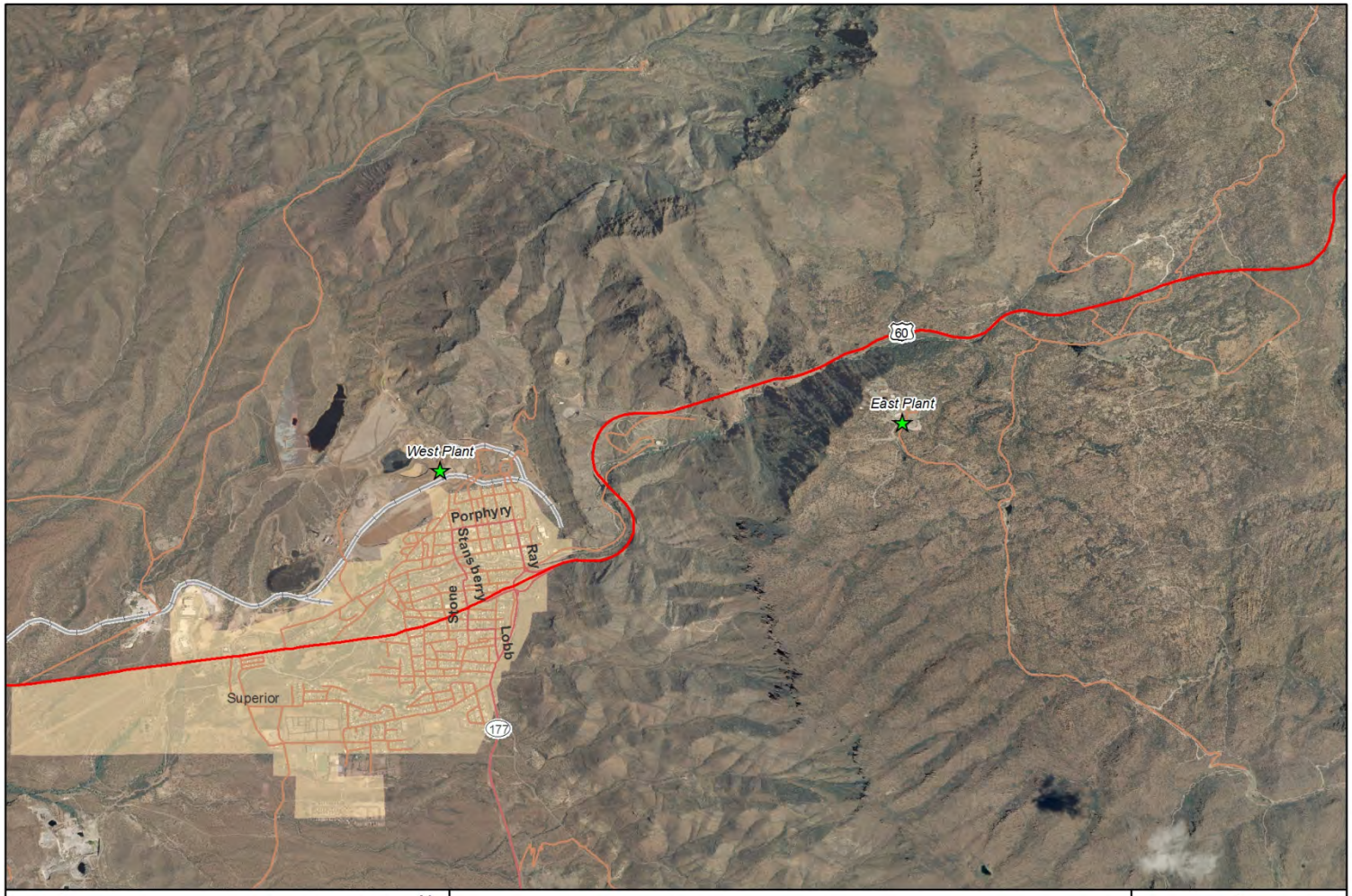
Appendix A: Audit Forms

1.0 INTRODUCTION

On October 9, 2012, the air quality instrumentation was calibrated at the Resolution Copper East Plant, near Superior, AZ. The East Plant monitoring station is operated by the Resolution Copper Mining company and is located approximately two miles east of the West operation plant (see Figure 1). The purpose of this document is to provide a brief synopsis of the air quality monitoring system and of the calibration procedures for the particulate and ambient gas instrumentation at the East plant site. The calibration was conducted in accordance with the following guideline documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Transfer Standards for the Calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-10-001)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1: Project Location Map – East Plant and West Plant Monitoring Station Locations



0 0.4 0.8 1.6 Miles

N

Version: 06/08/2011

Project No: 262-01

Figure 1

East Plant and West Plant Monitor Locations

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2.0 SYSTEM DESCRIPTION

The parameters calibrated at the East monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and ozone (O_3). The analyzers are housed in a 60-square-foot climate controlled trailer. Inlet heights are listed in Table 1.

Table 1. Instruments and inlet heights

Parameter	Approximate Height (meters)
PM_{10}	3
$PM_{2.5}$	3
NO_2	3
SO_2	3
O_3	3

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

3.0 CALIBRATION METHODOLOGY

This section provides the calibration procedures for the particulate and ambient gas instrumentation at the East monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Particulate Matter Calibration Procedures

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified deltaCal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the instrument were recorded on a standardized form.

3.2 Ambient Gas Calibration Procedures

Calibration of the Teledyne T100 SO_2 analyzer involved a Multi-Point Audit (MPA) and an Analog to Digital (A2D) verification. The MPA was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol calibration gas with a clean zero-air source to calibrate the T100 analyzer at zero, and at five points within the instrument range—typically a points from 100 to 500 PPB of SO_2. An A2D verification check of the T100 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Calibration of the Teledyne T200 NO_2 analyzer involved an MPA and an A2D verification. The SPC was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit gas with a clean zero-air source to calibrate the T200 analyzer at zero, and five points within the instrument range—typically point from 100 to 500 PPB of NO_X. A verification check of the T200 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Calibration of the Teledyne T400 O_3 analyzer involved an MPA, and an A2D verification. The SPC was performed by using the T700 calibrator to generate O_3 gas to calibrate the T400 analyzer at zero, and at a single point within the instrument range—typically a point from 100 to 500 PPB of O_3. An MPA was performed using a 700E transfer standard calibrator to evaluate the calibration by verifying the analyzer's response to zero and five upscale spans. After the MPA, a verification check of the T400 instrument against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

4.0 RESULTS AND RECOMMENDATIONS

All instruments and sensors were within their recommended tolerance parameters at the Resolution Copper East Plant monitoring site.

Appendix A: Calibration Forms

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	10/09/2012	**Audited By:**	K. DeHenau
Audit Time:	1020-1108hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.3 LPM	Should Be: <1.0	as left:	0.3 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	25.6	24.6	as left:	24.6	24.3	Adjusted	X
Barometric Pressure (mmHg):	as found:	656	655.5	as left:	656	655	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	15.05	as left:	15.0	14.96	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.6	as left:	18.4	18.43	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.8	as left:	16.7	16.65	Adjusted	X

Audit Notes: **Monitor found in a very clean, serviceable condition. Replaced PM10 head gasket. -KJD**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left		N/A	x
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

Signature: _____

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M3193
Audit Date:	10/09/2012	**Audited By:**	K. DeHenau
Audit Time:	1020-1101hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.3 LPM	Should Be: <1.0	as left:	0.1 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	24.7	26.7	as left:	26.7	26.7	Adjusted	X
Barometric Pressure (mmHg):	as found:	655	655.5	as left:	655	655.5	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	15.17	as left:	15.0	15.03	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.58	as left:	18.4	18.39	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.81	as left:	16.7	16.5	Adjusted	X

Audit Notes: **Instrument found in a clean, serviceable condition. Replaced PM10 head gasket. Cleaned reference membrane due to repeated membrane density errors. -KJD**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
on	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

Signature: _____

AIR SCIENCES INC.

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Resolution EAST

NO_x Monitoring Form

Site Operator: K. DeHenau **Date: 10-09-2012**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	**T700/191**
	Transfer	**700E/1098**

Instrument Check Start Time	1600
Instrument Check Stop Time	2015
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	22.9
Instrument Range	500 ppb
Source Gas Conc.	40 ppm NO

Level 1 Zero/ Span (once every 2 weeks)
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	NO Response (PPB)	NO_2 Response (PPB)	NO_x Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.3	2.0	2.3	0.1	± 3% of full scale (± 15 PPB)	Y
100 PPB	99.4	3.0	102.4	102.0	≤ ± 10% (90 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPM)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	0.300	NO	0.000	± 2	N
	NO_2	2.000	NO_2	1.700		
	NO_x	2.300	NO_x	2.200		
400	NO	99.400	NO	99.200	± 2	N
	NO_2	3.000	NO_2	2.620		
	NO_x	102.400	NO_x	102.100		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	502	Moly Temp. (315 ± 5°C)	314.0
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 – 900 V)	600

NO_x Slope (1 ± 0.3)	1.148	NO Slope (1 ± 0.3)	1.135
NO_x Offset (0 ± 100)	3.6	NO Offset (0 ± 100)	0.5

Operator comments/ observations:

_____

_____

_____

Operator Signature:

_____

_____

_____

Multipoint Calibration (Quarterly, or as needed):
Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	0.3	2.0	2.3	1.5	PASS, 0 ± 5
100	100	99.4	3.0	102.4	104.2	PASS, 1.8%
200	200	205.5	1.8	207.3	206.9	PASS, 0.2%
300	300	304.8	5.5	310.3	309.7	PASS, 0.2%
400	400	404.9	8.5	413.4	412.4	PASS, 0.3%
500	501	503.8	11.3	515.1	516.1	PASS, 0.2%

Best Fit Line (BFL)
$Y = 1.0271x + 1.5209$
$R^2 = 0.99996$

Transfer Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	-0.1	0.0	-0.1	3.0	PASS, 0 ± 5
100	103	104.0	0.0	104.0	104.8	PASS, 0.8%
200	202	202.5	4.7	206.4	202.7	PASS, 1.8%
300	301	297.9	5.6	303.5	300.6	PASS, 1.0%
400	400	394.1	6.5	400.5	398.4	PASS, 0.5%
500	499	480.6	10.8	491.5	496.3	PASS, 1.0%

Best Fit Line (BFL)
$Y = 0.9885x + 3.023$
$R^2 = 0.99965$

Operator comments/ observations:

None.

Operator Signature (Date and Time): _____

AIR SCIENCES INC.

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Resolution EAST

O_3 Monitoring Form

Site Operator: K. DeHenau **Date: 10-09-2012**

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	700E/ 1098

Instrument Check Start Time	1300
Instrument Check Stop Time	2015
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	25.7
Instrument Range	500 ppb

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/ Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O_3 Response (PPB)	Final O_3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.400	0.300	≤ ± 2% of Full Scale (± 10 PPB)	N
100	100.700	100.200	≤ ± 7% (93 to 107 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.300	0.497	± 2	N
100	100.200	100.700	± 2	N

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	557	Sample Temp. (10 - 50°C)	38.2
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	25.9
Slope (1 ± 0.15)	0.925	O_3 Measure (2500 – 4800 mV)	3984.7
Offset (0.0 ± 5 PPB)	1.2	O_3 Reference (2500 – 4800 mV)	3986.0

Operator comments/ observations:

Operator Signature:

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	0.3	2.0	PASS, < 2% FS
100	100.0	100.2	100.1	PASS, 0.1%
200	200.0	199.8	198.3	PASS, 0.8%
300	299.0	299.6	295.4	PASS, 1.4%
400	400.0	394.5	394.6	PASS, 0.0%
500	500.0	490.3	492.7	PASS, 0.5%

Best Fit Line (BFL)
$Y = 0.9815x + 1.9579$
$R^2 = 0.99981$

Target Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	0.400	0.340	PASS, < 2% FS
100	101.000	99.900	99.362	PASS, 0.5%
200	201.000	198.300	197.403	PASS, 0.5%
300	300.000	294.200	294.465	PASS, 0.1%
400	402.000	394.700	394.467	PASS, 0.1%
500	501.000	491.500	491.528	PASS, 0.0%

Best Fit Line (BFL)
$Y = 0.9804x + 0.3398$
$R^2 = 1.0$

Operator Comments/ Observations:

The Primary Standard Dilution Calibrator T700 took a significant amount of time to stabilize between each span during the Multipoint Calibration.

Operator Signature (Date and Time): _____

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: K. DeHenau **Date: 10-09-2012**

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	N/A

Instrument Check Start Time	1500
Instrument Check Stop Time	2015
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	23.14
Instrument Range	500 ppb
Source Gas Conc.	40 ppm

Level 1 Zero/ Span (once every 2 weeks):
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO_2 Response (PPB)	Final SO_2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.000	0.030	± 3% of Full Scale (-15 to 15 PPB)	N
100	100.000	100.300	≤ ± 10% (360 to 110 PPB)	N

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	43i Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.030	0.290	± 2	N
100	100.300	100.490	± 2	N

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	481	Sample Press. (Ambient ± 2 in-Hg)	22.9
UV Lamp (1000 – 4800 mV)	3162.7	Lamp Ratio (30 – 120%)	88.2
Slope (1 ± 0.3)	1.158	BOX Temp. (Ambient ± 5°C)	29.6
Offset (< 250 mV)	20.1	HVPS (400 – 900 V)	571

Operator comments/ observations:

_____

_____

Operator Signature:

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range with the Dilution Calibrator.

Primary Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	0.030	0.225	PASS, < 2% FS
100	100.000	100.300	100.860	PASS, 0.6%
200	200.000	202.100	201.495	PASS, 0.3%
300	300.000	302.800	302.131	PASS, 0.2%
400	400.000	402.400	402.766	PASS, 0.1%
500	501.000	504.300	504.408	PASS, 0.0%

Best Fit Line (BFL)
$Y = 1.0064x + 0.2246$
$R^2 = 1.0$

Transfer Standard:

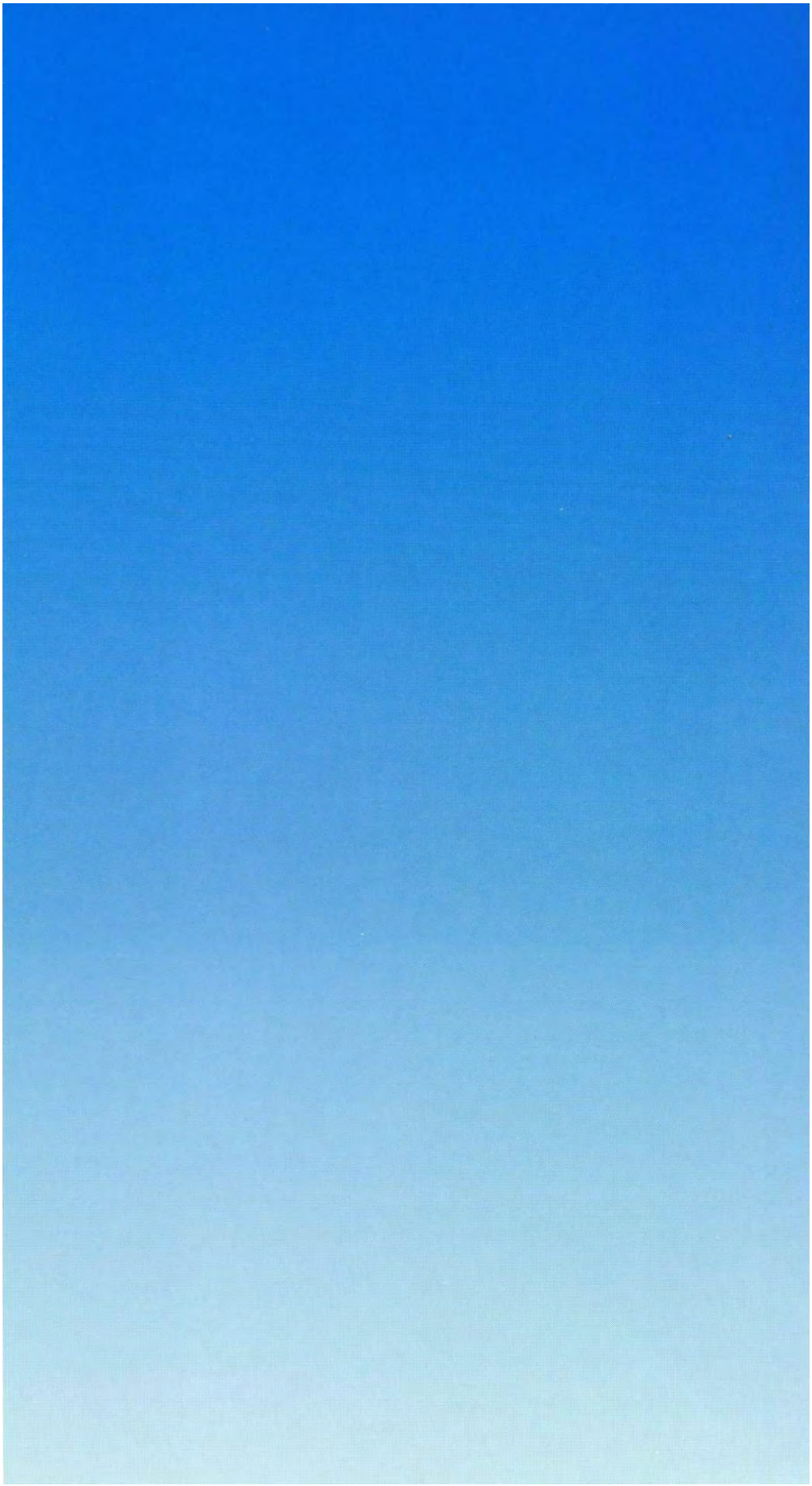
Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	-0.200	-0.236	PASS, < 2% FS
100	102.000	100.500	101.683	PASS, 1.2%
200	202.000	202.300	201.603	PASS, 0.3%
300	301.000	300.000	300.524	PASS, 0.2%
400	399.000	399.300	398.446	PASS, 0.2%
500	500.000	499.000	499.366	PASS, 0.1%

Best Fit Line (BFL)
$Y = 0.9992x + 0.2362$
$R^2 = 0.9999$

Operator Comments/ observations:

The SO_2 Multipoint Audit did not utilize the 700E Transfer Standard Dilution Calibrator during this visit.

Operator Signature (Date and Time):



Air Quality Calibration Report West Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
KEITH DEHENAU
AIR SCIENCES INC.

PROJECT 262-5
OCTOBER 2012

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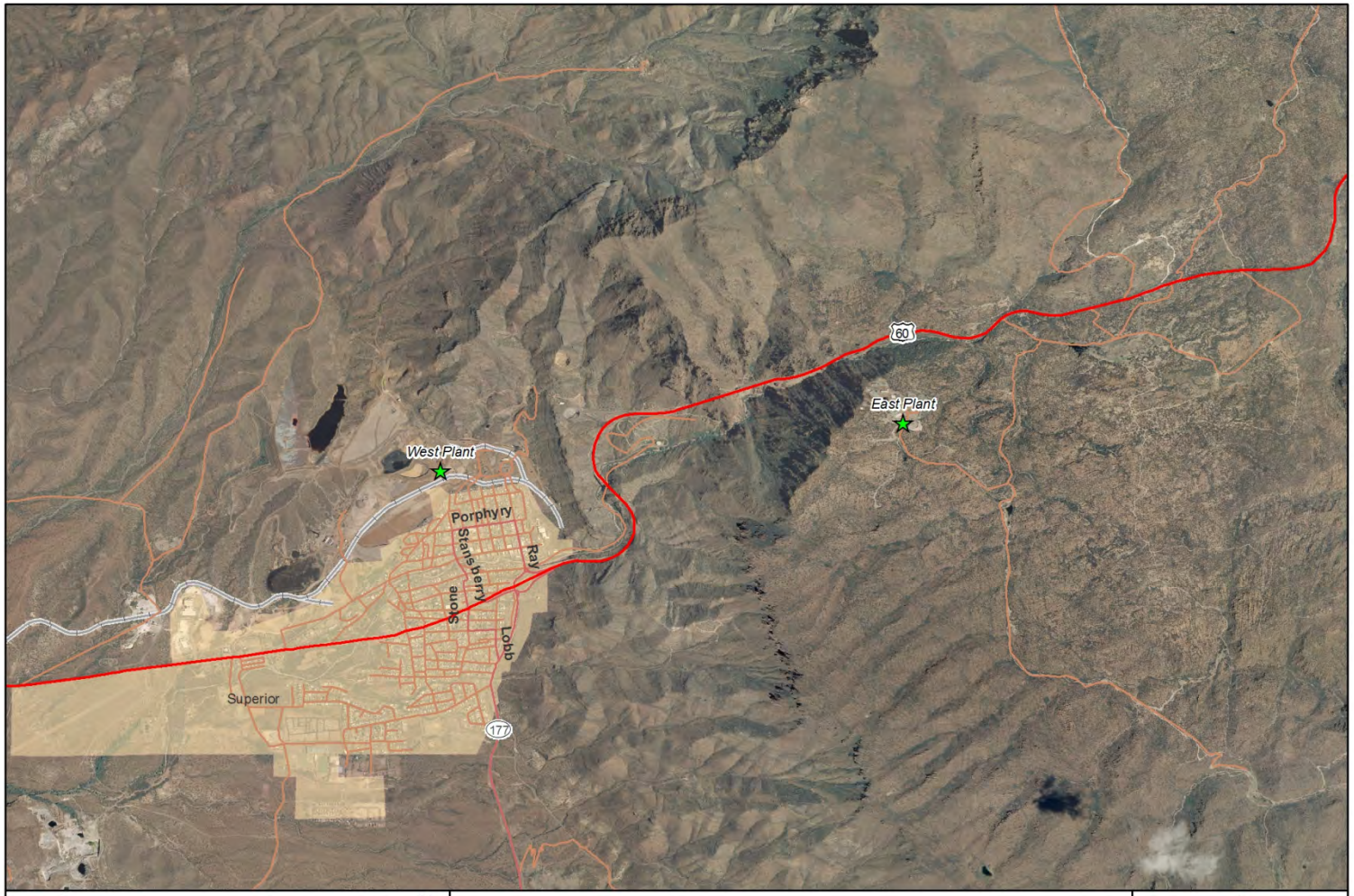
SECTION 1

INTRODUCTION

On October 9, 2012, the air quality instrumentation was calibrated at the Resolution Copper West Plant, near Superior, AZ. The West Plant monitoring station is operated by the Resolution Copper Mining company and is located approximately one quarter mile west of the administration buildings (see Figure 1). The calibration was conducted in accordance with the following guideline documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program (EPA-454/B-08-003, December 2008)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1: Project Location Map – East Plant and West Plant Monitoring Station Locations



0 0.4 0.8 1.6 Miles

N

Version: 06/08/2011

Project No: 262-01

Figure 1

East Plant and West Plant Monitor Locations

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SECTION 2

SYSTEM DESCRIPTION

The parameters calibrated at the West monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$). The particulate instrumentation is housed in a climate controlled shelter. Inlet heights are listed in Table 1.

Table 1. Instruments and inlet heights

Parameter	Approximate Height (meters)
PM_{10}	2
$PM_{2.5}$	2

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

SECTION 3

CALIBRATION METHODOLOGY

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified Delta-Cal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure and flow output readings from the Delta-Cal and the instrument were recorded on a standardized form.

Copies of the completed calibration data forms for each parameter are attached.

SECTION 4

RESULTS AND RECOMMENDATIONS

All calibrated instruments and calibrated sensors were within their recommended tolerance parameters.

ATTACHMENT

Calibration Data Forms

West Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	10/09/2012	**Audited By:**	K. DeHenau
Audit Time:	0900hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.1 LPM	Should Be: <1.0	as left: 0.1 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	27.0	27.0	as left:	27.7	27.7	Adjusted	
Barometric Pressure (mmHg):	as found:	685	685	as left:	685	685	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	14.72	as left:	15.0	15.0	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.0	as left:	18.4	18.43	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.35	as left:	16.7	16.67	Adjusted	X

Audit Notes: **Monitor found in a very clean and serviceable condition; replaced PM10 head gasket. Performed time sync of PM10 BAM with PM2.5 BAM. -KJD**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found	X	As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found	X	As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found	X	As left	X	PM2.5 particle trap clean:	As found		As left		N/A	X
Rubber pinch rollers clean:	As found	X	As left	X	Inlet tube water-tight seal OK:	As found		As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	X		

Signature: Roy Attridge

West Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M3193
Audit Date:	10/09/2012	**Audited By:**	K. DeHenau
Audit Time:	0801hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	8/3/2012

Leak Check Value:	as found:	0.1 LPM	Should Be: <1.0	as left: 0.1 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	23.0	24.1	as left:	24.7	25.0	Adjusted	X
Barometric Pressure (mmHg):	as found:	684	684.5	as left:	684	685	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	16.1	as left:	15.0	15.05	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	Over	as left:	18.4	18.27	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	18.0	as left:	16.7	16.65	Adjusted	X

Audit Notes: **Instrument found in a clean and serviceable condition; Changed filter tape. KJD.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		As left	X		
on	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

Signature: Roy Attridge

Appendix L: CD